



FUDO

Fudo Enterprise 6.2 - API documentation

Fudo Security

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GETTING STARTED

1	Table of Contents	1
1.1	About Documentation	1
1.2	API Overview	2
1.3	Authentication	19
1.4	Role-Based Access Control and User Groups	19
1.5	Users	71
1.6	User Authentication Methods Management	82
1.7	Location Policies NEW	92
1.8	User Devices	103
1.9	User Mobile Access (Fudo Officer)	104
1.10	User Organization	105
1.11	Accounts	107
1.12	Account-Safe-Listener Assignment	116
1.13	Managing Secret Changers and Remote Apps in Accounts	121
1.14	Account Notes	126
1.15	Servers	128
1.16	Pools	136
1.17	Pool-Server Assignment	140
1.18	Listeners	142
1.19	Safes	149
1.20	Safe Notifications	166
1.21	User Group Safe	167
1.22	Group-Derived Safe Access Policies NEW	170
1.23	Internal Fetch	177
1.24	Fetch and Store Server Keys/Certificates	180
1.25	Access Request	184
1.26	Access Request Reason Formats NEW	189
1.27	Password Vault	194
1.28	Secret Changers	237
1.29	Secret Changer Policy	243
1.30	Policies and Regular Expressions	248
1.31	Secret Audit NEW	259
1.32	Discovery	263
1.33	Sessions	287
1.34	Session Summary	327
1.35	Session Commands	332
1.36	AI Session Analysis Agents NEW	335
1.37	AI Session Analysis Results NEW	343
1.38	Reports	351

1.39	User Productivity Analytics	360
1.40	Logs	362
1.41	Syslog Server Management	364
1.42	Notification Filter	370
1.43	Push Notifications	374
1.44	Downloads	381
1.45	Machine Learning - Session Scoring	387
1.46	Machine Learning Settings	389
1.47	Machine Learning - Model Profiles	393
1.48	External Authentication	396
1.49	OpenID Connect Configuration	402
1.50	OpenID Connect Users Assignment	406
1.51	JWT Provider Management NEW	410
1.52	User Directory	417
1.53	Remote Applications	448
1.54	Reverse Proxy	452
1.55	External Storage	458
1.56	LLM Providers NEW	461
1.57	External Password Repository	464
1.58	Batch Requests	468
1.59	Create Batch Operation	469
1.60	Create Batch Operation Using Variable	471
1.61	Backup	473
1.62	Create Backup Target	475
1.63	Get Backup Definitions List	475
1.64	Get a Backup Definition by ID	476
1.65	Assign Backup Definition to Session	476
1.66	Delete Backup Definition	476
1.67	Upgrade	477
1.68	Hotfix	482
1.69	License	486
1.70	Exporting/Importing System Configuration	490
1.71	Hardware Security Module NEW	492
1.72	Network	500
1.73	Get Network Settings	501
1.74	Healthcheck	501
1.75	Status	502
1.76	IPMI	503
1.77	Disk Probe	505
1.78	Dashboard Storage	505
1.79	Authentication Confirmation	512
1.80	Profile Authentication Methods Management	514
1.81	UAG - Current User Identity	523
1.82	UAG - Accounts List	524
1.83	UAG - Account Safe Listener	526
1.84	UAG - Account Access Request	529
1.85	UAG - Access Request Reason Formats NEW	535
1.86	UAG - Session Timeout Check	537
1.87	UAG - Live Sessions NEW	538
1.88	UAG - Session Resolution NEW	540
1.89	UAG - Shared Session Details NEW	543

1.90	UAG - Session Sharing NEW	545
1.91	UAG - Session Share Access NEW	548
1.92	UAG - Session Comments NEW	550
1.93	UAG - Account Remote Applications	553
1.94	UAG - Account Notes	555
1.95	UAG - Account Hotseat Status	557
1.96	UAG - Secret Checkout and Checkin	558
1.97	UAG - Account Password History	561
1.98	UAG - Secret Collections	563
1.99	UAG - Secret Management	569
1.100	Secret History	575
1.101	Shared Secrets	576
1.102	Secret URI Management	577
1.103	UAG - Secret Checkout/Checkin	581
1.104	UAG - Secret Lookup	583
1.105	UAG - Secret History Reveal	586
1.106	UAG - Change Password NEW	589
1.107	UAG - Change Language	591
1.108	UAG - OTP Generation	592
1.109	UAG - Generating RDP Configuration	593

TABLE OF CONTENTS

1.1 About Documentation

Documentation Structure

This API documentation consists of:

- *API Overview* section providing an overview of key concepts that clarify important topics, such as API purpose, nomenclature, request format, methods, possible responses, endpoints and objects specification, parameters and attribute's properties.
- Sections describing endpoints related to individual objects and Fudo Enterprise functionalities.

Conventions and symbols

This documentation is written using the following conventions:

- *italic* - this formatting is used to mark user interface elements.
- **example** - this formatting is used to write example value of a parameter, API method name or code example.
- Note field:

Note

Note field usually contains additional information closely related with described topic, e.g. suggestion concerning given procedure step; additional conditions which have to be met.

- Warning field:

Warning

Warning field usually contains essential information concerning system's operation. Not adhering to this information may have irreversible consequences.

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1.2 API Overview

The purpose of Fudo Enterprise Application Programming Interface (API) is to provide users and administrators with the ability to speed up and automate time-consuming tasks related to remote access management. This API can be used to retrieve data about objects, manage large numbers of objects or integrate Fudo Enterprise with external systems.

Note

You may still come across references to **APIv1** in some materials. This older version has been fully retired starting from Fudo Enterprise 5.6. The current interface is called **APIv2** to distinguish it from the legacy version that was in use earlier.

1.2.1 API Purpose

Fudo API provides a wide range of functionality for administrators, including:

- Retrieving data from and about Fudo objects, like users, servers, accounts, safes, listeners, etc.
- Searching and filtering objects.
- Adding, editing and deleting large numbers of objects and their attributes.
- Automatization of time-consuming admin tasks related to managing objects.
- Integration with external systems.

1.2.2 API Nomenclature

For a better understanding of our API, please refer to the terminology we have adopted:

- **object** - the main elements of the API, on which endpoints operate. For example, user, account, listener, server, etc.
- **attribute** - a feature of the object. For example, the attributes of the object **account** include **id**, **name**, **description**, etc.
- **property** - an attribute property in the object specification. For example, the attribute **name** properties of the **account** object are: **type**, **required**, **ignore_case** and **unique**.

Pattern example:

```
"object": {
  "attribute": {
    "property0": "value",
    "property1": "value",
    "property2": "value",
    "property3": "value",
  },
}
```

Partial code example:

```

"account": {
  "id": {
    "type": "string",
    "readonly": true,
    "grant": "account",
    "unique": true
  },
  "name": {
    "type": "string",
    "required": true,
    "ignore-case": true,
    "unique": true
  },
  "description": {
    "type": "string"
  }
}

```

1.2.3 Request Format

Note

You may still come across references to **APIv1** in some materials. This older version has been fully retired starting from Fudo Enterprise 5.6. The current interface is called **APIv2** to distinguish it from the legacy version that was in use earlier.

APIv2 request format:

<method> http://<fudo_address>/api/v2/<endpoint>[?<params>] <body>

Where:

- <method> - is HTTP method (GET, POST, PATCH or DELETE only allowed),
- <fudo address> - is Fudo Enterprise IP address (e.g., 10.0.0.0),
- <endpoint> - is chosen endpoint (e.g., /objspec/user),
- <params> - is URL parameters available for a specific method (e.g., filter, offset, limit),
- <body> - is request body in JSON format.

An example of the request that returns a list of available users (with no parameters specified and no body needed):

GET /api/v2/user

```

curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/user' \

```

An example of the request that creates user with *user* role and *test-user* name:

POST /api/v2/user

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/user' \
-d '{
    "role": "user",
    "name": "test-user"
}'
```

1.2.4 Methods

Please find below list of allowed methods while using this API.

GET	For reading data of an existing object. No request body is allowed.
POST	For creating an object. Requires a request body, specified in JSON format, that contains the values for properties of the object that is about to be created. The exception is <code>/session/<session_id>/backup/<backup_id></code> endpoint, which does not require a body.
PATCH	For modifying an existing object. Requires a request body, specified in JSON format, that contains the values for properties of the object.
DELETE	For removing an existing object. No request body is allowed.

1.2.5 Possible Responses

Please find below list of possible responses to API queries.

Code	Status	Description
200	success	OK
201	success	CREATED
400	failure	BAD REQUEST; message examples: • Unrecognized endpoint • Request body is not allowed for this endpoint
401	failure	UNAUTHORIZED; message example: • Unauthorized request • Missing session key • Missing %s header • Referer mismatch • Unable to find the user • User is blocked
403	failure	FORBIDDEN; message example: Permission denied
404	failure	NOT FOUND; message example: Object not found
500	failure	INTERNAL SERVER ERROR; message example: Database error
503	failure	SERVICE UNAVAILABLE; message example: Fudo is unhealthy

1.2.6 Endpoints and Objects Specification

To better understand Fudo Enterprise API functionality, we can group endpoints according to object types defined in Fudo Enterprise data model.

Object type	Endpoints example
user	• /user • /user/<id> • /user/safe/time_policy • /user/safe • ...

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Table 1 – continued from previous page

Object type	Endpoints example
server	• /server • /server/<id> • ...
account	• /account • /account/<id> • /account/safe/listener • ...
safe	• /safe • /safe/<id> • /grant/safe • ...
listener	• /listener • /listener/<id> • /grant/listener • ...

We can also distinguish additional types of endpoint groups corresponding to the objects listed below:

- pool
- external_authentication
- session
- remote_app

... and also groups of functional methods, like:

- objspec
- grant
- batch
- network

Let's take a closer look at the last four types in the following paragraphs.

Objspec

The `objspec` type, used only with the `GET` method, enables administrators to retrieve specifications of objects on which endpoints operate, e.g.:

- `/objspec/user` request will return attributes of *user* object type,
- `/objspec/remote_app` request will return attributes of *remote_app* object type.

Below you can find an example of information returned for GET `https://10.0.0.0/api/v2/objspec/remote_app` request.

```
{
  "result": "success",
  "remote_app": {
    "id": {
      "type": "string",
      "readonly": true,
      "unique": true
    },
    "name": {
      "type": "string",
      "required": true,
      "ignore_case": true,
      "unique": true
    },
    "path": {
      "type": "string",
      "required": true
    },
    "arguments": {
      "type": "string"
    },
    "created_at": {
      "type": "string",
      "readonly": true
    },
    "modified_at": {
      "type": "string",
      "readonly": true
    },
    "removed": {
      "type": "boolean",
      "readonly": true
    }
  }
}
```

As you can see on the above example, `remote_app` possess following attributes: `id`, `name`, `path`, `arguments`, `created_at`, `modified_at` and `removed`.

Batch

Fudo API's `batch` powerfull functionality enables administrators to send batch requests, allowing them to perform nested operations with different methods. Please refer to section [Batch requests](#).

Grant

This group, used with the `GET`, `POST` and `DELETE` methods, allows granting management privileges for users to selected accounts, pools, other users, listeners, safes, or servers.

Network

The *Network* functionality allows to retrieve network settings such as DNS address(es), Admin Panel's address, Access Gateway's address, global configuration parameters, network interfaces configuration or routing configuration. It is used only with the **GET** method. To learn more, please refer to *Network* section.

1.2.7 Parameters

You can add a query string just after the endpoint, preceded by a question mark. This provides a string of information that will specify special parameters for your query. In this chapter, you will find a description of the **URL parameters** available for specific methods to be included within a path.

Fields

This parameter is used to specify only desired object fields in the query. **Null** values are skipped, unless explicitly requested.

If query has no **fields** parameter specified:

- **GET** method will return all attributes of an object except those set to **Null**,
- **POST** method will show only **id** fields,
- **PATCH** method will not return any fields.

When using **fields** parameter with no value (**fields=**):

- **GET** method will return **id** field only,
- **POST** and **PATCH** will not return any fields.

Duplicated fields are ignored, e.g., **fields=id,name,name,protocol** will be treated like **fields=id,name,protocol**.

The example below utilizes the **fields** and **filter** parameters to narrow down the result to servers that include the string **test** in the **name** field, returning only the **id**, **name** and **protocol** fields in the response:

Example Request

```
GET https://10.0.0.0/api/v2/server?\
  fields=id,name,protocol&\
  filter=name.match(test)
```

Filter

This parameter defines the criteria used to limit the results returned in the query response.

Note

Please note that certain filters are applied automatically depending on the user's role.

This parameter narrows out the result with available additions:

- **.in()** - include possible attribute values,
- **.iin()** - case insensitive version of **.in()**,

- `.contains()` - include possible fields containing specified values, only applies to arrays (e.g., `account?filter=server_ids.contains(345)`),

Note

- When using `.in()`, `.iin()`, and `.contains()`, we can input multiple values with a comma as a separator (e.g., `server?filter=protocol.in(ssh,rdp,vnc)`, `account?filter=server_ids.contains(1,2,3)`). In this situation, at least one of the given conditions must be met.
- We can also use multiple conditions separated with comma (e.g., `server?filter=server_ids.contains(1),server_ids.contains(2)`). In such cases, all given conditions must be met. This rule applies to all parameters.

- `.match()` - include a regular expression to be searched in field values,
- `.imatch()` - case insensitive version of `.match()`,
- `.eq()` - equal (`name.eq(foo)`),
- `.ieq()` - case insensitive version of `.eq()`,
- `.ne()` - not equal,
- `.ine()` - case insensitive version of `.ne()`,
- `.lt()` - less than,
- `.le()` - less or equal,
- `.gt()` - greater than,
- `.ge()` - greater than or equal,
- `<attribute>` - filter objects based on attributes of type `boolean` set to `true`,
- `!<attribute>` - filter objects based on attributes of type `boolean` set to `false`,

Note

The example filter `filter=protocol.eq(ssh),!legacy_crypto,tls_enabled` filters out objects with the `protocol` equal to `ssh`, boolean type attribute `legacy_crypto` set to `false` and boolean type attribute `tls_enabled` set to `true`.

- `.isnull()` - filter objects with empty values in specified fields (e.g., `description.isnull()`),
- `.isempty()` - filter objects with empty values in specified fields, only applies to arrays.

Note

Every filter can be negated with `<!>`. For instance, the query `filter=!protocol.eq(ssh)` will skip all objects with the protocol attribute set to `ssh`. This example is equivalent of `protocol.ne(ssh)`.

Note

While using DELETE method:

- negation `<!>` cannot be used,
- for safety reasons, at least one unique filter value must be used in the query (e.g., `id`, `name`),
- if an object does not have a unique attribute, uniqueness is determined based on a set of attributes (e.g., `filter=account_id.eq(123456),safe_id.eq(345567),listener_id.eq(789012)`).

Search

Search parameter defines a search phrase and limits the search to specific attributes.

Note

Please note that certain search constraints are applied automatically depending on the user's role.

This parameter narrows out the result with available additions:

- `search.match()` - include a regular expression to be searched in selected fields,
- `search.imatch()` - case insensitive version of `search.match()`.

Note

When using the `search` parameter with multiple attributes separated by a comma (e.g., `search=name,address`), the search condition applies to all given attributes. In this situation, at least one of the given attributes must match the condition.

Example Request

```
GET https://10.0.0.0/api/v2/server?\
search=name,address&filter=search.imatch(ssh)
```

Example Request

```
GET https://10.0.0.0/api/v2/user?\
search=name,login&filter=search.match(^admin)
```

Search can be combined with other filters. In such cases, all given conditions must be met.

Example Request

```
GET https://10.0.0.0/api/v2/server?\
search=name,address&filter=search.imatch(prod),port.eq(22)
```

Search in “all” attributes

The special attribute `all`. enables searching for a specified value in all attributes of type **number** and **string**.

Note

Only `.match()` and `.imatch()` methods can be used on this special attribute.

The example below searches for the string `rdp` in all eligible attributes of the `server` objects. As a result, it will return all servers that have the string `rdp` included in fields such as `name`, `protocol`, `description`, or `reason`.

Example Request

```
GET https://10.0.0.0/api/v2/server?\
filter=all.imatch(rdp)
```

Order

This parameter specifies the order of returned data.

Note

You can reverse the order with an exclamation mark `<!`.

Example below will return all servers `id`, `name` and `protocol` fields, sorted first by `protocol`, and next by reverse `id` order:

Example Request

```
GET https://10.0.0.0/api/v2/server?\
fields=id,name,protocol&\
order=protocol,!id
```

Response

```
{
  "result": "success",
  "server": [
    {
      "id": "918734323983581188",
      "name": "RDP_server_2",
      "protocol": "rdp"
    },
    {
      "id": "918734323983581187",
```

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```

        "name": "RDP_server",
        "protocol": "rdp"
      },
      {
        "id": "918734323983581186",
        "name": "windows.example.org",
        "protocol": "rdp"
      },
      {
        "id": "918734323983581189",
        "name": "SSH_server",
        "protocol": "ssh"
      },
      {
        "id": "918734323983581185",
        "name": "linux.example.org",
        "protocol": "ssh"
      }
    ]
  }
}

```

Offset

This parameter is used to exclude from a response the first N items of a resource collection. Example below skips first 5 objects on the query response:

Example Request

```
GET https://10.0.0.0/api/v2/user?\
  offset=5
```

For predictable results, use this parameter in conjunction with **order** parameter.

Limit

This query parameter specifies the number of instances that a single response contains. Example below limits the list of returned objects to 10 (by ID order):

Example Request

```
GET https://10.0.0.0/api/v2/user?\
  fields=id,name&order=id&\
  filter=role.eq(user)&\
  limit=10
```

Note

- If the limit is not specified in a query, the API will automatically return 1000 records by default.
- Setting the limit value above 1000 results in a Bad Request error.

Debug

This parameter is used to diagnose a query. Example below returns query with debugging data:

Example Request

```
GET https://10.0.0.0/api/v2/server?\
  fields=id,name,protocol&\
  order=protocol,!id&\
  debug
```

Response

```
{
  "result": "success",
  "server": [
    {
      "id": "918734323983581188",
      "name": "RDP_server_2",
      "protocol": "rdp"
    },
    {
      "id": "918734323983581187",
      "name": "RDP_server",
      "protocol": "rdp"
    },
    {
      "id": "918734323983581186",
      "name": "windows.example.org",
      "protocol": "rdp"
    },
    {
      "id": "918734323983581189",
      "name": "SSH_server",
      "protocol": "ssh"
    },
    {
      "id": "918734323983581185",
      "name": "linux.example.org",
      "protocol": "ssh"
    }
  ],
  "debug": {
    "timings": {
      "total start": null,
      "receive start": null,
      "receive duration": "0.000142s",
      "endpoint_verify start": null,
      "endpoint_verify duration": "0.000003s",
      "endpoint_execute start": null,
      "database_request (SELECT) start": null,
      "database_request (SELECT) duration": "0.001976s",

```

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```

        "endpoint_execute duration": "0.002087s",
        "total duration": "0.008025s"
    }
}
}

```

Total Count

total_count parameter returns the total number of objects, taking into account the filters applied in the query, but at the same time ignoring **limit** and **offset** parameters. In the case of large amounts of objects it can be expensive to use.

Estimated Total Count

estimated_total_count parameter can be inaccurate, so it is useful just to estimate quantities. It is much less expensive to use than **total_count**, includes deleted and hidden objects, ignores **filter** parameters and is only available for *superadmin* role.

Reveal

This parameter enables to view objects with the following states:

- **active**,
- **removed**,
- **visible**,
- **hidden**,
- **all**.

By default **reveal** is set to **active** and **visible** states (**?reveal=active,visible**). If we do not specify it as **active** or **removed** (e.g., **?reveal=visible**) it will return only **active** objects.

The same situation occurs in the case of **visible** and **hidden** pair of parameters. If we do not specify **reveal** as **visible** or **hidden**, it will by default take the **visible** value and return only **visible** objects.

1.2.8 Attribute's Properties

We can distinguish the following features of attributes used in object specification:

Table 2: Attribute's properties

Property	Possible values	Default value	Description
type	• boolean • number • string • • number-a: • • string-a:	string	Attribute's type in JSON requests.

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Table 2 – continued from previous page

Property	Possible values	Default value	Description
readonly	• true • false	false	When set to true , it cannot be set during POST or modified during PATCH.
immutable	• true • false	false	When set to true , it can be set only during POST, but cannot be modified during PATCH.
ignore-case	• true • false	false	When set to true , apid will ignore letters case when filtering by this attribute.
allow-empty	• true • false	false	When set to true , this string attribute can be set to an empty string.
default	<value>	No default	Attribute's default value.
protected	• true • false	false	The attribute's value is a secret and shouldn't be returned to the caller.
grant	<objtype>	No default	Require grant on <objtype> and use this attribute as an ID for the <objtype> object.
required	• true • false	false	When set to true , the attribute is always required.
required-by	<pre>{ <attribute>: <value>, ... }</pre>	No default	• List of attributes and their values that require this attribute. • If the value is an empty object then this attribute is required whenever the given attribute exists. • Multiple 'required-by' properties can be specified.
requires	<pre>{ <attribute>: <value>, ... }</pre>	No default	• List of attributes and their values required by this attribute. • If the value is an empty object then the given attribute is required, but value doesn't matter. • Multiple 'requires' properties can be specified. If that is the case then at least one of them has to be met.

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Table 2 – continued from previous page

Property	Possible values	Default value	Description
values	• <code><value></code> or: • [<code><value></code>, ...]	No default	Value or an array of possible values for this attribute.
value-labels	[<code><label></code> , ...]	No default	User-friendly names for all the values, used in graphical user interfaces.
value-range	[<code><minval></code> , <code><maxval></code>]	No default	Value range for a numeric attribute.
value-regexp	<code><regular expression></code>	No default	Regular expression that the value has to match.
unique	• <code>true</code> • <code>false</code> or: • <code><attribute></code> or: • [<code><attribute></code>, ...]	<code>false</code>	The given attribute is unique by itself (when <code>true</code>) or is unique when combined with other attributes.
expensive	• <code>true</code> • <code>false</code>	<code>false</code>	The given attribute is expensive to retrieve because it requires an additional operations in the database or a subquery.
description	<code>string</code>	No default	Short description of the attribute.
capability	{ <code>objtype</code> : <code><string></code> , <code><HTTP method></code> : <code><right></code> , ... }	None	Defines role-based access requirements (RBAC) for accessing or modifying the object via a specific API method. The object type (<code>objtype</code>) specifies the protected resource (e.g. <code>account</code>), while each HTTP method (e.g. <code>GET</code> , <code>POST</code> , <code>PATCH</code> , <code>DELETE</code>) maps to a required right (e.g. <code>read</code> , <code>write</code>). For example, <code>GET: read</code> on <code>account</code> means that to retrieve object via <code>GET</code> , the user must have the <code>read</code> right on the <code>account</code> object type.

Selected Use Examples

Required-by

Description

In the following example, the attribute is required when `protocol` is set to either `ssh` or `rdp`.

Example

```
"required-by": { "protocol": [ "ssh", "rdp" ] }
```

Description

Example below shows that when `"external_port"` is defined, this attribute is required.

Example

```
"required-by": { "external_port": { } }
```

Description

Multiple `"required-by"` properties can be specified. Two equivalent examples below shows that this attribute is required either:

- when `protocol` is `"ssh"` or
- when `protocol` is `http` or `rdp` and `tls_enabled` is `true`.

Example

```
"required-by": { "protocol": "ssh" },
"required-by": { "protocol": [ "http", "rdp" ], "tls_enabled": true }
```

Equivalent example

```
"required-by": { "protocol": "ssh" },
"required-by": { "protocol": "http", "tls_enabled": true },
"required-by": { "protocol": "rdp", "tls_enabled": true }
```

Requires

Description

Following example shows that this attribute requires `protocol` to be set to `ssh` or `rdp`.

Example

```
"requires": { "protocol": [ "ssh", "rdp" ] }
```

Description

Following example shows that `"external_port"` is required to exist, but its value is not important.

Example

```
"requires": { "external_port": { } }
```

Description

Following example shows that this attribute requires `protocol` to be set to `rdp` and `"tls_enabled"` to be set to `true`.

Example

```
"requires": { "protocol": "rdp", "tls_enabled": true }
```

Unique

Description

Example of unique attribute with no dependencies.

Example

```
"id": {"unique": true}
```

Description

Example of unique attribute with single dependency - a pair of those attributes is unique.

Example

```
"safe_id": {
  "unique": "user_id"
},
"user_id": {
  "unique": "safe_id"
}
```

Description

Example of unique attribute with double dependency - three attributes together are unique.

Example

```
"account_id": {
  "unique": [ "listener_id", "safe_id" ]
},
"listener_id": {
  "unique": [ "account_id", "safe_id" ]
},
"safe_id": {
  "unique": [ "account_id", "listener_id" ]
}
```

1.2.9 API BETA Endpoints

Endpoints in the `/beta` and `/internal` namespace are subject to change without notice. These endpoints are considered experimental and may undergo modifications, deprecations, or removals as we continue to refine and improve the API.

It is recommended to use these endpoints with caution and not to rely on them for production-level applications. Always check for updates and changes regularly when using `/beta` or `/internal` endpoints.

Note

For production environments, it is advisable to use the stable endpoints. The `/beta` and `/internal` endpoints are intended for testing and development purposes only.

1.3 Authentication

To access Fudo Enterprise data structures via the API interface, you need a *user* object defined in the local database with the *API Key* authentication method specified. To obtain the *API Key*, please follow below steps in the Fudo Enterprise Admin Panel:

- Create new *user* or edit existing *admin* user definition.
- Specify the *API Key* authentication method for this *user*.
- Generate the *API Key* value, copy it, and archive it for future API requests.

Note

The API Key cannot be retrieved after saving this authentication method.

For more detailed information, please refer to the [Users](#) section of the [Fudo Enterprise Documentation](#).

1.3.1 How To Authenticate Using an API Key

For successful authentication, include the key **Authorization** with the generated *API Key* value in the *Headers* of your API requests.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/user'
```

1.3.2 Access Rights Restrictions

The same access rights restrictions apply to the API interface as in case of Administration Panel access. Outlined in the table below are the access rights specified for each of the roles available in Fudo Enterprise.

1.4 Role-Based Access Control and User Groups

Roles implement Role-Based Access Control (RBAC), providing granular and flexible control over user permissions.

The **RBAC (Role-Based Access Control)** functionality in Fudo Enterprise allows system administrators to define precise roles with specific access permissions tailored to objects and operations. This enables the creation of roles designed for particular tasks, such as a role that grants permissions solely for user management—allowing the creation, editing, and deletion of users—without affecting other areas of the system.

1.4.1 Definitions

Privilege A permission to perform a specific action in the system. It may apply to all objects of a given type (e.g., modifying secret changers, creating servers) or be unrelated to any object (e.g., upgrading Fudo).

Capability Access granted to a subject for a specific object. A capability defines on which object the assigned privileges can be used.

Right A specific permission within a capability — it defines what operations can be performed on the assigned object (e.g., the ability to block a user specified by the capability).

Subject The entity that holds permissions — either a user or a group.

Object The target of the permissions. Currently supported object types are: user, safe, account, pool, group, and server.

1.4.2 Privileges

Data Structures

Table 3: PrivilegeModel

Attribute	Type	Required	Description
bit	number	yes	Unique; Read-only; hidden.
name	string	yes	Unique; Read-only.
description	string	yes	Read-only.

Retrieve Available Attributes of the *PrivilegeModel*

Request

Method	GET
Path	/api/v2/objspec/privilege

GET /api/v2/objspec/privilege

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/privilege'
```

Get List of Available Privileges

Request

Method	GET
Path	/api/v2/privilege

GET /api/v2/privilege

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/privilege'
```


Response

```
{
  "result": "success",
  "privilege": [
    {
      "name": "account-create",
      "description": ""
    },
    {
      "name": "account-read",
      "description": ""
    },
    {
      "name": "account-modify",
      "description": ""
    },
    {
      "name": "account-delete",
      "description": ""
    },
    {
      "name": "account-block",
      "description": ""
    },
    {
      "name": "group-create",
      "description": ""
    },
    {
      "name": "webapp-session-timeout",
      "description": "Fudo Admin Panel and User Access Gateway session↵
↵timeout configuration"
    }
    // ... more privileges
  ]
}
```

1.4.3 Roles

Data Structures

Table 4: RoleModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
name	string	yes	Case-insensitive. Unique.
description	string		
in_use	boolean		Read-only; expensive to use.
privs	string-array	yes	Read-write; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
hidden	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

Retrieve Available Attributes of the *RoleModel*

Request

Method	GET
Path	/api/v2/objspec/role

GET /api/v2/objspec/role

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/role'
```

Get Roles List

Request

Method	GET
Path	/api/v2/role

GET /api/v2/role

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/role'
```

Response

```
{
  "result": "success",
  "role": [
    {
      "id": "9115285645797883905",
      "name": "superadmin",
      "privs": [
        "account-create",
        "account-read",
        "account-modify",
        "..."
      ],
      "created_at": "2025-04-25 01:40:11.204397-07",
      "modified_at": "2025-04-25 01:40:11.204397-07",
      "builtin": false,
      "hidden": false
    },
    {
      "id": "9115285645797883910",
      "name": "viewer",
      "privs": [
        "user-session-view",
        "dashboard"
      ],
      "created_at": "2025-04-25 01:40:11.20449-07",
      "modified_at": "2025-04-25 01:40:11.20449-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

Get Role by ID

Request

Method	GET
Path	/api/v2/role/<id>

GET /api/v2/role/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/role/9115285645797883910'
```

Response

```
{
  "result": "success",
  "role": {
    "id": "9115285645797883910",
    "name": "viewer",
    "privs": [
      "user-session-view",
      "dashboard"
    ],
    "created_at": "2025-04-25 01:40:11.20449-07",
    "modified_at": "2025-04-25 01:40:11.20449-07",
    "builtin": false,
    "hidden": false
  }
}
```

Create Role

Request

Method	POST
Path	/api/v2/role
Headers	Content-Type: application/json
Body	RoleModel

POST /api/v2/role

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/role' \
-d '{"name": "Role_Session_Viewer","privs": ["user-session-view","dashboard"]}'
```

Response

```
{
  "result": "success",
  "role": {
    "id": "9115285645797883911"
  }
}
```

Modify Role

Request

Method	PATCH
Path	/api/v2/role/<id>
Headers	Content-Type: application/json
Body	RoleModel

PATCH /api/v2/role/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  -H 'Content-Type: application/json' \  
  'https://10.31.135.179/api/v2/role/9115285645797883911' \  
  -d '{"name": "Role_Session_Manager", "privs": ["session-read", "session-modify",  
↪ "session-delete", "session-encode", "session-file-read", "session-file-download",  
↪ "session-file-delete", "session-movie-read", "session-movie-download", "session-  
↪ share-view", "session-share-join", "session-comment-read", "session-comment-write  
↪ ", "session-terminate", "session-export"]}]'
```

Response

```
{  
  "result": "success"  
}
```

Grant Privileges to Role

Request

Method	PATCH
Path	/api/v2/role/<id>/grant
Headers	Content-Type: application/json
Body	RoleModel

PATCH /api/v2/role/<id>/grant

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  'https://10.31.135.179/api/v2/role/9115285645797883912/grant' \  
  -d '{"privs": ["session-read", "session-modify"]}]'
```

Response

```
{  
  "result": "success"  
}
```

Revoke Privileges from Role

Request

Method	PATCH
Path	/api/v2/role/<id>/revoke
Headers	Content-Type: application/json
Body	RoleModel

PATCH /api/v2/role/<id>/revoke

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: <token>' \  
-H 'Content-Type: application/json' \  
'https://10.31.135.179/api/v2/role/9115285645797883912/revoke' \  
-d '{"privs": ["session-read", "session-modify"]}'
```

Response

```
{  
  "result": "success"  
}
```

Delete Role

Request

Method	DELETE
Path	/api/v2/role/<id>

DELETE /api/v2/role/<id>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.135.179/api/v2/role/9115285645797883911'
```

Response

```
{  
  "result": "success"  
}
```

1.4.4 User-Role Assignment

Data Structures

Table 5: UserRoleModel

Attribute	Type	Required	Description
id	string		Read-only; protected. Unique identifier.
user_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>role_id</code> . Requires <code>read</code> right on the <code>user</code> object for GET requests.
role_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>role_id</code> with attribute <code>user_id</code> .
role_name	string		Read-only; expensive to use.
user_name	string		Read-only; expensive to use.
user_blocked	boolean		Read-only; expensive to use; blocked state of the assigned user.
privs	string-array		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
hidden	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

Retrieve Available Attributes of the *UserRoleModel*

Request

Method	GET
Path	/api/v2/objspec/user_role

GET /api/v2/objspec/user_role

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/user_role'
```

Get User-Role Assignment List

Request

Method	GET
Path	/api/v2/user/role

GET /api/v2/user/role

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/user/role'
```

Response

```
{  
  "result": "success",  
  "user_role": [  
    {  
      "user_id": "9115285645797883905",  
      "role_id": "9115285645797883905",  
      "role_name": "superadmin",  
      "user_name": "admin",  
      "privs": [  
        "account-create",  
        "account-read",  
        "account-modify",  
        "..."  
      ],  
      "created_at": "2025-04-25 01:40:11.204397-07",  
      "modified_at": "2025-04-25 01:40:11.204397-07",  
      "builtin": false,  
      "hidden": false  
    },  
    {  
      "user_id": "9115285645797883908",  
      "role_id": "9115285645797883908",  
      "role_name": "operator",  
      "user_name": "remoteapp",  
      "privs": [  
        "user-session-view",  
        "listener-read",  
        "notification-filter-create",  
        "notification-filter-read",  
        "..."  
      ],  
      "created_at": "2025-05-07 05:17:40.584837-07",  
      "modified_at": "2025-05-07 05:17:40.584837-07",  
      "builtin": false,  
      "hidden": false  
    }  
  ]  
}
```


Get Role Assigned to a User by Their IDs

Request

Method	GET
Path	/user/<user_id>/role/<role_id>

GET /api/v2/user/<user_id>/role/<role_id>

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfee6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/user/9115285645797883905/role/9115285645797883905'
```

Response

```
{  
  "result": "success",  
  "user_role": {  
    "user_id": "9115285645797883905",  
    "role_id": "9115285645797883905",  
    "role_name": "superadmin",  
    "user_name": "admin",  
    "privs": [  
      "account-create",  
      "account-read",  
      "account-modify",  
      "account-delete",  
      "..."  
    ],  
    "created_at": "2025-04-25 01:40:11.206421-07",  
    "modified_at": "2025-04-25 01:40:11.206421-07",  
    "builtin": false,  
    "hidden": false  
  }  
}
```

Create User-Role Assignment

Request

Method	POST
Path	/api/v2/user/role
Headers	Content-Type: Application/json
Body	UserRoleModel

POST /api/v2/user/role

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/user/role' \
-d '{"user_id": "9115285645797883905", "role_id": "9115285645797883908"}'
```

Response

```
{
  "result": "success"
}
```

Delete User-Role Assignment

Request

Method	DELETE
Path	/api/v2/user/<user_id>/role/<role_id>

DELETE /api/v2/user/<user_id>/role/<role_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/user/9115285645797883905/role/'
↪9115285645797883908'
```

Response

```
{
  "result": "success"
}
```

1.4.5 Groups

Endpoints in this section allow you to create groups and modify their name and description. To assign safes, users, and configure object permissions, refer to the following sections: *Group-Safe Assignment*, *Group-Safe-TimePolicy Management*, and *Group-User Assignment*.

Data Structures

Table 6: GroupModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier. Requires rights to perform operations on the group object: read for GET, modify for PATCH, delete for DELETE.
name	string	yes	Unique. Case-insensitive.
description	string		
scim_managed	boolean	yes	Default: false.
external_id	string		Unique.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *GroupModel*

Request

GET /api/v2/objspec/group

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/group'
```

Get Groups List

Request

Method	GET
Path	/api/v2/group

GET /api/v2/group

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group'
```

Response

```
{
  "result": "success",
  "group": [
```

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```
{
  "id": "9115285645797883905",
  "name": "admin",
  "scim_managed": false,
  "rights": [
    "read",
    "modify",
    "delete",
    "user-add",
    "user-remove"
  ],
  "created_at": "2025-04-28 03:59:56.247996-07",
  "modified_at": "2025-04-28 03:59:56.247996-07"
},
{
  "id": "9115285645797883906",
  "name": "QA_team",
  "scim_managed": false,
  "rights": [
    "read",
    "modify",
    "delete",
    "user-add",
    "user-remove"
  ],
  "created_at": "2025-04-30 02:18:18.651517-07",
  "modified_at": "2025-04-30 02:18:18.651517-07"
}
]
```

Get Group by ID

Request

Method	GET
Path	/api/v2/group/<id>

GET /api/v2/group/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/9115285645797883905'
```

Response

```
{
  "result": "success",
  "group": {
    "id": "9115285645797883905",
    "name": "admin",
    "scim_managed": false,
    "rights": [
      "read",
      "modify",
      "delete",
      "user-add",
      "user-remove"
    ],
    "created_at": "2025-04-28 03:59:56.247996-07",
    "modified_at": "2025-05-07 23:55:40.907653-07"
  }
}
```

Create Group

Request

Method	POST
Path	/api/v2/group
Headers	Content-Type: Application/json
Body	GroupModel

POST /api/v2/group

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/group' \
  -d '{"name": "QA_Team", "description": "Members of QA responsible for..."}'
```

Response

```
{
  "result": "success",
  "group": {
    "id": "9115285645797883908"
  }
}
```

Modify Group

Request

Method	PATCH
Path	/api/v2/group/<id>
Headers	Content-Type: Application/json
Body	GroupModel

PATCH /api/v2/group/<id>

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.31.135.179/api/v2/group/9115285645797883911' \  
-d '{"name": "Dev_Team", "description": "Members of DEV responsible for..."}'
```

Response

```
{  
  "result": "success"  
}
```

Delete Group

Request

Method	DELETE
Path	/api/v2/group/<id>

DELETE /api/v2/group/<id>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.135.179/api/v2/group/9115285645797883911'
```

Response

```
{  
  "result": "success"  
}
```

1.4.6 Group-Safe Assignment

Endpoints in this section allow you to assign safes to groups.

Data Structures

Table 7: GroupSafeModel

Attribute	Type	Required	Description
id	string		Read-only; protected. Unique identifier.
group_id	string	yes	Immutable. Uniqueness is required in the combination of attribute group_id with attribute safe_id . Requires read right on the group object for all operations.
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute safe_id with attribute group_id . Requires rights on the safe object: read for GET, group-add for POST and PATCH , group-remove for DELETE.
password_visib	boolean; default value false	yes	
use_time_polic	boolean; default value false	yes	
blocked	boolean; default value false	yes	Access to this safe is disabled for the group.
valid_since	datetime (h:m:s); default value -infinity	yes	Beginning access time.
valid_to	datetime (h:m:s); default value infinity	yes	Ending access time.
group_name	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.

Retrieve Available Attributes of the *GroupSafeModel*

Request

Method	GET
Path	/api/v2/objspec/group_safe

GET /api/v2/objspec/group_safe

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/objspec/group_safe'
```

Get Group-Safe Assignment List

Request

Method	GET
Path	/api/v2/group/safe

GET /api/v2/group/safe

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/safe'
```

Response

```
{
  "result": "success",
  "group_safe": [
    {
      "group_id": "9115285645797883905",
      "safe_id": "9115285645797883906",
      "password_visible": false,
      "use_time_policy": false,
      "group_name": "admin",
      "safe_name": "RDP",
      "created_at": "2025-05-07 23:56:15.424739-07",
      "modified_at": "2025-05-07 23:56:15.424739-07",
      "builtin": false,
      "hidden": false
    },
    {
      "group_id": "9115285645797883905",
      "safe_id": "9115285645797883907",
      "password_visible": false,
      "use_time_policy": false,
      "group_name": "admin",
      "safe_name": "SSH",
      "created_at": "2025-05-07 23:56:15.450435-07",
      "modified_at": "2025-05-07 23:56:15.450435-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

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```
]
}
```

Get Safe Assigned to a Group by Their IDs

Request

Method	GET
Path	/group/<group_id>/safe/<safe_id>

GET /api/v2/group/<group_id>/safe/<safe_id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/9115285645797883905/safe/9115285645797883906'
↪ '
```

Response

```
{
  "result": "success",
  "group_safe": {
    "group_id": "9115285645797883905",
    "safe_id": "9115285645797883906",
    "password_visible": false,
    "use_time_policy": false,
    "group_name": "admin",
    "safe_name": "RDP",
    "created_at": "2025-05-07 23:56:15.424739-07",
    "modified_at": "2025-05-07 23:56:15.424739-07",
    "builtin": false,
    "hidden": false
  }
}
```

Create Group-Safe Assignment

Request

Method	POST
Path	/api/v2/group/safe
Headers	Content-Type: Application/json
Body	GroupSafeModel

POST /api/v2/group/safe

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/group/safe' \
-d '{"group_id": "9115285645797883905", "safe_id": "9115285645797883906", "use_
↪time_policy": true}'
```

Response

```
{
  "result": "success"
}
```

Modify Group-Safe Assignment

Request

Method	PATCH
Path	/api/v2/group/<group_id>/safe/<safe_id>
Headers	Content-Type: Application/json
Body	GroupSafeModel

PATCH /api/v2/group/<group_id>/safe/<safe_id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/group/9115285645797883911/safe/
↪9115285645797883908' \
-d '{"password_visible": true, "use_time_policy": false}'
```

Response

```
{
  "result": "success"
}
```

Delete Group-Safe Assignment

Request

Method	DELETE
Path	/api/v2/group/<group_id>/safe/<safe_id>

DELETE /api/v2/group/<group_id>/safe/<safe_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/group/9115285645797883905/safe/
↪9115285645797883908'
```

Response

```
{
  "result": "success"
}
```

1.4.7 Group-Safe-TimePolicy Management

Endpoints in this section allow you to manage the time policy for accessing safes assigned to a group.

Data Structures

Table 8: GroupSafeTimePolicyModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
group_safe_id	string		Read-only; protected.
group_id	string	yes	Immutable. Requires rights on the group object: read for GET, modify for POST, PATCH, and DELETE.
safe_id	string	yes	Immutable. Requires read right on the safe object for all operations.
group_name	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
day_of_week	number	yes	Value range from 1 to 7.
valid_from	datetime	yes	Daily access start time.
valid_to	datetime	yes	Daily access end time.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *GroupSafeTimePolicyModel*

Request

Method	GET
Path	/api/v2/objspec/group_safe_time_policy

GET /api/v2/objspec/group_safe_time_policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/objspec/group_safe_time_policy'
```

Get Group-Safe-TimePolicy Assignment List

Request

Method	GET
Path	/api/v2/group/safe/time_policy

GET /api/v2/group/safe/time_policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/safe/time_policy'
```

Response

```
{
  "result": "success",
  "group_safe_time_policy": [
    {
      "id": "9115285645797883905",
      "group_id": "9115285645797883906",
      "safe_id": "9115285645797883907",
      "group_name": "QA_team",
      "safe_name": "SSH",
      "day_of_week": 1,
      "valid_from": "06:00:00",
      "valid_to": "08:00:00",
      "created_at": "2025-05-08 03:12:37.235474-07",
      "modified_at": "2025-05-08 03:12:37.235474-07"
    },
    {
      "id": "9115285645797883906",
      "group_id": "9115285645797883906",
      "safe_id": "9115285645797883907",
      "group_name": "QA_team",
      "safe_name": "SSH",
      "day_of_week": 1,
      "valid_from": "10:00:00",
      "valid_to": "12:00:00",
      "created_at": "2025-05-08 03:12:37.254555-07",
      "modified_at": "2025-05-08 03:12:37.254555-07"
    },
    {
      "id": "9115285645797883909",
```

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```

        "group_id": "9115285645797883906",
        "safe_id": "9115285645797883907",
        "group_name": "QA_team",
        "safe_name": "SSH",
        "day_of_week": 2,
        "valid_from": "08:00:00",
        "valid_to": "10:00:00",
        "created_at": "2025-05-08 03:12:37.302277-07",
        "modified_at": "2025-05-08 03:12:37.302277-07"
    },
]
}

```

Get Group-Safe-TimePolicy Assignment by ID

Request

Method	GET
Path	/group/safe/time_policy/<id>

GET /api/v2/group/safe/time_policy/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/safe/time_policy/9115285645797883909'

```

Response

```

{
  "result": "success",
  "group_safe_time_policy": {
    "id": "9115285645797883909",
    "group_id": "9115285645797883906",
    "safe_id": "9115285645797883907",
    "group_name": "QA_team",
    "safe_name": "SSH",
    "day_of_week": 2,
    "valid_from": "08:00:00",
    "valid_to": "10:00:00",
    "created_at": "2025-05-08 03:12:37.302277-07",
    "modified_at": "2025-05-08 03:12:37.302277-07"
  }
}

```

Create Group-Safe-TimePolicy Assignment

Request

Method	POST
Path	/api/v2/group/safe/time_policy
Headers	Content-Type: Application/json
Body	GroupSafeTimePolicyModel

POST /api/v2/group/safe/time_policy

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/group/safe/time_policy' \
-d '{"group_id": "9115285645797883906", "safe_id": "9115285645797883907", "day_of_
↪ week": 5, "valid_from": "06:00:00", "valid_to": "12:00:00"}'
```

Response

```
{
  "result": "success",
  "group_safe_time_policy": {
    "id": "9115285645797883914"
  }
}
```

Modify Group-Safe-TimePolicy Assignment

Request

Method	PATCH
Path	/api/v2/group/safe/time_policy/<id>
Headers	Content-Type: Application/json
Body	GroupSafeTimePolicyModel

PATCH /api/v2/group/safe/time_policy/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/group/safe/time_policy/9115285645797883915' \
-d '{"day_of_week": 3, "valid_from": "06:00:00", "valid_to": "12:00:00"}'
```

Response

```
{
  "result": "success"
}
```

Delete Group-Safe-TimePolicy Assignment

Request

Method	DELETE
Path	/api/v2/group/safe/time_policy/<id>

DELETE /api/v2/group/safe/time_policy/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/group/safe/time_policy/9115285645797883915'
```

Response

```
{
  "result": "success"
}
```

1.4.8 Group-User Assignment

Endpoints in this section allow you to assign users to groups.

Data Structures

Table 9: GroupUser

Attribute	Type	Required	Description
id	string		Read-only; protected. Unique identifier.
group_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>group_id</code> with attribute <code>user_id</code> . Requires rights on the <code>group</code> object: <code>read</code> for GET, <code>user-add</code> for POST, <code>user-remove</code> for DELETE.
user_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>group_id</code> . Requires <code>read</code> right on the <code>user</code> object for all operations.
group_name	string		Read-only; expensive to use.
user_name	string		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *GroupUser*

Request

Method	GET
Path	/api/v2/objspec/group_user

GET /api/v2/objspec/group_user

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.135.179/api/v2/objspec/group_user'
```

Get Group-User Assignment List

Request

Method	GET
Path	/api/v2/group/user

GET /api/v2/group/user

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/group/user'
```

Response

```
{  
  "result": "success",  
  "group_user": [  
    {  
      "group_id": "9115285645797883906",  
      "user_id": "9115285645797883906",  
      "group_name": "QA_team",  
      "user_name": "User_1",  
      "created_at": "2025-05-07 23:56:45.451806-07",  
      "modified_at": "2025-05-07 23:56:45.451806-07"  
    },  
    {  
      "group_id": "9115285645797883906",  
      "user_id": "9115285645797883907",  
      "group_name": "QA_team",  
      "user_name": "User_2",  
      "created_at": "2025-05-07 23:56:45.462326-07",  
      "modified_at": "2025-05-07 23:56:45.462326-07"  
    }  
  ]  
}
```

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```
]
}
```

Get Group-User Assignment by Their IDs

Request

Method	GET
Path	/group/<group_id>/user/<user_id>

GET /api/v2/group/<group_id>/user/<user_id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/group/9115285645797883906/user/9115285645797883907'
↪ '
```

Response

```
{
  "result": "success",
  "group_user": {
    "group_id": "9115285645797883906",
    "user_id": "9115285645797883907",
    "group_name": "QA_team",
    "user_name": "User_2",
    "created_at": "2025-05-07 23:56:45.462326-07",
    "modified_at": "2025-05-07 23:56:45.462326-07"
  }
}
```

Create Group-User Assignment

Request

Method	POST
Path	/api/v2/group/user
Headers	Content-Type: Application/json
Body	GroupUser

POST /api/v2/group/user

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
```

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```
'https://10.0.214.98/api/v2/group/user' \
-d '{"group_id": "9115285645797883906", "user_id": "9115285645797883909"}'
```

Response

```
{
  "result": "success"
}
```

Delete Group-User Assignment

Request

Method	DELETE
Path	/api/v2/group/<group_id>/user/<user_id>

DELETE /api/v2/group/<group_id>/user/<user_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/group/9115285645797883906/user/
↪9115285645797883909'
```

Response

```
{
  "result": "success"
}
```

1.4.9 Object Rights

Data Structures

Table 10: ObjectRightsModels

Attribute	Type	Required	Description
bit	number	yes	Read-only. Unique. Hidden.
name	string	yes	Read-only.
description	string	yes	Read-only.

Retrieve Available Attributes of the *ObjectRightsModels*

Request

Method	GET
Path	/api/v2/objspec/{objtype}_right
Variants	• /api/v2/objspec/account_right • /api/v2/objspec/collection_right • /api/v2/objspec/group_right • /api/v2/objspec/pool_right • /api/v2/objspec/safe_right • /api/v2/objspec/server_right • /api/v2/objspec/user_right

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Available Rights Values for Object Types

Request

Method	GET
Path	/api/v2/capability/right/{objtype}
Variants	• /api/v2/capability/right/account • /api/v2/capability/right/collection • /api/v2/capability/right/group • /api/v2/capability/right/pool • /api/v2/capability/right/safe • /api/v2/capability/right/server • /api/v2/capability/right/user

Example Request

GET /api/v2/capability/right/account

```
curl -s -k -X GET \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/capability/right/account '
```

Response

```
{
  "result": "success",
  "account_right": [
    {
      "name": "read",
      "description": ""
    },
    {
      "name": "modify",
```

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```

        "description": ""
    },
    {
        "name": "delete",
        "description": ""
    },
    {
        "name": "block",
        "description": ""
    }
]
}

```

The table below lists the available `rights` values for each object type.

Object type	Available rights values
account	• "read" • "modify" • "delete" • "block"
collection	• "read" • "modify" • "delete" • "move" • "create"
group	• "read" • "modify" • "delete" • "user-add" • "user-remove"
pool	• "read" • "modify" • "delete" • "server-add" • "server-remove"

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Table 11 – continued from previous page

Object type	Available rights values
safe	• "read" • "modify" • "delete" • "block" • "account-add" • "account-remove" • "group-add" • "group-remove" • "user-add" • "user-remove"
server	• "read" • "modify" • "delete" • "block"
user	• "read" • "modify" • "delete" • "block" • "session-view"

1.4.10 Access Rights

Data Structures

Table 12: AccessModel

Attribute	Type	Required	Description
subject_id	string		Read-only. Identifier of the subject (e.g., user or group). Uniqueness is required in the combination with attribute <code>object_id</code> .
subject_name	string		Read-only; expensive to use. Name of the subject.
object_id	string		Read-only. Identifier of the target object (e.g., safe, server, account). Uniqueness is required in the combination with attribute <code>subject_id</code> .
object_name	string		Read-only; expensive to use. Name of the target object.
rights	string-array		Read-only. List of assigned rights.
builtin	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
hidden	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

Retrieve Available Attributes of the *AccessModels*

Request

Method	GET
Path	/api/v2/objspec/{objtype}_access
Variants	• /api/v2/objspec/account_access • /api/v2/objspec/group_access • /api/v2/objspec/pool_access • /api/v2/objspec/safe_access • /api/v2/objspec/server_access • /api/v2/objspec/user_access

Example Request

GET /api/v2/objspec/account_access

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.117.68/api/v2/objspec/account_access'
```

Get All Access Rules for Selected Object Type

Request

Method	GET
Path	/api/v2/access/{objtype}
Variants	• /api/v2/access/account • /api/v2/access/group • /api/v2/access/pool • /api/v2/access/safe • /api/v2/access/server • /api/v2/access/user

Example Request

GET /api/v2/access/safe

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.117.68/api/v2/access/safe'
```

Response

```
{
  "result": "success",
  "safe_access": [
    {
```

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```

    "subject_id": "1",
    "subject_name": "system",
    "object_id": "2",
    "object_name": "portal",
    "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",
        "user-add",
        "user-remove"
    ]
},
{
    "subject_id": "1",
    "subject_name": "system",
    "object_id": "8673932882315575297",
    "object_name": "main",
    "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",
        "user-add",
        "user-remove"
    ]
},
{
    "subject_id": "8673932882315575297",
    "subject_name": "admin",
    "object_id": "2",
    "object_name": "portal",
    "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",

```

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```

        "user-add",
        "user-remove"
    ]
},
{
    "subject_id": "8673932882315575297",
    "subject_name": "admin",
    "object_id": "8673932882315575297",
    "object_name": "main",
    "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",
        "user-add",
        "user-remove"
    ]
}
]
}

```

Get Access Rights of a Subject to a Specific Object

Request

Method	GET
Path	/api/v2/access/<subject_id>/{objtype}/<object_id>
Variants	• /api/v2/access/<subject_id>/safe/<object_id> • /api/v2/access/<subject_id>/group/<object_id> • /api/v2/access/<subject_id>/pool/<object_id> • /api/v2/access/<subject_id>/safe/<object_id> • /api/v2/access/<subject_id>/server/<object_id> • /api/v2/access/<subject_id>/user/<object_id>

Example: Retrieve Access Rights of User <user_id> to Group <group_id>

GET /api/v2/access/<user_id>/group/<group_id>

Note

<user_id> – Unique identifier (ID) of the user.

<group_id> – Unique identifier (ID) of the group.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.117.68/api/v2/access/8673932882315575297/group/'
↪8673932882315575297'
```

Response

```
{
  "result": "success",
  "group_access": {
    "subject_id": "8673932882315575297",
    "subject_name": "admin",
    "object_id": "8673932882315575297",
    "object_name": "Group_1",
    "rights": [
      "read",
      "modify",
      "delete",
      "user-add",
      "user-remove"
    ]
  }
}
```

Examples of Filtered Access Requests

Example 1: Retrieve All Accounts Accessible by User <user_id>

Request

Method	GET
Path	/api/v2/access/account?filter=subject_id.eq(<user_id>)

Note

<user_id> – Unique identifier (ID) of the user.

GET /api/v2/access/account?filter=subject_id.eq(<user_id>)

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.117.68/api/v2/access/account?filter=subject_id.'
↪eq(8673932882315575297)'
```

Response

```
{
  "result": "success",
  "account_access": [
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "8673932882315575299",
      "object_name": "ad-user1-windows",
      "rights": [
        "read",
        "modify",
        "delete",
        "block"
      ]
    },
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "8673932882315575300",
      "object_name": "jools-Linux",
      "rights": [
        "read",
        "modify",
        "delete",
        "block"
      ]
    },
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "8673932882315575301",
      "object_name": "root-fudo",
      "rights": [
        "read",
        "modify",
        "delete",
        "block"
      ]
    }
  ]
}
```

Example 2: Retrieve All Users with Access to Safe <safe_id>

Request

Method	GET
Path	/api/v2/access/safe?filter=object_id.eq(<safe_id>)

Note

<safe_id> – Unique identifier (ID) of the safe.

GET /api/v2/access/safe?filter=object_id.eq(<safe_id>)

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.117.68/api/v2/access/safe?filter=object_id.
  ↪eq(8673932882315575297)'
```

Response

```
{
  "result": "success",
  "safe_access": [
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "2",
      "object_name": "portal",
      "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",
        "user-add",
        "user-remove"
      ]
    },
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "8673932882315575297",
      "object_name": "main",
      "rights": [
        "read",
        "modify",
        "delete",
        "block",
        "account-add",
        "account-remove",
        "group-add",
        "group-remove",
        "user-add",
```

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```

        "user-remove"
      ]
    }
  ]
}

```

Example 3: Retrieve Users Who Can Delete Server <server_id>

Request

Method	GET
Path	/api/v2/access/server?filter=object_id.eq(<server_id>), rights.contains(delete)

Note

<server_id> – Unique identifier (ID) of the server.

GET /api/v2/access/server?filter=object_id.eq(<server_id>),rights.contains(delete)

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.117.68/api/v2/access/server?filter=object_id.
↪eq(8673932882315575301),rights.contains(delete)'

```

Response

```

{
  "result": "success",
  "server_access": [
    {
      "subject_id": "1",
      "subject_name": "system",
      "object_id": "8673932882315575301",
      "object_name": "fudo",
      "rights": [
        "read",
        "modify",
        "delete",
        "block"
      ]
    },
    {
      "subject_id": "8673932882315575297",
      "subject_name": "admin",
      "object_id": "8673932882315575301",

```

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```

        "object_name": "fudo",
        "rights": [
            "read",
            "modify",
            "delete",
            "block"
        ]
    }
]
}

```

1.4.11 Role-Based Capabilities

Data Structures

Table 13: `RoleCapabilityModels` :header: “Attribute”,
“Type”, “Required”, “Description” :widths: 2, 8, 6, 13

<code>id</code>	string		Read-only. Protected.
<code>subject_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>subject_id</code> with attribute <code>object_id</code> .
<code>object_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>object_id</code> with attribute <code>subject_id</code> .
<code>rights</code>	string-array; Default value <code>[read]</code>	yes	Expensive to use.
<code>object_name</code>	string		Read-only; expensive to use.
<code>subject_name</code>	string		Read-only; expensive to use.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.
<code>builtin</code>	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
<code>hidden</code>	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

Retrieve Available Attributes of the *RoleCapabilityModels*

Request

Method	GET
Paths	• /api/v2/objspec/role_account_capability • /api/v2/objspec/role_collection_capability • /api/v2/objspec/role_group_capability • /api/v2/objspec/role_pool_capability • /api/v2/objspec/role_safe_capability • /api/v2/objspec/role_server_capability • /api/v2/objspec/role_user_capability

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Role-Based Capabilities for Objects

Request

Method	GET
Paths	• /api/v2/capability/role/account • /api/v2/capability/role/collection • /api/v2/capability/role/group • /api/v2/capability/role/pool • /api/v2/capability/role/safe • /api/v2/capability/role/server • /api/v2/capability/role/use

Example Request

GET /api/v2/capability/role/account

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/capability/role/account'
```

Response

```
{
  "result": "success",
  "role_account_capability": [
    {
      "subject_id": "9115285645797883906",
      "object_id": "9115285645797883907",
      "rights": [
        "read"
      ]
    }
  ]
}
```

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```

    ],
    "object_name": "ad-user1-windows",
    "subject_name": "admin",
    "created_at": "2025-04-30 02:08:09.033964-07",
    "modified_at": "2025-04-30 02:08:09.033964-07"
  },
  {
    "subject_id": "9115285645797883906",
    "object_id": "9115285645797883908",
    "rights": [
      "read"
    ],
    "object_name": "jools-Linux",
    "subject_name": "admin",
    "created_at": "2025-04-30 02:12:19.542946-07",
    "modified_at": "2025-04-30 02:12:19.542946-07"
  }
]
}

```

Assign Role-Based Capabilities for Objects

Request

Method	POST
Paths	• /api/v2/capability/role/account • /api/v2/capability/role/group • /api/v2/capability/role/pool • /api/v2/capability/role/safe • /api/v2/capability/role/server • /api/v2/capability/role/user
Headers	Content-Type: Application/json
Body	RoleCapabilityModels

Example Request

POST /api/v2/capability/role/user

```

curl -s -k -X POST \
  -H 'Authorization:sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.31.135.179/api/v2/capability/role/user' \
  -d '{"subject_id":9115285645797883906,"object_id":9115285645797883906}'

```

Response

```

{
  "result": "success"
}

```

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}

Get Rights Assigned to a Role (Subject) for an Object by Their IDs

Request

Method	GET
Paths	• /api/v2/capability/role/<subject_id>/account/<object_id> • /api/v2/capability/role/<subject_id>/collection/<object_id> • /api/v2/capability/role/<subject_id>/group/<object_id> • /api/v2/capability/role/<subject_id>/pool/<object_id> • /api/v2/capability/role/<subject_id>/safe/<object_id> • /api/v2/capability/role/<subject_id>/server/<object_id> • /api/v2/capability/role/<subject_id>/user/<object_id>

Example Request

GET /api/v2/capability/role/<subject_id>/user/<object_id>

```
curl -s -k -X GET \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/capability/role/9115285645797883906/user/
↪9115285645797883906'
```

Response

```
{
  "result": "success",
  "role_user_capability": {
    "subject_id": "9115285645797883906",
    "object_id": "9115285645797883906",
    "rights": [
      "read",
      "modify",
      "delete",
      "session-view"
    ],
    "object_name": "User_1",
    "subject_name": "admin",
    "created_at": "2025-04-30 02:39:21.424866-07",
    "modified_at": "2025-04-30 03:47:33.568186-07"
  }
}
```


Modify Rights Assigned to a Role (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/role/<subject_id>/account/<object_id> • /api/v2/capability/role/<subject_id>/collection/<object_id> • /api/v2/capability/role/<subject_id>/group/<object_id> • /api/v2/capability/role/<subject_id>/pool/<object_id> • /api/v2/capability/role/<subject_id>/safe/<object_id> • /api/v2/capability/role/<subject_id>/server/<object_id> • /api/v2/capability/role/<subject_id>/user/<object_id>
Headers	Content-Type: Application/json
Body	RoleCapabilityModels

Example Request

PATCH /api/v2/capability/role/<subject_id>/user/<object_id>

```
curl -s -k -X PATCH \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/capability/role/9115285645797883906/user/
9115285645797883906' \
-d '{"rights":["read","modify","delete","session-view"]}'
```

Note

The **read** right is mandatory and must always be included.

Response

```
{
  "result": "success"
}
```

Grant Specific Rights to a Role (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/role/<subject_id>/account/<object_id>/grant • /api/v2/capability/role/<subject_id>/collection/<object_id>/grant • /api/v2/capability/role/<subject_id>/group/<object_id>/grant • /api/v2/capability/role/<subject_id>/pool/<object_id>/grant • /api/v2/capability/role/<subject_id>/safe/<object_id>/grant • /api/v2/capability/role/<subject_id>/server/<object_id>/grant • /api/v2/capability/role/<subject_id>/user/<object_id>/grant
Headers	Content-Type: Application/json
Body	RoleCapabilityModels

Example Request

PATCH /api/v2/capability/role/<subject_id>/user/<object_id>/grant

```
curl -s -k -X PATCH \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/capability/role/9115285645797883906/user/
↪9115285645797883906/grant' \
-d '{"rights":["modify","delete","session-view"]}'
```

Response

```
{
  "result": "success"
}
```

Revoke Specific Rights to a Role (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/role/<subject_id>/account/<object_id>/revoke • /api/v2/capability/role/<subject_id>/collection/<object_id>/revoke • /api/v2/capability/role/<subject_id>/group/<object_id>/revoke • /api/v2/capability/role/<subject_id>/pool/<object_id>/revoke • /api/v2/capability/role/<subject_id>/safe/<object_id>/revoke • /api/v2/capability/role/<subject_id>/server/<object_id>/revoke • /api/v2/capability/role/<subject_id>/user/<object_id>/revoke
Headers	Content-Type: Application/json
Body	RoleCapabilityModels

Example Request

PATCH /api/v2/capability/role/<subject_id>/user/<object_id>/revoke

```
curl -s -k -X PATCH \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/capability/role/9115285645797883906/user/
↪9115285645797883906/revoke' \
-d '{"rights":["modify","delete","session-view"]}'
```

Response

```
{
  "result": "success"
}
```

Delete Role-Based Capability Assigned to a Role (Subject) for an Object by Their IDs

Request

Method	DELETE
Paths	• /api/v2/capability/role/<subject_id>/account/<object_id> • /api/v2/capability/role/<subject_id>/collection/<object_id> • /api/v2/capability/role/<subject_id>/group/<object_id> • /api/v2/capability/role/<subject_id>/pool/<object_id> • /api/v2/capability/role/<subject_id>/safe/<object_id> • /api/v2/capability/role/<subject_id>/server/<object_id> • /api/v2/capability/role/<subject_id>/user/<object_id>

Example Request

DELETE /api/v2/capability/role/<subject_id>/user/<object_id>

```
curl -s -k -X DELETE \
-H 'Authorization:sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/capability/role/9115285645797883906/user/
↳9115285645797883906'
```

Response

```
{
  "result": "success"
}
```

1.4.12 User-Based Capabilities

Data Structures

Table 14: UserCapabilityModels

Attribute	Type	Required	Description
id	string		Read-only, unique policy identifier. Protected.
subject_id	string	yes	Read-only; Immutable; Uniqueness is required in the combination of attribute <code>subject_id</code> with attribute <code>object_id</code> .
object_id	string	yes	Read-only; Immutable; Uniqueness is required in the combination of attribute <code>object_id</code> with attribute <code>subject_id</code> .
rights	string-array; read-write; default value <code>read</code>	yes	Expensive to use.
object_name	string	yes	Expensive to use.
subject_name	string	yes	Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

Retrieve Available Attributes of the *UserCapabilityModels*

Request

Method	GET
Paths	• /api/v2/objspec/user_account_capability • /api/v2/objspec/user_collection_capability • /api/v2/objspec/user_group_capability • /api/v2/objspec/user_pool_capability • /api/v2/objspec/user_safe_capability • /api/v2/objspec/user_server_capability • /api/v2/objspec/user_user_capability

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get User-Based Capabilities for Objects

Request

Method	GET
Paths	• /api/v2/capability/user/account • /api/v2/capability/user/collection • /api/v2/capability/user/group • /api/v2/capability/user/pool • /api/v2/capability/user/safe • /api/v2/capability/user/server • /api/v2/capability/user/use

Example Request

GET /api/v2/capability/user/account

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/capability/user/account'
```

Response

```
{
  "result": "success",
  "user_account_capability": [
    {
      "subject_id": "9115285645797883905",
      "object_id": "9115285645797883907",
      "rights": [
        "read",
```

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```

        "modify",
        "delete",
        "block"
    ],
    "object_name": "ad-user1-windows",
    "subject_name": "admin",
    "created_at": "2025-04-25 01:40:45.013273-07",
    "modified_at": "2025-04-25 01:40:45.013273-07"
},
{
    "subject_id": "9115285645797883905",
    "object_id": "9115285645797883908",
    "rights": [
        "read",
        "modify",
        "delete",
        "block"
    ],
    "object_name": "jools-Linux",
    "subject_name": "admin",
    "created_at": "2025-04-25 01:40:45.965614-07",
    "modified_at": "2025-04-25 01:40:45.965614-07"
}
]
}

```

Add User-Based Capabilities for Objects

Request

Method	POST
Paths	• /api/v2/capability/user/account • /api/v2/capability/user/collection • /api/v2/capability/user/group • /api/v2/capability/user/pool • /api/v2/capability/user/safe • /api/v2/capability/user/server • /api/v2/capability/user/user
Headers	Content-Type: Application/json
Body	UserCapabilityModels

Example Request

POST /api/v2/capability/user/account

```
curl -s -k -X POST -H \
  'Authorization:<token>' \
```

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```
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/capability/user/account' \
-d '{"subject_id":9115285645797883906,"object_id":9115285645797883907}'
```

Response

```
{
  "result": "success"
}
```

Get Rights Assigned to a User (Subject) for an Object by Their IDs

Request

Method	GET
Paths	• /api/v2/capability/user/<subject_id>/account/<object_id> • /api/v2/capability/user/<subject_id>/collection/<object_id> • /api/v2/capability/user/<subject_id>/group/<object_id> • /api/v2/capability/user/<subject_id>/pool/<object_id> • /api/v2/capability/user/<subject_id>/safe/<object_id> • /api/v2/capability/user/<subject_id>/server/<object_id> • /api/v2/capability/user/<subject_id>/user/<object_id>

Example Request

GET /api/v2/capability/user/<subject_id>/account/<object_id>

```
curl -s -k -X GET \
-H 'Authorization:<token>' \
'https://10.31.135.179/api/v2/capability/user/9115285645797883906/account/
↪9115285645797883907'
```

Response

```
{
  "result": "success",
  "user_account_capability": {
    "subject_id": "9115285645797883906",
    "object_id": "9115285645797883907",
    "rights": [
      "read"
    ],
    "object_name": "ad-user1-windows",
    "subject_name": "User_1",
    "created_at": "2025-04-30 05:50:08.533293-07",
    "modified_at": "2025-04-30 05:50:08.533293-07"
  }
}
```

Modify Rights Assigned to a User (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/user/<subject_id>/account/<object_id> • /api/v2/capability/user/<subject_id>/collection/<object_id> • /api/v2/capability/user/<subject_id>/group/<object_id> • /api/v2/capability/user/<subject_id>/pool/<object_id> • /api/v2/capability/user/<subject_id>/safe/<object_id> • /api/v2/capability/user/<subject_id>/server/<object_id> • /api/v2/capability/user/<subject_id>/user/<object_id>
Headers	Content-Type: Application/json
Body	UserCapabilityModels

Example Request

PATCH /api/v2/capability/user/<subject_id>/account/<object_id>

```
curl -s -k -X PATCH \
  -H 'Authorization:<token>' \
  -H 'Content-Type: application/json' \
  'https://10.31.135.179/api/v2/capability/user/9115285645797883906/account/
  ↪9115285645797883907' \
  -d '{"rights":["read","modify","delete"]}'
```

Note

The **read** right is mandatory and must always be included.

Response

```
{
  "result": "success"
}
```

Grant Specific Rights to a User (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/user/<subject_id>/account/<object_id>/grant • /api/v2/capability/user/<subject_id>/collection/<object_id>/grant • /api/v2/capability/user/<subject_id>/group/<object_id>/grant • /api/v2/capability/user/<subject_id>/pool/<object_id>/grant • /api/v2/capability/user/<subject_id>/safe/<object_id>/grant • /api/v2/capability/user/<subject_id>/server/<object_id>/grant • /api/v2/capability/user/<subject_id>/user/<object_id>/grant
Headers	Content-Type: Application/json
Body	UserCapabilityModels

Example Request

PATCH /api/v2/capability/user/<subject_id>/account/<object_id>/grant

```
curl -s -k -X PATCH \
  -H 'Authorization:<token>' \
  -H 'Content-Type: application/json' \
  'https://10.31.135.179/api/v2/capability/user/9115285645797883906/account/
↪9115285645797883907/grant' \
  -d '{"rights":["modify","delete"]}'
```

Response

```
{
  "result": "success"
}
```

Revoke Specific Rights to a User (Subject) for an Object by Their IDs

Request

Method	PATCH
Paths	• /api/v2/capability/user/<subject_id>/account/<object_id>/revoke • /api/v2/capability/user/<subject_id>/collection/<object_id>/revoke • /api/v2/capability/user/<subject_id>/group/<object_id>/revoke • /api/v2/capability/user/<subject_id>/pool/<object_id>/revoke • /api/v2/capability/user/<subject_id>/safe/<object_id>/revoke • /api/v2/capability/user/<subject_id>/server/<object_id>/revoke • /api/v2/capability/user/<subject_id>/user/<object_id>/revoke
Headers	Content-Type: Application/json
Body	UserCapabilityModels

Example Request

PATCH /api/v2/capability/user/<subject_id>/account/<object_id>/revoke

```
curl -s -k -X PATCH \
  -H 'Authorization:<token>' \
  -H 'Content-Type: application/json' \
  'https://10.31.135.179/api/v2/capability/user/9115285645797883906/account/
↪9115285645797883907/revoke' \
  -d '{"rights":["modify","delete"]}'
```

Response

```
{
  "result": "success"
}
```

Delete User-Based Capability Assigned to a ser (Subject) for an Object by Their IDs

Request

Method	DELETE
Paths	• /api/v2/capability/user/<subject_id>/account/<object_id> • /api/v2/capability/user/<subject_id>/collection/<object_id> • /api/v2/capability/user/<subject_id>/group/<object_id> • /api/v2/capability/user/<subject_id>/pool/<object_id> • /api/v2/capability/user/<subject_id>/safe/<object_id> • /api/v2/capability/user/<subject_id>/server/<object_id> • /api/v2/capability/user/<subject_id>/user/<object_id>

Example Request

DELETE /api/v2/capability/user/<subject_id>/account/<object_id>

```
curl -s -k -X DELETE \
  -H 'Authorization:<token>' \
  'https://10.31.135.179/api/v2/capability/user/9115285645797883906/account/
  ↪9115285645797883907'
```

Response

```
{
  "result": "success"
}
```

1.5 Users

User defines a subject entitled to connect to servers within monitored IT infrastructure. Detailed object definition (i.e. unique login and domain combination, full name, email address etc.) enables precise accountability of user actions when login and password are substituted with a shared account login credentials.

1.5.1 Data Structures: *UserModel*

Table 15: UserModel

Attribute	Type	Required	Description
id	string	yes	Read-only object identifier. Requires read , modify , or delete right on object type user , depending on the HTTP method used (GET , PATCH , or DELETE respectively).
name	string	yes	Unique user's name
blocked	boolean; default value false	yes	
reason	string		
domain	string		User's domain
privileges	string-array		Read-only
full_name	string		User's full name
email	string		User's email address
organization	string		User's organization name
phone	string		User's phone number
ad_domain	string		User's AD domain. Also used as the UPN suffix when the user is identified during an OpenID Connect sign-in.
ldap_base	string		User's LDAP base
language	string; default value en	yes	Interface language
previous_success	datetime		Read-only

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Table 15 – continued from previous page

Attribute	Type	Required	Description
previous_success_location	string		Read-only
last_success	datetime		Read-only
last_success_location	string		Read-only
last_failure	datetime		Read-only
last_failure_location	string		Read-only
failures	number; default value 0	yes	Number of authentication failures
password_complexity	boolean; default value false	yes	Enable password complexity settings
external_sync	boolean; default value false	yes	
scim_managed	boolean; default value false	yes	
fudo_blocked	boolean		Read-only
scim_blocked	boolean		Read-only
external_id	string		Unique external identifier
scim_username	string		Unique SCIM username (case-insensitive)
scim_email_type	string		Type of the email address provisioned over SCIM, for example work .
scim_phone_type	string		Type of the phone number provisioned over SCIM, for example work .
first_name	string		
last_name	string		
valid_since	datetime (h:m:s); default value -infinity	yes	Beginning access time
valid_to	datetime (h:m:s); default value infinity	yes	Ending access time
user_directory_id	string		Id of the user's LDAP server
source_ip	string		
fido2_user_handle	string		Read-only
fudo_network_status	string {disabled, invited, untrusted, trusted}		Read-only. Fudo ShareAccess membership state, derived from the user's fnet authentication method. Value disabled means the user has no such method.
fudo_network_username	string		Read-only. Fudo ShareAccess user name (the X-Signed-By value) taken from the user's fnet authentication method. null when the user has no such method.

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Table 15 – continued from previous page

Attribute	Type	Required	Description
<code>fudo_network_method</code>	string		Read-only. Id of the fnet authentication method carrying the user's Fudo ShareAccess identity. Use it to address the method on the <code>/user/<user_id>/authentication/<id></code> endpoint. null when the user has no such method.
<code>fudo_network_pubkey</code>	string		Read-only; expensive to use. SHA256 fingerprint of the user's Fudo ShareAccess key pair. null when the user has no fnet authentication method or has not uploaded their keys yet.
<code>oidc_subs</code>	object-array		OpenID Connect sub claims. Read-only; expensive to use.
<code>roles</code>	object-array		Read-only; expensive to use.
<code>role_names</code>	string-array		Read-only; hidden; expensive to use.
<code>role_ids</code>	string-array		Read-only; hidden; expensive to use.
<code>safes</code>	object-array		Read-only; expensive to use; JSON object array containing id , name , and position of assigned safes.
<code>safe_ids</code>	string-array		Read-only; hidden; expensive to use
<code>safe_names</code>	string-array		Read-only; hidden; expensive to use
<code>group_ids</code>	string-array		IDs of the groups the user belongs to. Read-only; hidden; expensive to use.
<code>authentication_methods</code>	object-array		Read-only; expensive to use; JSON object array containing id , type , and position of configured authentication methods.
<code>authentication_method_types</code>	string-array		Types of authentication methods used by this user. Read-only; hidden; expensive to use.
<code>external_authentications</code>	string-array		IDs of external authentications used by this user. Read-only; hidden; expensive to use.

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Table 15 – continued from previous page

Attribute	Type	Required	Description
<code>analysis_context</code>	string		AI analysis context. Given to the AI that analyzes this user's sessions. Describe what is normal here so expected activity is not flagged as a risk.
<code>rights</code>	string-array		Read-only; list of rights the subject has to this object.
<code>module_psm_enabled</code>	boolean; default value <code>true</code>	yes	If the user is enabled in the PSM module. Value <code>false</code> disables licence auto-activation.
<code>module_psm_last_active</code>	datetime		Timestamp of the last activity of the user in the PSM module. Last established session or secret checkout via account. Read-only.
<code>module_psm_status</code>	string {active, inactive, disabled}	yes	User activation status in the PSM module. Read-only; expensive to use.
<code>module_vault_enabled</code>	boolean; default value <code>true</code>	yes	If the user is enabled in the Vault module. Value <code>false</code> disables licence auto-activation.
<code>module_vault_last_active</code>	datetime		Timestamp of the last activity of the user in the Vault module. Last secret checkout in password vault. Read-only.
<code>module_vault_status</code>	string {active, inactive, disabled}	yes	User activation status in the Vault module. Read-only; expensive to use.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only
<code>builtin</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
<code>hidden</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

1.5.2 Get Available Attributes of the *UserModel*

Request

Method	GET
Path	/api/v2/objspec/user

1.5.3 Data Structures: *UserSafeAssignmentModel*

Table 16: UserSafeAssignmentModel

Attribute	Type	Required	Description
id	string	yes	Read-only object Identifier.
user_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>safe_id</code> . Requires <code>read</code> right on object type <code>user</code> for GET, POST, PATCH, and DELETE requests.
roles	object-array		Read-only; expensive to use.
role_names	string-array		Read-only; hidden; expensive to use.
role_ids	string-array		Read-only; hidden; expensive to use.
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>safe_id</code> with attribute <code>user_id</code> . Requires <code>read</code> right on object type <code>safe</code> for GET requests, <code>user-add</code> right for POST and PATCH, and <code>user-remove</code> right for DELETE requests.
blocked	boolean; default value <code>false</code>	yes	Access to this safe is disabled for the user.
position	number		
password_visible	boolean; default value <code>false</code>	yes	Allow a user to use Secret Check-out feature and view passwords in the User Access Gateway.
time_policy_checksum	string		Read-only; expensive to use. Checksum computed from time policies used for this user-safe connection.
use_time_policy	boolean; default value <code>false</code>	yes	Enables the daily access policy for this user-safe connection. On a Safe with <code>jit_mode</code> set to <code>time_policy</code> it also decides when an access request is required - see Safes .
valid_since	datetime (h:m:s); default value <code>-infinity</code>	yes	Beginning access time.
valid_to	datetime (h:m:s); default value <code>infinity</code>	yes	Ending access time.
user_name	string		Read-only; expensive to use.
user_domain	string		Read-only; expensive to use.
user_email	string		Read-only; expensive to use.

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Table 16 – continued from previous page

Attribute	Type	Required	Description
user_organizational_unit	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
user_blocked	boolean		Read-only; expensive to use; blocked state of the assigned user.
safe_blocked	boolean		Read-only; expensive to use; blocked state of the assigned safe.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.

1.5.4 Retrieve Available Attributes of the *UserSafeAssignmentModel*

Request

Method	GET
Path	/api/v2/objspec/user_safe

1.5.5 Data Structures: *UserSafeTimePolicyAssignmentModel*

Table 17: UserSafeTimePolicyAssignmentModel

Attribute	Type	Required	Description
id	string	yes	Read-only object Identifier.
user_safe_id	string		Read-only object Identifier.
user_id	string	yes	Immutable. Requires read right on object type user for GET requests, and modify right for POST , PATCH , and DELETE requests.
safe_id	string	yes	Immutable. Requires read right on object type safe for GET , POST , and PATCH requests.
user_name	string		Read-only; expensive to use.
user_role	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
day_of_week	number	yes	Value range from 1 to 7.
valid_from	datetime (h:m:s)	yes	Beginning access time.
valid_to	datetime (h:m:s)	yes	Ending access time.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

1.5.6 Retrieve Available Attributes of the *UserSafeTimePolicy - Assignment-Model*

Request

Method	GET
Path	/api/v2/objspec/user_safe_time_policy

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the User objects.

1.5.7 Create a User

Request

Method	POST
Path	/api/v2/user
Headers	Content-Type: Application/json
Body	UserModel

Example Request

POST /api/v2/user

```
{
  "role": "user",
  "name": "test-user",
  "language": "en"
}
```

Response

```
{
  "result": "success",
  "user": {
    "id": "12345678901234567890"
  }
}
```

1.5.8 Get Users List

Request

Method	GET
Path	/api/v2/user

Example Request

GET /api/v2/user

Response

```

{
  "result": "success",
  "user": [
    {
      "id": "1234567891012345",
      "name": "tet",
      "blocked": false,
      "role": "user",
      "full_name": "",
      "email": "",
      "phone": "",
      "ad_domain": "",
      "ldap_base": "",
      "language": "en",
      "failures": 0,
      "password_complexity": false,
      "external_sync": false,
      "valid_since": "-infinity",
      "valid_to": "infinity",
      "created_at": "2022-10-20 02:09:49.818029-07",
      "modified_at": "2022-10-20 02:09:49.818029-07"
    },
    {
      "id": "12345678910123456",
      "name": "admin",
      "blocked": false,
      "role": "superadmin",
      "language": "en",
      "previous_success": "2022-10-25 05:33:19.377878-07",
      "last_success": "2022-10-25 06:03:39.084783-07",
      "last_failure": "2022-10-24 04:19:35.204557-07",
      "failures": -1,
      "password_complexity": false,
      "external_sync": false,
      "valid_since": "-infinity",
      "valid_to": "infinity",
      "created_at": "2022-10-20 02:01:32.093269-07",
      "modified_at": "2022-10-25 06:03:39.085472-07"
    }
  ]
}

```

1.5.9 Get a User

Request

Method	GET
Path	/api/v2/user/<id>

1.5.10 Modify a User

Request

Method	PATCH
Path	/api/v2/user/<id>
Headers	Content-Type: Application/json
Body	UserModel

Example Request: Changing User Login

PATCH /api/v2/user/<id>

```
{
  "name": "new-user"
}
```

Response

```
{ "result": "success" }
```

Example Request: Blocking a User

PATCH /api/v2/user/<id>

```
{"blocked": true,
  "reason": "lost rights"}
```

Response

```
{ "result": "success" }
```

1.5.11 Get User-Safe Assignments List

Request

Method	GET
Path	/api/v2/user/safe

1.5.12 Create a User-Safe Assignment

Request

Method	POST
Path	/api/v2/user/safe
Body	UserSafeAssignment

Example Request

POST /api/v2/user/safe

```
{ "user_id": "1232678819172646915",
  "safe_id": "1232678819172646913" }
```

Response

```
{ "result": "success",
  "user_safe": {} }
```

1.5.13 Get Users' Time Policy Settings Within Safes

Request

Method	GET
Path	/api/v2/user/safe/time_policy

Example Request

GET /api/v2/user/safe/time_policy

Response (User's time policy is declared separately for each day)

```
{
  "result": "success",
  "user_safe_time_policy": [
    {
      "id": "4602678819172646913",
      "safe_id": "4602678819172646913",
      "user_id": "4602678819172646914",
      "day_of_week": 2, <--- A user has access to the safe on Tuesday
      "valid_from": "09:00:00", <--- User's access starts at 9:00
      "valid_to": "14:00:00", <--- and ends at 14:00
      "created_at": "2022-10-26 02:25:19.155648-07",
      "modified_at": "2022-10-26 02:30:40.677788-07"
    },
    {
      "id": "4602678819172646914",
      "safe_id": "4602678819172646913",
      "user_id": "4602678819172646914",
      "day_of_week": 3, <--- A user has access to the safe on Wednesday
      "valid_from": "09:15:00", <--- User's access starts at 9:15
      "valid_to": "14:15:00", <--- and ends at 14:15
      "created_at": "2022-10-26 02:32:11.781045-07",
      "modified_at": "2022-10-26 02:32:11.781045-07"
    }
  ]
}
```

1.5.14 Get Users' Time Policy Settings Within Safes by ID

Request

Method	GET
Path	/api/v2/user/safe/time_policy/<id>

Example Request

GET /api/v2/user/safe/time_policy/<id>

Response (User's time policy is declared separately for each day)

```
{
  "result": "success",
  "user_safe_time_policy": [
    {
      "id": "4602678819172646914",
      "safe_id": "4602678819172646913",
      "user_id": "4602678819172646914",
      "day_of_week": 3, <--- A user has access to the safe on Wednesday
      "valid_from": "09:15:00", <--- User's access starts at 9:15
      "valid_to": "14:15:00", <--- and ends at 14:15
      "created_at": "2022-10-26 02:32:11.781045-07",
      "modified_at": "2022-10-26 02:32:11.781045-07"
    }
  ]
}
```

1.5.15 Modify User's Time Policy Settings Within a Safe

Request

Method	PATCH
Path	/api/v2/user/safe/time_policy/<id>
Body	UserSafeTimePolicyAssignment

Example Request: Changing the day of user's access to Monday

PATCH /api/v2/user/safe/time_policy/<id>

```
{ "day_of_week": 1 }
```

Response

```
{ "result": "success" }
```

1.5.16 Create User's Time Policy Settings Within a Safe

Request

Method	POST
Path	/api/v2/user/safe/time_policy
Body	UserSafeTimePolicyAssignment

Example Request: Creating User's Access to the the Safe for Thursday From 16:00 Till 23:00

POST /api/v2/user/safe/time_policy

```
{ "user_id": "1232678819172646915",
  "safe_id": "1232678819172646913",
  "day_of_week": 4,
  "valid_from": "16:00:00",
  "valid_to": "23:00:00"
}
```

Response

```
{ "result": "success",
  "user_safe_time_policy": {
    "id": "1232678819172646915"  }}
```

1.5.17 Delete User's Time Policy Settings Within a Safe

Request

Method	DELETE
Path	/api/v2/user/safe/time_policy/<id>

1.5.18 Delete User-Safe Assignment

Request

Method	DELETE
Path	/api/v2/user/<user_id>/safe/<safe_id>

1.5.19 Delete User

Request

Method	DELETE
Path	/api/v2/user/<id>

1.6 User Authentication Methods Management

Table 18: UserAuthenticationMethodModel

Attribute	Type	Required	Description
id	string	yes	Read-only Identifier object

continues on next page

Table 18 – continued from previous page

Attribute	Type	Required	Description
type	string {password, oath, extauth, sshkey, certificate, duo, sms, apikey, fido2, fnet}	yes	Immutable. Type fnet carries the user's Fudo ShareAccess identity and cannot be created with a POST request - the method is created by the Fudo ShareAccess invitation flow.
description	string		Optional description of the authentication method.
user_id	string	yes	Immutable. Uniqueness is required in the combination of attribute user_id with attribute position . Requires read right on object type user for GET requests, and modify right for DELETE, PATCH, and POST requests.
user_name	string		Read-only; expensive to use
position	number		Uniqueness is required in the combination of attribute position with attribute user_id .
external_sync	boolean; default value false	yes	
secret	string	if type == duo oath password sms sshkey	Protected
needs_change	boolean; default value false	yes	
external_authentication_id	string	if type == duo extauth oath sms	
apikey_device_id	string	if type == apikey	Read-only; expensive to use
apikey_device_platform	string	if type == apikey	Read-only; expensive to use
apikey_device_pushid	string	if type == apikey	Read-only; expensive to use

continues on next page

Table 18 – continued from previous page

Attribute	Type	Required	Description
apikey_key	string	if type == apikey	Protected
apikey_hint	string	if type == apikey	The first four and the last four plain text characters of the API key if it is at least 32 characters long. Read-only; expensive to use
apikey_expires_at	datetime	if type == apikey	Expiration date and time for the API key. NULL means the key never expires.
certificate_subject	string	if type == certificate	
duo_user_id	string	if type == duo	
duo_username	string	if type == duo	
OATH	OATHAuthentication-MethodAttributes	if type == oath	OATH authentication method properties
sms_token	string	if type == sms	Protected
sshkey_user_presence_required	boolean; default value true	if type == sshkey	
sshkey_verification_required	boolean; default value false	if type == sshkey	
sshkey_counter	number	if type == sshkey	
sshkey_publickey	string	if type == sshkey	User's SSH public key. Read-only; expensive to use
fido2_credential_id	string	if type == fido2	Unique identifier for the registered FIDO2 credential (base64url-encoded). Read-only
fido2_public_key	string	if type == fido2	COSE-format public key used to verify authentication signatures (base64url-encoded). Read-only
fido2_counter	number	if type == fido2	Signature counter for clone detection; must increase on each authentication. Read-only

continues on next page

Table 18 – continued from previous page

Attribute	Type	Required	Description
<code>fido2_aaguid</code>	string	if type == <code>fido2</code>	Authenticator Attestation GUID identifying the authenticator make/model. Read-only
<code>fido2_transports</code>	string	if type == <code>fido2</code>	Supported transports: usb, nfc, ble, internal, hybrid, smart-card. Read-only
<code>fn_username</code>	string	if type == <code>fnet</code>	Fudo ShareAccess user name (the X-Signed-By value). Required for type <code>fnet</code> . Unique, case-insensitive.
<code>fn_pubkey_ec</code>	string	if type == <code>fnet</code>	EC P-521 public key (PEM), submitted by the user when accepting the Fudo ShareAccess invitation. Read-only
<code>fn_pubkey_rsa</code>	string	if type == <code>fnet</code>	RSA public key (PEM), submitted by the user when accepting the Fudo ShareAccess invitation. Read-only
<code>fn_pubkey_trusted_by</code>	string	if type == <code>fnet</code>	Id of the administrator who attested the keys. Set it to grant trust, set it to <code>null</code> to revoke trust. The value must be equal to the id of the user making the request.
<code>fn_pubkey_trusted_at</code>	datetime	if type == <code>fnet</code>	Time when the trust was attested. Read-only
<code>fn_invite_code</code>	string	if type == <code>fnet</code>	One-time Fudo ShareAccess invitation code. Read-only
<code>fn_invite_code_expire</code>	datetime	if type == <code>fnet</code>	Expiration date and time of the invitation code. Read-only
<code>fn_invited_by</code>	string	if type == <code>fnet</code>	Id of the administrator who issued the invitation. Read-only

continues on next page

Table 18 – continued from previous page

Attribute	Type	Required	Description
fn_pubkey_fingerprint	string	if type == fnet	SHA256 fingerprint of the (EC, RSA) key pair. null until the user uploads their keys. Read-only; expensive to use
created_at	datetime		Read-only
modified_at	datetime		Read-only
removed	boolean		Read-only

Table 19: OATHAuthenticationMethodAttributes

Attribute	Type	Required	Description
oath_type	string {HOTP, TOTP}	yes	Immutable.
oath_initialize	boolean; default value false	yes	
oath_secret	string		Protected. Value format: ^[A-Z2-7]+\$
oath_tokenlen	number	yes	Immutable; value range: [4, 16].
oath_timestep	number {30, 45, 60, 90, 120, 180, 300}	If oath_type == TOTP	Immutable
oath_counter	number; default value 0	yes	Read-only.
oath_timeshift	number; default value 0	If oath_type == TOTP	Read-only.
oath_reuse	boolean; default value false	If oath_type == TOTP	Allow reuse of TOTP tokens within the same time window.
oath_url	string		Read-only; protected
oath_qrcode	string		Read-only; protected

1.6.1 Retrieve Available Attributes of the *UserAuthentication - MethodModel*

Request

Method	GET
Path	/api/v2/objspec/user_authentication_method

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the User objects.

1.6.2 Listing User Authentication Configurations

Request

Method	GET
Path	/api/v2/user/authentication

Example Request

GET /api/v2/user/authentication`

Response

```
{
  "result": "success",
  "user_authentication_method": [
    {
      "id": "12345612345123",
      "user_id": "12345678901234567890",
      "type": "password",
      "needs_change": false,
      "position": 0,
      "external_sync": false,
      "created_at": "2022-10-25 06:35:12.95741-07",
      "modified_at": "2022-10-25 06:35:12.95741-07",
      "user_name": "test-user"
    },
    {
      "id": "1234561234512357466",
      "user_id": "12345678901234567890",
      "type": "sshkey",
      "needs_change": false,
      "position": 1,
      "external_sync": false,
      "sshkey_user_presence_required": true,
      "sshkey_verification_required": false,
      "sshkey_counter": 0,
      "created_at": "2022-10-25 06:37:54.913056-07",
      "modified_at": "2022-10-25 06:37:54.913056-07",
      "user_name": "test-user"
    }
  ]
}
```

1.6.3 Listing Authentication Configurations for User

Request

Method	GET
Path	/api/v2/user/<user_id>/authentication

Example Request

GET /api/v2/user/<id>/authentication`

Response

```
{
  "result": "success",
  "user_authentication_method": [
    {
      "id": "12345612345123",
      "user_id": "12345678901234567890",
      "type": "password",
      "needs_change": false,
      "position": 0,
      "external_sync": false,
      "created_at": "2022-10-25 06:35:12.95741-07",
      "modified_at": "2022-10-25 06:35:12.95741-07",
      "user_name": "test-user"
    },
    {
      "id": "1234561234512357466",
      "user_id": "12345678901234567890",
      "type": "sshkey",
      "needs_change": false,
      "position": 1,
      "external_sync": false,
      "sshkey_user_presence_required": true,
      "sshkey_verification_required": false,
      "sshkey_counter": 0,
      "created_at": "2022-10-25 06:37:54.913056-07",
      "modified_at": "2022-10-25 06:37:54.913056-07",
      "user_name": "test-user"
    }
  ]
}
```

1.6.4 Retrieve User Authentication Configuration by ID

Request

Method	GET
Path	/api/v2/user/<user_id>/authentication/<id>

Example Request

GET /api/v2/user/<id>/authentication/<id>`

Response

```
{
  "result": "success",
```

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```

"user_authentication_method": [
  {
    "id": "1234561234512357466",
    "user_id": "12345678901234567890",
    "type": "sshkey",
    "needs_change": false,
    "position": 1,
    "external_sync": false,
    "sshkey_user_presence_required": true,
    "sshkey_verification_required": false,
    "sshkey_counter": 0,
    "created_at": "2022-10-25 06:37:54.913056-07",
    "modified_at": "2022-10-25 06:37:54.913056-07",
    "user_name": "test-user"
  }
]
}

```

1.6.5 Create User Authentication Method

Request

Method	POST
Path	/api/v2/user/<user_id>/authentication
Headers	Content-Type: Application/JSON
Body	UserAuthenticationMethodModel

Example Request: Setting User Authentication Method - Static Password

POST /api/v2/user/<id>/authentication`

```

{
  "type": "password",
  "secret": "test-password"
}

```

Response

```

{
  "result": "success",
  "user_authentication_method": {
    "id": "12345612345123"
  }
}

```

Example Request: Setting User Authentication Method - API Key

 Note

When creating *API Key* authentication method, you can:

- set `apikey_key=null` or skip this attribute in the request - API will generate an `apikey_key` and return it in the response.
- set `apikey_key=<plaintext>` - API will save provided plaintext without returning it in the response.
- set `apikey_key=sha512:<hash-base64-encoding>` - API will save provided hash. Please be informed that the *SHA512* hash should be encoded in *Base64* formatting.

Note

You can use following command to generate an `apikey_key` and its hash. The `apikey_key` will be saved in the `apikey.txt` file, and the hash will be saved in the `apikey.sha512` file.

```
(umask 077 && echo sha512:$(openssl rand 48 | openssl base64 | tee apikey.
↪txt | dd bs=64 count=1 | openssl sha512 -binary | openssl base64 -A) >↪
↪apikey.sha512)
```

Request:

POST `/api/v2/user/<id>/authentication``

```
{
  "type": "apikey"
}
```

Response:

```
{
  "result": "success",
  "user_authentication_method": {
    "id": "8511803295730237450",
    "apikey_key":
↪"Ah08ibgN98TAUsa8f7o3MDsJXnliodphdtSz5xzTsnVI4DLv0dfUn6s3BEubse70"
  }
}
```

Request:

POST `/api/v2/user/<id>/authentication``

```
{
  "type": "apikey",
  "position": 1,
  "apikey_key": "sha512:rPXbZAJ5q/
↪4GcHTC7Z0x8a568eVqrXuhzmmPjqHPMGovdbCaczEI7WxLw8oyAzKkUV2qWlr9n9g+70K4p12xKw==
↪"
}
```

Response:

```
{
  "result": "success",
  "user_authentication_method": {
    "id": "8511803295730237478"
  }
}
```

Note

The `apikey_key` plain text is available only during authentication method creation process. Please remember to copy and archive it if needed.

1.6.6 Modify User Authentication Method

Request

Method	PATCH
Path	/api/v2/user/<user_id>/authentication/<id>
Headers	Content-Type: Application/JSON
Body	UserAuthenticationMethodModel

Example Request

Request

PATCH /api/v2/user/<id>/authentication/<id>`

```
{
  "position": 1
}
```

Response

```
{
  "result": "success"
}
```

1.6.7 Deleting User Authentication Method

Request

Method	DELETE
Path	/api/v2/user/<user_id>/authentication/<id>

DELETE /api/v2/user/<id>/authentication/<id>`

Response

```
{
  "result": "success"
}
```

1.7 Location Policies NEW

A location policy decides whether a user may connect from a given place. The policy holds a list of entries - countries or networks - and a mode saying whether those locations are the only ones allowed or the ones blocked. Policies are applied to users through groups.

A built-in `Default` policy applies to every user. Policies bound to groups apply on top of it, so a user's effective set is the built-in policy plus one policy for each of their groups that has one.

1.7.1 Data Structures

Table 20: `LocationPolicyModel`

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Location policy identifier. Uniqueness is required.
<code>name</code>	string	yes	Location policy name. Case-insensitive. Uniqueness is required.
<code>mode</code>	string { <code>allow_from</code> , <code>block_from</code> }; default value <code>block_from</code>		<code>allow_from</code> - connections are accepted only from the listed locations. <code>block_from</code> - connections from the listed locations are refused. Case-insensitive.
<code>builtin</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
<code>hidden</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

Table 21: LocationPolicyEntryModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
location_policy.	string	yes	Immutable. Owning location policy.
policy_name	string		Read-only; expensive to use. Name of the owning location policy.
country	string		ISO 3166-1 alpha-2 country code, upper-case. Set either country or network ; the attribute that is not set is omitted from the response.
network	string		CIDR network with no host bits set. Set either network or country .
description	string		Free-text entry description.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Table 22: GroupLocationPolicyModel

Attribute	Type	Required	Description
id	string		Read-only; protected.
group_id	string	yes	Immutable. Uniqueness is required in the combination of attribute group_id with attribute location_policy_id . Requires read right on the group object for GET , and modify for POST and DELETE .
location_policy.	string	yes	Immutable. Uniqueness is required in the combination of attribute location_policy_id with attribute group_id .
group_name	string		Read-only; expensive to use.
policy_name	string		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.7.2 Retrieve Available Attributes

Request

Method	GET
Path	/api/v2/objspec/location_policy, /api/v2/objspec/location_policy_entry, /api/v2/objspec/group_location_policy

GET /api/v2/objspec/location_policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/objspec/location_policy'
```

1.7.3 List Location Policies

Request

Method	GET
Path	/api/v2/location_policy

GET /api/v2/location_policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/location_policy'
```

Response

```
{
  "result": "success",
  "location_policy": [
    {
      "id": "1",
      "name": "Default",
      "mode": "block_from",
      "builtin": true,
      "hidden": false,
      "created_at": "2026-08-14 07:29:06.226046-07",
      "modified_at": "2026-08-14 07:29:06.226046-07"
    }
  ]
}
```

1.7.4 Get a Location Policy

Request

Method	GET
Path	/api/v2/location_policy/<id>

GET /api/v2/location_policy/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/location_policy/4638707616191610881'
```

Response

```
{
  "result": "success",
  "location_policy": {
    "id": "4638707616191610881",
    "name": "Corporate networks",
    "mode": "allow_from",
    "builtin": false,
    "hidden": false,
    "created_at": "2026-08-18 02:17:59.338924-07",
    "modified_at": "2026-08-18 02:17:59.338924-07"
  }
}
```

1.7.5 Create a Location Policy

Request

Method	POST
Path	/api/v2/location_policy
Body	LocationPolicyModel

POST /api/v2/location_policy

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"name":"Corporate networks","mode":"allow_from"}' \
  'https://10.33.3.191/api/v2/location_policy'
```

Response

```
{
  "result": "success",
  "location_policy": {
    "id": "4638707616191610881"
  }
}
```

1.7.6 Modify a Location Policy

Request

Method	PATCH
Path	/api/v2/location_policy/<id>
Body	LocationPolicyModel

PATCH /api/v2/location_policy/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{"name": "Corporate networks and Poland"}' \  
  'https://10.33.3.191/api/v2/location_policy/4638707616191610881'
```

Response

```
{  
  "result": "success"  
}
```

1.7.7 Delete a Location Policy

Request

Method	DELETE
Path	/api/v2/location_policy/<id>

DELETE /api/v2/location_policy/<id>

Example Request

```
curl -s -k -X DELETE \  
  -H 'Authorization: <token>' \  
  'https://10.33.3.191/api/v2/location_policy/4638707616191610881'
```

Response

```
{  
  "result": "success"  
}
```

1.7.8 List Location Policy Entries

Request

Method	GET
Path	/api/v2/location_policy/entry

GET /api/v2/location_policy/entry

Example Request

```
curl -s -k -X GET \  
  -H 'Authorization: <token>' \  
  'https://10.33.3.191/api/v2/location_policy/entry'
```

Response

```
{
  "result": "success",
  "location_policy_entry": [
    {
      "id": "4638707616191610881",
      "location_policy_id": "4638707616191610881",
      "policy_name": "Corporate networks",
      "country": "PL",
      "description": "Head office country.",
      "created_at": "2026-08-18 02:17:59.441966-07",
      "modified_at": "2026-08-18 02:17:59.441966-07"
    },
    {
      "id": "4638707616191610882",
      "location_policy_id": "4638707616191610881",
      "policy_name": "Corporate networks",
      "network": "10.33.0.0/16",
      "description": "Corporate LAN.",
      "created_at": "2026-08-18 02:17:59.514519-07",
      "modified_at": "2026-08-18 02:17:59.514519-07"
    }
  ]
}
```

Note

The first entry is a country entry and carries no **network** attribute; the second is a network entry and carries no **country** attribute.

1.7.9 Get a Location Policy Entry

Request

Method	GET
Path	/api/v2/location_policy/entry/<id>

GET /api/v2/location_policy/entry/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/location_policy/entry/4638707616191610882'
```

Response

```
{
  "result": "success",
  "location_policy_entry": {
```

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```

    "id": "4638707616191610882",
    "location_policy_id": "4638707616191610881",
    "policy_name": "Corporate networks and Poland",
    "network": "10.33.0.0/16",
    "description": "Corporate LAN.",
    "created_at": "2026-08-18 02:17:59.514519-07",
    "modified_at": "2026-08-18 02:17:59.514519-07"
  }
}

```

1.7.10 Create a Location Policy Entry

Request

Method	POST
Path	/api/v2/location_policy/entry
Body	LocationPolicyEntryModel

POST /api/v2/location_policy/entry

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"location_policy_id":"4638707616191610881","network":"10.33.0.0/16",
  ↪ "description":"Corporate LAN."}' \
  'https://10.33.3.191/api/v2/location_policy/entry'

```

Response

```

{
  "result": "success",
  "location_policy_entry": {
    "id": "4638707616191610882"
  }
}

```

1.7.11 Modify a Location Policy Entry

Request

Method	PATCH
Path	/api/v2/location_policy/entry/<id>
Body	LocationPolicyEntryModel

PATCH /api/v2/location_policy/entry/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{"description": "Corporate LAN (data centre)."}' \  
  'https://10.33.3.191/api/v2/location_policy/entry/4638707616191610882'
```

Response

```
{  
  "result": "success"  
}
```

1.7.12 Delete a Location Policy Entry

Request

Method	DELETE
Path	/api/v2/location_policy/entry/<id>

DELETE /api/v2/location_policy/entry/<id>

Example Request

```
curl -s -k -X DELETE \  
  -H 'Authorization: <token>' \  
  'https://10.33.3.191/api/v2/location_policy/entry/4638707616191610882'
```

Response

```
{  
  "result": "success"  
}
```

1.7.13 List Group Assignments

Request

Method	GET
Path	/api/v2/location_policy/group

GET /api/v2/location_policy/group

Example Request

```
curl -s -k -X GET \  
  -H 'Authorization: <token>' \  
  'https://10.33.3.191/api/v2/location_policy/group'
```

Response

```
{
  "result": "success",
  "group_location_policy": [
    {
      "group_id": "4638707616191610881",
      "location_policy_id": "4638707616191610881",
      "group_name": "Remote operators",
      "policy_name": "Corporate networks",
      "created_at": "2026-08-18 02:18:14.718902-07",
      "modified_at": "2026-08-18 02:18:14.718902-07"
    }
  ]
}
```

1.7.14 Get a Group Assignment

Request

Method	GET
Path	/api/v2/location_policy/<location_policy_id>/group/<group_id>

GET /api/v2/location_policy/<location_policy_id>/group/<group_id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/location_policy/4638707616191610881/group/
↳4638707616191610881'
```

Response

```
{
  "result": "success",
  "group_location_policy": {
    "group_id": "4638707616191610881",
    "location_policy_id": "4638707616191610881",
    "group_name": "Remote operators",
    "policy_name": "Corporate networks",
    "created_at": "2026-08-18 02:18:14.718902-07",
    "modified_at": "2026-08-18 02:18:14.718902-07"
  }
}
```

1.7.15 Assign a Location Policy to a Group

Request

Method	POST
Path	/api/v2/location_policy/group
Body	GroupLocationPolicyModel

POST /api/v2/location_policy/group

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"group_id":"4638707616191610881","location_policy_id":
↪"4638707616191610881"}' \
  'https://10.33.3.191/api/v2/location_policy/group'
```

Response

```
{
  "result": "success"
}
```

1.7.16 Remove a Location Policy from a Group

Request

Method	DELETE
Path	/api/v2/location_policy/<location_policy_id>/group/<group_id>

DELETE /api/v2/location_policy/<location_policy_id>/group/<group_id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/location_policy/4638707616191610881/group/
↪4638707616191610881'
```

Response

```
{
  "result": "success"
}
```

1.7.17 Get the Policies Effective for a User

Request

Method	GET
Path	/api/v2/user/<user_id>/effective_location_policy

GET /api/v2/user/<user_id>/effective_location_policy

Returns every location policy that applies to the user: the built-in policy, which applies to everyone and reports an empty **groups** array, plus one entry for each of the user's groups that has a policy assigned, with the groups that brought it in.

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/user/4638707616191610882/effective_location_policy
↪ '
```

Response

```
{
  "effective_location_policy": [
    {
      "id": "1",
      "name": "Default",
      "mode": "block_from",
      "builtin": true,
      "groups": []
    },
    {
      "id": "4638707616191610881",
      "name": "Corporate networks",
      "mode": "allow_from",
      "builtin": false,
      "groups": [
        {
          "id": "4638707616191610881",
          "name": "Remote operators"
        }
      ]
    }
  ],
  "result": "success"
}
```

1.8 User Devices

1.8.1 Data Structures

Table 23: UserDeviceModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier. Protected.
user_authentic	string		Read-only. Unique identifier of the associated authentication method.
platform	string	yes	Mobile device platform. It cannot be changed once it has been initialized. Available values: android , ios .
pushid	string	yes	A mobile device identifier necessary to address the device we want to send a push notification. Protected.
user_id	string	yes	Immutable. Unique per device. Requires read right on the user object for PATCH requests.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.8.2 Retrieve Available Attributes of the *UserDeviceModel*

Request

Method	GET
Path	/api/v2/objspec/user_device

GET /api/v2/objspec/user_device

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/user_device'
```

1.8.3 Update Mobile Device for Authentication Method

Request

Method	PATCH
Path	/api/v2/user/<user_id>/authentication/<user_authentication_method_id>/device
Headers	Content-Type: Application/json
Body	UserDeviceModel

PATCH /api/v2/user/<user_id>/authentication/<user_authentication_method_id>/device

Example Request

```
curl -s -k -X PATCH \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/user/9115285645797883905/authentication/
  ↪9115285645797883999/device' \
  -d '{"pushid": "cihaz-uuid-1234abcd"}'
```

Response

```
{
  "result": "success"
}
```

1.9 User Mobile Access (Fudo Officer)

1.9.1 Get the User Mobile Access Status

This endpoint returns information about the availability of mobile access for the specified user.

Note

If the **Call Home** feature is disabled, mobile access is not supported and application binding and unbinding operations are unavailable (`is_supported`, `can_bind`, `can_unbind` set to `false`). If the **Call Home** feature is enabled, mobile access is supported and both binding and unbinding operations are available (`true` for all fields).

Request

Method	GET
Path	/api/v2/user/<user_id>/mobile/access
Headers	Content-Type: Application/json

GET /api/v2/user/<user_id>/mobile/access

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/user/1224979098644774913/mobile/access'
```

Response

```
{
  "result": "success",
  "mobile_access": {
    "is_supported": true,
    "can_bind": true,
    "can_unbind": true
  }
}
```

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```
}
}
```

1.9.2 Delete User Mobile Access Binding

This endpoint removes (unbinds) the mobile access binding for the specified user.

Request

Method	DELETE
Path	/api/v2/user/<user_id>/mobile/access
Headers	Content-Type: Application/json

DELETE /api/v2/user/<user_id>/mobile/access

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/user/1224979098644774913/mobile/access'
```

Response

```
{
  "result": "success"
}
```

1.10 User Organization

1.10.1 Data Structures

Table 24: UserOrganizationModel

Attribute	Type	Required	Description
organization	string		Read-only. Unique organization name.

1.10.2 Retrieve Available Attributes of the *UserOrganizationModel*

Request

Method	GET
Path	/api/v2/objspec/user_organization

GET /api/v2/objspec/user_organization

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/objspec/user_organization'
```

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Note

The `user_organization` object provides information about organizations associated with users. This is a read-only object that helps identify organizational affiliations within the system.

1.10.3 List User Organizations

Request

Method	GET
Path	/api/v2/user/organization

GET /api/v2/user/organization

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/user/organization'
```

Response

```
{
  "result": "success",
  "user_organization": [
    {
      "organization": "Engineering"
    },
    {
      "organization": "Security"
    },
    {
      "organization": "Operations"
    }
  ]
}
```

Note

This endpoint returns a list of all organizations that users in the system are associated with. Organizations help categorize and manage user access based on organizational structure.

⚠ Warning

Organization information is managed at the system level and cannot be modified through this API endpoint. Organizations are typically configured during user provisioning or through external authentication systems.

1.11 Accounts

Account defines the privileged account existing on the monitored server. It specifies the actual login credentials, user authentication mode: anonymous (without user authentication), regular (with login credentials substitution) or forward (with login and password forwarding); secret changing policy as well as the secret changer itself.

1.11.1 Data Structures: *AccountModel*

Table 25: AccountModel

Attribute	Type	Required	Description
id	string	yes	Read-only object Identifier. Requires rights to perform operations on the <code>account</code> object: <code>read</code> for GET, <code>modify</code> for PATCH, and <code>delete</code> for DELETE.
name	string	yes	Unique account's name
description	string		Object description
note	string		Read-only; expensive to use
blocked	boolean; default value <code>false</code>	yes	
reason	string	if <code>blocked == true</code>	
type	string {regular, forward, anonymous}	yes	Immutable
category	string {nonprivileged, privileged}		
protocol	string		Protocol of the pool or server which the account is assigned to. Read-only; expensive to use.
server_id	string	yes	
server_name	string		Read-only; expensive to use
server_address	string		Read-only; expensive to use
server_mask	number		Read-only; expensive to use

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Table 25 – continued from previous page

Attribute	Type	Required	Description
server_port_first	number		Read-only; expensive to use
server_port_last	number		Read-only; expensive to use
server_port	number		Read-only; expensive to use
pool_id	string	yes	
pool_name	string		Read-only; expensive to use
hotseat	boolean; default value <code>false</code>	if <code>type == regular</code>	Enable to be informed about existing connections via the User Access Gateway. Available for the server with <code>protocol == rdp</code>
method	string {account, passvn, password, sshkey, vault}	if <code>type == regular</code> <code>forward</code>	Authentication method
domain	string	if <code>type == regular</code> <code>forward</code>	
login	string; may be empty	if <code>type == regular</code>	
secret	string; may be empty	if <code>method == password</code> <code>sshkey</code>	
secret_passphrase	string	with <code>sshkey</code>	Passphrase to use to decrypt SSH private key.
ssh_public_key	string		SSH public key. Read-only; expensive to use.
ssh_fingerprint_sha256	string		SSH key SHA256 fingerprint. Read-only; expensive to use.
forward_domain	boolean; default value <code>false</code>	if <code>type == forward</code>	
servauth	boolean; default value <code>false</code>	if <code>type == forward</code>	Authentication against server
account_id	string	if <code>method == account</code>	
passvn_id	string	if <code>method == passvn</code>	
passvn_name	string		Read-only; expensive to use

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Table 25 – continued from previous page

Attribute	Type	Required	Description
dump_mode	string {all, none, raw, noraw}; default value noraw	yes	Session recording options. Deprecated for protocols that support the FBS format: starting with version 6.3 such sessions are no longer recorded in RAW, so all and raw stop producing a RAW dump. Database protocols (Oracle, PostgreSQL, MySQL, MSSQL) are recorded in RAW only and are not affected.
retention_locked	boolean; default value false	yes	
retention_remove	number		Value range from 1 to 2147483647.
retention_external	number		Value range from 1 to 2147483647.
timestamp_enabled	boolean; default value false	yes	
ocr_enabled	boolean; default value false	yes	
ocr_lang	string {eng, pol, deu, hun, nor, rus, ukr}; if more than 1, separated by the + symbol	if ocr_enabled == true	
ssh_agent	boolean; default value false	yes	
rdp_remote_apps_only	boolean; default value false	yes	Restrict access to the account exclusively through remote applications.
password_lastupdate	datetime		Read-only
password_lastcheck	datetime		Read-only
password_change_policy_id	string	if type == regular	Password change policy identifier.
password_change_policy_name	string		Password change policy name. Read-only; expensive to use.
password_checkout_time_limit	datetime (h:m:s)	if password_change_on_checkin == true	

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Table 25 – continued from previous page

Attribute	Type	Required	Description
password_change_on_checkin	boolean		If set, password will be changed after last password checkin.
password_change_on_session_end	boolean		If set, password will be changed after session finishes.
password_change_trigger_pending	boolean		Waiting for password change after triggered. Read-only; expensive to use.
password_change_trigger_available	boolean		Can manually trigger password change request? Read-only; expensive to use.
password_changer_ids	string-array		Read-only; hidden; expensive to use
password_recovery	boolean		If set and password verification detects unknown password, secret changer will try to recover the password to a known value.
last_login	datetime		Read-only; expensive to use
safes	object-array		JSON object array containing id , name , and position of assigned safes. Read-only; expensive to use.
safe_ids	string-array		Read-only; hidden; expensive to use
safe_names	string-array		Read-only; hidden; expensive to use
servers	object-array		Read-only; expensive to use; JSON object array containing id , mask , name , port and address of assigned servers.
server_ids	string-array		Read-only; hidden; expensive to use
server_names	string-array		Read-only; hidden; expensive to use

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Table 25 – continued from previous page

Attribute	Type	Required	Description
state	string {created, discovered, onboarded, quarantined}		Account's discovery state: discovered, onboarded, quarantined, or created (for manually created accounts). Read-only. Expensive to use.
discovered_at	datetime		Account discovered at timestamp. Read-only; expensive to use.
onboarded_at	datetime		Account onboarded at timestamp. Read-only; expensive to use.
onboarded_by_id	string		User identifier who onboarded this account. Read-only; expensive to use.
onboarded_by_name	string		User name who onboarded this account. Read-only; expensive to use.
quarantined_at	datetime		Account quarantined at timestamp. Read-only; expensive to use.
quarantined_by_id	string		User identifier who quarantined this account. Read-only; expensive to use.
quarantined_by_name	string		User name who quarantined this account. Read-only; expensive to use.
quarantine_reason	string		Quarantine reason. Read-only; expensive to use.
scanner_id	string		Scanner identifier. Read-only; expensive to use.
scanner_name	string		Scanner name. Read-only; expensive to use.

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Table 25 – continued from previous page

Attribute	Type	Required	Description
<code>secret_exposed</code>	boolean		Determines if there is a user who checked out the current password and now has lost access to the account, e.g. the user is now blocked, deleted, or there is no longer a safe containing both the user and the account, and gives the user secret check out rights. Read-only; expensive to use.
<code>secret_id</code>	string	if method == vault	Password vault secret id.
<code>collection_id</code>	string		Password vault collection id. Read-only; hidden; expensive to use.
<code>secret_name</code>	string		Password vault secret name. Read-only; hidden; expensive to use.
<code>secret_login</code>	string		Password vault secret login. Read-only; hidden; expensive to use.
<code>secret_domain</code>	string		Password vault secret domain. Read-only; hidden; expensive to use.
<code>use_domain_from_secret</code>	boolean; default value <code>false</code>	if method == vault	Use the domain from the linked vault secret for session authentication.
<code>use_login_from_secret</code>	boolean; default value <code>false</code>	if method == vault	Use the login from the linked vault secret for session authentication.
<code>analysis_context</code>	string		AI analysis context. Given to the AI that analyzes sessions using this account. Describe what is normal here so expected activity is not flagged as a risk.
<code>rights</code>	string-array		Read-only; list of rights the subject has to this object.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.

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Table 25 – continued from previous page

Attribute	Type	Required	Description
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.

1.11.2 Retrieve Available Attributes of the *AccountModel*

Request

Method	GET
Path	/api/v2/objspec/account

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Account objects.

1.11.3 Create an Account

Request

Method	POST
Path	/api/v2/account
Headers	Content-Type: Application/json
Body	AccountModel

Example Request

POST /api/v2/account

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/account' \
-d '{
  "name": "test-account",
  "type": "regular",
  "server_id": "1234567890",
  "method": "password",
  "login": "test-account-login",
  "domain": "my-domain"
}'
```

Response

```
{
  "result": "success",
  "account": {
    "id": "1234567890123456"
  }
}
```

1.11.4 Get Accounts List

Request

Method	GET
Path	/api/v2/account

1.11.5 Get an Account

Request

Method	GET
Path	/api/v2/account/<id>

1.11.6 Modify an Account

Request

Method	PATCH
Path	/api/v2/account/<id>
Headers	Content-Type: Application/json
Body	AccountModel

Example Request: Enable OCR With German, English and Polish Languages for an Account

PATCH /api/v2/account/<id>

```
{ "ocr_enabled": true,
  "ocr_lang": "deu+eng+pol"}
```

Response

```
{
  "result": "success"
}
```

1.11.7 Adding a Secret Changer Policy to Account

Secret Change Policy can't be created via API, but can be assigned to a particular Account. It requires a secret changer or/and Secret verifier assigned according to it's enabled options.

By default there is an existing secret policy named *Static, without restrictions* with `id = 1`, which has no password change or verification functions assigned.

Request

Method	PATCH
Path	/api/v2/account/<id>
Headers	Content-Type: Application/json
Body	AccountModel

Example Request

PATCH /api/v2/account/<id>

```
{
  "domain":null,
  "password_change_policy_id":"2345678901234567"
}
```

Response

```
{
  "result": "success"
}
```

1.11.8 Modify Password Change Parameters for Account

Request

Method	PATCH
Path	/api/v2/account/<id>
Headers	Content-Type: Application/json
Body	AccountModel

Example Request

PATCH /api/v2/account/<id>

```
{
  "domain":null,
  "password_change_policy_id":"2345678901234567989",
  "password_checkout_time_limit":"06:59:00",
  "password_change_on_session_end":true,
  "password_change_on_checkin":true,
  "password_recovery":true
}
```

Response

```
{
  "result": "success"
}
```

1.11.9 Delete an Account

Request

Method	DELETE
Path	/api/v2/account/<id>

1.11.10 Managing Security Alerts

Request

Method	POST
Path	/api/v2/account/<account_id>/mark_sessions_as_safe

1.12 Account-Safe-Listener Assignment

Account defines the privileged account existing on the monitored server. It specifies the actual login credentials, user authentication mode: anonymous (without user authentication), regular (with login credentials substitution) or forward (with login and password forwarding); secret changing policy as well as the secret changer itself.

1.12.1 Data Structures: *AccountSafeListenerAssignmentModel*

Table 26: AccountSafeListenerAssignmentModel

Attribute	Type	Required	Description
id	string		Read-only; protected. Unique identifier.
account_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>account_id</code> with attributes <code>safe_id</code> and <code>listener_id</code> . Requires <code>read</code> right on the <code>account</code> object for GET, POST, PATCH and DELETE operations.
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>safe_id</code> with attributes <code>account_id</code> and <code>listener_id</code> . Requires <code>read</code> right on the <code>safe</code> object for GET, <code>account-add</code> right for POST and PATCH, and <code>account-remove</code> for DELETE.
listener_id	string	yes	Uniqueness is required in the combination of attribute <code>listener_id</code> with attributes <code>account_id</code> and <code>safe_id</code> .
account_name	string		Read-only; expensive to use
account_type	string		Read-only; expensive to use
protocol	string		Read-only; expensive to use
server_id	string		Read-only; expensive to use; null if pool is assigned.
server_name	string		Read-only; expensive to use; null if pool is assigned.
pool_id	string		Read-only; expensive to use; null if server is assigned.
pool_name	string		Read-only; expensive to use; null if server is assigned.
safe_name	string		Read-only; expensive to use
listener_name	string		Read-only; expensive to use
account_blocked	boolean		Read-only; expensive to use; <code>blocked</code> state of the assigned account.
safe_blocked	boolean		Read-only; expensive to use; <code>blocked</code> state of the assigned safe.
listener_blocked	boolean		Read-only; expensive to use; <code>blocked</code> state of the assigned listener.
created_at	datetime		Read-only
modified_at	datetime		Read-only
removed	boolean		Read-only
builtin	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
hidden	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

1.12.2 Retrieve Available Attributes of the *AccountSafeListener- Assignment-Model*

Request

Method	GET
Path	/api/v2/objspec/account_safe_listener

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.12.3 Get Account-Safe-Listener Assignment List

Request

Method	GET
Path	/api/v2/account/safe/listener

Example Request

GET /api/v2/account/safe/listener

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/account/safe/listener'
```

Response

```
{
  "result": "success",
  "account_safe_listener": [
    {
      "account_id": "1224979098644774915",
      "safe_id": "1224979098644774913",
      "listener_id": "1224979098644774914",
      "account_name": "ad-user1-windows",
      "account_type": "regular",
      "protocol": "rdp",
      "server_id": "1224979098644774915",
      "server_name": "windows",
      "safe_name": "main",
      "listener_name": "RDP:bastion",
      "created_at": "2025-08-25 05:08:28.879241-07",
      "modified_at": "2025-08-25 05:08:28.879241-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

1.12.4 Get Account-Safe-Listener Assignment by ID's

Request

Method	GET
Path	/api/v2/account/<account_id>/safe/<safe_id>/listener/ <listener_id>

Example Request

GET /api/v2/account/<account_id>/safe/<safe_id>/listener/<listener_id>

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/account/1232678819172646919/safe/
↪1232678819172646913/listener/1232678819172646914'
```

Response

```
{
  "result": "success",
  "account_safe_listener": {
    "account_id": "1232678819172646919",
    "safe_id": "1232678819172646913",
    "listener_id": "1232678819172646914",
    "account_name": "VNC_Admin",
    "account_type": "regular",
    "protocol": "vnc",
    "server_id": "1224979098644774918",
    "server_name": "VNC_Server",
    "safe_name": "VNC",
    "listener_name": "VNC_Listen",
    "created_at": "2025-09-22 03:03:08.656825-07",
    "modified_at": "2025-09-22 03:03:14.808987-07",
    "builtin": false,
    "hidden": false
  }
}
```

1.12.5 Create an Account-Safe-Listener Assignments

Request

Method	POST
Path	/api/v2/account/safe/listener
Headers	Content-Type: Application/json
Body	AccountSafeListenerAssignmentModel

Example Request

POST /api/v2/account/safe/listener

```
{
  "account_id": 1232678819172646919,
  "safe_id": 1232678819172646913,
  "listener_id": 1232678819172646914
}
```

Response

```
{
  "result": "success",
  "account_safe_listener": {}
}
```

1.12.6 Modify an Account-Safe-Listener Assignment

Request

Method	PATCH
Path	/api/v2/account/<account_id>/safe/<safe_id>/listener/ <listener_id>
Headers	Content-Type: Application/json
Body	AccountSafeListenerAssignmentModel

Example Request

PATCH /api/v2/account/<account_id>/safe/<safe_id>/listener/<listener_id>

```
curl -s -k -X PATCH \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/account/1232678819172646919/safe/
↪1232678819172646913/listener/1232678819172646914' \
  -d '{"listener_id":1232678819172646916}'
```

Response

```
{
  "result": "success"
}
```

1.12.7 Delete an Account-Safe-Listener Assignment

Request

Method	DELETE
Path	/api/v2/account/<account_id>/safe/<safe_id>/listener/ <listener_id>

Example Request

DELETE /api/v2/account/<account_id>/safe/<safe_id>/listener/<listener_id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/account/1232678819172646919/safe/
↪1232678819172646913/listener/1232678819172646914'
```

Response

```
{
  "result": "success"
}
```

1.13 Managing Secret Changers and Remote Apps in Accounts

Account Script-related endpoints allow you to manage Secret Changers and Remote Apps within the Accounts configuration.

Note

If you want to learn how to obtain the IDs of Secret Changers and Remote Apps, see the following sections: *Remote Applications*, *Secret Changers*.

1.13.1 Data Structures

Table 27: AccountScriptModel

Attribute	Type	Required	Description
id	string		Read-only. Unique. Account Secret ChangerID.
account_id	string	yes	Immutable. AccountID. Requires rights on the account object: read for GET, modify for POST, PATCH, and DELETE.
password_chan	string		Immutable. Secret ChangerID.
remote_app_id	string		Read-only; expensive to use. Remote applicationID.
password_chan_name	string	yes	Case-insensitive. Read-only; expensive to use. Secret changer name.
password_chan_type	string {change, verify, remoteapp}		Type of secret changer / verifier. Can be assigned only to accounts of type regular , using the password method, and with a defined login . An account can have multiple secret changers, but only one Secret verifier. Read-only.

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Table 27 – continued from previous page

Attribute	Type	Required	Description
password_chan_	string {LDAP, SSH, Telnet, WinRM}	if	Read-only; expensive to use. Transport layer for secret changer.
transport		password_	
		_type	
		==	
		change	
		verify	
remote_app_pa	string	if	Read-only; expensive to use. Binary path for remote app.
		password_	
		_type	
		==	
		remoteapp	
remote_app_	string	if	Read-only; expensive to use. Binary arguments for remote app.
arguments		password_	
		_type	
		==	
		remoteapp	
position	number	if	Execution order of secret changers. Value range from 0 to 2147483647. Uniqueness is required in the combination of attribute <code>position</code> with attribute <code>account_id</code> .
		password_	
		_type	
		==	
		change	
timeout	number		The execution timeout in seconds. Value range from 0 to 2147483647.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.13.2 Retrieve Available Attributes of the *AccountScriptModel*

Request

Method	GET
Path	/api/v2/objspec/account_script

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.13.3 Get Secret Changers and Remote Apps Assigned to Accounts

Request

Method	GET
Path	/api/v2/account_script

GET /api/v2/account_script

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/account_script'
```

Response

```
{
  "account_script": [
    {
      "account_id": "5683542729741565961",
      "created_at": "2025-06-06 01:00:34.800512-07",
      "id": "5683542729741565967",
      "modified_at": "2025-06-06 01:00:34.800512-07",
      "password_changer_id": "5683542729741565961",
      "password_changer_name": "powershell",
      "password_changer_type": "remoteapp",
      "remote_app_id": "5683542729741565961",
      "remote_app_path": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\
→powershell.exe"
    },
    {
      "account_id": "5683542729741565959",
      "created_at": "2025-06-06 00:57:09.61763-07",
      "id": "5683542729741565965",
      "modified_at": "2025-06-06 00:57:09.61763-07",
      "password_changer_id": "5683542729741565963",
      "password_changer_name": "putty-defined-variables",
      "password_changer_type": "remoteapp",
      "remote_app_arguments": "-l %%login%% -pw %%password%% -P %%port%% %
→%host%%",
      "remote_app_id": "5683542729741565963",
      "remote_app_path": "C:\\Windows\\System32\\putty.exe"
    },
    {
      "account_id": "5683542729741565959",
      "created_at": "2025-06-06 00:57:09.628782-07",
      "id": "5683542729741565966",
      "modified_at": "2025-06-06 00:57:09.628782-07",
      "password_changer_id": "5683542729741565964",
      "password_changer_name": "tightvnc",
      "password_changer_type": "remoteapp",
      "remote_app_id": "5683542729741565964",
      "remote_app_path": "C:\\Program Files\\TightVNC\\tvnviewer.exe"
    }
  ],
  "result": "success"
}
```

1.13.4 Get Secret Changer or Remote App Assigned to an Account by Assignment ID

Request

Method	GET
Path	/api/v2/account_script/<id>

GET /api/v2/account_script/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/account_script/5683542729741565967'
```

Response

```
{
  "account_script": {
    "id": "5683542729741565967",
    "account_id": "5683542729741565961",
    "password_changer_id": "5683542729741565961",
    "remote_app_id": "5683542729741565961",
    "password_changer_type": "remoteapp",
    "password_changer_name": "powershell",
    "remote_app_path": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\
    ↪powershell.exe",
    "variables": [ ],
    "created_at": "2025-06-06 01:00:34.800512-07",
    "modified_at": "2025-06-06 01:00:34.800512-07"
  },
  "result": "success"
}
```

1.13.5 Assign Secret Changer or Remote App to an Account

Request

Method	POST
Path	/api/v2/account_script
Headers	Content-Type: Application/json
Body	AccountScriptModel

POST /api/v2/account_script

Example Request

```
curl -s -k -X POST \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
```

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```
https://10.31.96.188/api/v2/account_script \
-d'{"account_id": "5683542729741565961","remote_app_id": "5683542729741565957"}'
```

Response

```
{
  "account_script": {
    "id": "5683542729741565970"
  },
  "result": "success"
}
```

1.13.6 Modify Secret Changer or Remote App Assignment for an Account

Request

Method	PATCH
Path	/api/v2/account_script/<id>
Headers	Content-Type: Application/json
Body	AccountScriptModel

PATCH /api/v2/account_script/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/account_script/5683542729741565969 \
-d'{"account_id": "5683542729741565961","remote_app_id": "5683542729741565957"}'
```

Response

```
{
  "result": "success"
}
```

1.13.7 Delete Secret Changer or Remote App Assignment from an Account

Request

Method	DELETE
Path	/api/v2/account_script/<id>

DELETE /api/v2/account_script/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:<token>' \
https://10.31.96.188/api/v2/account_script/5683542729741565970
```

Response

```
{
  "result": "success"
}
```

1.14 Account Notes

Account notes related endpoints enable managing messages displayed to users in the User Portal (Access Gateway).

1.14.1 Data Structures

Table 33: AccountNoteModel

Attribute	Type	Required	Description
id	string		Read-only; protected. Account note identifier.
account_id	string	yes	Immutable. ID of the account to which the note is assigned. Requires rights to perform operations on the <code>account</code> object: <code>read</code> for GET, <code>modify</code> for POST, PATCH, and DELETE.
note	string	yes	Note.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.14.2 Retrieve Available Attributes of the *AccountNoteModel*

Request

Method	GET
Path	/api/v2/objspec/account_note

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.14.3 Get a Note From Account

Request

Method	GET
Path	/api/v2/account/<account_id>/note

Example Request

GET /api/v2/account/<id>/note

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/account/9124292845052624908/note'
```

Response

```
{
  "note": "Note content.",
  "result": "success"
}
```

1.14.4 Assign Note to an Account

Request

Method	POST
Path	/api/v2/account/<account_id>/note
Headers	Content-Type: Application/json
Body	AccountNoteModel

Example Request

POST /api/v2/account/<id>/note

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/account/9124292845052624908/note' \
-d '{"note": "Note content."}'
```

Response

```
{
  "result": "success"
}
```

1.14.5 Modify a Note

Request

Method	PATCH
Path	/api/v2/account/<account_id>/note
Headers	Content-Type: Application/json
Body	AccountNoteModel

Example Request

PATCH /api/v2/account/<id>/note

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/account/9124292845052624908/note' \  
-d '{"note": "Note modified content."}'
```

Response

```
{  
  "result": "success"  
}
```

1.14.6 Deleting a Note

Request

Method	DELETE
Path	/api/v2/account/<account_id>/note

Example Request

DELETE /api/v2/account/<id>/note

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/account/9124292845052624908/note'
```

Response

```
{  
  "result": "success"  
}
```

1.15 Servers

Server is a definition of the IT infrastructure resource, which can be accessed over one of the specified protocols.

1.15.1 Data Structures

Table 34: ServerModel

Attribute	Type	Required	Description
id	string	yes	Unique, read-only object identifier. Requires <code>read</code> right on object type <code>server</code> for <code>GET</code> requests, <code>modify</code> for <code>PATCH</code> requests, and <code>delete</code> for <code>DELETE</code> requests.
name	string	yes	Unique server's name.
description	string		Object description.
blocked	boolean; default value <code>false</code>	yes	
reason	string	if <code>blocked == true</code>	
bind_ip	string		Required format: IP address or <code>fudo:label:<ip_label_name></code> for labeled IP addresses.
address	string	yes	IP address. Uniqueness is required in the combination of attribute <code>address</code> with attributes <code>mask</code> , <code>port_first</code> and <code>port_last</code>
mask	number {from 0 to 128}		Uniqueness is required in the combination of attribute <code>mask</code> with attributes <code>address</code> , <code>port_first</code> and <code>port_last</code> .
port_first	number		Value-format: port. Uniqueness is required in the combination of attribute <code>port_first</code> with attributes <code>address</code> , <code>mask</code> and <code>port_last</code> .

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Table 34 – continued from previous page

Attribute	Type	Required	Description
port_last	number		Value-format: port. Uniqueness is required in the combination of attribute <code>port_last</code> with attributes <code>address</code> , <code>mask</code> and <code>port_first</code> .
port	number	yes	Value-format: port. Server port number if no port range. Read-write; Expensive to use.
legacy_crypto	boolean; default value false	If <code>protocol == ssh</code> (<code>protocol == http</code> <code>mysql</code> <code>oracle</code> <code>pgsql</code> <code>telnet</code> <code>tn3270</code> <code>tn5250</code> <code>rdp</code> <code>vnc</code> & <code>tls_enabled == true</code>)	Enabling legacy cryptographic protocols and settings.
tunneled	boolean; default value false	yes	
tunnel_key	string	If <code>tunneled == true</code>	SSH public key for tunneled connections. Value-format: <code>ssh-public-key</code> .
protocol	string { <code>http</code> , <code>modbus</code> , <code>mysql</code> , <code>oracle</code> , <code>pgsql</code> , <code>rdp</code> , <code>ssh</code> , <code>tcp</code> , <code>tds</code> , <code>telnet</code> , <code>tn3270</code> , <code>tn5250</code> , <code>vnc</code> }	yes	Immutable; case insensitive.
http	HTTPServerAttributes	If <code>protocol == http</code>	HTTP protocol properties.
mysql	MySQLServerAttributes	If <code>protocol == mysql</code>	MySQL protocol properties.
rdp	RDPServerAttributes	If <code>protocol == rdp</code>	RDP protocol properties.
tls	TLSServerAttributes	If <code>tls_enabled == true</code>	TLS protocol properties.
ssh_public_key	string	If <code>protocol == ssh</code>	SSH public key. Value-format: <code>ssh-public-key</code> .
last_login	datetime		Read-only; Expensive to use.

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Table 34 – continued from previous page

Attribute	Type	Required	Description
<code>pools</code>	object-array		Read-only; Expensive to use; JSON object array containing <code>id</code> and <code>name</code> of assigned pools.
<code>pool_ids</code>	string-array		Read-only; Hidden; Expensive to use.
<code>pool_names</code>	string-array		Read-only; Hidden; Expensive to use.
<code>state</code>	string {created, discovered, onboarded, quarantined}		Discovery state. Read-only; Expensive to use.
<code>discovered_at</code>	datetime		Read-only; Expensive to use. Server discovered at timestamp.
<code>onboarded_at</code>	datetime		Read-only; Expensive to use. Server onboarded at timestamp.
<code>onboarded_by_id</code>	string		Read-only; Expensive to use. User identifier who onboarded this server.
<code>onboarded_by_name</code>	string		Read-only; Expensive to use. User name who onboarded this server.
<code>quarantined_at</code>	datetime		Read-only; Expensive to use. Server quarantined at timestamp.
<code>quarantined_by_id</code>	string		Read-only; Expensive to use. User identifier who quarantined this server.
<code>quarantined_by_name</code>	string		Read-only; Expensive to use. User name who quarantined this server.

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Table 34 – continued from previous page

Attribute	Type	Required	Description
scanner_id	string		Read-only; Expensive to use. Scanner identifier.
scanner_name	string		Read-only; Expensive to use. Scanner name.
analysis_context	string		AI analysis context. Given to the AI that analyzes sessions on this server. Describe what is normal here so expected activity is not flagged as a risk.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.
builtin	boolean		Read-only; Expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; Expensive to use. Shall the object be hidden in UI?

Table 35: HTTPServerAttributes

Attribute	Type	Required	Description
http_host	string	yes	HTTP host header value.
http_timeout	number {seconds}	yes	Period of inactivity, after which the user will have to authenticate again.
http_authentication	boolean; default value false		
http_authentication_method	string {Asana, Azure, Facebook, HPE BladeSystem, HPE iLO, HTTP Authentication, LinkedIn, Salesforce, Twitter}; Default value null	If http_authentication == true	Case insensitive.
http_username_element	string	If http_authentication == true & http_authentication_method == null	Custom login page details.
http_press_enter	boolean; default value false	If http_authentication == true & http_authentication_method == null	The <i>Press the enter key prior to password</i> option.
http_password_element	string	If http_authentication == true & http_authentication_method == null	Custom login page details.
http_signon_realm	string	If http_authentication == true & http_authentication_method == null	Custom login page details.

Table 36: MySQLServerAttributes

Attribute	Type	Required	Description
mysql_tls_required	boolean; default value false	If protocol == mysql & tls_enabled == true	Require TLS for MySQL connections.

Table 37: RDPServerAttributes

Attribute	Type	Required	Description
rdp_hotseat	boolean; default value false	If protocol == rdp	The option to have the users informed that other users are connected to the server, they are trying to connect to.
rdp_nla_enabled	boolean; default value true	If protocol == rdp & tls_enabled == true	
rdp_public_key	string	If protocol == rdp & tls_enabled == false	RDP public key. Value-format: public-key.

Table 38: TLSServerAttributes

Attribute	Type	Required	Description
tls_enabled	boolean; default value true	If protocol == http mysql oracle pgsql telnet tn3270 tn5250 rdp vnc	Enabling the TLS protocol.
tls_ca_certificate	string	If protocol == http mysql oracle pgsql telnet tn3270 tn5250 rdp vnc & tls_enabled == true	TLS CA certificate. Value-format: x509-ca-certificate.
tls_certificate	string	If protocol == http mysql oracle pgsql telnet tn3270 tn5250 rdp vnc & tls_enabled == true	TLS certificate. Value-format: x509-certificate.
tls_verify_hostname	boolean	If tls_enabled == true & tls_ca_certificate is set	Verify that the host name of the server matches the name in the certificate presented by it.

1.15.2 Retrieve Available Attributes of the *ServerModel*

Request

Method	GET
Path	/api/v2/objspec/server

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Server objects.

1.15.3 Create a Server

Request

Method	POST
Path	/api/v2/server
Headers	Content-Type: Application/json
Body	ServerModel

Example Request

POST /api/v2/server

```
{
  "name": "my-1st-rdp-server",
  "protocol": "rdp",
  "address": "10.0.2.0",
  "port": 3389,
  "legacy_crypto": false
}
```

Response

```
{ "result": "success",
  "server": {
    "id": "41234678819172646916" }}
```

1.15.4 Get Servers List

Request

Method	GET
Path	/api/v2/server

1.15.5 Get a Server

Request

Method	GET
Path	/api/v2/server/<id>

Example Request

GET /api/v2/server/<id>

```
{
  "result": "success",
  "server": {
    "id": "4602678819172646916",
    "name": "my-1st-rdp-server",

```

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```

    "blocked": false,
    "address": "10.0.2.0",
    "mask": 32,
    "port": 3389,
    "protocol": "rdp",
    "legacy_crypto": false,
    "rdp_hotseat": false,
    "rdp_nla_enabled": true,
    "tls_enabled": true,
    "tls_use_ca_store": false,
    "created_at": "2022-10-27 01:43:39.688273-07",
    "modified_at": "2022-10-27 01:43:39.688273-07",
    "last_login": "-infinity"
  }}

```

1.15.6 Modify a Server

Request

Method	PATCH
Path	/api/v2/server/<id>
Headers	Content-Type: Application/json
Body	ServerModel

Example Request: Enable Using CA Store for Server Verification

PATCH /api/v2/server/<id>

```
{ "tls_use_ca_store": true }
```

Response

```
{ "result": "success" }
```

1.15.7 Deleting a Server

Request

Method	DELETE
Path	/api/v2/server/<id>

1.16 Pools

Pools serve grouping purposes for the server objects based on the same protocol to be managed within other objects (for example, accounts) as one server.

1.16.1 Data Structures

Table 39: PoolModel

Attribute	Type	Required	Description
id	string	yes	Read-only object identifier. Requires the following rights on object type pool depending on the HTTP method used: GET → read , PATCH → modify , DELETE → delete .
name	string	yes	Unique pool's name
description	string		
servers	object-array		Read-only; expensive to use; JSON object array containing id , mask , name , port and address of assigned servers.
server_ids	string-array		Read-only; hidden; expensive to use
server_names	string-array		Read-only; hidden; expensive to use
protocol	string		Read-only; expensive to use.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only
modified_at	datetime		Read-only
removed	boolean		Read-only
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.

1.16.2 Retrieve Available Attributes of the *PoolModel*

Request

Method	GET
Path	/api/v2/objspec/pool

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Pool objects.

1.16.3 Get Pools List

Request

Method	GET
Path	/api/v2/pool

Example Request

GET /api/v2/pool

Response

```
{
  "result": "success",
  "pool": [
    {
      "id": "1232678819172646913",
      "name": "Linux servers",
      "description": "Example Linux pool",
      "created_at": "2022-10-20 02:01:38.373501-07",
      "modified_at": "2022-10-20 02:01:38.373501-07",
      "servers": [
        "1202678819172646913"
      ]
    },
    {
      "id": "41232678819172646914",
      "name": "Windows servers",
      "description": "Example Windows pool",
      "created_at": "2022-10-20 02:01:38.376251-07",
      "modified_at": "2022-10-20 02:01:38.376251-07",
      "servers": [
        "1202678819172646914"
      ]
    },
    {
      "id": "1232678819172646915",
      "name": "test-pool",
      "created_at": "2022-10-24 06:34:53.510281-07",
      "modified_at": "2022-10-24 06:34:53.510281-07",
      "servers": [
        "1202678819172646913"
      ]
    }
  ]
}
```

1.16.4 Get a Pool

Request

Method	GET
Path	/api/v2/pool/<id>

Example Request

GET /api/v2/pool/<id>

Response

```
{
  "result": "success",
  "pool": {
    "id": "1232678819172646915",
```

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```

"name": "test-pool",
"created_at": "2022-10-24 06:34:53.510281-07",
"modified_at": "2022-10-24 06:34:53.510281-07",
"servers": [
  "1202678819172646913"
]
}
```

1.16.5 Create a Pool

Request

Method	POST
Path	/api/v2/pool
Headers	Content-Type: Application/json
Body	PoolModel

Example Request

POST /api/v2/pool

```
{"name": "my-2nd-pool"}
```

Response

```

{ "result": "success",
  "pool": {
    "id": "1202678819172646916"  }}
```

1.16.6 Modify a Pool

Request

Method	PATCH
Path	/api/v2/pool/<id>
Headers	Content-Type: Application/json
Body	PoolModel

Example Request

PATCH /api/v2/pool/<id>

```
{"name": "my-cool-pool"}
```

Response

```
{ "result": "success" }
```

1.16.7 Deleting a Pool

Request

Method	DELETE
Path	/api/v2/pool/<id>

1.17 Pool-Server Assignment

1.17.1 Data Structures

Table 40: ServerPoolModel

Attribute	Type	Required	Description
id	string	yes	Read-only object identifier. Requires the following rights on object type <code>pool</code> depending on the HTTP method used: <code>GET</code> → <code>read</code> , <code>POST</code> → <code>server-add</code> , <code>DELETE</code> → <code>server-remove</code> .
pool_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>pool_id</code> with attribute <code>server_id</code> .
server_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>server_id</code> with attribute <code>pool_id</code> . Requires the following rights on object type <code>server</code> depending on the HTTP method used: <code>GET</code> , <code>POST</code> , <code>DELETE</code> → <code>read</code> .
pool_name	string		Read-only; Expensive to use.
server_name	string		Read-only; Expensive to use.
server_protocol	string		Read-only; Expensive to use.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

1.17.2 Retrieve Available Attributes of the *ServerPoolModel*

Request

Method	GET
Path	/api/v2/objspec/pool_server

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Pool objects.

1.17.3 Get Pool-Server Assignment List

Request

Method	GET
Path	/api/v2/pool/server

Example Request

GET /api/v2/pool/server

Response

```
{
  "result": "success",
  "pool_server": [
    {
      "pool_id": "1232678819172646913",
      "server_id": "1232678819172646913",
      "created_at": "2022-10-20 02:01:38.374809-07",
      "modified_at": "2022-10-20 02:01:38.374809-07"
    },
    {
      "pool_id": "1232678819172646914",
      "server_id": "1232678819172646914",
      "created_at": "2022-10-20 02:01:38.376536-07",
      "modified_at": "2022-10-20 02:01:38.376536-07"
    },
    {
      "pool_id": "1232678819172646915",
      "server_id": "1232678819172646913",
      "created_at": "2022-10-24 06:51:46.780733-07",
      "modified_at": "2022-10-24 06:51:46.780733-07"
    }
  ]
}
```

1.17.4 Get Pool-Server Assignment List by ID's

Request

Method	GET
Path	/api/v2/pool/<pool_id>/server/<server_id>

Example Request

GET /api/v2/pool/<pool_id>/server/<server_id>

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/pool/1232678819172646915/server/
  ↪1232678819172646913'
```

Response

```
{
  "result": "success",
  "pool_server": [
    {
      "pool_id": "1232678819172646915",
      "server_id": "1232678819172646913",
      "created_at": "2022-10-24 06:51:46.780733-07",
      "modified_at": "2022-10-24 06:51:46.780733-07"
    }
  ]
}
```

1.17.5 Adding a Server to the Pool

Request

Method	POST
Path	/api/v2/pool/server
Headers	Content-Type: Application/json
Body	ServerPoolModel

Example Request

POST /api/v2/pool/server

```
{ "pool_id": "4602678819172646916",
  "server_id": "4602678819172646914" }
```

Response

```
{ "result": "success",
  "pool_server": {} }
```

1.17.6 Deleting a Server From a Pool

Request

Method	DELETE
Path	/api/v2/pool/<pool_id>/server/<server_id>

1.18 Listeners

Listener determines server connection mode (proxy, bastion) as well as its specifics.

1.18.1 Data Structures

Table 41: ListenerModel

Attribute	Type	Required	Description
id	string		Read-only. Listener identifier.
name	string	yes	Listener name. Uniqueness is required.
blocked	boolean; Default value false	yes	
reason	string	if blocked == true	
announcement	string		
ignore_case	boolean; Default value false	if protocol == ssh vnc	
legacy_crypto	boolean; Default value false	if mode == tunnel protocol == ssh (protocol == http mysql oracle pgsql rdp vnc & tls_enabled == true)	Are legacy cryptographic protocols and settings enabled?
protocol	string {http, modbus, mysql, oracle, pgsql, rdp, ssh, tcp, tds, telnet, tn3270, tn5250, vnc}	yes	Immutable. Protocol used.
mode	string {bastion, proxy, tunnel}	yes	Mode of operation.
listen_ip	string; Default value 0.0.0.0	if mode == bastion proxy tunnel	IP address for user connections
listen_port	number {1-60000}	if mode == bastion proxy tunnel	Port number for user connections.
external_address	string	with external_port	Listener address to present in Access Gateway
external_port	number	with external_address	Value-format: port. Listener port to present in Access Gateway.
http_render	boolean; Default value true	if mode == tunnel & protocol == http	Is graphical representation for HTTP(S) sessions enabled?
rdp_config_domain	string		Domain suffix for RDP configuration files. Requires protocol == rdp.
rdp	ListenerRDPAtributes	If protocol == rdp	RDP protocol properties
ssh	ListenerSSHAttributes	If protocol == ssh	SSH protocol properties

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Table 41 – continued from previous page

Attribute	Type	Required	Description
<code>tds</code>	ListenerTDSAttributes	If <code>protocol == tds</code>	TDS protocol properties
<code>tls</code>	ListenerTLSAttributes	If <code>protocol == http mysql oracle pgsql rdp vnc</code>	TLS protocol properties
<code>created_at</code>	datetime		Read-only. Object creation time.
<code>modified_at</code>	datetime		Read-only. Object last modification time.
<code>removed</code>	boolean		Read-only. Is the object removed?
<code>builtin</code>	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
<code>hidden</code>	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

Table 42: ListenerRDPAttributes

Attribute	Type	Required	Description
<code>rdp_legacy</code>	boolean	if <code>mode == tunnel protocol == rdp</code>	Use the legacy RDP implementation instead of the current one.
<code>rdp_nla_enabled</code>	boolean; default value <code>false</code>	if <code>mode == tunnel && protocol == rdp && tls_enabled == true</code>	Enables RDP Network Level Authentication (NLA).
<code>rdp_private_key</code>	string	if <code>mode == tunnel && protocol == rdp && tls_enabled == false</code>	RDP private key. Protected. Format: <code>private-key</code> .
<code>rdp_private_key_p</code>	string	if <code>rdp_private_key</code> is set	Passphrase to decrypt RSA private key. Protected.
<code>rdp_public_key</code>	string		RDP public key. Read-only. Expensive to retrieve. Requires <code>rdp_private_key</code> and either <code>mode == tunnel</code> or <code>protocol == rdp && tls_enabled == false</code> .

Table 43: ListenerSSHAttributes

Attribute	Type	Required	Description
ssh_private_key	string	if mode == tunnel protocol == ssh	SSH private key. Protected. Format: <code>ssh-private-key</code> .
ssh_private_key_p	string	if ssh_private_key is set	Passphrase to decrypt SSH private key. Protected.
ssh_proxyjump	boolean; default value false	if protocol == ssh && mode == proxy bastion	Is SSH ProxyJump function enabled?
ssh_public_key	string		SSH public key. Read-only. Expensive to retrieve. Requires <code>protocol == ssh</code> or <code>mode == tunnel</code> .
ssh_fingerprint_s	string		SHA256 fingerprint of SSH key. Read-only. Expensive to retrieve. Requires <code>protocol == ssh</code> or <code>mode == tunnel</code> .

Table 44: ListenerTDSAttributes

Attribute	Type	Required	Description
tds_cd_enabled	boolean; default value false	if mode == tunnel && protocol == tds	Is constrained delegation enabled for TDS?
tds_cd_spn	string	if tds_cd_enabled == true	Service principal name, for use with constrained delegation.
tds_cd_keytab	string	if tds_cd_enabled == true	Contents of the keytab file (Base64-encoded), for use with constrained delegation.

Table 45: ListenerTLSAttributes

Attribute	Type	Required	Description
tls_enabled	boolean; default value true	if mode == proxy bastion && protocol == http mysql pgsql rdp vnc	Is TLS protocol enabled?
tls_private_key	string	if mode == tunnel (tls_enabled == true && protocol == http mysql pgsql rdp vnc && tls_certificate is set)	TLS private key. Protected. Format: private-key.
tls_private_key_p	string	if tls_private_key is set	Passphrase to decrypt TLS private key. Protected.
tls_certificate	string	if mode == tunnel (tls_enabled == true && protocol == http mysql pgsql rdp vnc && tls_private_key is set)	TLS certificate. Format: x509-chain.
tls_certificate_c	string		Read-only; expensive to use. TLS certificate commonName. Requires mode == tunnel (protocol == http mysql pgsql rdp vnc && tls_enabled == true).
tls_certificate_f	string		Read-only; expensive to use. TLS certificate SHA1 fingerprint. Requires mode == tunnel (protocol == http mysql pgsql rdp vnc && tls_enabled == true).
tls_certificate_f	string		Read-only; expensive to use. TLS certificate SHA256 fingerprint. Requires mode == tunnel (protocol == http mysql pgsql rdp vnc && tls_enabled == true).

1.18.2 Retrieve Available Attributes of the *ListenerModel*

Request

Method	GET
Path	/api/v2/objspec/listener

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Listener objects.

1.18.3 Get Listeners List

Request

Method	GET
Path	/api/v2/listener

Example Request

GET /api/v2/listener

```

    "result": "success",
    "listener": [
      {
        "id": "1234138875067073217",
        "name": "rdp_list_fd_10647",
        "protocol": "rdp",
        "mode": "bastion",
        "listen_ip": "0.0.0.0",
        "listen_port": 3388,
        "blocked": false,
        "created_at": "2022-10-15 14:52:30.980597+02",
        "modified_at": "2022-10-15 14:52:30.980597+02",
        "legacy_crypto": false,
        "tls_enabled": true,
        "tls_certificate": "-----BEGIN CERTIFICATE-----\n
↪MIIEODCCArigAwIBAgIU5GWB/C...0w/BXGR\n-----END CERTIFICATE-----"
      },
      {
        "id": "1234138875067073219",
        "name": "telnet_proxy_3",
        "protocol": "telnet",
        "mode": "proxy",
        "listen_ip": "0.0.0.0",
        "listen_port": 2236,
        "blocked": false,
        "created_at": "2022-10-17 09:34:32.582169+02",
        "modified_at": "2022-10-17 09:34:32.582169+02"
      }
    ]
  
```

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```
},  
{  
  "id": "12348875067073220",  
  "name": "mssql_proxy",  
  "protocol": "tds",  
  "mode": "proxy",  
  "listen_ip": "0.0.0.0",  
  "listen_port": 8874,  
  "blocked": false,  
  "created_at": "2022-10-17 10:50:53.209773+02",  
  "modified_at": "2022-10-17 10:50:53.209773+02" }]
```

1.18.4 Create a Listener

Request

Method	POST
Path	/api/v2/listener
Headers	Content-Type: Application/json
Body	ListenerModel

1.18.5 Get a Listener

Request

Method	GET
Path	/api/v2/listener/<id>

1.18.6 Modify a Listener

Request

Method	PATCH
Path	/api/v2/listener/<id>
Headers	Content-Type: Application/json
Body	ListenerModel

Example Request: Changing the Listener's Address

PATCH /api/v2/listener/<id>

```
{ "listen_ip": "10.0.2.0" }
```

Response

```
{ "result": "success" }
```


1.18.7 Delete a Listener

Request

Method	DELETE
Path	/api/v2/listener/<id>

1.19 Safes

Safe directly regulates user access to monitored servers. It specifies available protocols' features, policies and other details concerning users and servers relations.

1.19.1 Data Structures

Table 46: SafeModel

Attribute	Type	Required	Description
id	string	yes	Read-only object identifier. Requires the following rights on object type safe depending on the HTTP method used: GET → read , PATCH → modify , DELETE → delete .
name	string	yes	Unique safe's name
blocked	boolean; default value false	yes	
reason	string	if blocked == true	
login_reason	boolean; default value false	yes	Enable sending login reason for connection
use_ticketing_system	boolean; default value false	yes	
require_confirmation	boolean; default value false	yes	Enable confirmation of each connection
otp_in_access_gateway	boolean; default value true	yes	Enable generating OTP in the User Access Gateway
webclient	boolean; default value true	if fudo_network == true	Enable connecting to the session in browser
fudo_network	boolean; default value false	yes	
confirmation_timeout	number; default value 5	yes	
inactivity_limit	number; default value 0	yes	

continues on next page

Table 46 – continued from previous page

Attribute	Type	Required	Description
<code>time_limit</code>	number; default value 0	yes	
<code>note_access</code>	string {none, read, write}; default value none	Access level to the notes	
<code>required_votes</code>	number; default value 0	yes	How many voters will be voting for the access request
<code>jit_mode</code>	string {always, time_policy}; default value always		Just-in-time access mode. always - an approved access request is always required. time_policy - approval is skipped during the daily access policy hours and required only outside them.
<code>backup_id</code>	string		Target destination ID for storing session data
<code>backup_name</code>	string		Read-only; expensive to use
<code>allow_user_sharing</code>	boolean; default value false	yes	Allow users to share their own live sessions from the User Access Gateway
<code>live_supervision_required</code>	boolean	if <code>allow_user_sharing == true</code>	Require live supervision of the sessions established through the safe. Can be set only when <code>allow_user_sharing</code> is true
<code>min_supervisors</code>	number	if <code>live_supervision_required == true</code>	Number of supervisors required; minimum value 1. Can be set only when <code>live_supervision_required</code> is true
<code>http_rendered_file_download</code>	boolean; default value false	yes	Enable file download in HTTP-rendered sessions
<code>http_rendered_file_upload</code>	boolean; default value false	yes	Enable file upload in HTTP-rendered sessions

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Table 46 – continued from previous page

Attribute	Type	Required	Description
http_rendered_file_quo	number; default value 524288000	yes	File quota in bytes for HTTP-rendered sessions
http_rendered_mode	string {kiosk, full_browser}; default value kiosk	yes	Browser mode for HTTP-rendered sessions
http_rendered_redirect	boolean; default value true	if http_rendered_ == full_browser	Enable popup redirection in HTTP-rendered sessions
http_rendered_kiosk_ur	string {hidden, readonly, editable}; default value hidden	if http_rendered_ == kiosk	
http_rendered_kiosk_ma	number; default value 1		Maximum number of tabs available in kiosk mode. Set to null for an unlimited number of tabs
rdp	SafeRDPAttributes	If protocol == rdp	
ssh	SafeSSHAttributes	If protocol == ssh	
vnc	SafeVNCAAttributes	If protocol == vnc	
analysis_context	string		AI analysis context. Given to the AI that analyzes sessions in this safe. Describe what is normal here so expected activity is not flagged as a risk.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only
modified_at	datetime		Read-only
removed	boolean		Read-only
last_login	datetime		Read-only; expensive to use
accounts	object-array		Read-only; expensive to use; JSON object array containing id, name, and type of assigned accounts.

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Table 46 – continued from previous page

Attribute	Type	Required	Description
<code>account_ids</code>	string-array		Read-only; hidden; expensive to use
<code>account_names</code>	string-array		Read-only; hidden; expensive to use
<code>users</code>	object-array		Read-only; expensive to use
<code>user_ids</code>	string-array		Read-only; hidden; expensive to use
<code>user_names</code>	string-array		Read-only; hidden; expensive to use
<code>listeners</code>	object-array		Read-only; expensive to use
<code>listener_ids</code>	number-array		Read-only; hidden; expensive to use
<code>listener_names</code>	string-array		Read-only; hidden; expensive to use
<code>group_ids</code>	string-array		IDs of the groups granted access to the safe. Read-only; hidden; expensive to use.
<code>builtin</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
<code>hidden</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

Table 47: SafeRDPAttributes

Attribute	Type	Required	Description
rdp_audin	boolean; default value true	yes	Audio input redirection
rdp_clipdr	boolean; default value true	yes	Clipboard redirection
rdp_clipdr_fi	boolean; default value true	yes	Allow file transfer over the redirected clipboard. Set to false to keep clipboard redirection enabled for text while blocking files.
rdp_config	string		Custom content to be added to the RDP configuration file when the native client RDP connection is requested via Access Gateway.
rdp_depth	number {8, 16, 24, 32}		Max. color depth
rdp_rdpdr	boolean; default value true	yes	
rdp_rdpnd	boolean; default value true	yes	Sound redirection
rdp_sndrec	boolean; default value true	yes	Record the RDP audio stream into the session dump.
rdp_drdynvc	boolean; default value true	yes	
rdp_resolution	string {800x600, 1024x600, 1024x768, 1152x864, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1400x1050, 1440x900, 1600x900, 1680x1050, 1600x1200, 1920x1080, 1920x1200, 2048x1152, 2560x1440, 2560x1600}		Max. resolution
rdp_suspend	boolean; default value true	yes	Enable content to not be available for viewing when the user minimizes its client application
rdp_tsmf	boolean; default value true	yes	

Table 48: SafeSSHAttributes

Attribute	Type	Required
ssh_agent	boolean; default value <code>true</code>	yes
ssh_environment	boolean; default value <code>true</code>	yes
ssh_exec	boolean; default value <code>true</code>	yes
ssh_port_forwarding	boolean; default value <code>true</code>	yes
ssh_record_file_transfer	boolean; default value <code>true</code>	yes
ssh_record_port_forwardin	boolean; default value <code>true</code>	yes
ssh_scp	boolean; default value <code>true</code>	yes
ssh_session	boolean; default value <code>true</code>	yes
ssh_shell	boolean; default value <code>true</code>	yes
ssh_sftp	boolean; default value <code>true</code>	yes
ssh_terminal	boolean; default value <code>true</code>	yes
ssh_x11	boolean; default value <code>true</code>	yes

Table 49: SafeVNCAttributes

Attribute	Type	Required	Description
vnc_clipcli	boolean; default value <code>true</code>	yes	Enable a user to be allowed to paste text into the VNC server computer
vnc_clipsrv	boolean; default value <code>true</code>	yes	Enable a user to be allowed to copy and paste text from the VNC server computer into the user's computer

1.19.2 Get Available Attributes of the SafeModel

Request

Method	GET
Path	/api/v2/objspec/safe

1.19.3 Data Structures: *UserSafeAssignmentModel*

Table 50: UserSafeAssignmentModel

Attribute	Type	Required	Description
id	string	yes	Read-only object Identifier.
user_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>safe_id</code> . Requires read right on object type <code>user</code> for GET, POST, PATCH, and DELETE requests.
roles	object-array		Read-only; expensive to use.
role_names	string-array		Read-only; hidden; expensive to use.
role_ids	string-array		Read-only; hidden; expensive to use.

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Table 50 – continued from previous page

Attribute	Type	Required	Description
<code>safe_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>safe_id</code> with attribute <code>user_id</code> . Requires <code>read</code> right on object type <code>safe</code> for <code>GET</code> requests, <code>user-add</code> right for <code>POST</code> and <code>PATCH</code> , and <code>user-remove</code> right for <code>DELETE</code> requests.
<code>blocked</code>	boolean; default value <code>false</code>	yes	Access to this safe is disabled for the user.
<code>position</code>	number		
<code>password_visible</code>	boolean; default value <code>false</code>	yes	Allow a user to use Secret Check-out feature and view passwords in the User Access Gateway.
<code>time_policy_check</code>	string		Read-only; expensive to use. Checksum computed from time policies used for this user-safe connection.
<code>use_time_policy</code>	boolean; default value <code>false</code>	yes	Enables the daily access policy for this user-safe connection. On a Safe with <code>jit_mode</code> set to <code>time_policy</code> it also decides when an access request is required - see <i>Safes</i> .
<code>valid_since</code>	datetime (h:m:s); default value <code>-infinity</code>	yes	Beginning access time.
<code>valid_to</code>	datetime (h:m:s); default value <code>infinity</code>	yes	Ending access time.
<code>user_name</code>	string		Read-only; expensive to use.
<code>user_domain</code>	string		Read-only; expensive to use.
<code>user_email</code>	string		Read-only; expensive to use.
<code>user_organization</code>	string		Read-only; expensive to use.
<code>safe_name</code>	string		Read-only; expensive to use.
<code>user_blocked</code>	boolean		Read-only; expensive to use; <code>blocked</code> state of the assigned user.
<code>safe_blocked</code>	boolean		Read-only; expensive to use; <code>blocked</code> state of the assigned safe.
<code>created_at</code>	datetime		Read-only.
<code>modified_at</code>	datetime		Read-only.
<code>removed</code>	boolean		Read-only.
<code>builtin</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
<code>hidden</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

1.19.4 Retrieve Available Attributes of the *UserSafeAssignmentModel*

Request

Method	GET
Path	/api/v2/objspec/user_safe

1.19.5 Data Structures: *UserSafeTimePolicyAssignmentModel*

Table 51: UserSafeTimePolicyAssignmentModel

Attribute	Type	Required	Description
id	string	yes	Read-only object Identifier.
user_safe_id	string		Read-only object Identifier.
user_id	string	yes	Immutable. Requires read right on object type user for GET requests, and modify right for POST, PATCH, and DELETE requests.
safe_id	string	yes	Immutable. Requires read right on object type safe for GET, POST, and PATCH requests.
user_name	string		Read-only; expensive to use.
user_role	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
day_of_week	number	yes	Value range from 1 to 7.
valid_from	datetime (h:m:s)	yes	Beginning access time.
valid_to	datetime (h:m:s)	yes	Ending access time.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

1.19.6 Retrieve Available Attributes of the *UserSafeTimePolicy - Assignment-Model*

Request

Method	GET
Path	/api/v2/objspec/user_safe_time_policy

Table 52: SafePolicyAssignmentModel

Attribute	Type	Required	Description
id	string	yes	Read-only, protected object Identifier
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>safe_id</code> with attributes <code>policy_id</code> . Requires <code>read</code> right on object type <code>safe</code> for GET requests, and <code>modify</code> right for DELETE and POST requests.
policy_id	string		Immutable. Uniqueness is required in the combination of attribute <code>policy_id</code> with attributes <code>safe_id</code> .
safe_name	string		Read-only; expensive to use
policy_name	string		Read-only; expensive to use
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.19.7 Retrieve Available Attributes of the *SafePolicyAssignmentModel*

Request

Method	GET
Path	/api/v2/objspec/safe_policy

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Safe objects.

1.19.8 Get Safes List

Request

Method	GET
Path	/api/v2/safe

Example Request

GET /api/v2/safe

Response

```
{ "result": "success",
"safe": [
  {
    "id": "123678819172646913",
    "name": "main",
    "blocked": false,
    "login_reason": false,
```

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```

"use_ticketing_system": false,
"require_confirmation": false,
"otp_in_access_gateway": true,
"webclient": true,
"confirmation_timeout": 5,
"inactivity_limit": 0,
"time_limit": 0,
"note_access": "none",
"required_votes": 0,
"jit_mode": "always",
"rdp_audin": true,
"rdp_clipdr": true,
"rdp_rdpdr": true,
"rdp_rdpdnd": true,
"rdp_drdynvc": true,
"rdp_suspend": true,
"rdp_tsmf": true,
"ssh_agent": true,
"ssh_environment": true,
"ssh_exec": true,
"ssh_port_forwarding": true,
"ssh_scp": true,
"ssh_session": true,
"ssh_shell": true,
"ssh_sftp": true,
"ssh_terminal": true,
"ssh_x11": true,
"vnc_clipcli": true,
"vnc_clipdrv": true,
"created_at": "2022-10-20 02:01:38.366865-07",
"modified_at": "2022-10-26 03:26:45.530129-07",
"last_login": "-infinity",
"accounts": [
  "122678819172646913",
  "1232678819172646914",
  "1232678819172646919"
]
]]}

```

1.19.9 Create a Safe

Request

Method	POST
Path	/api/v2/safe
Headers	Content-Type: Application/json
Body	SafeModel

Example Request

POST /api/v2/safe

```
{ "name": "my-1st-safe" }
```

Response

```
{ "result": "success",
  "safe": {
    "id": "1232678819172646915" }}
```

1.19.10 Get a Safe

Request

Method	GET
Path	/api/v2/safe/<id>

Example Request

GET /api/v2/safe/<id>

Response

```
{ "result": "success",
  "safe": {
    "id": "1232678819172646915",
    "name": "my-1st-safe",
    "blocked": false,
    "login_reason": false,
    "use_ticketing_system": false,
    "require_confirmation": false,
    "otp_in_access_gateway": true,
    "webclient": true,
    "confirmation_timeout": 5,
    "inactivity_limit": 0,
    "time_limit": 0,
    "note_access": "none",
    "required_votes": 0,
    "jit_mode": "always",
    "rdp_audin": true,
    "rdp_clipdr": true,
    "rdp_rdpdr": true,
    "rdp_rdpdnd": true,
    "rdp_drdrdnc": true,
    "rdp_suspend": true,
    "rdp_tsmf": true,
    "ssh_agent": true,
    "ssh_environment": true,
    "ssh_exec": true,
    "ssh_port_forwarding": true,
    "ssh_scp": true,
    "ssh_session": true,
```

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```

"ssh_shell": true,
"ssh_sftp": true,
"ssh_terminal": true,
"ssh_x11": true,
"vnc_clipcli": true,
"vnc_clipsrv": true,
"created_at": "2022-10-27 02:26:22.951762-07",
"modified_at": "2022-10-27 02:26:22.951762-07",
"last_login": "-infinity" }}

```

1.19.11 Modify a Safe

Request

Method	PATCH
Path	/api/v2/safe/<id>
Headers	Content-Type: Application/json
Body	SafeModel

Example Request: Enabling the Just-in-Time Feature for a Safe That Would Wait for 5 Authorized Users to Vote for Access

PATCH /api/v2/safe/<id>

```
{ "required_votes": 5 }
```

To require approval only outside the daily access policy hours of the user-safe assignment, set `jit_mode` to `time_policy` as well:

```
{ "required_votes": 5, "jit_mode": "time_policy" }
```

Response

```
{ "result": "success" }
```

1.19.12 Delete a Safe

Request

Method	DELETE
Path	/api/v2/safe/<id>

1.19.13 Get Users' Time Policy Settings Within Safes

Request

Method	GET
Path	/api/v2/user/safe/time_policy

Example Request

GET /api/v2/user/safe/time_policy

Response (User's time policy is declared separately for each day)

```
{
  "result": "success",
  "user_safe_time_policy": [
    {
      "id": "4602678819172646913",
      "safe_id": "4602678819172646913",
      "user_id": "1232678819172646915",
      "day_of_week": 2, <--- A user has access to the safe on Tuesday
      "valid_from": "09:00:00", <--- User's access starts at 9:00
      "valid_to": "14:00:00", <--- and ends at 14:00
      "created_at": "2022-10-26 02:25:19.155648-07",
      "modified_at": "2022-10-26 02:30:40.677788-07"
    },
    {
      "id": "4602678819172646914",
      "safe_id": "4602678819172646913",
      "user_id": "1232678819172646915",
      "day_of_week": 3, <--- A user has access to the safe on Wednesday
      "valid_from": "09:15:00", <--- User's access starts at 9:15
      "valid_to": "14:15:00", <--- and ends at 14:15
      "created_at": "2022-10-26 02:32:11.781045-07",
      "modified_at": "2022-10-26 02:32:11.781045-07"
    }
  ]
}
```

1.19.14 Modify a User's Time Policy Settings Within a Safe

Request

Method	PATCH
Path	/api/v2/user/safe/time_policy/<id>
Body	UserSafeTimePolicyAssignment

Example Request: Changing the Day of User's Access to Monday

PATCH /api/v2/user/safe/time_policy/<id>

```
{ "day_of_week": 1 }
```

Response

```
{ "result": "success" }
```

1.19.15 Get User's Settings Within a Safe

Request

Method	GET
Path	/api/v2/user/<user_id>/safe/<safe_id>

1.19.16 Modify a User Within a Safe

Request

Method	PATCH
Path	/api/v2/user/<user_id>/safe/<safe_id>
Body	UserSafeAssignment

Example Request: Allow a User to Use Secret Checkout Feature and View Passwords in the User Access Gateway

PATCH /api/v2/user/<user_id>/safe/<safe_id>

```
{"password_visible": true}
```

Response

```
{ "result": "success" }
```

1.19.17 Delete a User From a Safe

Request

Method	DELETE
Path	/api/v2/user/<user_id>/safe/<safe_id>

1.19.18 Get Users Allowed to Manage Selected Safe

Request

Method	GET
Path	/api/v2/user/safe

1.19.19 Get Account-Safe-Listener Assignments List

Request

Method	GET
Path	/api/v2/account/safe/listener

1.19.20 Create an Account-Safe-Listener Assignments

Request

Method	POST
Path	/api/v2/account/safe/listener
Headers	Content-Type: Application/json
Body	AccountSafeListenerAssignmentModel

Example Request

POST /api/v2/account/safe/listener

```
{ "account_id": 1232678819172646919,
"safe_id": 1232678819172646913,
"listener_id": 1232678819172646914 }
```

Response

```
{ "result": "success",
"account_safe_listener": {} }
```

1.19.21 Delete an Account-Safe-Listener Assignment

Request

Method	DELETE
Path	/api/v2/account/<account_id>/safe/<safe_id>/listener/ <listener_id>

1.19.22 Get Safe-Policy Assignments List

Request

Method	GET
Path	/api/v2/safe/policy/

Example Request

GET /api/v2/safe/policy/

```
curl -s -k -X GET -H 'Authorization: <token>' /api/v2/safe/policy
```

Response

```
{
  "result": "success",
  "safe_policy": [
    {
      "safe_id": "9124292845052624898",
```

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```

        "policy_id": "9124292845052624898",
        "safe_name": "RDP_Safe",
        "policy_name": "AI_Policy_1",
        "created_at": "2024-06-21 06:15:12.135699-07",
        "modified_at": "2024-06-21 06:15:12.135699-07"
      }
    ]
  }

```

1.19.23 Checking Safe-Policy Assignment by ID

Request

Method	GET
Path	/api/v2/safe/<safe_id>/policy/<policy_id>
Headers	Content-Type: Application/json
Body	PolicyModel

Example Request

GET /api/v2/safe/<safe_id>/policy/<policy_id>

```
curl -s -k -X GET -H 'Authorization: <token>' /api/v2/safe/9124292845052624898/
↪policy/9124292845052624898
```

Response

```

{
  "result": "success",
  "safe_policy": [
    {
      "safe_id": "9124292845052624898",
      "policy_id": "9124292845052624898",
      "safe_name": "RDP_Safe",
      "policy_name": "AI_Policy_1",
      "created_at": "2024-06-21 06:15:12.135699-07",
      "modified_at": "2024-06-21 06:15:12.135699-07"
    }
  ]
}

```

1.19.24 Create an Safe-Policy Assignments

Request

Method	POST
Path	/api/v2/safe/policy
Headers	Content-Type: Application/json
Body	SafePolicyAssignmentModel

Example Request

POST /api/v2/safe/policy

```
curl -s -k -X POST -H 'Authorization: <token>' /api/v2/safe/policy \
-H 'Content-Type: application/json' \
-d '{"safe_id":"9124292845052624898","policy_id":"9124292845052624898"}'
```

Response

```
{
  "result": "success"
}
```

1.19.25 Delete a Safe-Policy Assignment

Request

Method	DELETE
Path	/api/v2/safe/<safe_id>/policy/<policy_id>

Example Request

DELETE /api/v2/safe/<safe_id>/policy/<policy_id>

```
curl -s -k -X DELETE -H 'Authorization: <token>' /api/v2/safe/
↪9124292845052624898/policy/9124292845052624898
```

Response

```
{
  "result": "success"
}
```

1.20 Safe Notifications

1.20.1 Data Structures

Table 53: SafeNotificationUserModel

Attribute	Type	Required	Description
safe_id	string		Read-only. Unique safe identifier.
user_id	string		Read-only. Unique user identifier.
username	string		Read-only. Username for notification recipient.
user_domain	string		Read-only. User domain.
email	string		Read-only. User email address.
email_count	number		Read-only. Email notification count or status.
push_count	number		Read-only. Push notification count or status.
roles	object-array		Read-only. User roles related to safe notifications.
role_names	string-array		Read-only. Hidden attribute. Array of role names.
role_ids	string-array		Read-only. Hidden attribute. Array of role identifiers.

1.20.2 Retrieve Available Attributes of the *SafeNotificationUsersModel*

Request

Method	GET
Path	/api/v2/objspec/safe_notification_user

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.20.3 Get Safe Notification Settings for Users

Request

Method	GET
Path	/api/v2/safe/<safe_id>/notification_user

GET /api/v2/safe/<safe_id>/notification_user

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/safe/2/notification_user'
```

Response

```
{
  "result": "success",
  "safe_notification_user": [
    {
      "safe_id": "2",
      "user_id": "user456",
      "user_name": "security.admin",
      "user_domain": "internal.com",
      "user_email": "security.admin@internal.com",
      "email_notifications": 5,
      "push_notifications": 3,
      "roles": [
        {
          "id": "role789",
          "name": "Safe Administrator"
        }
      ]
    }
  ]
}
```

1.21 User Group Safe

1.21.1 Data Structures

Table 54: UserGroupSafeModel

Attribute	Type	Required	Description
<code>user_id</code>	string	yes	Immutable. Unique with <code>safe_id</code> . ID of the user assigned to safe through groups.
<code>user_name</code>	string		Read-only. Username of the user assigned to safe through groups.
<code>safe_id</code>	string	yes	Immutable. Unique with <code>user_id</code> . ID of the safe to which user is assigned through groups.
<code>safe_name</code>	string		Read-only. Name of the safe to which user is assigned through groups.
<code>groups</code>	object-array		Read-only. List of groups through which user is assigned to safe.
<code>group_ids</code>	string-array		Read-only. Hidden. List of group IDs through which user is assigned to safe.
<code>group_names</code>	string-array		Read-only. Hidden. List of group names through which user is assigned to safe.
<code>group_names_al</code>	string		Read-only. Hidden; expensive to use. All group names, separated by space.

1.21.2 Retrieve Available Attributes of the *UserGroupSafeModel*

Request

Method	GET
Path	/api/v2/objspec/user_group_safe

GET /api/v2/objspec/user_group_safe

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/objspec/user_group_safe'
```

To check allowed methods, available URL parameters and possible responses please refer to the *API Overview* section.

Note

The `user_group_safe` object represents the relationship between users and safes through group membership. This provides an indirect way to grant safe access through group assignments rather than direct user-to-safe assignments.

1.21.3 List User Group Safe Assignments

Request

Method	GET
Path	/api/v2/user/group/safe

GET /api/v2/user/group/safe

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/user/group/safe'
```

Response

```
{
  "result": "success",
  "user_group_safe": [
    {
      "user_id": "8754997675608244225",
      "user_name": "admin",
      "safe_id": "8754997675608244225",
      "safe_name": "main",
      "groups": [
```

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```
        {
          "id": "8754997675608244225",
          "name": "DevTeam"
        }
      ],
    },
    {
      "user_id": "8754997675608244227",
      "user_name": "jdoe",
      "safe_id": "8754997675608244225",
      "safe_name": "main",
      "groups": [
        {
          "id": "8754997675608244225",
          "name": "DevTeam"
        }
      ]
    }
  ]
}
```

Note

This endpoint provides a comprehensive view of how users gain access to safes through group membership. It's particularly useful for:

- **Access auditing:** Understanding the complete chain of access from user to safe through groups
- **Compliance reporting:** Tracking indirect access permissions for security audits
- **Access management:** Identifying which groups grant access to specific safes

Warning

The `user_group_safe` relationships are read-only and automatically calculated based on:

- Current user-to-group assignments
- Current group-to-safe assignments
- Active group memberships and safe permissions

To modify these relationships, use the appropriate group management or safe permission endpoints.

1.22 Group-Derived Safe Access Policies NEW

A user can reach a safe directly or through a group. This resource holds a per-user override for access a user has **through a group**: it narrows the group's grant for that one user without touching the group itself or the other members.

The override can only be created for a user who already reaches the safe through a group. Creating it for a user with no such path fails with `{"result": "failure", "message": "User does not reach the safe through any group."}`.

Note

The override lives only as long as the group path does. When the last group granting the user access to the safe is removed, the override is removed with it.

1.22.1 Data Structures

Table 55: UserGroupSafePolicyModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only; protected.
<code>user_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>safe_id</code> . Requires <code>read</code> right on object type <code>user</code> for all methods.
<code>safe_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>safe_id</code> with attribute <code>user_id</code> . Requires <code>read</code> right on object type <code>safe</code> for <code>GET</code> , <code>user-add</code> for <code>POST</code> and <code>PATCH</code> , and <code>user-remove</code> for <code>DELETE</code> .
<code>blocked</code>	boolean; default value <code>false</code>	yes	Access to this safe is disabled for the user.
<code>use_time_polic</code>	boolean; default value <code>false</code>	yes	Restrict the user's access to the hours defined by the time policy entries.
<code>valid_since</code>	datetime (h:m:s); default value <code>-infinity</code>	yes	Beginning access time.
<code>valid_to</code>	datetime (h:m:s); default value <code>infinity</code>	yes	Ending access time.
<code>user_name</code>	string		Read-only; expensive to use.
<code>safe_name</code>	string		Read-only; expensive to use.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

Table 56: UserGroupSafePolicyTimePolicyModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
user_group_safe_p	string		Read-only; protected. Owing override.
user_id	string	yes	Immutable. Requires read right on object type user for GET , and modify for the other methods.
safe_id	string	yes	Immutable. Requires read right on object type safe .
user_name	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
day_of_week	number	yes	Day the entry applies to. Value range from 1 to 7.
valid_from	datetime (h:m:s)	yes	Beginning access time on that day.
valid_to	datetime (h:m:s)	yes	Ending access time on that day.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.22.2 Retrieve Available Attributes

Request

Method	GET
Path	/api/v2/objspec/user_group_safe_policy, /api/v2/objspec/user_group_safe_policy_time_policy

GET /api/v2/objspec/user_group_safe_policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/objspec/user_group_safe_policy'
```

1.22.3 List Overrides

Request

Method	GET
Path	/api/v2/user/group/safe/policy

GET /api/v2/user/group/safe/policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/user/group/safe/policy'
```

Response

```
{
  "result": "success",
  "user_group_safe_policy": [
    {
      "user_id": "4638707616191610882",
      "safe_id": "4638707616191610881",
      "blocked": false,
      "use_time_policy": true,
      "valid_since": "-infinity",
      "valid_to": "infinity",
      "user_name": "user_1",
      "safe_name": "main",
      "created_at": "2026-08-18 02:19:48.717365-07",
      "modified_at": "2026-08-18 02:19:48.717365-07"
    }
  ]
}
```

1.22.4 Get the Override for a User and Safe

Request

Method	GET
Path	/api/v2/user/<user_id>/group/safe/<safe_id>/policy

GET /api/v2/user/<user_id>/group/safe/<safe_id>/policy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/user/4638707616191610882/group/safe/
↪4638707616191610881/policy'
```

Response

```
{
  "result": "success",
  "user_group_safe_policy": [
    {
      "user_id": "4638707616191610882",
      "safe_id": "4638707616191610881",
      "blocked": true,
      "use_time_policy": true,

```

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```

        "valid_since": "-infinity",
        "valid_to": "infinity",
        "user_name": "user_1",
        "safe_name": "main",
        "created_at": "2026-08-18 02:19:48.717365-07",
        "modified_at": "2026-08-18 02:25:55.003527-07"
    }
}

```

Note

This endpoint returns an array, not a single object, and an empty array when the user has no override for that safe.

1.22.5 Create an Override

Request

Method	POST
Path	/api/v2/user/group/safe/policy
Body	UserGroupSafePolicyModel

POST /api/v2/user/group/safe/policy

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"user_id":"4638707616191610882","safe_id":"4638707616191610881","use_
↪time_policy":true,"blocked":false}' \
  'https://10.33.3.191/api/v2/user/group/safe/policy'

```

Response

```

{
  "result": "success"
}

```

1.22.6 Modify an Override

Request

Method	PATCH
Path	/api/v2/user/<user_id>/group/safe/<safe_id>/policy
Body	UserGroupSafePolicyModel

PATCH /api/v2/user/<user_id>/group/safe/<safe_id>/policy

Example Request

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"blocked":true}' \
  'https://10.33.3.191/api/v2/user/4638707616191610882/group/safe/
↪4638707616191610881/policy'
```

Response

```
{
  "result": "success"
}
```

1.22.7 Delete an Override

Request

Method	DELETE
Path	/api/v2/user/<user_id>/group/safe/<safe_id>/policy

DELETE /api/v2/user/<user_id>/group/safe/<safe_id>/policy

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/user/4638707616191610882/group/safe/
↪4638707616191610881/policy'
```

Response

```
{
  "result": "success"
}
```

1.22.8 List Time Policy Entries

Request

Method	GET
Path	/api/v2/user/group/safe/policy/time_policy

GET /api/v2/user/group/safe/policy/time_policy

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/user/group/safe/policy/time_policy'
```

Response

```
{
  "result": "success",
  "user_group_safe_policy_time_policy": [
    {
      "id": "4638707616191610881",
      "user_id": "4638707616191610882",
      "safe_id": "4638707616191610881",
      "user_name": "user_1",
      "safe_name": "main",
      "day_of_week": 1,
      "valid_from": "08:00:00",
      "valid_to": "16:00:00",
      "created_at": "2026-08-18 02:19:56.790642-07",
      "modified_at": "2026-08-18 02:19:56.790642-07"
    }
  ]
}
```

1.22.9 Get a Time Policy Entry

Request

Method	GET
Path	/api/v2/user/group/safe/policy/time_policy/<id>

GET /api/v2/user/group/safe/policy/time_policy/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/user/group/safe/policy/time_policy/
↪4638707616191610881'
```

Response

```
{
  "result": "success",
  "user_group_safe_policy_time_policy": {
    "id": "4638707616191610881",
    "user_id": "4638707616191610882",
    "safe_id": "4638707616191610881",
    "user_name": "user_1",
    "safe_name": "main",
    "day_of_week": 1,
    "valid_from": "08:00:00",
    "valid_to": "16:00:00",
    "created_at": "2026-08-18 02:19:56.790642-07",
    "modified_at": "2026-08-18 02:19:56.790642-07"
  }
}
```

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```
}
}
```

1.22.10 Create a Time Policy Entry

Request

Method	POST
Path	/api/v2/user/group/safe/policy/time_policy
Body	UserGroupSafePolicyTimePolicyModel

POST /api/v2/user/group/safe/policy/time_policy

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"user_id":"4638707616191610882","safe_id":"4638707616191610881","day_of_
↪week":1,"valid_from":"08:00:00","valid_to":"16:00:00"}' \
'https://10.33.3.191/api/v2/user/group/safe/policy/time_policy'
```

Response

```
{
  "result": "success",
  "user_group_safe_policy_time_policy": {
    "id": "4638707616191610881"
  }
}
```

1.22.11 Modify a Time Policy Entry

Request

Method	PATCH
Path	/api/v2/user/group/safe/policy/time_policy/<id>
Body	UserGroupSafePolicyTimePolicyModel

PATCH /api/v2/user/group/safe/policy/time_policy/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"valid_to":"18:00:00"}' \
'https://10.33.3.191/api/v2/user/group/safe/policy/time_policy/
↪4638707616191610881'
```

Response

```
{
  "result": "success"
}
```

1.22.12 Delete a Time Policy Entry

Request

Method	DELETE
Path	/api/v2/user/group/safe/policy/time_policy/<id>

DELETE /api/v2/user/group/safe/policy/time_policy/<id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/user/group/safe/policy/time_policy/
  ↪4638707616191610881'
```

Response

```
{
  "result": "success"
}
```

1.23 Internal Fetch

The internal fetch endpoint enables retrieving server public keys and certificates (SSH/RDP) for establishing secure connections to target servers. This endpoint is used to fetch cryptographic material from remote servers for authentication and encryption purposes.

Warning

The endpoints described in this section belong to the `/internal` API group and may change without prior notice. These interfaces are intended for internal use and are not guaranteed to be stable between releases. For more details refer to the [API BETA Endpoints](#) section.

1.23.1 Data Structures

Table 57: *FetchModel*

Attribute	Type	Required	Description
protocol	string	yes	Connection protocol. Immutable. Allowed values: <code>http</code> , <code>mysql</code> , <code>pgsql</code> , <code>rdp</code> , <code>ssh</code> , <code>telnet</code> , <code>tls</code> , <code>tn3270</code> , <code>tn5250</code> , <code>vnc</code> . Case-insensitive. Filterable.
address	string	yes	Address to connect to. Filterable.
port	number	yes	Port to connect to. Value format: port. Filterable.
bindip	string		IP address to bind to when connecting. Filterable.
servername	string		Server name for SNI. Requires protocol to be one of: <code>http</code> , <code>mysql</code> , <code>pgsql</code> , <code>rdp</code> , <code>telnet</code> , <code>tls</code> , <code>tn3270</code> , <code>tn5250</code> , <code>vnc</code> . Filterable.
rdp_secproto	string		RDP security protocol. Immutable. Default value: <code>nla</code> . Allowed values: <code>nla</code> , <code>std</code> , <code>tls</code> . Required when protocol is <code>rdp</code> . Filterable.

1.23.2 Retrieve Available Attributes of the *FetchModel*

Request

Method	GET
Path	/api/v2/objspec/fetch

GET /api/v2/objspec/fetch

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.138.59/api/v2/objspec/fetch'
```

1.23.3 Fetch SSH Server Public Key

Request

Method	POST
Path	/api/v2/internal/fetch
Headers	Content-Type: application/json
Body	FetchModel

POST /api/v2/internal/fetch

Example Request - SSH

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"protocol": "ssh", "address": "10.0.0.1", "port": 22}' \
'https://10.31.138.59/api/v2/internal/fetch'
```

Response - SSH

```
{
  "result": "success",
  "ssh_public_key": {
    "public_key": "ssh-ed25519
↪AAAAC3NzaC1lZDI1NTE5AAAAIGvHcVf1Ii7m5p2zoW5JjlPw0dwJogykoMYmW80TMGwa",
    "fingerprint_sha1":
↪"SHA1:30:c6:e3:08:28:61:61:d7:97:ab:92:05:1f:ea:51:38:ec:ab:01:39",
    "fingerprint_sha256":
↪"SHA256:hJY17iobERovVViFUGo9bGrcT3f80yiBtED49A4z41U"
  }
}
```

1.23.4 Fetch RDP Server Certificate

Request

Method	POST
Path	/api/v2/internal/fetch
Headers	Content-Type: application/json
Body	FetchModel

POST /api/v2/internal/fetch

Example Request - RDP with TLS

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"protocol": "rdp", "address": "10.0.0.2", "port": 3389, "rdp_secproto":
↪"tls"}' \
'https://10.31.138.59/api/v2/internal/fetch'
```

Response - RDP with TLS

```
{
  "result": "success",
  "tls_certificate": {
    "certificate": "-----BEGIN CERTIFICATE-----\nMIIDXTCCAkwgAwIBAgIJAKn...\n
↪n-----END CERTIFICATE-----",
    "fingerprint_sha1":
↪"SHA1:a5:b6:c7:d8:e9:f0:11:22:33:44:55:66:77:88:99:aa:bb:cc:dd:ee",
    "fingerprint_sha256":

```

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```

↪ "SHA256:1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcd",
    "subject": "CN=rdp.example.com",
    "issuer": "CN=rdp.example.com",
    "valid_from": "2024-01-01T00:00:00Z",
    "valid_to": "2025-01-01T00:00:00Z"
  }
}

```

Example Request - RDP Standard

```

curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"protocol": "rdp", "address": "10.0.0.3", "port": 3389, "rdp_secproto":
↪ "std"}' \
'https://10.31.138.59/api/v2/internal/fetch'

```

Response - RDP Standard

```

{
  "result": "success",
  "rdp_public_key": {
    "public_key": "308201...base64_encoded_key...",
    "fingerprint_sha1":
↪ "SHA1:11:22:33:44:55:66:77:88:99:aa:bb:cc:dd:ee:ff:00:11:22:33:44",
    "fingerprint_sha256":
↪ "SHA256:abcdef1234567890abcdef1234567890abcdef1234567890abcdef12345678"
  }
}

```

1.24 Fetch and Store Server Keys/Certificates

This example demonstrates how to use batch operations to fetch SSH/RDP server public keys or certificates and store them in server objects.

1.24.1 Fetch SSH Key and Update Server

The following batch operation fetches an SSH public key from a remote server and updates the corresponding server object:

Example Request - Fetch and Store SSH Key

```

{
  "atomic": true,
  "requests": {
    "fetch_ssh_key": {
      "method": "POST",
      "endpoint": "/internal/fetch",
      "data": {
        "protocol": "ssh",

```

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```

        "address": "192.168.1.100",
        "port": 22
      },
      "update_server": {
        "method": "PATCH",
        "endpoint": "/server/{server_id}",
        "data": {
          "ssh_public_key": "{responses.fetch_ssh_key.ssh_public_key.public_key}"
        }
      }
    }
  }
}

```

Response

```

{
  "result": "success",
  "responses": {
    "fetch_ssh_key": {
      "result": "success",
      "status-code": 200,
      "ssh_public_key": {
        "public_key": "ssh-ed25519_
↪AAAAC3NzaC1lZDI1NTE5AAAAIGvHcVf1Ii7m5p2zoW5JjlPw0dwJogykoMYmW80TMGwa",
        "fingerprint_sha1":
↪"SHA1:30:c6:e3:08:28:61:61:d7:97:ab:92:05:1f:ea:51:38:ec:ab:01:39",
        "fingerprint_sha256":
↪"SHA256:hJY17iobERovVViFUGo9bGrcT3f80yiBtED49A4z41U"
      }
    },
    "update_server": {
      "result": "success",
      "status-code": 200
    }
  }
}

```

1.24.2 Fetch RDP Certificate and Update Server

For RDP servers with TLS security, the batch operation fetches the TLS certificate:

Example Request - Fetch and Store RDP Certificate

```

{
  "atomic": true,
  "variables": {
    "server_address": "192.168.1.200",
    "server_port": 3389,
    "server_id": "{server_id}"
  }
}

```

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```

},
"requests": {
  "fetch_rdp_cert": {
    "method": "POST",
    "endpoint": "/internal/fetch",
    "data": {
      "protocol": "rdp",
      "address": "{variables.server_address}",
      "port": "{variables.server_port}",
      "rdp_secproto": "tls"
    }
  },
  "update_server": {
    "method": "PATCH",
    "endpoint": "/server/{variables.server_id}",
    "data": {
      "tls_certificate": "{responses.fetch_rdp_cert.tls_certificate.
↪certificate}"
    }
  }
}
}

```

Response

```

{
  "result": "success",
  "responses": {
    "fetch_rdp_cert": {
      "result": "success",
      "status-code": 200,
      "tls_certificate": {
        "certificate": "-----BEGIN CERTIFICATE-----\
↪nMIIDXTCCAkWgAwIBAgIJAKn...\n-----END CERTIFICATE-----",
        "fingerprint_sha1":
↪"SHA1:a5:b6:c7:d8:e9:f0:11:22:33:44:55:66:77:88:99:aa:bb:cc:dd:ee",
        "fingerprint_sha256":
↪"SHA256:1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcd"
      }
    },
    "update_server": {
      "result": "success",
      "status-code": 200
    }
  }
}

```

1.24.3 Batch Fetch Multiple Server Keys

This example shows how to fetch and store keys for multiple servers in a single batch operation:

Example Request - Multiple Servers

```
{
  "atomic": false,
  "requests": {
    "server1_fetch": {
      "method": "POST",
      "endpoint": "/internal/fetch",
      "atomic": false,
      "data": {
        "protocol": "ssh",
        "address": "10.0.0.1",
        "port": 22
      }
    },
    "server1_update": {
      "method": "PATCH",
      "endpoint": "/server/{server_id_1}",
      "atomic": false,
      "data": {
        "ssh_public_key": "{responses.server1_fetch.ssh_public_key.public_key}"
      }
    },
    "server2_fetch": {
      "method": "POST",
      "endpoint": "/internal/fetch",
      "atomic": false,
      "data": {
        "protocol": "rdp",
        "address": "10.0.0.2",
        "port": 3389,
        "rdp_secproto": "tls"
      }
    },
    "server2_update": {
      "method": "PATCH",
      "endpoint": "/server/{server_id_2}",
      "atomic": false,
      "data": {
        "tls_certificate": "{responses.server2_fetch.tls_certificate.
↪certificate}"
      }
    }
  }
}
```

Note

- The `/internal/fetch` endpoint requires appropriate permissions to access remote servers
- Set `atomic: false` for individual requests when processing multiple servers to prevent one failure from blocking all operations
- The fetched keys/certificates should match the server's configured protocol
- For RDP servers, ensure the `rdp_secproto` parameter matches the server's security configuration

1.25 Access Request

1.25.1 Data Structures

Table 58: `AccessRequestModel`

Attribute	Type	Required	Description
<code>id</code>	string		Unique and read-only object Identifier
<code>activated</code>	boolean		Read-only
<code>immediate_interval</code>	number {1-24}	if type == immediate	The amount of time the user will have access to the account, expressed in hours and counted from the moment the session is initiated. Read-only, expensive to use.
<code>starts_at</code>	string	if type == scheduled	The time from which the access period starts.
<code>expires_at</code>	string	if type == scheduled	The time at which the access expires.
<code>reason</code>	string	yes	Read-only.
<code>revoke_reason</code>	string		Read-only.
<code>required_votes</code>	number		Read-only. Number of votes required to acquire access to the account.
<code>status</code>	string {expired, granted, pending, rejected, revoked}		Read-only; expensive to use.
<code>operation</code>	string {ac-count_access, ac-count_share, secret_view, secret_share}	yes	Immutable.

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Table 58 – continued from previous page

Attribute	Type	Required	Description
type	string {immediate, scheduled, preview}	yes	
account_id	string		Read-only. Requires read right on object type account for GET requests.
account_name	string		Read-only; expensive to use.
safe_id	string		Read-only. Requires read right on object type safe for GET requests.
safe_name	string		Read-only; expensive to use.
pool_id	string		Read-only; expensive to use. Requires read right on object type pool for GET requests.
pool_name	string		Read-only; expensive to use.
protocol	string		Read-only; expensive to use.
server_id	string		Read-only; expensive to use. Requires read right on object type server for GET requests.
server_name	string		Read-only; expensive to use.
secret_id	string		Read-only.
secret_name	string		Read-only; expensive to use.
secret_domain	string		Read-only; expensive to use.
secret_login	string		Read-only; expensive to use.
secret_type	string		Read-only; expensive to use.
secret_description	string		Read-only; expensive to use.
secret_uris	object-array		Read-only; expensive to use.
collection_id	string		Read-only; expensive to use. Requires read right on object type collection for GET requests.
collection_name	string		Read-only; expensive to use.
listeners	object-array		Read-only; expensive to use. JSON object array containing id, mode, name, hidden status, builtin status, and protocol of assigned listeners.
listener_ids	number-array		Read-only; expensive to use.
listener_names	string-array		Read-only; expensive to use.
user_id	string	yes	Immutable. Requires read right on object type user for GET requests.
user_domain	string		Read-only; expensive to use.
user_name	string		Read-only; expensive to use.
requested_for_user	string		Read-only.
requested_for_user	string		Read-only; expensive to use.
requested_for_user	string		Read-only; expensive to use.
votes	object-array		Read-only; expensive to use. JSON object array containing reason, user_id, acceptance status, user_name, user_role, and user_domain of the voting user.

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Table 58 – continued from previous page

Attribute	Type	Required	Description
webclient	boolean		Read-only; expensive to use. Indicates if access is available via the web client.
handled	boolean		Read-only. Hidden; expensive to use. Has the request been handled (accepted by the current user or granted)?
revoked_at	string		Read-only.
revoked_by_id	string		Read-only. The identifier of the user who revoked the access obtained through this request.
revoked_by_name	string		Read-only; expensive to use. The name of the user who revoked the access obtained through this request.
archival	boolean	yes	Read-only; expensive to use. Is the request archival (i.e. expired, rejected or revoked)?
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

1.25.2 Retrieve Available Attributes of the *AccessRequestModel*

Request

Method	GET
Path	/api/v2/objspec/access_request

Table 59: AccessRequestVoteModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier. Protected.
access_request_id	string	yes	Immutable. Uniqueness is required in the combination of attribute access_request_id with attribute user_id.
accepted	boolean	yes	
reason	string	if accepted == false	

continues on next page

Table 59 – continued from previous page

Attribute	Type	Required	Description
<code>user_id</code>	string		Protected; read-only. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>access_request_id</code> . Requires <code>read</code> right on object type <code>user</code> for POST requests.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

1.25.3 Retrieve Available Attributes of the *AccessRequestVoteModel*

Request

Method	GET
Path	/api/v2/objspec/access_request_vote

Table 60: *AccessRequestRevokeModel*

Attribute	Type	Required	Description
<code>access_request_id</code>	string	yes	
<code>revoke_reason</code>	string	yes	

1.25.4 Retrieve Available Attributes of the *AccessRequestRevokeModel*

Request

Method	GET
Path	/api/v2/objspec/access_request_revoke

To check allowed methods, available URL parameters and possible responses please refer to the *API Overview* section.

1.25.5 Get Access Requests List

Request

Method	GET
Path	/api/v2/access_request

Example Request

GET /api/v2/access_request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/access_request'
```

1.25.6 Revoking Access Requests

Request

Method	POST
Path	/api/v2/access_request/<access_request_id>/revoke
Headers	Content-Type: Application/JSON
Body	AccessRequestRevokeModel

Example Request

POST /api/v2/access_request/<id>/revoke

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/access_request/5620492334958379010/revoke' \
-d '{"revoke_reason": "AD maintenance."}'
```

Response

```
{
  "result": "success"
}
```

1.25.7 Responding to a Pending Access Request

Request

Method	POST
Path	/api/v2/access_request/<access_request_id>/vote
Headers	Content-Type: Application/json
Body	AccessRequestVoteModel

Example Request

POST /api/v2/access_request/<id>/vote

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/access_request/5620492334958379011/vote' \
-d '{"accepted": true}'
```

Response


```
{
  "result": "success"
}
```

1.26 Access Request Reason Formats NEW

A reason format turns the free-text justification of an access request into a set of named fields the requester fills in. Formats are defined here and referenced by the `reason_format_id` attribute when an access request is created in the User Access Gateway.

1.26.1 Data Structures

Table 61: AccessRequestReasonFormatModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Reason format identifier. Uniqueness is required.
<code>name</code>	string	yes	Reason format name. Case-insensitive. Uniqueness is required.
<code>description</code>	string		Reason format description shown to the requester.
<code>fields</code>	object-array	yes	Fields the requester fills in. See the <code>ReasonFormatFieldModel</code> table. At least one field is required. Returned by GET on a single format only - the collection listing omits it.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

Table 62: ReasonFormatFieldModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Field identifier. Referenced by <code>field_id</code> in the <code>reason_fields</code> attribute of an access request.
<code>name</code>	string	yes	Field label shown to the requester.
<code>type</code>	string {text, number, constant}	yes	<code>text</code> and <code>number</code> are filled in by the requester; <code>constant</code> carries a fixed value supplied here.
<code>value</code>	string	If <code>type == constant</code>	Fixed value of a <code>constant</code> field. null for <code>text</code> and <code>number</code> fields.

Warning

PATCH replaces the whole format, including its fields, and the replaced fields are assigned **new identifiers**. Any access request that stored `field_id` values from the previous revision keeps

referring to the old ones. Read the format back after modifying it if you need the current field identifiers.

1.26.2 Retrieve Available Attributes of the *AccessRequestReasonFormatModel*

Request

Method	GET
Path	/api/v2/objspec/access_request_reason_format

GET /api/v2/objspec/access_request_reason_format

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/objspec/access_request_reason_format'
```

Note

The object specification does not list the `fields` attribute, but it is required when creating or modifying a format and is returned when a single format is read.

1.26.3 List Reason Formats

Request

Method	GET
Path	/api/v2/access_request_reason_format

GET /api/v2/access_request_reason_format

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/access_request_reason_format'
```

Response

```
{
  "result": "success",
  "access_request_reason_format": [
    {
      "id": "4638707616191610881",
      "name": "Incident handling",
      "description": "Reason format used for incident related requests.",
      "created_at": "2026-08-17 07:27:42.705608-07",
      "modified_at": "2026-08-17 07:27:42.705608-07"
```

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```

    },
    {
      "id": "4638707616191610882",
      "name": "Change window",
      "description": "Reason format used for planned maintenance requests.",
      "created_at": "2026-08-18 02:14:39.691012-07",
      "modified_at": "2026-08-18 02:14:39.691012-07"
    }
  ]
}

```

1.26.4 Get a Reason Format

Request

Method	GET
Path	/api/v2/access_request_reason_format/<id>

GET /api/v2/access_request_reason_format/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/access_request_reason_format/4638707616191610881'

```

Response

```

{
  "access_request_reason_format": {
    "id": "4638707616191610881",
    "name": "Incident handling",
    "description": "Reason format used for incident related requests.",
    "fields": [
      {
        "id": "4638707616191610881",
        "name": "Ticket number",
        "type": "text",
        "value": null
      },
      {
        "id": "4638707616191610882",
        "name": "Priority",
        "type": "number",
        "value": null
      },
      {
        "id": "4638707616191610883",

```

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```

        "name": "Source system",
        "type": "constant",
        "value": "Service Desk"
      }
    ],
    "created_at": "2026-08-17 07:27:42.705608-07",
    "modified_at": "2026-08-17 07:27:42.705608-07"
  },
  "result": "success"
}

```

1.26.5 Create a Reason Format

Request

Method	POST
Path	/api/v2/access_request_reason_format
Body	AccessRequestReasonFormatModel

POST /api/v2/access_request_reason_format

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"name":"Change window","description":"Reason format used for planned_
↪maintenance requests.","fields":[{"name":"Change number","type":"text"},{"name
↪":"Approved by","type":"text"},{"name":"Source system","type":"constant",
↪"value":"Change Manager"}]}' \
  'https://10.33.3.191/api/v2/access_request_reason_format'

```

Response

```

{
  "access_request_reason_format": {
    "id": "4638707616191610882"
  },
  "result": "success"
}

```

Note

Omitting fields, or sending an empty array, fails with {"result": "failure", "message": "At least one field is required."}.

1.26.6 Modify a Reason Format

Request

Method	PATCH
Path	/api/v2/access_request_reason_format/<id>
Body	AccessRequestReasonFormatModel

PATCH /api/v2/access_request_reason_format/<id>

The request body must carry the complete format - **name** and **fields** are required even when only the description changes. A body without them is rejected.

Example Request

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"name":"Change window","description":"Reason format used for planned_
↪change windows.","fields":[{"name":"Change number","type":"text"},{"name":
↪"Approved by","type":"text"},{"name":"Source system","type":"constant","value
↪":"Change Manager"}]}' \
  'https://10.33.3.191/api/v2/access_request_reason_format/4638707616191610882'
```

Response

```
{
  "result": "success"
}
```

1.26.7 Delete a Reason Format

Request

Method	DELETE
Path	/api/v2/access_request_reason_format/<id>

DELETE /api/v2/access_request_reason_format/<id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/access_request_reason_format/4638707616191610882'
```

Response

```
{
  "result": "success"
}
```

1.27 Password Vault

1.27.1 Collection Management

Overview

Collections are organizational containers for secrets in Fudo Enterprise's vault system. They provide hierarchical structure, permission management, and access control for secret storage. Collections support both organizational vaults and personal vaults, with comprehensive permission inheritance and granular access policies.

Data Structures

Table 63: CollectionModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret collection identifier.
name	string	yes	Collection name. Uniqueness is required in the combination with parent_id (case-insensitive).
parent_id	string		Parent collection identifier for hierarchical structure. Uniqueness is required in the combination with name .
owner_id	string		Read-only. Hidden. Protected. User ID of the personal vault owner.
inherit_permis	boolean		Inherit permissions from parent collection.
inheritance_ta	string		Read-only. ID of the collection that permissions are inherited from.
subcollections	number		Read-only. Number of direct child collections.
secrets_count	number		Read-only. Number of descendant secrets.
path_to_root_i	string-array		Read-only. Hidden. Ordered list of ancestor collection IDs.
path_to_root_n	string-array		Read-only. Hidden. Ordered list of ancestor collection names.
accessible_par	string		Read-only. Hidden. Accessible parent collection ID.
vault	string		Read-only. Hidden. Vault type (organization, personal).
contains_expos	boolean		Read-only. Indicates whether the collection contains secrets with exposure alerts.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *CollectionModel*

Request

Method	GET
Path	/api/v2/objspec/collection

To check allowed methods, available URL parameters and possible responses please refer to the *API Overview* section.

Note

Collections support hierarchical organization with parent-child relationships. Permission inheritance allows collections to automatically inherit access policies from parent collections.

List Collections

Request

Method	GET
Path	/api/v2/collection

GET /api/v2/collection

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.31.135.179/api/v2/collection'
```

Response

```
{  
  "result": "success",  
  "collection": [  
    {  
      "id": "8754997675608244225",  
      "name": "Development Team",  
      "inherit_permissions": false,  
      "inheritance_target_collection_id": "8754997675608244225",  
      "subcollections_count": 2,  
      "secrets_count": 2,  
      "contains_exposed_secrets": true,  
      "rights": [  
        "create",  
        "delete",  
        "modify",  
        "move",  
        "read"  
      ],  
    },  
  ],  
}
```

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```

    "created_at": "2026-03-25 01:46:50.823004-07",
    "modified_at": "2026-04-03 06:36:25.545952-07"
  }
]
}

```

Get Collection by ID

Request

Method	GET
Path	/api/v2/collection/<id>

GET /api/v2/collection/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/collection/8754997675608244225'

```

Response

```

{
  "result": "success",
  "collection": {
    "id": "8754997675608244225",
    "name": "Development Team",
    "inherit_permissions": false,
    "inheritance_target_collection_id": "8754997675608244225",
    "subcollections_count": 2,
    "secrets_count": 2,
    "contains_exposed_secrets": true,
    "rights": [
      "create",
      "delete",
      "modify",
      "move",
      "read"
    ],
    "created_at": "2026-03-25 01:46:50.823004-07",
    "modified_at": "2026-04-03 06:36:25.545952-07"
  }
}

```


Create Collection

Request

Method	POST
Path	/api/v2/collection
Body	CollectionModel

POST /api/v2/collection

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
-H 'Content-Type: application/json' \  
-d '{  
  "name": "Database Credentials",  
  "parent_id": "8754997675608244225",  
  "inherit_permissions": true  
}' \  
'https://10.31.135.179/api/v2/collection'
```

Response

```
{  
  "result": "success",  
  "collection": [  
    {  
      "id": "8754997675608244228",  
      "name": "Database Credentials",  
      "parent_id": "8754997675608244225",  
      "inherit_permissions": true,  
      "inheritance_target_collection_id": "8754997675608244225",  
      "subcollections_count": 0,  
      "secrets_count": 0  
    }  
  ]  
}
```

Update Collection

Request

Method	PATCH
Path	/api/v2/collection/<id>
Body	CollectionModel

PATCH /api/v2/collection/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Database Credentials",
  "inherit_permissions": false
}' \
'https://10.31.135.179/api/v2/collection/8754997675608244228'
```

Response

```
{
  "result": "success",
  "collection": [
    {
      "id": "8754997675608244228",
      "name": "Database Credentials",
      "parent_id": "8754997675608244225",
      "inherit_permissions": false,
      "inheritance_target_collection_id": "8754997675608244228",
      "modified_at": "2026-04-17T14:45:00Z"
    }
  ]
}
```

Delete Collection

Request

Method	DELETE
Path	/api/v2/collection/<id>

DELETE /api/v2/collection/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/collection/8754997675608244228'
```

Response

```
{
  "result": "success"
}
```

Import Secrets to Collection

This endpoint imports secrets from a CSV file into a collection. The CSV file must be constructed according to the following rules:

- The first row is a *header row* containing names corresponding to the API fields names (refer to *API Documentation: Secrets*).
- The *header row* must include all fields that are required when manually creating a secret of specific type. Other fields are optional and can be left empty.
- A comma (,) has to be used as a field separator.

Example CSV file:

```
name,type,login,domain,secret,uri
login,login,admin,portal.example.com,SuperSecure123!,https://portal.example.com/
↪login
login2,login,db_admin,db.example.com,DbPassword2024,https://db.example.com/admin
note,note,,,Quarterly meeting notes: Q4 targets discussed.,
api_key,apikey,aws_service_account,api.aws.amazon.com,AKIAIOSFODNN7EXAMPLE,
↪https://api.aws.amazon.com
cert,certificate,,,,
ssh_key,sshkey,,,,
```

Note

SSH private keys and certificates are typically stored in multi-line PEM format. When importing them from a CSV file, enclose the entire value in double quotes (") so it is treated as a single CSV field.

Example CSV for a certificate secret:

```
name,type,login,domain,certificate,secret
"secret-1","certificate","","","-----BEGIN CERTIFICATE-----
MIID...EXAMPLE...DATA
-----END CERTIFICATE-----","-----BEGIN PRIVATE KEY-----
MIIE...EXAMPLE...DATA
-----END PRIVATE KEY-----"
```

Request

Method	POST
Path	/api/v2/collection/<id>/secret_import
Headers	Content-Type: multipart/form-data
Body	CSV file upload

POST /api/v2/collection/<id>/secret_import

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
-F 'file=@secrets.csv' \  
'https://10.31.135.179/api/v2/collection/8754997675608244225/secret_import'
```

Note

The CSV file should contain a header row with columns such as `name`, `type`, `login`, `password`, `url`, `notes`, etc.

Response

```
{  
  "result": "success",  
  "imported_count": 2,  
  "failed_count": 0,  
  "details": [  
    {  
      "name": "Database Admin",  
      "status": "imported",  
      "secret_id": "3260606130216239118"  
    },  
    {  
      "name": "API Key",  
      "status": "imported",  
      "secret_id": "3260606130216239119"  
    }  
  ]  
}
```

1.27.2 Collections Permissions

Data Structures

Table 64: CollectionPermissionModel

Attribute	Type	Required	Description
collection_id	string		Read-only. The collection ID. Uniqueness is required in the combination with <code>user_id</code> and <code>group_id</code> .
subject_type	string {user, group}	yes	Read-only. Type of permission subject.
subject_name	string	yes	Read-only. User or group name.
access_policy	string {view_on_request, view, edit_on_request, full_edit}	yes	Read-only. Access policy level.
user_id	string	If subject_type is 'user' == user	Read-only. User ID when subject_type is 'user'. Uniqueness is required in the combination with <code>collection_id</code> and <code>group_id</code> .
group_id	string	If subject_type is 'group' == group	Read-only. Group ID when subject_type is 'group'. Uniqueness is required in the combination with <code>collection_id</code> and <code>user_id</code> .
group_users_count	number	If subject_type is 'group' == group	Read-only. Hidden. Number of users in the group.
group_users_names	string	If subject_type is 'group' == group	Read-only. Hidden. Comma separated string of user names in the group (for filtering purposes).

Retrieve Available Attributes of the *CollectionPermissionModel*

Request

Method	GET
Path	/api/v2/objspec/collection_permission

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Collection Permissions

Request

Method	GET
Path	/api/v2/collection/<collection_id>/permission

GET /api/v2/collection/<collection_id>/permission

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.31.135.179/api/v2/collection/8754997675608244225/permission'
```

Response

```
{  
  "result": "success",  
  "collection_permission": [  
    {  
      "collection_id": "8754997675608244225",  
      "subject_type": "user",  
      "subject_name": "admin",  
      "access_policy": "view_on_request",  
      "user_id": "8754997675608244225"  
    },  
    {  
      "collection_id": "8754997675608244225",  
      "subject_type": "user",  
      "subject_name": "jdoe",  
      "access_policy": "view",  
      "user_id": "8754997675608244227"  
    }  
  ]  
}
```

1.27.3 User Collection Management

Overview

User collection management provides direct assignment of users to collections with specific access policies. This complements group-based access and allows for granular per-user collection permissions outside of role-based access control.

Data Structures

Table 65: UserCollectionModel

Attribute	Type	Required	Description
id	string		Read-only. User collection access identifier.
user_id	string	yes	Immutable. User identifier. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>collection_id</code> .
collection_id	string	yes	Immutable. Collection identifier. Uniqueness is required in the combination of attribute <code>collection_id</code> with attribute <code>user_id</code> .
access_policy	string {view_on_request, view, edit_on_request, full_edit}; Default value view_on_request	yes	Access policy level.
user_name	string		Read-only; expensive to use. User name.
collection_name	string		Read-only; expensive to use. Collection name.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserCollectionModel*

Request

Method	GET
Path	/api/v2/objspec/user_collection

GET /api/v2/objspec/user_collection

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/objspec/user_collection'
```

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

List User Collections

Request

Method	GET
Path	/api/v2/user/collection

GET /api/v2/user/collection

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/user/collection'
```

Response

```
{
  "result": "success",
  "user_collection": [
    {
      "id": "8754997675608244225",
      "user_id": "8754997675608244225",
      "collection_id": "8754997675608244225",
      "access_policy": "view_on_request",
      "user_name": "admin",
      "collection_name": "Development Team",
      "created_at": "2026-03-25T02:02:41Z"
    }
  ]
}
```

Create User Collection Assignment

Request

Method	POST
Path	/api/v2/user/collection
Body	UserCollectionModel

POST /api/v2/user/collection

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "user_id": "8754997675608244227",
  "collection_id": "8754997675608244225",
  "access_policy": "edit_on_request"
}'
```

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```
}' \
'https://10.31.135.179/api/v2/user/collection'
```

Response

```
{
  "result": "success",
  "user_collection": [
    {
      "id": "8754997675608244230",
      "user_id": "8754997675608244227",
      "collection_id": "8754997675608244225",
      "access_policy": "edit_on_request",
      "user_name": "jdoe",
      "collection_name": "Development Team"
    }
  ]
}
```

Update User Collection Assignment

Request

Method	PATCH
Path	/api/v2/user/<user_id>/collection/<collection_id>
Body	UserCollectionModel

PATCH /api/v2/user/<user_id>/collection/<collection_id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "access_policy": "full_edit"
}' \
'https://10.31.135.179/api/v2/user/8754997675608244227/collection/
↪8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

Remove User Collection Assignment

Request

Method	DELETE
Path	/api/v2/user/<user_id>/collection/<collection_id>

DELETE /api/v2/user/<user_id>/collection/<collection_id>

Example Request

```
curl -s -k -X DELETE \  
  -H 'Authorization: <token>' \  
  'https://10.31.135.179/api/v2/user/8754997675608244227/collection/  
  ↪8754997675608244225'
```

Response

```
{  
  "result": "success"  
}
```

Note

User collection management provides:

- **Direct user assignments:** Bypass group membership for specific collection access
- **Flexible access policies:** Four levels from view-on-request to full-edit
- **Individual control:** Per-user customization of collection access
- **Audit capabilities:** Track direct user-to-collection relationships

Warning

Access policy levels:

- **view_on_request:** Users must request access to view secrets
- **view:** Users can view secrets without approval
- **edit_on_request:** Users must request access to modify secrets
- **full_edit:** Users can modify secrets without approval

User collection assignments complement but do not override group-based permissions or role capabilities.

1.27.4 Assigning Collections to Groups

Overview

Collections are organizational containers for secrets in Fudo Enterprise's vault system. They provide hierarchical structure, permission management, and access control for secret storage. Collections support both organizational vaults and personal vaults, with comprehensive permission inheritance and granular access policies.

Data Structures

Table 66: GroupCollectionModel

Attribute	Type	Required	Description
id	string		Read-only. Unique group collection access identifier.
group_id	string	yes	Immutable. Group identifier. Uniqueness is required in the combination of attribute <code>group_id</code> with attribute <code>collection_id</code> .
collection_id	string	yes	Immutable. Collection identifier. Uniqueness is required in the combination of attribute <code>collection_id</code> with attribute <code>group_id</code> .
access_policy	string {view_on_request, view, edit_on_request, full_edit}; Default value view_on_request	yes	Access policy level.
group_name	string		Read-only; expensive to use. Group name.
collection_name	string		Read-only; expensive to use. Collection name.
group_users	object-array		Read-only; expensive to use. Users assigned to the group.
created_at	datetime		Read-only. Object creation time.
modified_at	datetime		Read-only. Object last modification time.
removed	boolean		Read-only. Is the object removed?

Retrieve Available Attributes of the *GroupCollectionModel*

Request

Method	GET
Path	/api/v2/objspec/group_collection

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

List Group Collections

Request

Method	GET
Path	/api/v2/group/collection

GET /api/v2/group/collection

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.31.135.179/api/v2/group/collection'
```

Response

```
{  
  "result": "success",  
  "group_collection": [  
    {  
      "id": "8754997675608244226",  
      "group_id": "8754997675608244225",  
      "collection_id": "8754997675608244225",  
      "access_policy": "view",  
      "group_name": "DevTeam",  
      "collection_name": "Development Team"  
    }  
  ]  
}
```

Assign Group to Collection

Request

Method	POST
Path	/api/v2/group/collection
Body	GroupCollectionModel

POST /api/v2/group/collection

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
-H 'Content-Type: application/json' \  
-d '{  
  "group_id": "8754997675608244225",  
  "collection_id": "8754997675608244225",  
  "access_policy": "edit_on_request"  
}'
```

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```
}' \
'https://10.31.135.179/api/v2/group/collection'
```

Response

```
{
  "result": "success",
  "group_collection": [
    {
      "id": "8754997675608244227",
      "group_id": "8754997675608244225",
      "collection_id": "8754997675608244225",
      "access_policy": "edit_on_request"
    }
  ]
}
```

Update Group Collection Access

Request

Method	PATCH
Path	/api/v2/group/<group_id>/collection/<collection_id>
Body	GroupCollectionModel

PATCH /api/v2/group/<group_id>/collection/<collection_id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "access_policy": "full_edit"
}' \
'https://10.31.135.179/api/v2/group/8754997675608244225/collection/
↪8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

Remove Group from Collection

Request

Method	DELETE
Path	/api/v2/group/<group_id>/collection/<collection_id>

DELETE /api/v2/group/<group_id>/collection/<collection_id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/group/8754997675608244225/collection/
  ↪8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

1.27.5 Collection Notifications

Overview

Collection notification management allows you to configure which users receive notifications for events related to specific collections. This provides targeted alerting for collection-specific activities such as secret access, modifications, or security events.

Data Structures

Table 67: CollectionNotificationUserModel

Attribute	Type	Required	Description
collection_id	string		Read-only. Unique collection identifier.
user_id	string		Read-only. Unique user identifier.
user_name	string		Read-only. Username for notification recipient.
user_domain	string		Read-only. User domain.
user_email	string		Read-only. User email address.
email_notifica	boolean		Read-only. Whether email notifications are enabled.
push_notificat	boolean		Read-only. Whether push notifications are enabled.

Retrieve Available Attributes of the *CollectionNotificationUsersModel*

Request

Method	GET
Path	/api/v2/objspec/collection_notification_user

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Collection Notification Users

Request

Method	GET
Path	/api/v2/collection/<collection_id>/notification_user

GET /api/v2/collection/<collection_id>/notification_user

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/collection/8754997675608244225/notification_user
↪ '
```

Response

```
{
  "result": "success",
  "collection_notification_user": [
    {
      "collection_id": "8754997675608244225",
      "user_id": "8754997675608244225",
      "user_name": "admin",
      "email_notifications": false,
      "push_notifications": false
    },
    {
      "collection_id": "8754997675608244225",
      "user_id": "8754997675608244226",
      "user_name": "remoteapp",
      "email_notifications": false,
      "push_notifications": false
    }
  ]
}
```

1.27.6 Collection Access

Data Structures

Table 68: CollectionAccessModel

Attribute	Type	Required	Description
subject_id	string		Read-only. Subject identifier. Uniqueness is required in the combination of attribute <code>subject_id</code> with attribute <code>object_id</code> .
subject_name	string		Read-only; expensive to use. Subject name.
object_id	string		Read-only. Object identifier. Uniqueness is required in the combination of attribute <code>object_id</code> with attribute <code>subject_id</code> .
object_name	string		Read-only; expensive to use. Object name.
rights	string-array		Read-only. List of access rights.
builtin	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

Retrieve Available Attributes of the *CollectionAccessModel*

Request

Method	GET
Path	/api/v2/objspec/collection_access

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

List Collection Access

Request

Method	GET
Path	/api/v2/access/collection

GET /api/v2/access/collection

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/access/collection'
```

Response


```
{
  "result": "success",
  "collection_access": [
    {
      "subject_id": "8754997675608244225",
      "subject_name": "admin",
      "object_id": "8754997675608244225",
      "object_name": "Development Team",
      "rights": [
        "read",
        "modify",
        "delete",
        "move",
        "create"
      ],
      "builtin": false,
      "hidden": false
    }
  ]
}
```

Get Specific Collection Access

Request

Method	GET
Path	/api/v2/access/<subject_id>/collection/<object_id>

GET /api/v2/access/<subject_id>/collection/<object_id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/access/8754997675608244225/collection/
  ↪8754997675608244225'
```

Response

```
{
  "result": "success",
  "collection_access": {
    "subject_id": "8754997675608244225",
    "subject_name": "admin",
    "object_id": "8754997675608244225",
    "object_name": "Development Team",
    "rights": [
      "read",
      "modify",
      "delete",
```

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```

        "move",
        "create"
    ],
    "builtin": false,
    "hidden": false
}
}

```

1.27.7 Secret Management

Overview

Secrets are encrypted data items stored in collections within Fudo Enterprise's vault system. They support various types including login credentials, SSH keys, API keys, certificates, and secure notes. Secrets provide comprehensive access tracking, automatic secret changing, and exposure monitoring.

Data Structures

Table 69: SecretModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret identifier.
name	string	yes	Secret name. Case-insensitive. Uniqueness is not required - a collection can hold several secrets with the same name.
collection_id	string	yes	Parent collection identifier.
owner_id	string		Read-only. Hidden. Protected; expensive to use. User ID of the personal vault owner.
collection_name	string		Read-only. Hidden; expensive to use. Collection name.
type	string {login, sshkey, note, apikey, certificate}	yes	Immutable. Secret type.
description	string		Not encrypted secret description.
login	string	If type == login sshkey apikey	Username (for login, sshkey, apikey types).
domain	string	If type == login sshkey apikey	Domain (for login, sshkey, apikey types).

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Table 69 – continued from previous page

Attribute	Type	Required	Description
certificate	string	If type == certificate	X.509 certificate (for certificate type).
x509_pubkey_fingerprint_s	string		Read-only; expensive to use. Public key SHA256 fingerprint derived from certificate.
secret	string		Protected. Encrypted secret (password, private key, etc).
secret_passphr	string	If type == certificate sshkey	Protected. Passphrase to use to decrypt SSH private key.
has_secret	boolean		Read-only; expensive to use. Indicates whether a secret value is set.
ssh_public_key	string		Read-only; expensive to use. SSH public key derived from private key.
ssh_fingerprin_sha256	string		Read-only; expensive to use. SSH key SHA256 fingerprint derived from private key.
key_pubkey_fingerprint_s	string		Read-only; expensive to use. TLS key SHA256 fingerprint derived from private key.
path_to_root_i	string-array		Read-only. Hidden; expensive to use. Ordered list of ancestor collection IDs, starting with the root collection.
path_to_root_n	string-array		Read-only. Hidden; expensive to use. Ordered list of ancestor collection names, starting with the root collection.
policy_complia	boolean		Read-only. Hidden; expensive to use. Indicates whether the secret conforms to global vault configuration requirements.
policy_complia_partial	boolean	If type == login	Read-only. Hidden. Protected.

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Table 69 – continued from previous page

Attribute	Type	Required	Description
compromised	boolean	Read-only. Hidden; expensive to use. Indicates whether the secret is known to be compromised.	
vault	string		Read-only. Hidden; expensive to use. Vault type (organization, personal).
secret_seen	boolean	yes	Read-only; expensive to use. Indicates whether anyone has viewed the current secret version.
secret_exposed	boolean	yes	Read-only; expensive to use. Indicates whether the secret has exposure alerts (users who viewed it and lost access).
secret_exposed_user_count	number	yes	Read-only; expensive to use. Number of users who viewed the current secret version but lost access to it.
has_changer	boolean		Read-only; expensive to use. Indicates whether the secret has secret changer assigned.
password_chang_awaiting	boolean		Read-only; expensive to use. Indicates whether the assigned secret changer was triggered manually and is awaiting execution.
checkout_exclu	boolean		Whether the secret uses exclusive checkout; Default value false .
checkout_time_	number	If checkout_exclusiv == true	Time limit for checking out the secret in seconds.
last_change_at	datetime		Read-only. Hidden. Last successful secret change.
last_verificat	datetime		Read-only. Hidden. Last successful password verification.
checked_out_by_users_ids	string-array		Read-only. Hidden; expensive to use. List of user IDs who currently have an active checkout of the secret.
rights	string-array		Read-only. List of rights the subject has to this object.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.

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Table 69 – continued from previous page

Attribute	Type	Required	Description
removed	boolean		Read-only.

Retrieve Available Attributes of the *SecretModel*

Request

Method	GET
Path	/api/v2/objspec/secret

GET /api/v2/objspec/secret

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/objspec/secret'
```

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Note

Secret types available:

- **login:** Username/password credentials
- **sshkey:** SSH private/public key pairs
- **note:** Secure text notes
- **apikey:** API tokens and keys
- **certificate:** X.509 certificates with private keys

List Secrets

Request

Method	GET
Path	/api/v2/secret

GET /api/v2/secret

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret'
```

Response

```
{
  "result": "success",
  "secret": [
    {
      "id": "8754997675608244226",
      "name": "Dev Database Admin",
      "collection_id": "8754997675608244225",
      "type": "sshkey",
      "login": "Admin",
      "has_secret": true,
      "secret_seen": true,
      "secret_exposed": true,
      "secret_exposed_user_count": 1,
      "has_changer": false,
      "password_changer_awaiting": false,
      "checkout_exclusive": false,
      "created_at": "2026-04-01T01:27:09Z",
      "modified_at": "2026-04-01T01:27:09Z",
      "ssh_public_key": "ssh-ed25519
↪AAAAC3NzaC1lZDI1NTE5AAAAID1MLtN5D1WX5Vkur1IrMA2oZpDuNMCLInwwAYHfT1SX",
      "ssh_fingerprint_sha256": "SHA256:6P7SXlQju7HD6tStTgINCYbmXYW/
↪3anjf3lV/DyQxu4"
    }
  ]
}
```

Get Secret by ID

Request

Method	GET
Path	/api/v2/secret/<id>

GET /api/v2/secret/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244226'
```

Response

```
{
  "result": "success",
  "secret": {
    "id": "8754997675608244226",
    "name": "Dev Database Admin",
    "collection_id": "8754997675608244225",
    "type": "sshkey",
```

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```

    "login": "Admin",
    "has_secret": true,
    "secret_seen": true,
    "secret_exposed": true,
    "secret_exposed_user_count": 1,
    "has_changer": false,
    "password_changer_awaiting": false,
    "checkout_exclusive": false,
    "created_at": "2026-04-01T01:27:09Z",
    "modified_at": "2026-04-01T01:27:09Z",
    "ssh_public_key": "ssh-ed25519
↪AAAAC3NzaC1lZDI1NTE5AAAAID1MLtN5D1WX5Vkur1IrMA2oZpDuNMCLInwAYHfT1SX",
    "ssh_fingerprint_sha256": "SHA256:6P7SX1Qju7HD6tStTgINCYbmXYW/3anjf31V/
↪DyQxu4"
  }
}

```

Create Secret

Request

Method	POST
Path	/api/v2/secret
Body	SecretModel

POST /api/v2/secret

Example Request

```

curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Staging Database",
  "collection_id": "8754997675608244225",
  "type": "login",
  "description": "Staging environment database",
  "login": "staging_user",
  "domain": "staging.example.com",
  "secret": "StrongPassword123!"
}' \
'https://10.31.135.179/api/v2/secret'

```

Response

```

{
  "result": "success",
  "secret": [
    {

```

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```

        "id": "8754997675608244226",
        "name": "Staging Database",
        "collection_id": "8754997675608244225",
        "type": "login",
        "created_at": "2026-04-17T15:00:00Z"
      }
    ]
  }
}

```

Update Secret

Request

Method	PATCH
Path	/api/v2/secret/<id>
Body	SecretModel

PATCH /api/v2/secret/<id>

Example Request

```

curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "description": "Updated staging database credentials",
  "secret": "NewStrongPassword456!"
}' \
'https://10.31.135.179/api/v2/secret/8754997675608244226'

```

Response

```

{
  "result": "success",
  "secret": [
    {
      "id": "8754997675608244226",
      "modified_at": "2026-04-17T15:30:00Z"
    }
  ]
}

```

Delete Secret

Request

Method	DELETE
Path	/api/v2/secret/<id>

DELETE /api/v2/secret/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244226'
```

Response

```
{
  "result": "success"
}
```

See also

Related API documentation:

- [Secret Access Management](#) - Managing secret access and checkout
- [Secret Exposure Monitoring](#) - Monitoring secret exposure
- [Secret Changer Management](#) - Automatic password rotation
- [Secret URI Management](#) - Managing secret URIs

Warning

Security considerations for secret management:

- Secret values are encrypted and protected in transit and at rest
- Access is logged and monitored for compliance and security auditing
- Use appropriate secret types for different kinds of sensitive data

1.27.8 Secret Changer Management

Overview

Secret changer management allows automatic rotation of secret passwords based on configured policies. Secret changers can be assigned to secrets to periodically update credentials on target systems, ensuring compliance with security policies and reducing the risk of compromised credentials.

Data Structures

Table 70: SecretPasswordChangerModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret secret changer assignment identifier.
secret_id	string	yes	Immutable. Secret identifier. Uniqueness is required in the combination of attribute secret_id with attribute password_changer_id .
secret_name	string		Read-only; expensive to use.
password_chang	string		Immutable. Password changer identifier. Uniqueness is required in the combination of attribute password_changer_id with attribute secret_id .
password_chang	string	yes	Read-only; expensive to use. Password changer name.
password_chang	string {change, verify}	yes	Read-only; expensive to use. Password changer type. Only single verify can be assigned to the secret.
password_chang	string {LDAP, SSH, Telnet, WinRM}	yes	Read-only; expensive to use. Transport layer for secret changer.
collection_id	string	yes	Read-only; expensive to use. Collection identifier.
collection_name	string		Read-only; expensive to use. Collection name.
position	number	If password_change	Execution order of secret changers. Uniqueness is required in the combination of attribute position with attribute secret_id .
policy_compliance	boolean		Read-only. Hidden; expensive to use. Indicates whether the secret conforms to global vault configuration requirements.
created_at	datetime		Read-only. Record creation timestamp.
modified_at	datetime		Read-only. Record modification timestamp.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SecretPasswordChangerModel*

Request

Method	GET
Path	/api/v2/objspec/secret_password_changer

GET /api/v2/objspec/secret_password_changer

Note

This endpoint may not be available if `secret_password_changer` doesn't have a separate object specification.

List Secret Secret Changers

Request

Method	GET
Path	/api/v2/secret/password_changer

GET /api/v2/secret/password_changer

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/password_changer'
```

Response

```
{
  "result": "success",
  "secret_password_changer": [
    {
      "id": "8754997675608244225",
      "secret_id": "8754997675608244226",
      "secret_name": "Dev Database Admin",
      "password_changer_id": "8754997675608244235",
      "password_changer_name": "ver",
      "password_changer_type": "verify",
      "password_changer_transport": "SSH",
      "collection_id": "8754997675608244225",
      "collection_name": "Development Team",
      "created_at": "2026-04-03T04:36:24Z",
      "modified_at": "2026-04-03T04:36:24Z"
    }
  ]
}
```

Get Secret Changers for Secret

Request

Method	GET
Path	/api/v2/secret/<secret_id>/password_changer

GET /api/v2/secret/<secret_id>/password_changer

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244225/password_changer'
```

Response

```
{
  "result": "success",
  "secret_password_changer": [
    {
      "id": "8754997675608244225",
      "secret_id": "8754997675608244225",
      "password_changer_id": "8754997675608244226",
      "password_changer_name": "Windows AD Changer",
      "password_changer_type": "change",
      "position": 1
    }
  ]
}
```

Assign Secret Changer to Secret

Request

Method	POST
Path	/api/v2/secret/<secret_id>/password_changer
Body	SecretPasswordChangerModel

POST /api/v2/secret/<secret_id>/password_changer

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "password_changer_id": "8754997675608244227",
  "position": 2
}' \
'https://10.31.135.179/api/v2/secret/8754997675608244225/password_changer'
```

Response

```
{
  "result": "success",
  "secret_password_changer": [
    {
      "id": "8754997675608244228",
      "secret_id": "8754997675608244225",
      "password_changer_id": "8754997675608244227",
```

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```

        "position": 2
      }
    ]
  }

```

Trigger Password Change

Request

Method	POST
Path	/api/v2/secret/<id>/trigger_password_changer

POST /api/v2/secret/<id>/trigger_password_changer

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/secret/8754997675608244225/trigger_password_
↪changer'

```

Response

```

{
  "result": "success",
  "message": "Password change initiated",
  "job_id": "8754997675608244229"
}

```

Update Secret Secret Changer

Request

Method	PATCH
Path	/api/v2/secret/<secret_id>/password_changer/<password_changer_id>
Body	SecretPasswordChangerModel

PATCH /api/v2/secret/<secret_id>/password_changer/<password_changer_id>

Example Request

```

curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{
    "position": 3
  }' \
  'https://10.31.135.179/api/v2/secret/8754997675608244225/password_changer/
↪8754997675608244226'

```

Response

```
{
  "result": "success"
}
```

Remove Secret Changer from Secret

Request

Method	DELETE
Path	/api/v2/secret/<secret_id>/password_changer/<password_changer_id>

DELETE /api/v2/secret/<secret_id>/password_changer/<password_changer_id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.31.135.179/api/v2/secret/8754997675608244225/password_changer/
↪8754997675608244226'
```

Response

```
{
  "result": "success"
}
```

Note

Password changer features:

- **Automatic rotation:** Passwords are changed based on configured schedules and policies
- **Multiple changers:** Secrets can have multiple secret changers for different systems
- **Execution order:** Use the position parameter to control the order of execution
- **Policy compliance:** Track whether passwords meet security policy requirements

Warning

Important considerations:

- Password changes are asynchronous operations that may take time to complete
- Failed password changes will be logged and may require manual intervention
- Always test secret changers in non-production environments first
- Ensure proper rollback procedures are in place before enabling automatic rotation

1.27.9 Secret Access Management

Overview

Secret access management tracks and controls who accesses secrets in collections. It provides audit trails, exclusive checkout capabilities, time-based access control, and the ability to mark accesses as safe for exposure monitoring.

Data Structures

Table 71: SecretAccessModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret access identifier.
user_id	string	yes	Read-only. User identifier.
secret_id	string	yes	Read-only. Secret identifier.
secret_name	string		Read-only. Hidden; expensive to use. Secret name.
secret_removed	boolean		Read-only; expensive to use. Indicates whether the secret has been removed.
secret_history	string	yes	Read-only. Secret value version identifier.
collection_id	string	yes	Read-only; expensive to use. Collection identifier.
collection_name	string		Read-only. Hidden; expensive to use. Collection name.
collection_removed	boolean		Read-only; expensive to use. Indicates whether the collection has been removed.
source_ip	string		Read-only. Client IP address at checkout time.
source_port	number		Read-only. Client port at checkout time.
accessed_at	datetime	yes	Read-only. When the checkout started.
checked_in_at	datetime		Read-only. When user checked in.
expires_at	datetime		Read-only. When access was set to expire. Uses secret checkout_time_limit attribute.
exclusive	boolean	yes	Read-only. Whether this was an exclusive checkout that locks the secret. Uses secret checkout_exclusive attribute.
forced	boolean	yes	Read-only. Whether user forced checkout while another user had exclusive access.
user_name	string		Read-only; expensive to use. User name.
active	boolean	yes	Read-only; expensive to use. Whether the checkout is still active and can be checkin.
marked_safe	boolean		Read-only; expensive to use. Whether the this access was marked as safe.
marked_safe_by	string		Read-only. User ID who marked this access as safe.
marked_safe_by_name	string		Read-only; expensive to use. Name of the user who marked this access as safe.
marked_safe_at	datetime		Read-only. Timestamp when access was marked as safe.

1.27 Password Vault

user_blocked	boolean		Read-only; expensive to use. Indicates whether the user who accessed the secret is blocked.
user_removed	boolean		Read-only; expensive to use. Indicates whether the user who accessed the secret has been removed.

Retrieve Available Attributes of the *SecretAccessModel*

Request

Method	GET
Path	/api/v2/objspec/secret_access

GET /api/v2/objspec/secret_access

Note

This endpoint may not be available if secret_access doesn't have a separate object specification.

List Secret Access Records

Request

Method	GET
Path	/api/v2/secret/access

GET /api/v2/secret/access

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/access'
```

Response

```
{
  "result": "success",
  "secret_access": [
    {
      "id": "1",
      "user_id": "8754997675608244225",
      "secret_id": "8754997675608244229",
      "secret_removed": false,
      "secret_history_id": "8754997675608244228",
      "collection_id": "8754997675608244227",
      "collection_removed": false,
      "source_ip": "10.2.0.182",
      "source_port": 55033,
      "accessed_at": "2026-04-02T23:56:21Z",
      "checked_in_at": "2026-04-02T23:56:21Z",
      "exclusive": false,
      "forced": false,
      "user_name": "admin",
      "active": false,

```

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```

        "marked_safe": false,
        "user_blocked": false,
        "user_removed": false,
        "user_lost_access": false
    }
]
}

```

Get Secret Access for Specific Secret

Request

Method	GET
Path	/api/v2/secret/<secret_id>/access

GET /api/v2/secret/<secret_id>/access

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244229/access'

```

Response

```

{
  "result": "success",
  "secret_access": [
    {
      "id": "1",
      "user_id": "8754997675608244225",
      "secret_id": "8754997675608244229",
      "secret_removed": false,
      "secret_history_id": "8754997675608244228",
      "collection_id": "8754997675608244227",
      "source_ip": "10.2.0.182",
      "source_port": 55033,
      "accessed_at": "2026-04-02T23:56:21Z",
      "checked_in_at": "2026-04-02T23:56:21Z",
      "exclusive": false,
      "forced": false,
      "user_name": "admin",
      "active": false,
      "marked_safe": false,
      "user_blocked": false,
      "user_removed": false,
      "user_lost_access": false
    }
  ]
}

```

Check In Secret Access

Request

Method	POST
Path	/api/v2/secret/access/<access_id>/checkin

POST /api/v2/secret/access/<access_id>/checkin

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: <token>' \  
  'https://10.31.135.179/api/v2/secret/access/1/checkin'
```

Response

```
{  
  "result": "success",  
  "secret_access": [  
    {  
      "id": "1",  
      "checked_in_at": "2026-04-02T23:56:21Z",  
      "active": false  
    }  
  ]  
}
```

Mark Secret as Safe

Request

Method	POST
Path	/api/v2/secret/<secret_id>/mark_safe

POST /api/v2/secret/<secret_id>/mark_safe

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: <token>' \  
  'https://10.31.135.179/api/v2/secret/8754997675608244229/mark_safe'
```

Response

```
{  
  "result": "success"  
}
```

Note

The `mark_safe` endpoint is used to mark a secret as safe after it has been reviewed for potential exposure. This updates the secret's exposure status and clears any exposure alerts.

1.27.10 Secret Exposure Monitoring

Overview

Secret exposure monitoring tracks users who have accessed secrets but subsequently lost permissions to those secrets. This helps identify potential security risks when former authorized users may still have knowledge of secret values.

Data Structures

Table 72: `SecretExposureModel`

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Unique identifier of the secret access.
<code>secret_id</code>	string		Read-only. Unique identifier of the secret that was exposed.
<code>user_id</code>	string		Read-only. Unique identifier of the user who previously accessed the secret.
<code>user_name</code>	string		Read-only; expensive to use. Display name of the user who previously accessed the secret.
<code>collection_id</code>	string		Read-only. Unique identifier of the collection that the secret belongs to.
<code>reason</code>	string { <code>user_blocked</code> , <code>user_removed</code> , <code>user_lost_access</code> }		Read-only. The security event that triggered this exposure alert.
<code>last_access_at</code>	datetime		Read-only. Timestamp of the user's most recent access to this secret before the security event.
<code>created_at</code>	datetime		Read-only. Timestamp when this exposure alert was created.
<code>modified_at</code>	datetime		Read-only. Timestamp when this exposure record was last updated.
<code>removed</code>	boolean		Read-only.

Retrieve Available Attributes of the *SecretExposureModel*

Request

Method	GET
Path	<code>/api/v2/objspec/secret_exposure</code>

GET `/api/v2/objspec/secret_exposure`

Note

This endpoint may not be available if secret_exposure doesn't have a separate object specification.

Get Secret User Exposure

Request

Method	GET
Path	/api/v2/secret/<secret_id>/user_exposure

GET /api/v2/secret/<secret_id>/user_exposure

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244226/user_exposure'
```

Response

```
{
  "result": "success",
  "secret_exposure": [
    {
      "id": "41",
      "secret_id": "8754997675608244226",
      "user_id": "8754997675608244227",
      "user_name": "jdoe",
      "collection_id": "8754997675608244225",
      "reason": "user_blocked",
      "last_access_at": "2026-04-14T05:07:55Z",
      "created_at": "2026-04-14T05:07:55Z",
      "modified_at": "2026-04-14T05:07:55Z"
    }
  ]
}
```

1.27.11 Secret URI Management**Overview**

Secret URI management allows associating secrets with specific URIs (URLs, connection strings, etc.). This enables linking credentials to their target applications, APIs, or services for automated authentication and access control.

Data Structures

Table 73: SecretUriModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret URI identifier.
secret_id	string	yes	Immutable. Secret identifier.
secret_name	string		Read-only. Hidden; expensive to use.
collection_id	string		Read-only. Hidden; expensive to use.
uri	string	yes	URL/connection string assigned to the secret.
host	string		Read-only. Hidden. Host extracted from the provided uri.
port	number		Read-only. Hidden. Port extracted from the provided uri.
vault	string		Read-only. Hidden; expensive to use. Vault type (organization, personal).
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SecretUriModel*

Request

Method	GET
Path	/api/v2/objspec/secret_uri

GET /api/v2/objspec/secret_uri

Note

This endpoint may not be available if secret_uri doesn't have a separate object specification.

List Secret URIs

Request

Method	GET
Path	/api/v2/secret/uri

GET /api/v2/secret/uri

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/uri'
```

Response

```
{
  "result": "success",
  "secret_uri": [
    {
      "id": "8754997675608244225",
      "secret_id": "8754997675608244225",
      "uri": "https://api.example.com/v1",
      "host": "api.example.com",
      "port": 443,
      "created_at": "2026-04-17T10:00:00Z"
    }
  ]
}
```

Get Secret URIs for Specific Secret

Request

Method	GET
Path	/api/v2/secret/<secret_id>/uri

GET /api/v2/secret/<secret_id>/uri

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244225/uri'
```

Response

```
{
  "result": "success",
  "secret_uri": [
    {
      "id": "8754997675608244229",
      "secret_id": "8754997675608244226",
      "uri": "https://database.example.com/api",
      "created_at": "2026-04-17T05:01:14Z",
      "modified_at": "2026-04-17T05:01:14Z"
    }
  ]
}
```

Add URI to Secret

Request

Method	POST
Path	/api/v2/secret/<secret_id>/uri
Body	SecretUriModel

POST /api/v2/secret/<secret_id>/uri

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "uri": "https://backup-api.example.com/v2"  
  }' \  
  'https://10.31.135.179/api/v2/secret/8754997675608244225/uri'
```

Response

```
{  
  "result": "success",  
  "secret_uri": [  
    {  
      "id": "8754997675608244226",  
      "secret_id": "8754997675608244225",  
      "uri": "https://backup-api.example.com/v2",  
      "host": "backup-api.example.com",  
      "port": 443  
    }  
  ]  
}
```

Update Secret URI

Request

Method	PATCH
Path	/api/v2/secret/<secret_id>/uri/<id>
Body	SecretUriModel

PATCH /api/v2/secret/<secret_id>/uri/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "uri": "https://new-api.example.com/v3"  
  }' \  
  '
```

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```
'https://10.31.135.179/api/v2/secret/8754997675608244225/uri/
↳8754997675608244226'
```

Response

```
{
  "result": "success"
}
```

Delete Secret URI

Request

Method	DELETE
Path	/api/v2/secret/<secret_id>/uri/<id>

DELETE /api/v2/secret/<secret_id>/uri/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/secret/8754997675608244225/uri/
↳8754997675608244226'
```

Response

```
{
  "result": "success"
}
```

1.28 Secret Changers

Secret changers manage credentials for privileged accounts on monitored servers. They operate on various transport layers: SSH, LDAP, Telnet, or WinRM. You can use built-in options or create custom scripts.

1.28.1 Data Structures

Table 74: PasswordChangerModel

Attribute	Type	Required	Description
id	string		Read-only. Password change identifier. Uniqueness is required.
type	string {change, verify, remoteapp}	yes	Password changer type.

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Table 74 – continued from previous page

Attribute	Type	Required	Description
name	string	yes	Password changer name. Case-insensitive. Uniqueness is required.
target	string {account, secret, secret-login, secret-sshkey}; Default value account	yes	Immutable. Password changer target.
transport	string {LDAP, SSH, Telnet, WinRM}	if type == change verify	Transport layer for secret changer.
timeout	number {0 - 2147483647}	if type == change verify	Script's execution time limit expressed in seconds.
remote_app_pat	string	if type == remoteapp	Read-only; expensive to use. Binary path for remote app.
remote_app_arg	string	if type == remoteapp	Read-only; expensive to use. Binary arguments for remote app.
builtin	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
password_chang	string	if target == secret	Secret Change Policy id.
change_on_chec	boolean		If set, password will be changed after last password checkin. Requires target == secret .
change_on_sess	boolean		If set, password will be changed after session finishes. Requires target == secret .
recovery	boolean		Waiting for secret change after triggered. Requires target == secret .
removed	boolean		Read-only.

1.28.2 Retrieve Available Attributes of the *PasswordChangerModel*

Request

Method	GET
Path	/api/v2/objspec/password_changer

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.28.3 Get Secret Changers List

Request

Method	GET
Path	/api/v2/password_changer`

Example Request

GET /api/v2/password_changer`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/password_changer'
```

Response

```
{  
  "result": "success",  
  "password_changer": [  
    {  
      "id": "1",  
      "type": "change",  
      "name": "Unix\\SSH changer",  
      "transport": "SSH",  
      "timeout": 300,  
      "builtin": true,  
      "hidden": false,  
      "created_at": "2024-06-10 05:59:22.99706-07",  
      "modified_at": "2024-06-10 05:59:22.99706-07"  
    },  
    {  
      "id": "2",  
      "type": "verify",  
      "name": "Unix\\SSH verifier",  
      "transport": "SSH",  
      "timeout": 300,  
      "builtin": true,  
      "hidden": false,  
      "created_at": "2024-06-10 05:59:22.997876-07",  
      "modified_at": "2024-06-10 05:59:22.997876-07"  
    }  
  ]  
}
```

1.28.4 Get Secret Changer by ID

Request

Method	GET
Path	/api/v2/password_changer/<id>

Example Request

GET /api/v2/password_changer/<id>

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/password_changer/1'
```

Response

```
{
  "password_changer": {
    "id": "1",
    "name": "Unix\SSH changer",
    "type": "change",
    "transport": "SSH",
    "timeout": 300,
    "variables": [
      {
        "name": "transport_bind_ip",
        "description": "An IP on Fudo interface that will be used as ↵
↵source address.",
        "object_type": "server",
        "object_property": "bind_ip",
        "encrypted": false,
        "optional": true,
        "transport": true,
        "value": {
          "value_type": "self"
        }
      },
      {
        "name": "transport_host",
        "description": "An address to which secret changer\verifier ↵
↵connects.",
        "object_type": "server",
        "object_property": "address",
        "encrypted": false,
        "optional": false,
        "transport": true,
        "value": {
          "value_type": "self"
        }
      }
    ]
  }
}
```

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```

    ],
    "commands": [
      {
        "type": "expected",
        "value": "Last login:",
        "description": null
      },
      {
        "type": "input",
        "value": "passwd %%account_login%%",
        "description": null
      }
    ],
    "builtin": true,
    "hidden": false,
    "created_at": "2024-06-10 05:59:22.99706-07",
    "modified_at": "2024-06-10 05:59:22.99706-07"
  },
  "result": "success"
}

```

1.28.5 Defining Secret Changer

Request

Method	POST
Path	/api/v2/password_changer
Headers	Content-Type: Application/json
Body	PasswordChangerModel

Example Request

POST /api/v2/password_changer`

```

curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/password_changer' \
  -d '{"name": "Password_Changer_WinRM", "type": "change", "transport": "WinRM",
  ↪ "timeout": 1000, "commands": [{"type": "input", "value": "net user \\"%%account_login
  ↪ %%\\" \\"%%new_secret_value%%\\""', "description": "Description text."}]}'

```

Response

```

{
  "password_changer": {
    "id": "9124292845052624933"
  },
  "result": "success"
}

```

1.28.6 Modify Secret Changer

Request

Method	PATCH
Path	/api/v2/password_changer/<id>
Headers	Content-Type: Application/json
Body	PasswordChangerModel

Example Request: Change Basic Properties

PATCH /api/v2/password_changer/<id>

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/password_changer/9124292845052624927' \
-d '{"type": "verify", "transport": "SSH", "timeout": 1000}'
```

Example Request: Modifying Commands

PATCH /api/v2/password_changer/<id>

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/password_changer/9124292845052624933' \
-d '{"commands": [{"type": "input", "value": "net user \\"%%account_login%%\\" \\"%
↪ %new_secret_value%%\\"", "description": "Description."}]}'
```

Example Request: Adding Variable

PATCH /api/v2/password_changer/<id>

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/password_changer/9124292845052624933' \
-d '{"variables": [{"name": "transport_bind_ip", "object_type": "server", "object_
↪ property": "name", "value": {"value_type": "self"}}]}'
```

Response

```
{
  "result": "success"
}
```

1.28.7 Triggering Password Change for the Account

Request

Method	POST
Path	/api/v2/account/<id>/trigger_password_changer

Example Request

POST /api/v2/account/<id>/trigger_password_changer`

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/account/9124292845052624908/trigger_password_
  ↪changer'
```

Response

```
{
  "result": "success"
}
```

1.28.8 Deleting Secret Changer

Request

Method	DELETE
Path	/api/v2/password_changer/<id>

Example Request

DELETE /api/v2/password_changer/<id>`

```
curl -s -k -X DELETE \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/password_changer/9124292845052624927'
```

Response

```
{
  "result": "success"
}
```

1.29 Secret Changer Policy

Secret Change Policy defines specifics of how frequently the password should be changed and password complexity requirements.

1.29.1 Data Structures

Table 75: PasswordPolicyModel

Attribute	Type	Required	Description
id	string		Read-only. Secret change policy identifier. Uniqueness is required.

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Table 75 – continued from previous page

Attribute	Type	Required	Description
name	string	yes	Secret change policy name. Case-insensitive. Uniqueness is required.
change_frequency	number {0 - 2147483647}	with complexity_length `` and ``ssh_keytype	Time in minutes after which password should be changed.
verification_frequency	number {0 - 2147483647}		Time in minutes after which password should be verified.
complexity_length	number {0 - 2147483647}		Total password length.
ssh_keytype	string {ed25519, ecdsa, rsa, rsa2048, rsa4096, rsa8192, ecdsa-sha2- nistp256, ecdsa-sha2- nistp384, ecdsa-sha2- nistp521}		SSH key algorithm. Case-insensitive. Default: ed25519.
password_changer_enabled	boolean		Read-only; expensive to use. Is secret changer enabled for this policy?
password_verifier_enabled	boolean		Read-only; expensive to use. Is Secret verifier enabled for this policy?
complexity_lowercase	number {0 - 2147483647}		Number of lower case characters in password. Requires complexity_length.
complexity_uppercase	number {0 - 2147483647}		Number of upper case characters in password. Requires complexity_length.
complexity_numeric	number {0 - 2147483647}		Number of numeric characters in password. Requires complexity_length.
complexity_nonalnum	number {0 - 2147483647}		Number of special characters in password. Requires complexity_length.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

continues on next page

Table 75 – continued from previous page

Attribute	Type	Required	Description
builtin	boolean		Read-only; expensive to use. Is object built-in? Built-in objects shouldn't be editable.
hidden	boolean		Read-only; expensive to use. Shall the object be hidden in UI?

1.29.2 Retrieve Available Attributes of the *PasswordPolicyModel*

Request

Method	GET
Path	/api/v2/objspec/password_change_policy

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.29.3 Get Secret Changer Policies List

Request

Method	GET
Path	/api/v2/password_change_policy

Example Request

GET /api/v2/password_change_policy`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/password_change_policy'
```

Response

```
{
  "result": "success",
  "password_change_policy": [
    {
      "id": "1",
      "name": "Static, without restrictions",
      "password_changer_enabled": false,
      "password_verifier_enabled": false,
      "created_at": "2024-06-10 05:59:22.994431-07",
      "modified_at": "2024-06-10 05:59:22.994431-07",
      "builtin": true,
      "hidden": false
    },
  ],
}
```

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```

    {
      "id": "9124292845052624897",
      "name": "Pass Changing Enabled",
      "change_frequency": 2,
      "complexity_length": 8,
      "password_changer_enabled": true,
      "password_verifier_enabled": false,
      "complexity_lowercase": 1,
      "ssh_keytype": "ed25519",
      "created_at": "2024-06-11 23:29:24.511416-07",
      "modified_at": "2024-06-12 02:16:38.410347-07",
      "builtin": false,
      "hidden": false
    }
  ]
}

```

1.29.4 Get Secret Change Policy by ID

Request

Method	GET
Path	/api/v2/password_change_policy/<id>

Example Request

GET /api/v2/password_change_policy/<id>

```

curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/password_change_policy/9124292845052624897'

```

Response

```

{
  "result": "success",
  "password_change_policy": {
    "id": "9124292845052624897",
    "name": "Pass Changing Enabled",
    "change_frequency": 2,
    "complexity_length": 8,
    "password_changer_enabled": true,
    "password_verifier_enabled": false,
    "complexity_lowercase": 1,
    "created_at": "2024-06-11 23:29:24.511416-07",
    "modified_at": "2024-06-12 02:16:38.410347-07",
    "builtin": false,
    "hidden": false
  }
}

```

1.29.5 Defining Secret Change Policy

Request

Method	POST
Path	/api/v2/password_change_policy
Headers	Content-Type: Application/json
Body	PasswordPolicyModel

Example Request

POST /api/v2/password_change_policy`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/password_change_policy' \
-d '{"name": "Password_Verif_1", "change_frequency": 2, "complexity_length": 8,
↪ "complexity_lowercase": 2}'
```

Response

```
{
  "result": "success",
  "password_change_policy": {
    "id": "9124292845052624898"
  }
}
```

1.29.6 Modify Secret Change Policy

Request

Method	PATCH
Path	/api/v2/password_change_policy/<id>
Headers	Content-Type: Application/json
Body	PasswordPolicyModel

Example Request

PATCH /api/v2/password_change_policy/<id>`

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/password_change_policy/9124292845052624897' \
-d '{"change_frequency": 4, "complexity_lowercase": 2}'
```

Response

```
{
  "result": "success"
}
```

1.29.7 Deleting Secret Change Policy

Request

Method	DELETE
Path	/api/v2/password_change_policy/<id>

Example Request

DELETE /api/v2/password_change_policy/<id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/password_change_policy/9124292845052624897'
```

Response

```
{
  "result": "success"
}
```

1.30 Policies and Regular Expressions

Policies are patterns definitions facilitating proactive session monitoring. In case a defined pattern is detected, Fudo Enterprise can automatically take respective actions and notify the administrator about the current situation.

1.30.1 Regular Expressions

Data Structures

Table 76: RegExpModel

Attribute	Type	Required	Description
id	string		Read-only, unique regular expression identifier.
name	string	yes	Unique, case-insensitive regular expression name.
type	string {ml, regexp}	yes	Immutable. Policy type.
regexp	string	yes	Regular expression content.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *RegExpModel*

Request

Method	GET
Path	/api/v2/objspec/regexp

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Regular Expressions List

Request

Method	GET
Path	/api/v2/regexp

Example Request

GET /api/v2/regexp`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/regexp'
```

Response

```
{  
  "result": "success",  
  "regexp": [  
    {  
      "id": "9124292845052624897",  
      "name": "Reg_ex_1",  
      "regexp": "(^|[a-zA-Z])rm[[:space:]]",  
      "created_at": "2024-06-14 05:46:25.34634-07",  
      "modified_at": "2024-06-14 05:46:25.34634-07"  
    }  
  ]  
}
```

Get Regular Expression by ID

Request

Method	GET
Path	/api/v2/regexp/<id>

Example Request

GET /api/v2/regexp/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/regexp/9124292845052624897'
```

Response

```
{
  "result": "success",
  "regexp": {
    "id": "9124292845052624897",
    "name": "Reg_ex_1",
    "regexp": "(^|[~a-zA-Z])rm[[:space:]]",
    "created_at": "2024-06-14 05:46:25.34634-07",
    "modified_at": "2024-06-14 05:46:25.34634-07"
  }
}
```

Defining Regular Expression

Request

Method	POST
Path	/api/v2/regexp
Headers	Content-Type: Application/json
Body	RegExpModel

Example Request

POST /api/v2/regexp`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/regexp' \
-d '{"name": "Reg_ex_2", "regexp": "(^|[~a-zA-Z])rm[[:space:]]"}'
```

Response

```
{
  "result": "success",
  "regexp": {
    "id": "9124292845052624900"
  }
}
```

Modify Regular Expression

Request

Method	PATCH
Path	/api/v2/regexp/<id>
Headers	Content-Type: Application/json
Body	RegExpModel

Example Request

PATCH /api/v2/regexp/<id>`

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/regexp/9124292845052624897' \  
-d '{"regexp": "(^|[^a-zA-Z])rm[[:space:]]"}'
```

Response

```
{  
  "result": "success"  
}
```

Deleting Regular Expression

Request

Method	DELETE
Path	/api/v2/regexp/<id>

Example Request

DELETE /api/v2/regexp/<id>`

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/regexp/9124292845052624897'
```

Response

```
{  
  "result": "success"  
}
```

1.30.2 Policies

Data Structures

Table 77: *PolicyModel*

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
name	string	yes	Case-insensitive. Uniqueness is required.
type	string {ai_summary, live_analysis, ml, regex, sudo}	yes	Immutable.
priority	string {critical, high, medium, low}	yes	Expensive to use.
email_send	boolean; Default value false	yes	
push_send	boolean; Default value false	yes	
input_match	boolean; Default value false	yes	
snmp_trap	boolean; Default value false	yes	
session_pause	boolean; Default value false	yes	
session_terminate	boolean; Default value false	yes	
user_block	boolean; Default value false	yes	
ml_threat_probabilit	string {avg, max, min}	if type == ml	
ml_threat_threshold	string	if type == ml	
ai_summary_min_threa	number	if type == ai_summar	
live_analysis_min_co	number	if type == live_anal	Minimum number of findings that must be reported by live LLM session analysis before the policy fires.
live_analysis_min_se	string {high, medium}	if type == live_anal	Minimum severity of a finding reported by live LLM session analysis for the policy to fire.
sudo_runas_user	string	if type == sudo	
sudo_runas_group	string	if type == sudo	
created_at	datetime		Read-only. Record creation timestamp.
modified_at	datetime		Read-only. Record modification timestamp.
removed	boolean		Read-only. Record is removed.

Request for Retrieving Available Attributes

Request

Method	GET
Path	/api/v2/objspec/policy

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Policies List

Request

Method	GET
Path	/api/v2/policy

Example Request

GET /api/v2/policy

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.0.214.98/api/v2/policy'
```

Response

```
{  
  "result": "success",  
  "policy": [  
    {  
      "id": "9124292845052624897",  
      "name": "PCP",  
      "type": "regex",  
      "priority": "medium",  
      "email_send": true,  
      "input_match": false,  
      "snmp_trap": false,  
      "session_pause": false,  
      "session_terminate": false,  
      "user_block": false,  
      "created_at": "2024-06-11 22:52:18.44898-07",  
      "modified_at": "2024-06-11 22:52:18.44898-07"  
    },  
    {  
      "id": "9124292845052624898",  
      "name": "AI_Policy_1",  
      "type": "regex",  
      "priority": "low",  
      "email_send": false,  
      "created_at": "2024-06-11 22:52:18.44898-07",  
      "modified_at": "2024-06-11 22:52:18.44898-07"  
    }  
  ]  
}
```

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```
        "input_match": false,
        "snmp_trap": false,
        "session_pause": false,
        "session_terminate": false,
        "user_block": false,
        "created_at": "2024-06-14 15:15:58.534771-07",
        "modified_at": "2024-06-14 15:15:58.534771-07"
    }
  ]
}
```

Get Policy by ID

Request

Method	GET
Path	/api/v2/policy/<id>

Example Request

GET /api/v2/policy/<id>

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/policy/9124292845052624897'
```

Response

```
{
  "result": "success",
  "policy": {
    "id": "9124292845052624897",
    "name": "PCP",
    "type": "regexp",
    "priority": "medium",
    "email_send": true,
    "input_match": false,
    "snmp_trap": false,
    "session_pause": false,
    "session_terminate": false,
    "user_block": false,
    "created_at": "2024-06-11 22:52:18.44898-07",
    "modified_at": "2024-06-11 22:52:18.44898-07"
  }
}
```

Create Policy

Request

Method	POST
Path	/api/v2/policy
Headers	Content-Type: Application/json
Body	PolicyModel

Example Request

POST /api/v2/policy

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/policy' \  
-d '{"name": "Policy_1", "type": "regexp", "priority": "medium", "email_send": true,  
↪ "session_pause": true}'
```

Response

```
{  
  "result": "success",  
  "policy": {  
    "id": "9124292845052624899"  
  }  
}
```

Modify Policy

Request

Method	PATCH
Path	/api/v2/policy/<id>
Headers	Content-Type: Application/json
Body	PolicyModel

Example Request

PATCH /api/v2/policy/<id>

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/policy/9124292845052624927' \  
-d '{"priority": "low", "email_send": false, "user_block": true}'
```

Response

```
{
  "result": "success"
}
```

Deleting Policy

Request

Method	DELETE
Path	/api/v2/policy/<id>

Example Request

DELETE /api/v2/policy/<id>

```
curl -s -k -X DELETE -H 'Authorization: <token>' https://10.0.214.98/api/v2/
↪policy/9124292845052624899
```

Response

```
{
  "result": "success"
}
```

1.30.3 Managing Regular Expressions Assignment

Data Structures

Table 78: RegExpPolicyModel

Attribute	Type	Required	Description
id	string		Read-only, unique regular expression policy identifier.
policy_id	string	yes	Immutable policy identifier.
regexp_id	string	yes	Immutable regular expression identifier.
policy_name	string		Read-only, expensive to use.
regexp_name	string		Read-only, expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *RegExpPolicyModel*

Request

Method	GET
Path	/api/v2/objspec/regexp_policy

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get the List of Regular Expression Assignments for Policies

Request

Method	GET
Path	/api/v2/policy/regexp

Example Request

GET /api/v2/policy/regexp`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/policy/regexp'
```

Response

```
{  
  "result": "success",  
  "regexp_policy": [  
    {  
      "policy_id": "9124292845052624899",  
      "regexp_id": "9124292845052624897",  
      "policy_name": "Policy_1",  
      "regexp_name": "Reg_ex_1",  
      "created_at": "2024-06-20 03:34:38.425893-07",  
      "modified_at": "2024-06-20 03:34:38.425893-07"  
    },  
    {  
      "policy_id": "9124292845052624897",  
      "regexp_id": "9124292845052624900",  
      "policy_name": "Policy_2",  
      "regexp_name": "Reg_ex_2",  
      "created_at": "2024-06-20 06:56:17.452651-07",  
      "modified_at": "2024-06-20 06:56:17.452651-07"  
    },  
    {  
      "policy_id": "9124292845052624897",  
      "regexp_id": "9124292845052624897",  
      "policy_name": "Policy_2",  
      "regexp_name": "Reg_ex_1",  
      "created_at": "2024-06-20 06:56:17.452652-07",  
      "modified_at": "2024-06-20 06:56:17.452652-07"  
    },  
    {  
      "policy_id": "9124292845052624900",  
      "regexp_id": "9124292845052624900",  
      "policy_name": "Policy_3",  
      "regexp_name": "Reg_ex_2",  
      "created_at": "2024-06-20 06:56:35.335851-07",  
      "modified_at": "2024-06-20 06:56:35.335851-07"  
    }  
  ]  
}
```

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```

    }
  ]
}
```

Assigning Regular Expression to a Policy

Request

Method	POST
Path	/api/v2/policy/regexp
Headers	Content-Type: Application/json
Body	RegExpPolicyModel

Example Request

POST /api/v2/policy/regexp`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/policy/regexp' \
-d '{"policy_id": "9124292845052624899", "regexp_id": "9124292845052624900"}'
```

Response

```
{
  "result": "success"
}
```

Checking Regular Expression Assignment With a Policy

Request

Method	GET
Path	/api/v2/policy/<policy_id>/regexp/<regexp_id>
Headers	Content-Type: Application/json
Body	PolicyModel

Example Request

GET /api/v2/policy/<id>/regexp/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/policy/9124292845052624899/regexp/
↪9124292845052624897'
```

Response

```
{
  "result": "success",
  "regex_policy": {
    "policy_id": "9124292845052624899",
    "regex_id": "9124292845052624897",
    "policy_name": "Policy_1",
    "regex_name": "Reg_ex_1",
    "created_at": "2024-06-20 03:16:15.126665-07",
    "modified_at": "2024-06-20 03:16:15.126665-07"
  }
}
```

Deleting Regular Expression Assignment to a Policy

Request

Method	DELETE
Path	/api/v2/policy/<policy_id>/regex/<regex_id>

Example Request

DELETE /api/v2/policy/<id>/regex/<id>`

```
curl -s -k -X DELETE \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/policy/9124292845052624899/regex/
↪9124292845052624897'
```

Response

```
{
  "result": "success"
}
```

1.31 Secret Audit NEW

Secret audit checks password vault secrets against a database of compromised passwords. The database (hashdb) is built from a file uploaded to Fudo Enterprise; only one hashdb is active at a time and uploading a new one replaces it.

1.31.1 Data Structures

Table 79: SecretAuditModel

Attribute	Type	Required	Description
filename	string	yes	Read-only. Original filename of the uploaded file, taken from the X-Fudo-Filename header.
format	string {plain, sha1}	yes	Read-only. Upload format the hashdb was built from.
uploaded_at	datetime	yes	Read-only. UTC timestamp when the upload that built this hashdb completed.
original_bytes	number	yes	Read-only. Size of the uploaded file in bytes, before hashing and deduplication.
store_bytes	number	yes	Read-only. Total on-disk size of the active hashdb.
hash_count	number	yes	Read-only. Number of unique SHA-1 hashes in the active hashdb.
sha256	string	yes	Read-only. SHA-256 of the uploaded file's bytes, for integrity verification.
origin_node_serial	string	yes	Read-only. Serial of the cluster node the hashdb was uploaded on. Deletion is only permitted on that node.
can_delete	boolean	yes	Read-only. Whether this node may delete the hashdb. true only on the node it was uploaded on.

1.31.2 Retrieve Available Attributes of the *SecretAuditModel*

Request

Method	GET
Path	/api/v2/objspec/secret_audit

GET /api/v2/objspec/secret_audit

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/objspec/secret_audit'
```

1.31.3 Get the Active Hash Database

Request

Method	GET
Path	/api/v2/secret_audit

GET /api/v2/secret_audit

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/secret_audit'
```

Response

```
{
  "secret_audit": {
    "filename": "weakpass-small.txt",
    "format": "plain",
    "uploaded_at": "2026-08-18T09:17:25.525286050Z",
    "original_bytes": 2627,
    "store_bytes": 4020,
    "hash_count": 201,
    "sha256":
    ↪ "966e38d2f060a4697737e626309bef06bba916ec3a12a34aa619d334a660695d",
    "origin_node_serial": "83457314",
    "can_delete": true
  },
  "result": "success"
}
```

i Note

When no database has been uploaded, the endpoint answers {"result": "failure", "message": "No hashdb uploaded yet."}.

1.31.4 Upload a Hash Database

Request

Method	POST
Path	/api/v2/secret_audit/upload/<format>
Body	Raw file bytes

POST /api/v2/secret_audit/upload/<format>

<format> is **plain** for a file of newline-separated passwords, or **sha1** for a file of SHA-1 hashes. Any other value is rejected with {"result": "failure", "message": "invalid format"}.

The file name must be supplied in the **X-Fudo-Filename** header; without it the request fails with {"result": "failure", "message": "X-Fudo-Filename header is required."}. The upload replaces the currently active database.

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'X-Fudo-Filename: weakpass-small.txt' \
```

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```
-H 'Content-Type: application/octet-stream' \
--data-binary '@weakpass-small.txt' \
'https://10.33.3.191/api/v2/secret_audit/upload/plain'
```

Response

Unlike other endpoints, the upload streams progress as newline-delimited JSON objects while the database is built. Each line is a separate object; the final line has "phase": "done".

```
{"phase":"sorting","progress":0,"bytes_done":0,"bytes_total":4020}
{"phase":"sorting","progress":100,"bytes_done":4020,"bytes_total":4020}
{"phase":"finalizing","progress":0,"bytes_done":0,"bytes_total":4020}
{"phase":"finalizing","progress":100,"bytes_done":4020,"bytes_total":4020}
{"phase":"auditing"}
{"phase":"done","hashes":201,"compromised_total":0,"scanned_total":0,"elapsed_ms":14,"invalid_utf8_count":0}
```

Table 80: Progress event fields

Field	Type	Description
phase	string {sorting, finalizing, auditing, done}	Stage the upload has reached.
progress	number	Percentage of the current phase completed.
bytes_done	number	Bytes processed in the current phase.
bytes_total	number	Total bytes to process in the current phase.
hashes	number	Final event only. Number of unique hashes stored.
scanned_total	number	Final event only. Number of secrets checked against the new database.
compromised_total	number	Final event only. Number of secrets found in the new database.
elapsed_ms	number	Final event only. Total processing time in milliseconds.
invalid_utf8_count	number	Final event only. Number of input lines skipped as invalid UTF-8.

Note

A client must not parse the response as a single JSON document - it is a stream of objects. Read it line by line and treat the **done** event as the result.

1.31.5 Delete the Hash Database

Request

Method	DELETE
Path	/api/v2/secret_audit

DELETE /api/v2/secret_audit

Only permitted on the node the database was uploaded on - the one reported by `origin_node_serial`, where `can_delete` is true.

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/secret_audit'
```

Response

```
{
  "result": "success"
}
```

1.32 Discovery

The *Discovery* feature is able to search for accounts with different privilege levels on domain controllers, servers on domain controllers, and local accounts on Windows servers.

The Discovery function needs two objects to provide the most efficient results:

1. A *scanner* with configuration of the target server and an account to connect, and a schedule for running the scanner automatically.
2. A *rule* to specify what the scanner should do in terms of its discovery.

1.32.1 Discovery Scanner

Data Structures

Table 81: DiscoveryScannerModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
name	string	yes	Case-insensitive. Unique.
description	string		
type	string {ldap_account, ldap_server, local_account}	yes	
pool_id	string	if type == ldap_account ldap_server	Requires read right on the pool object for GET, POST, PATCH, and DELETE requests.
server_id	string	if type == ldap_account ldap_server	Requires read right on the server object for GET, POST, PATCH, and DELETE requests.
account_id	string	yes	Requires read right on the account object for GET, POST, PATCH, and DELETE requests.
enabled	boolean; default value false	yes	
category	string {privileged, nonprivileged, all}	if type == ldap_account	
filter_base	string	if type == ldap_account ldap_server	
filter_group	string	if type == ldap_account ldap_server	
server_tls_certificate	string	if type == ldap_server	Value-format: x509-ca-certificate.
schedule_day	number {1 - 7}	with schedule_	Schedule day of week. Value-range: 1 to 7.
schedule_time	string	with schedule_	
last_scan	string		Read-only. Timestamp of the last scan.
next_scan	string		Read-only. Timestamp of the next scan.
next_manual_scan	string		Read-only. Timestamp of the next manual scan.
password_change	string	if type == ldap_account local_account	

Retrieve Available Attributes of the *DiscoveryScannerModel*

Request

Method	GET
Path	/api/v2/objspec/scanner

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Scanners List

Request

Method	GET
Path	/api/v2/scanner

Example Request

GET /api/v2/scanner`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/scanner'
```

Response

```
{  
  "result": "success",  
  "scanner": [  
    {  
      "id": "5620492334958379009",  
      "name": "LDAP_scanner",  
      "type": "ldap_account",  
      "pool_id": "5620492334958379010",  
      "server_id": "5620492334958379011",  
      "account_id": "5620492334958379011",  
      "enabled": true,  
      "category": "nonprivileged",  
      "schedule_dow": 1,  
      "schedule_time": "23:00:00-07",  
      "last_scan": "-infinity",  
      "next_scan": "infinity",  
      "next_manual_scan": "infinity",  
      "connection_port": 636,  
      "created_at": "2024-06-24 04:25:40.966955-07",  
      "modified_at": "2024-06-24 04:25:40.966955-07"  
    }  
  ]  
}
```

Get Scanner by ID

Request

Method	GET
Path	/api/v2/scanner/<id>

Example Request

GET /api/v2/scanner/<id>

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/scanner/5620492334958379009'
```

Response

```
{
  "result": "success",
  "scanner": [
    {
      "id": "5620492334958379009",
      "name": "LDAP_scanner",
      "type": "ldap_account",
      "pool_id": "5620492334958379010",
      "server_id": "5620492334958379011",
      "account_id": "5620492334958379011",
      "enabled": true,
      "category": "nonprivileged",
      "schedule_dow": 1,
      "schedule_time": "23:00:00-07",
      "last_scan": "-infinity",
      "next_scan": "infinity",
      "next_manual_scan": "infinity",
      "connection_port": 636,
      "created_at": "2024-06-24 04:25:40.966955-07",
      "modified_at": "2024-06-24 04:25:40.966955-07"
    }
  ]
}
```

Create Scanner

Request

Method	POST
Path	/api/v2/scanner
Headers	Content-Type: Application/json
Body	DiscoveryScannerModel

Example Request

POST /api/v2/scanner`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/scanner' \
-d '{"name": "LDAP_Scanner", "type": "ldap_account", "pool_id": "5620492334958379010"
↪, "server_id": "5620492334958379011", "account_id": "5620492334958379011",
↪ "enabled": false, "category": "nonprivileged", "connection_port": 636}'
```

Response

```
{
  "result": "success",
  "scanner": {
    "id": "5620492334958379010"
  }
}
```

Modify Scanner

Request

Method	PATCH
Path	/api/v2/scanner/<id>
Headers	Content-Type: Application/json
Body	DiscoveryScannerModel

Example Request

PATCH /api/v2/scanner/<id>`

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/scanner/5620492334958379010' \
-d '{"category": "privileged"}
```

Response

```
{
  "result": "success"
}
```

Starting Scan

Request

Method	POST
Path	/api/v2//scanner/<scanner_id>/start

Example Request

POST /api/v2/scanner/<id>/start`

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/scanner/5620492334958379010/start'
```

Response

```
{  
  "result": "success",  
  "next_manual_scan": "2025-05-05 01:53:54.923673-07"  
}
```

Deleting Scanner

Request

Method	DELETE
Path	/api/v2/scanner/<id>

Example Request

DELETE /api/v2/scanner/<id>`

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/scanner/5620492334958379010'
```

Response

```
{  
  "result": "success"  
}
```

1.32.2 Discovery Rule

Data Structures

Table 82: DiscoveryRuleModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
name	string	yes	Case-insensitive. Unique.
description	string		
type	string {ac- count, server}	yes	
enabled	boolean; de- fault value true	yes	
category	string {priv- ileged, nonprivi- leged, all}		
action	string{onboar quarantine}	yes	
filter_type	string{consist ends_with, starts_with}	with filter_va	
filter_value	string	with filter_ty	
scanners	object-array		Read-only; expensive to use.
scanner_ids	string-array		Read-only; expensive to use; hidden.
scanner_names	string-array		Read-only; expensive to use; hidden.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; Expensive to use; If true , the object is not editable.
hidden	boolean		Read-only; Expensive to use; If true , the object is hidden in UI.

1.32.3 Retrieve Available Attributes of the *DiscoveryRuleModel*

Request

Method	GET
Path	/api/v2/objspec/rule

GET /api/v2/objspec/rule

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.32.4 Get Rules List

Request

Method	GET
Path	/api/v2/discovery/rule

GET /api/v2/discovery/rule

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/discovery/rule'
```

Response

```
{  
  "result": "success",  
  "rule": [  
    {  
      "id": "9115285645797883905",  
      "name": "Rule_1",  
      "type": "account",  
      "enabled": true,  
      "category": "privileged",  
      "action": "onboard",  
      "filter_type": "starts_with",  
      "filter_value": "admin",  
      "created_at": "2025-05-06 00:27:11.928953-07",  
      "modified_at": "2025-05-06 00:27:11.928953-07",  
      "builtin": false,  
      "hidden": false  
    }  
  ]  
}
```

1.32.5 Get Rule by ID

Request

Method	GET
Path	/api/v2/discovery/rule

GET /api/v2/discovery/rule/<id>

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883905'
```

Response

```
{
  "result": "success",
  "rule": [
    {
      "id": "9115285645797883905",
      "name": "Rule_1",
      "type": "account",
      "enabled": true,
      "category": "privileged",
      "action": "onboard",
      "filter_type": "starts_with",
      "filter_value": "admin",
      "created_at": "2025-05-06 00:27:11.928953-07",
      "modified_at": "2025-05-06 00:27:11.928953-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

1.32.6 Create Rule

Request

Method	POST
Path	/api/v2/discovery/rule
Headers	Content-Type: application/json
Body	DiscoveryRuleModel

POST /api/v2/discovery/rule

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/discovery/rule' \
  -d '{"name": "Rule_2", "type": "account", "enabled": true, "category": "privileged", "action": "onboard", "filter_type": "starts_with", "filter_value": "admin"}'
```

Response

```
{
  "result": "success",
  "rule": {
    "id": "9115285645797883906"
  }
}
```

1.32.7 Modify Rule

Request

Method	PATCH
Path	/api/v2/discovery/rule/<id>
Headers	Content-Type: application/json
Body	DiscoveryRuleModel

PATCH /api/v2/discovery/rule/<id>

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/scanner/9115285645797883906' \  
-d '{"action": "quarantine", "filter_type": "starts_with", "filter_value": "fudo_  
↪admin"}'
```

Response

```
{  
  "result": "success"  
}
```

1.32.8 Delete Rule

Request

Method	DELETE
Path	/api/v2/discovery/rule/<id>

DELETE /api/v2/discovery/rule/<id>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906'
```

Response

```
{  
  "result": "success"  
}
```

1.32.9 Discovery Scanner-Rule Assignment

Data Structures

Table 83: DiscoveryScannerRuleModel

Attribute	Type	Required	Description
id	string		Read-only. Protected.
scanner_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>scanner_id</code> with attribute <code>rule_id</code> .
rule_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>rule_id</code> with attribute <code>scanner_id</code> .
position	number		
scanner_name	string		Read-only; Expensive to use.
rule_name	string		Read-only; Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *DiscoveryScannerRuleModel*

Request

Method	GET
Path	/api/v2/objspec/scanner_rule

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get List of Scanner-Rule Assignment

Request

Method	GET
Path	/api/v2/scanner/rule

Example Request

GET /api/v2/scanner/rule`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/scanner/rule'
```

Response

```
{
  "result": "success",
```

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```

"scanner_rule": [
  {
    "scanner_id": "9115285645797883907",
    "rule_id": "9115285645797883905",
    "position": 0,
    "scanner_name": "LDAP_Scanner",
    "rule_name": "Rule_1",
    "created_at": "2025-05-06 02:58:54.21643-07",
    "modified_at": "2025-05-06 02:58:54.21643-07"
  },
  {
    "scanner_id": "9115285645797883907",
    "rule_id": "9115285645797883906",
    "position": 1,
    "scanner_name": "LDAP_Scanner",
    "rule_name": "Rule_2",
    "created_at": "2025-05-06 02:58:54.227576-07",
    "modified_at": "2025-05-06 02:58:54.227576-07"
  }
]
}

```

Get Scanner-Rule Assignment by ID

Request

Method	GET
Path	/api/v2/scanner/<scanner_id>/rule/<rule_id>

Example Request

GET /api/v2/discovery/scanner/<id>/rule/<id>`

```

curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/scanner/9115285645797883907/rule/
↪9115285645797883906'

```

Response

```

{
  "result": "success",
  "scanner_rule": [
    {
      "scanner_id": "9115285645797883907",
      "rule_id": "9115285645797883906",
      "position": 1,
      "scanner_name": "LDAP_Scanner",
      "rule_name": "Rule_2",

```

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```

        "created_at": "2025-05-06 02:58:54.227576-07",
        "modified_at": "2025-05-06 02:58:54.227576-07"
      }
    ]
  }
}

```

Create Scanner-Rule Assignment

Request

Method	POST
Path	/api/v2/scanner/rule
Headers	Content-Type: Application/json
Body	DiscoveryScannerRuleModel

Example Request

POST /api/v2/scanner/rule`

```

curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/scanner/rule' \
-d '{"scanner_id":"9115285645797883907","rule_id":"9115285645797883908"}'

```

Response

```

{
  "result": "success"
}

```

Modify Scanner-Rule Assignment Attributes

Request

Method	PATCH
Path	/api/v2/scanner/<scanner_id>/rule/<rule_id>
Headers	Content-Type: Application/json
Body	GroupSafeModel

PATCH /api/v2/scanner/<scanner_id>/rule/<rule_id>

Example Request

```

curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.31.135.179/api/v2/scanner/9115285645797883907/rule/

```

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```
↪9115285645797883908' \
-d '{"position": 1}'
```

Response

```
{
  "result": "success"
}
```

Deleting Scanner-Rule Assignment

Request

Method	DELETE
Path	/api/v2/scanner/<scanner_id>/rule/<rule_id>

Example Request

DELETE /api/v2/scanner/<id>/rule/<id>`

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/scanner/9115285645797883907/rule/
↪9115285645797883908'
```

Response

```
{
  "result": "success"
}
```

1.32.10 Discovery Rule-Listener Assignment

Data Structures

Table 84: DiscoveryRuleListenerModel

Attribute	Type	Required	Description
id	string		Read-only. Protected.
rule_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>rule_id</code> with attribute <code>listener_id</code> .
listener_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>listener_id</code> with attribute <code>rule_id</code> .
rule_name	string		Read-only; Expensive to use.
listener_name	string		Read-only; Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *DiscoveryRuleListenerModel*

Request

Method	GET
Path	/api/v2/objspec/rule_listener

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get List of Rule-Listener Assignment

Request

Method	GET
Path	/api/v2/discovery/rule/listener

Example Request

GET /api/v2/discovery/rule/listener`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/discovery/rule/listener'
```

Response

```
{  
  "result": "success",  
  "rule_listener": [  
    {  
      "rule_id": "9115285645797883905",  
      "listener_id": "9115285645797883906",  
      "rule_name": "Rule_1",  
      "listener_name": "RDP:bastion",  
      "created_at": "2025-05-06 00:27:11.982267-07",  
      "modified_at": "2025-05-06 00:27:11.982267-07"  
    }  
  ]  
}
```

Get Rule-Listener Assignment by ID

Request

Method	GET
Path	/api/v2/discovery/rule/<rule_id>/listener/<listener_id>

Example Request

GET /api/v2/discovery/rule/<id>/listener/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883905/listener/'
↪9115285645797883906'
```

Response

```
{
  "result": "success",
  "rule_listener": [
    {
      "rule_id": "9115285645797883905",
      "listener_id": "9115285645797883906",
      "rule_name": "Rule_1",
      "listener_name": "RDP:bastion",
      "created_at": "2025-05-06 00:27:11.982267-07",
      "modified_at": "2025-05-06 00:27:11.982267-07"
    }
  ]
}
```

Create Rule-Listener Assignment

Request

Method	POST
Path	/api/v2/discovery/rule/listener
Headers	Content-Type: Application/json
Body	DiscoveryRuleListenerModel

Example Request

POST /api/v2/discovery/rule/listener`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/rule/listener' \
-d '{"rule_id": "9115285645797883906", "listener_id": "9115285645797883906"}'
```

Response

```
{
  "result": "success",
  "rule": {
    "id": "9115285645797883906"
  }
}
```

Deleting Rule-Listener Assignment

Request

Method	DELETE
Path	/api/v2/discovery/rule/<rule_id>/listener/<listener_id>

Example Request

DELETE /api/v2/discovery/rule/<id>/listener/<id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906/listener/9115285645797883906'
```

Response

```
{
  "result": "success"
}
```

1.32.11 Discovery Rule-Pool Assignment

Data Structures

Table 85: DiscoveryRulePoolModel

Attribute	Type	Required	Description
id	string		Read-only. Protected.
rule_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>rule_id</code> with attribute <code>pool_id</code> .
pool_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>pool_id</code> with attribute <code>rule_id</code> .
rule_name	string		Read-only; Expensive to use.
pool_name	string		Read-only; Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *DiscoveryRulePoolModel*

Request

Method	GET
Path	/api/v2/objspec/rule_pool

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get List of Rule-Pool Assignment

Request

Method	GET
Path	/api/v2/discovery/rule/pool

Example Request

GET /api/v2/discovery/rule/pool`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/pool'
```

Response

```
{
  "result": "success",
  "rule_pool": [
    {
      "rule_id": "9115285645797883905",
      "pool_id": "9115285645797883906",
      "rule_name": "Rule_1",
      "pool_name": "RDP:bastion",
      "created_at": "2025-05-06 00:27:11.982267-07",
      "modified_at": "2025-05-06 00:27:11.982267-07"
    }
  ]
}
```

Get Rule-Pool Assignment by ID

Request

Method	GET
Path	/api/v2/discovery/rule/<rule_id>/pool/<pool_id>

Example Request

GET /api/v2/discovery/rule/<id>/pool/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906/pool/
↪9115285645797883908'
```

Response

```
{
  "result": "success",
```

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```

"rule_pool": {
  "rule_id": "9115285645797883906",
  "pool_id": "9115285645797883908",
  "rule_name": "Rule_2",
  "pool_name": "Pool_RDP",
  "created_at": "2025-05-06 02:34:44.062332-07",
  "modified_at": "2025-05-06 02:34:44.062332-07"
}
}

```

Create Rule-Pool Assignment

Request

Method	POST
Path	/api/v2/discovery/rule/pool
Headers	Content-Type: Application/json
Body	DiscoveryRulePoolModel

Example Request

POST /api/v2/discovery/rule/pool`

```

curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/rule/pool' \
-d '{"rule_id":"9115285645797883906","pool_id":"9115285645797883908"}'

```

Response

```

{
  "result": "success"
}

```

Deleting Rule-Pool Assignment

Request

Method	DELETE
Path	/api/v2/discovery/rule/<rule_id>/pool/<pool_id>

Example Request

DELETE /api/v2/discovery/rule/<id>/pool/<id>`

```

curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \

```

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```
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906/pool/
↪9115285645797883908'
```

Response

```
{
  "result": "success"
}
```

1.32.12 Discovery Rule-Safe Assignment

Data Structures

Table 86: *DiscoveryRuleSafeModel*

Attribute	Type	Required	Description
id	string		Read-only. Protected.
rule_id	string	yes	Immutable. Uniqueness is required in the combination of attribute rule_id with attribute safe_id .
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute safe_id with attribute rule_id . Requires read right on the safe object for GET, POST, and DELETE requests.
rule_name	string		Read-only; Expensive to use.
safe_name	string		Read-only; Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *DiscoveryRuleSafeModel*

Request

Method	GET
Path	/api/v2/objspec/rule_safe

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get List of Rule-Safe Assignment

Request

Method	GET
Path	/api/v2/discovery/rule/safe

Example Request

GET /api/v2/discovery/rule/safe`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/safe'
```

Response

```
{
  "result": "success",
  "rule_safe": [
    {
      "rule_id": "9115285645797883905",
      "safe_id": "9115285645797883906",
      "rule_name": "Rule_1",
      "safe_name": "RDP",
      "created_at": "2025-05-06 00:27:11.974136-07",
      "modified_at": "2025-05-06 00:27:11.974136-07"
    }
  ]
}
```

Get Rule-Safe Assignment by ID

Request

Method	GET
Path	/api/v2/discovery/rule/<rule_id>/safe/<safe_id>

Example Request

GET /api/v2/discovery/rule/<id>/safe/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906/safe/
↪9115285645797883906'
```

Response

```
{
  "result": "success",
  "rule_safe": {
    "rule_id": "9115285645797883906",
    "safe_id": "9115285645797883906",
    "rule_name": "Rule_2",
    "safe_name": "RDP",
    "created_at": "2025-05-06 02:45:22.811459-07",
    "modified_at": "2025-05-06 02:45:22.811459-07"
  }
}
```

Create Rule-Safe Assignment

Request

Method	POST
Path	/api/v2/discovery/rule/safe
Headers	Content-Type: Application/json
Body	DiscoveryRuleSafeModel

Example Request

POST /api/v2/discovery/rule/safe`

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/discovery/rule/safe' \  
-d '{"rule_id": "9115285645797883906", "safe_id": "9115285645797883906"}'
```

Response

```
{  
  "result": "success"  
}
```

Deleting Rule-Safe Assignment

Request

Method	DELETE
Path	/api/v2/discovery/rule/<rule_id>/safe/<safe_id>

Example Request

DELETE /api/v2/discovery/rule/<id>/safe/<id>`

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/discovery/rule/9115285645797883906/safe/  
↪9115285645797883906'
```

Response

```
{  
  "result": "success"  
}
```


1.32.13 Managing Discovery State

The *Discovery* feature enables to search for servers and accounts on domain controllers and local accounts on Windows servers.

Warning

The following endpoints were deprecated and have been removed in Fudo Enterprise 6.2. Please update your integrations accordingly:

- GET /api/v2/objspec/discovery
- PATCH /api/v2/account/<account_id>/discovery
- PATCH /api/v2/server/<server_id>/discovery

To change the discovery state of servers or accounts, use POST /api/v2/discovery/server/manage or POST /api/v2/discovery/account/manage, described below.

Changing Multiple Server's Discovery State

Request

Method	POST
Path	/api/v2/discovery/server/manage

Example Request

POST /api/v2/discovery/server/manage`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/server/manage' \
-d '{"servers": ["9115285645797883913", "1234567890123456790"], "state": "onboard",
↪ "pools": ["9115285645797883908"]}'
```

Response

```
{
  "result": "success"
}
```

Example Request

POST /api/v2/discovery/server/manage`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/server/manage' \
-d '{"servers": ["1234567890123456789", "1234567890123456790"], "state":
↪ "quarantine", "reason": "Example text"}'
```

Response

```
{
  "result": "success"
}
```

Changing Multiple Account's Discovery State

Request

Method	POST
Path	/api/v2/discovery/account/manage

Example Request

POST /api/v2/discovery/account/manage`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/account/manage' \
-d '{"accounts": ["9115285645797883912", "9115285645797883921"], "state": "onboard
↪", "safes": ["9115285645797883906", "9115285645797883907"], "listeners": [
↪ "9115285645797883906", "9115285645797883905"]}]'
```

Response

```
{
  "result": "success"
}
```

Example Request

POST /api/v2/discovery/account/manage`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/discovery/account/manage' \
-d '{"accounts": ["9115285645797883922", "9115285645797883923"], "state":
↪ "quarantine", "reason": "Example text"}'
```

Response

```
{
  "result": "success"
}
```

1.33 Sessions

Fudo Enterprise stores all recorded servers access sessions, allowing to playback, review, delete and export to the supported video formats.

Sessions management allows filtering stored user sessions, accessing current users connections and downloading stored sessions. It also provides status information on each session and enables access to session sharing options.

1.33.1 Sessions Management

Data Structures

Note

The following data structure contains **read-only** fields for retrieving session data.

Table 87: SessionsModel

Attribute	Type	Description
id	string	Read-only. Uniqueness is required.
leader_session_id	string	Read-only.
has_nested_sessions	boolean	Read-only; expensive to use. Indicates whether the session has at least one nested session.
is_nested_session	boolean	Read-only; expensive to use. Indicates whether the session is a nested session.
account_id	string	Read-only. Account's Identifier, which was used for connection. Requires read right on object type account for all methods: GET , PATCH , and DELETE .
listener_id	string	Read-only. Listener's Identifier, which was used for connection.
safe_id	string	Read-only. Safe's Identifier, which was used for connection. Requires read right on object type safe for all methods: GET , PATCH , and DELETE .
server_id	string	Read-only. Server's Identifier, which was used for connection. Requires read right on object type server for all methods: GET , PATCH , and DELETE .
user_id	string	Read-only. User's Identifier, which was used for connection. Requires read right on object type user for all methods: GET , PATCH , and DELETE .
started_at	string	Read-only. Datetime of the session's start.

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Table 87 – continued from previous page

Attribute	Type	Description
finished_at	string	Read-only. Datetime of the session's end.
handled_by	string	Read-only.
marked_safe_by	string	Read-only.
terminate_at	string	Datetime of the session's termination.
dump_mode	string	Read-only. Session recording options.
protocol	string {checkout, http, modbus, mysql, oracle, pgsql, rdp, ssh, tcp, tds, telnet, tn3270, tn5250, vnc}	Read-only. Protocol used for connection.
source_ip	string	Source IP address
source_port	number	Port of the source IP address
destination_ip	string	Destination IP address
destination_port	number	Port of the destination IP address
destination_address	string	Expensive. Concatenated destination IP and port.
paused	boolean	
retention_locked	boolean	
indexed	number	Session indexing status. Values: 0 = Waiting, 1 = Error, 2 = Indexed. Session is indexed when value is 2.
trusted_timestamp	string	Hidden. Base64 encoded timestamping signature.
size	number	
reason	string	Reason of the session's termination or rejection
status	string {approved, disconnected, expired, rejected, terminated, waiting, waiting_supervision}	
active_time	number	Returns null when the license disables productivity analysis.
ml (Machine Learning)	See the SessionsMLModel table	
pending_delete	boolean	
password_change	boolean	
checkout_forced	boolean	
created_at	datetime	Datetime of the record creation
modified_at	datetime	Datetime of the record modification
removed	boolean	
login_reason	string	Reason for user's connection
bits_per_pixel	string	Resolution options
height	string	Resolution options
width	string	Resolution options
type	string	Session's type

continues on next page

Table 87 – continued from previous page

Attribute	Type	Description
subsystem	string	Read-only. Expensive to use. For example, <code>sftp</code> .
user_name	string	Expensive. User name who created session.
user_removed	boolean	Expensive. User is removed.
user_organization	string	Expensive. User organization who created session.
account_name	string	Expensive. Account name.
account_removed	boolean	Expensive. Account is removed.
server_name	string	Expensive. Server name.
server_removed	boolean	Expensive. Server is removed.
safe_name	string	Expensive. Safe name.
safe_removed	boolean	Expensive. Safe is removed.
listener_name	string	Expensive. Listener name.
listener_removed	boolean	Expensive. Listener is removed.
listener_hidden	boolean	Read-only. Expensive to use. Listener is hidden in UI (built-in or internal listener).
secret_exposure_stat	string {user_blocked, user_removed, user_lost_access, seen}	Expensive. State of user who checked out the current account password. Value 'seen' means that user has seen password and have access to it.
ocr_enabled	boolean	Read-only. Expensive. Indicates whether OCR was enabled for the session.
ocrable	boolean	Read-only. Expensive. Indicates whether the session is eligible for OCR processing.
ocred	boolean	Expensive. Indicates whether OCR has been completed for the session.
ocr_progress	number	Read-only. Expensive. Current progress of OCR processing.
availability	string {archived, available, downloading, missing}	Expensive. Session availability.
created_on	string	Expensive. The serial number of the node where the session was created.
archived	boolean	Read-only. Expensive. Session is fully replicated on archive node.
duration	number	Expensive. Session duration in seconds.
activity	number	Expensive. Session active time in percents. Returns null when the license disables productivity analysis.

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Table 87 – continued from previous page

Attribute	Type	Description
<code>time_limit</code>	number	Expensive. Time in seconds remaining until the session is terminated. Value is available only when <code>terminate_at</code> is defined. Value 0 means session is finished or terminated.
<code>unfinished_archive</code>	boolean	Read-only. Expensive to use. Indicates whether the session is not fully replicated on the archive node.
<code>query_text</code>	string	Read-only. Hidden. Used only for filters. Query text to search for.
<code>query_input</code>	boolean	Read-only. Hidden. Used only for filters. Indicates whether to search text in user input.
<code>query_output</code>	boolean	Read-only. Hidden. Used only for filters. Indicates whether to search text in output.
<code>query_comments</code>	boolean	Read-only. Hidden. Used only for filters. Indicates whether to search text in comments.
<code>websocket_url</code>	string	Read-only. Expensive to use. A part of the URL to the websocket that serves the data of this session.
<code>timestamp_status</code>	string {none, pending, completed}	Read-only. Expensive to use. Status of timestamping process.
<code>subprotocol</code>	string {checkout, http, http_rendered, modbus, mysql, pgsql, rdp, scp, sftp, ssh, ssh_command, tcp, tds, telnet, tn3270, tn5250, vnc, x11}	Read-only. Expensive to use. Session subprotocol.
<code>local</code>	boolean	Read-only. Expensive to use. Indicates that the session is running or has a replica on the current cluster node.
<code>replicated_on_nodes</code>	string-array	Read-only. Expensive to use. List of nodes that the session was fully replicated on.
<code>has_comments</code>	boolean	Read-only. Expensive to use. Indicates whether any comments have been added to the session.
<code>analysis_status</code>	string {live, finished, failed}	Read-only. Expensive to use. Status of live LLM session analysis. <code>null</code> when the session is not monitored.
<code>analysis_severity</code>	string {unknown, low, medium, high}	Read-only. Expensive to use. Current severity reported by live LLM session analysis. Value <code>unknown</code> marks a coverage gap: the latest batch could not be analyzed.

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Table 87 – continued from previous page

Attribute	Type	Description
analysis_peak_severity	string {unknown, low, medium, high}	Read-only. Expensive to use. Peak severity reported by live LLM session analysis.
analysis_summary	string	Read-only. Expensive to use. Latest summary produced by live LLM session analysis.
analysis_verdict_count	number	Read-only. Expensive to use. Number of verdicts produced by live LLM session analysis.
summary_status	string {unprocessed, pending, processing, succeeded, failed}	Read-only. Expensive to use. Current processing state of the ML summarizer.
summary_stage	string {transcript, summary}	Read-only. Expensive to use. Current processing stage of the ML summarizer.
summary_processed_chunks	number	Read-only. Expensive to use. Number of chunks processed by the ML summarizer.
summary_total_chunks	number	Read-only. Expensive to use. Total number of chunks to be processed by the ML summarizer.
summary_eta	number	Read-only. Expensive to use. Estimated time remaining until the ML summarizer completes, in seconds.
key_risks_count	number	Read-only. Expensive to use. Number of key risks listed in the session summary.
can_play_session	boolean	Read-only. Expensive to use. Indicates whether the session can be played by the current user.
source	string {fsa, fsa_native, uag, uag_native, native}	Read-only. Source IP address

Table 88: SessionsMLModel

Attribute	Type	Description
ml_threat_level	number	Detected threat level
ml_threat_level_min	number	Min threat level value
ml_threat_level_max	number	Max threat level value
ml_converted_at	string	Datetime of the session's processing
ml_finished_at	string	End datetime of the session's processing

Retrieve Available Attributes of the *SessionsModel*

Request

Method	GET
Path	/api/v2/objspec/session

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Refer to the [Batch operations](#) topic to create nested requests for operating on the Sessions objects.

Get Sessions List

Request

Method	GET
Path	/api/v2/session

Example Request

GET /api/v2/session

```
{
  "result": "success",
  "session": {
    "id": "3927138875067084301",
    "leader_session_id": "3927138875067084301",
    "listener_id": "3927138875067073099",
    "user_id": "3927138875067072685",
    "safe_id": "3927138875067072584",
    "account_id": "3927138875067088645",
    "server_id": "3927138875067072586",
    "started_at": "2022-04-05 16:06:07.313862+02",
    "finished_at": "2022-04-05 16:07:58.65701+02",
    "dump_mode": "all",
    "protocol": "vnc",
    "source_ip": "10.2.0.0",
    "source_port": 65331,
    "destination_ip": "10.0.0.1",
    "destination_port": 5900,
    "paused": false,
    "retention_locked": false,
    "indexed": 2,
    "size": 371712,
    "status": "approved",
    "active_time": 60,
    "password_change": false,
    "checkout_forced": false,
    "created_at": "2022-04-05 16:06:07.316523+02",
```

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```
"modified_at": "2022-04-08 08:16:02.009606+02",  
"height": "768",  
"width": "1024"  
}}
```

Get a Session by ID

Request

Method	GET
Path	/api/v2/session/<id>

Example Request

GET /api/v2/session/<id>

```
{  
"result": "success",  
"session": {  
  "id": "3927138875067084301",  
  "leader_session_id": "3927138875067084301",  
  "listener_id": "3927138875067073099",  
  "user_id": "3927138875067072685",  
  "safe_id": "3927138875067072584",  
  "account_id": "3927138875067088645",  
  "server_id": "3927138875067072586",  
  "started_at": "2022-04-05 16:06:07.313862+02",  
  "finished_at": "2022-04-05 16:07:58.65701+02",  
  "dump_mode": "all",  
  "protocol": "vnc",  
  "source_ip": "10.2.0.0",  
  "source_port": 65331,  
  "destination_ip": "10.0.0.1",  
  "destination_port": 5900,  
  "paused": false,  
  "retention_locked": false,  
  "indexed": 2,  
  "size": 371712,  
  "status": "approved",  
  "active_time": 60,  
  "password_change": false,  
  "checkout_forced": false,  
  "created_at": "2022-04-05 16:06:07.316523+02",  
  "modified_at": "2022-04-08 08:16:02.009606+02",  
  "height": "768",  
  "width": "1024"  
}  
}}
```

Modify a Session

Request

Method	PATCH
Path	/api/v2/session/<id>

Delete Session

Request

Method	DELETE
Path	/api/v2/session/<id>

Example Request

DELETE /api/v2/session/<id>

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/session/9124292845052624897'
```

Response

```
{  
  "result": "success"  
}
```

1.33.2 Sharing Sessions

Fudo Enterprise enables sharing given session with another user.

Data Structures

Table 89: SessionShareModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
session_id	string	yes	Immutable. ID of the session to share.
user_id	string		Read-only; hidden; expensive to use. Requires session-view right on object type user for GET and POST requests.
key	string		Read-only.
valid_since	datetime	yes	Immutable. Start date and time of the share validity period.
valid_to	datetime		Immutable. End date and time of the share validity period. Omit the attribute to keep the share valid until the session ends - allowed for running sessions only. Required for sessions that have already finished.
readonly	boolean	yes	Immutable. true - the recipient can only watch the session; false - the recipient can also interact with it.
authenticated	boolean	yes	Immutable; default value true . true - the recipient must be signed in and their identity is recorded in the access history; false - anonymous access with the key only.
created_by	string		Read-only. ID of the user who created the share.
created_by_name	string		Read-only; expensive to use. Name of the user who created the share.
created_vhost	string		Read-only. Address the share was created on: mgmt or uag .
link	string		Read-only; expensive to use. Share session link without host prefix.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SessionShareModel*

Request

Method	GET
Path	/api/v2/objspec/session_share

GET /api/v2/objspec/session_share

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_share'
```

Get Session Sharing Information

Request

Method	GET
Path	/api/v2/session/<session_id>/share

GET /api/v2/session/<session_id>/share

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.92.108/api/v2/session/4782822804267466753/share'
{
```

Response

```
{
  "result": "success",
  "session_share": [
    {
      "id": "6953557824660045826",
      "session_id": "4665729213955833860",
      "key":
↪ "yKaOzVjAoPZ6Hga6ECFEoVD2yKJXrrcPTDvhYFeUYNfxJaLs8D1piZdhFLIxivcT",
      "valid_since": "2025-05-14 05:11:00-07",
      "valid_to": null,
      "readonly": false,
      "authenticated": true,
      "created_by": "6953557824660045827",
      "created_by_name": "user_1",
      "created_vhost": "uag",
      "link": "\/play\/4665729213955833860?
↪ key=yKaOzVjAoPZ6Hga6ECFEoVD2yKJXrrcPTDvhYFeUYNfxJaLs8D1piZdhFLIxivcT",
      "created_at": "2025-05-14 05:11:20.443267-07",
      "modified_at": "2025-05-14 05:11:20.443267-07"
    },
    {
      "id": "6953557824660045827",
      "session_id": "4665729213955833860",
      "key":
↪ "fEGW092C3IDki0EaMgpbp0ffRFYSNhg6gYa6jYmp2zyfcMtFpIKdMr20S1jGKD3t",
      "valid_since": "2025-05-14 05:16:00-07",
      "valid_to": "2025-05-14 13:16:00-07",
      "readonly": true,
      "authenticated": true,
      "created_by": "6953557824660045825",
      "created_by_name": "admin",
      "created_vhost": "mgmt",
      "link": "\/play\/4665729213955833860?"
```

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```

↪key=fEGW092C3IDki0EaMgpbp0ffRFYSNhg6gYa6jYmp2zyfcMtFpIKdMr20S1jGKD3t",
    "created_at": "2025-05-14 05:18:11.152713-07",
    "modified_at": "2025-05-14 05:18:11.152713-07"
  }
]
}

```

Note

The first share in the example was created by a user in the User Access Gateway (`created_vhost: uag`). Such shares are always authenticated, always allow interaction with the session (`readonly: false`) and have no fixed end of validity (`valid_to: null`) - they expire when the session ends.

Share Session

Request

Method	POST
Path	/api/v2/session/<session_id>/share
Headers	Content-Type: Application/json
Body	SessionShareModel

POST /api/v2/session/<session_id>/share

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"valid_since": "2025-05-15T13:07:00.000Z","valid_to": "2025-05-
↪15T21:07:00.000Z","readonly": true,"authenticated": true}' \
  'https://10.31.92.108/api/v2/session/4665729213955833860/share'

```

Response

```

{
  "result": "success",
  "session_share": {
    "key": "gHJNP5SWFx08lvecW82uotFfxZVYJz0qhIbusRR9q1HmFLF1C7rd5xv7BywSme0Q
↪"
  }
}

```

Example Request - a share valid until the session ends

Omit `valid_to` to create a share that expires together with the session. The session must still be running.

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"valid_since": "2025-05-15T13:07:00.000Z","readonly": false,
↪ "authenticated": true}' \
  'https://10.31.92.108/api/v2/session/4665729213955833860/share'
```

If the session has already finished, the request is rejected.

```
{
  "result": "failure",
  "message": "Attribute valid_to must be defined for finished sessions.",
  "failing_attributes": [
    "valid_to"
  ]
}
```

Note

The `link` attribute returns a path without the host prefix. Prepend the management address or the User Access Gateway address, depending on which one the recipient can reach - both forms use the same key and open the same session.

1.33.3 Session Access History NEW

Fudo Enterprise records every connection made to a session through a share link. Each connection is a separate entry containing the viewer's identity, the address the link was opened on and the times the viewer started watching, started interacting and disconnected.

Entries are kept after the share link itself is deactivated, so the access history of a session remains complete.

Data Structures

Table 90: SessionShareAccessModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
session_id	string		Read-only. ID of the session that was accessed.
session_share_	string		Read-only. ID of the share link used to access the session.
user_id	string		Read-only. ID of the viewer; null for anonymous viewers.
user_name	string		Read-only; expensive to use. Name of the viewer; null for anonymous viewers.
user_extra_id	string		Read-only; hidden; expensive to use. Session owner; drives the session-view capability check on object type user .
address	string		Read-only. Source IP address of the viewer.
vhost	string		Read-only. Address the viewer opened the link on: mgmt or uag .
started_at	datetime		Read-only. When the viewer started watching the session.
joined_at	datetime		Read-only. When the viewer first interacted with the session; null for view-only access.
finished_at	datetime		Read-only. When the viewer disconnected; null while still connected.
last_seen	datetime		Read-only. Presence heartbeat of the connection.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SessionShareAccessModel*

Request

Method	GET
Path	/api/v2/objspec/session_share_access

GET /api/v2/objspec/session_share_access

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_share_access'
```

Get the Access History of a Session

Returns every connection made to the session through any of its share links.

Request

Method	GET
Path	/api/v2/session/<session_id>/access

GET /api/v2/session/<session_id>/access

Note

The request requires the **session-read** and **session-share-view** privileges. The **user-session-view** privilege is sufficient on its own.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.92.108/api/v2/session/4665729213955833860/access'
```

Response

```
{
  "result": "success",
  "session_share_access": [
    {
      "id": "6953557824660045825",
      "session_id": "4665729213955833860",
      "session_share_id": "6953557824660045826",
      "user_id": "6953557824660045828",
      "user_name": "user_2",
      "address": "10.33.3.44",
      "vhost": "uag",
      "started_at": "2026-07-29 05:16:54.049977-07",
      "joined_at": "2026-07-29 05:17:31.112004-07",
      "finished_at": null
    },
    {
      "id": "6953557824660045826",
      "session_id": "4665729213955833860",
      "session_share_id": "6953557824660045827",
      "user_id": null,
      "user_name": null,
      "address": "10.33.3.51",
      "vhost": "mgmt",
      "started_at": "2026-07-29 05:20:02.311209-07",
      "joined_at": null,
      "finished_at": "2026-07-29 05:24:48.907712-07"
    }
  ]
}
```

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```

    }
  ]
}
```

Note

The second entry in the example is an anonymous viewer - `user_id` and `user_name` are `null`, so the connection can be identified only by its source address. A `joined_at` value of `null` means the viewer only watched the session and never interacted with it.

Get the Access History of a Single Share Link

Returns the same entries, limited to one share link.

Request

Method	GET
Path	/api/v2/session/<session_id>/share/<session_share_id>/access

GET /api/v2/session/<session_id>/share/<session_share_id>/access

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.31.92.108/api/v2/session/4665729213955833860/share/
  ↪6953557824660045826/access'
```

1.33.4 Revoking Sharing Sessions

Fudo Enterprise enables sharing given session with another user.

Data Structures

Table 91: SessionShareRevokeModel

Attribute	Type	Required	Description
<code>session_id</code>	string	yes	ID of the session to OCR. Immutable.
<code>key</code>	string		Unique key identifying the shared session URL. Read-only.

Retrieve Available Attributes of the *SessionShareRevokeModel*

Request

Method	GET
Path	/api/v2/objspec/session_share_revoke

GET /api/v2/objspec/session_share_revoke

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_share_revoke'
```

Revoke Session Sharing URL

Request

Method	POST
Path	/api/v2/session/<session_id>/share/revoke
Headers	Content-Type: Application/json
Body	SessionShareRevokeModel

POST /api/v2/session/<session_id>/share/revoke

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{"key": "yKa0zVjAoPZ6Hga6ECFEoVD2yKJXrrcPTDvhYFeUYNfxJaLs8D1piZdhFLIxivcT"}' \
'https://10.31.92.108/api/v2/session/4665729213955833860/share/revoke'
```

Response

```
{
  "result": "success"
}
```

1.33.5 Terminating Sessions

In case the administrator notices access rights misuse, Fudo Enterprise allows to terminate the live session.

Data Structures

Table 92: SessionTerminateModel

Attribute	Type	Required	Description
session_id	string	yes	ID of the session to terminate.

Retrieve Available Attributes of the *SessionTerminateModel*

Request

Method	GET
Path	/api/v2/objspec/session_terminate

GET /api/v2/objspec/session_terminate

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_terminate'
```

Terminate Live Session

Request

Method	POST
Path	/api/v2/session/<session_id>/terminate

POST /api/v2/session/<session_id>/terminate

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.92.108/api/v2/session/4665729213955833862/terminate'
```

Response

```
{
  "result": "success"
}
```

1.33.6 Session Text

Data Structures

Table 93: SessionTextModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
session_id	string		Read-only. ID of the session the text is linked to.
text	string		Read-only. Recorded session text (searchable representation).
user_input	boolean		Read-only. Whether the text was entered by the user.
ms	number		Read-only. Millisecond offset in the session.
created_at	datetime		Read-only. Timestamp of creation.

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Table 93 – continued from previous page

Attribute	Type	Required	Description
created_on	string		Read-only. Date of creation (UTC).
modified_at	datetime		Read-only. Timestamp of last modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SessionTextModel*

Request

Method	GET
Path	/api/v2/objspec/session_text

GET /api/v2/objspec/session_text

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_text'
```

Get Recorded Text From Session

Request

Method	GET
Path	/api/v2/session/<session_id>/text

GET /api/v2/session/<session_id>/text

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.31.116.195/api/v2/session/8169529724050079760/text
```

Response

```
{
  "result": "success",
  "session_text": [
    {
      "id": "8169529724050079766",
      "session_id": "8169529724050079746",
      "text": "'address':6 'enter':5 'firefox':9 'getting':7 'google':4
↪ 'new':1 'started':8 'tab':2 'with':3",
      "user_input": false,
      "ms": 1425,
    }
  ]
}
```

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```

        "created_at": "2025-07-11 03:09:11.304285-07",
        "created_on": "80434736",
        "modified_at": "2025-07-11 03:09:11.304285-07"
      },
      {
        "id": "8169529724050079767",
        "session_id": "8169529724050079746",
        "text": "'correction':1",
        "user_input": false,
        "ms": 1944,
        "created_at": "2025-07-11 03:09:15.284903-07",
        "created_on": "80434736",
        "modified_at": "2025-07-11 03:09:15.284903-07"
      },
      {
        "id": "8169529724050079768",
        "session_id": "8169529724050079746",
        "text": "'search':1",
        "user_input": false,
        "ms": 1973,
        "created_at": "2025-07-11 03:09:18.277803-07",
        "created_on": "80434736",
        "modified_at": "2025-07-11 03:09:18.277803-07"
      }
    ]
  }
}

```

Note

This endpoint returns terminal text captured during the session, including user input and output, if applicable. Useful for text-based audit and search operations.

1.33.7 Session OCR

Recorded RDP, VNC and rendered HTTP sessions can be processed and indexed for full-text search purposes.

Data Structures

Table 94: SessionOCRModel

Attribute	Type	Required	Description
id	string		Unique, read only object identifier.
session_id	string		ID of the session to OCR. Immutable.
on_node	string		Shows whether the session has been replicated across nodes, identified by serial numbers. Default value: <code>current_setting('fudo.serial', true)</code>
ocred	boolean		Read-only. Indicates whether session texts have been OCR-processed.
lang	string	yes	Specify OCR languages using + as a separator (e.g., <code>eng+deu+pol</code>).
priority	number	yes	
created_on	datetime		Read-only.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SessionOCRModel*

Request

Method	GET
Path	/api/v2/objspec/session_ocr

GET /api/v2/objspec/session_ocr

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_ocr'
```

Check Session OCR Status

Request

Method	GET
Path	/api/v2/session/<session_id>/ocr

GET /api/v2/session/<session_id>/ocr

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
```

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```
{
  'https://10.31.92.108/api/v2/session/4782822804267466753/ocr'
```

Response

```
{
  "result": "success",
  "session_ocr": [
    {
      "id": "4665729213955833858",
      "session_id": "4665729213955833858",
      "on_node": "83329531",
      "ocred": true,
      "lang": "eng+deu+pol",
      "priority": 1,
      "created_on": "83329531",
      "created_at": "2025-05-14 03:22:32.367319-07",
      "modified_at": "2025-05-14 03:24:58.1089-07"
    }
  ]
}
```

Process Session for OCR

Note

- The list of available OCR language codes can be retrieved using the internal API endpoint `GET /api/v2/internal/ocr_lang`.
- The response contains language identifiers (**value**) and their human-readable names (**label**), which should be used when configuring OCR-based session analysis.

Request

Method	POST
Path	/api/v2/session/<session_id>/ocr
Headers	Content-Type: Application/json
Body	SessionOCRModel

POST /api/v2/session/<session_id>/ocr

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  -d '{"lang": "eng+deu+pol","priority":1}' \
  'https://10.31.92.108/api/v2/session/4665729213955833858/ocr'
```

Response

```
{
  "result": "success",
  "session_ocr": {
    "id": "4665729213955833858"
  }
}
```

1.33.8 Session Comment

Data Structures

Table 95: SessionCommentModel

Attribute	Type	Required	Description
id	string		Read-only. Unique.
parent_id	string		Immutable.
session_id	string	yes	ID of the session to comment. Immutable.
text	string	yes	Text content of the session comment.
start_at	datetime	yes	Value format: time. Expensive to use.
finish_at	datetime	yes	Value format: time. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
modified_by	string		Read-only.
modified_by_na	string		Read-only. Expensive to use.
removed	boolean		Read-only.

Retrieve Available Attributes of the *SessionCommentModel*

Request

Method	GET
Path	/api/v2/objspec/session_comment

GET /api/v2/objspec/session_comment

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_comment'
```

Get Session Comments

Request

Method	GET
Path	/api/v2/session/<session_id>/comment

GET /api/v2/session/<session_id>/comment

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeeaa6jsaz4mum9su8w6' \
  'https://10.31.92.108/api/v2/session/8169529724050079753/comment'
```

Response

```
{
  "result": "success",
  "session_comment": [
    {
      "id": "8169529724050079745",
      "session_id": "8169529724050079753",
      "text": "Comment no 1",
      "start_at": "00:00:14",
      "finish_at": "00:00:15",
      "created_at": "2025-07-08 14:19:29.001496-07",
      "modified_at": "2025-07-08 14:19:29.001496-07",
      "modified_by": "8169529724050079745",
      "modified_by_name": "admin"
    },
    {
      "id": "8169529724050079746",
      "session_id": "8169529724050079753",
      "text": "Comment no 2",
      "start_at": "00:00:26",
      "finish_at": "00:00:27",
      "created_at": "2025-07-08 14:19:57.31709-07",
      "modified_at": "2025-07-08 14:19:57.31709-07",
      "modified_by": "8169529724050079745",
      "modified_by_name": "admin"
    }
  ]
}
```

Get Session Comment by ID

Request

Method	GET
Path	/api/v2/session/<session_id>/comment/<id>

GET /api/v2/session/<session_id>/comment/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeeaa6jsaz4mum9su8w6' \
```

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```
'https://10.31.92.108/api/v2/session/8169529724050079753/comment/
↪8169529724050079746'
```

Response

```
{
  "result": "success",
  "session_comment": [
    {
      "id": "8169529724050079746",
      "session_id": "8169529724050079753",
      "text": "Comment no 2",
      "start_at": "00:00:26",
      "finish_at": "00:00:27",
      "created_at": "2025-07-08 14:19:57.31709-07",
      "modified_at": "2025-07-08 14:19:57.31709-07",
      "modified_by": "8169529724050079745",
      "modified_by_name": "admin"
    }
  ]
}
```

Add Session Comment

Request

Method	POST
Path	/api/v2/session/<session_id>/comment
Headers	Content-Type: Application/json
Body	SessionCommentModel

POST /api/v2/session/<session_id>/comment

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.92.108/api/v2/session/4665729213955833865/comment \
-d '{"text": "Text content of the session comment.", "start_at": "00:01:00",
↪ "finish_at": "00:01:00"}'
```

Response

```
{
  "result": "success",
  "session_comment": {
    "id": "4665729213955833859"
  }
}
```

Modify Session Comment

Request

Method	PATCH
Path	/api/v2/session/<session_id>/comment/<id>
Headers	Content-Type: Application/json
Body	SessionCommentModel

PATCH /api/v2/session/<session_id>/comment/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  -H 'Content-Type: application/json' \  
  https://10.31.92.108/api/v2/session/8169529724050079753/comment/  
↪8169529724050079746 \  
  -d '{"text": "Changed session comment content.", "start_at": "00:01:00",  
↪"finish_at": "00:01:00"}'
```

Response

```
{  
  "result": "success"  
}
```

Delete Session Comment

Request

Method	DELETE
Path	/api/v2/session/<session_id>/comment/<id>

DELETE /api/v2/session/<session_id>/comment/<id>

Example Request

```
curl -s -k -X DELETE \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  'https://10.31.92.108/api/v2/session/8169529724050079753/comment/  
↪8169529724050079746'
```

Response

```
{  
  "result": "success"  
}
```

1.33.9 Sessions Approval

Note

To allow users to accept or reject access requests, the Safe must have the `require_confirmation` attribute set to `true`. This setting enables the approval workflow for access requests.

Data Structures

Approve Object Specification

Table 96: `SessionApproveModel`

Attribute	Type	Required	Description
<code>session_id</code>	string	yes	ID of the session to approve.

Retrieve Available Attributes of the *SessionApproveModel*

Request

Method	GET
Path	<code>/api/v2/objspec/session_approve</code>

GET `/api/v2/objspec/session_approve`

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_approve'
```

Reject Object Specification

Table 97: `SessionRejectModel`

Attribute	Type	Required	Description
<code>session_id</code>	string	yes	ID of the session to reject.
<code>reason</code>	string	yes	The reason why the session is rejected.
<code>block_user</code>	boolean; default value <code>false</code>		Indicates whether to block the user who established the session.

Retrieve Available Attributes of the *SessionRejectModel*

Request

Method	GET
Path	<code>/api/v2/objspec/session_reject</code>

GET /api/v2/objspec/session_reject

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/objspec/session_reject'
```

Approving Session

Request

Method	POST
Path	/api/v2/session/<session_id>/approve

POST /api/v2/session/<session_id>/approve

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.92.108/api/v2/session/4665729213955833862/approve'
```

Response

```
{  
  "result": "success"  
}
```

Rejecting Session

Request

Method	POST
Path	/api/v2/session/<session_id>/reject

POST /api/v2/session/<session_id>/reject

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
https://10.31.92.108/api/v2/session/4665729213955833862/reject \  
-d '{"reason": "CODE 1.12", "block_user":true}'
```

Response

```
{  
  "result": "success"  
}
```

1.33.10 Restoring Session

If a session's backup version is stored outside of Fudo Enterprise, it can be downloaded to the local Fudo Enterprise instance using the **Restore** option.

Data Structures

Table 98: SessionRestoreModel

Attribute	Type	Required	Description
session_id	string	yes	Immutable. ID of the session to restore.

Retrieve Available Attributes of the *SessionRestoreModel*

Request

Method	GET
Path	/api/v2/objspec/session_restore

GET /api/v2/objspec/session_restore

Example Request

```
curl -s -k -X GET \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  'https://10.0.214.98/api/v2/objspec/session_restore'
```

Restoring Session

Request

Method	POST
Path	/api/v2/session/<session_id>/restore

POST /api/v2/session/<session_id>/restore

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  https://10.31.116.195/api/v2/session/8169529724050079760/restore
```

Response

```
{  
  "result": "success"  
}
```

1.33.11 Session Last Activity

Data Structures

Table 99: SessionActivityModel

Attribute	Type	Required	Description
session_id	string	yes	ID of the session. Read-only.
last_activity_	number		Indicates how many seconds have passed since the session's last activity. Read-only.
last_activity_	string		The absolute timestamp of the session's last activity, formatted according to RFC 3339.
unavailable	boolean	yes	Indicates whether the session's last activity time is unavailable—either because the session has ended or is running on a different node. Read-only.

Retrieve Available Attributes of the *SessionActivityModel*

Request

Method	GET
Path	/api/v2/objspec/session_terminate

GET /api/v2/objspec/session_terminate

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_terminate'
```

Get Get Session Last Activity

Request

Method	GET
Path	/api/v2/session/<session_id>/last_activity

GET /api/v2/session/<session_id>/last_activity

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.92.108/api/v2/session/4665729213955833864/last_activity'
```

Response

```
{
  "last_activity_age": 6,
  "last_activity_at": "2025-05-14T13:32:43.819802+00:00",
  "unavailable": false,
  "result": "success"
}
```

Response if the session has ended

```
{
  "last_activity_age": null,
  "last_activity_at": null,
  "unavailable": true,
  "result": "success"
}
```

1.33.12 Session Data Replication

Additionally to automated session data replication, Fudo Enterprise enables on-demand replication to Fudo Enterprise instances to which the given data is not replicated automatically.

Data Structures

Table 100: SessionReplicaModel

Attribute	Type	Required	Description
id	string	Read-only. Unique identifier. Protected.	
session_on	string	yes	Serial number of the node on which the session has been replicated. The value archive indicates that the session is stored as a backup. Immutable. Uniqueness is required in the combination of attribute session_on with attribute session_id .
session_id	string	yes	ID of the session. Immutable. Uniqueness is required in the combination of attribute session_id with attribute session_on .
fully_replicated	boolean; default value false	yes	Read-only.
backup_id	string		Backup ID, available when the session_on attribute is set to archive . Read-only.
dump_directory	string		Read-only. Protected.
external_directory	string		Directory where session backup has been saved. Read-only. Expensive to use.
node_name	string		Name of the node on which the session has been replicated. Read-only. Expensive to use.
backup_name	string		Read-only. Expensive to use.
created_at	datetime	Datetime of the record creation. Read-only.	
modified_at	datetime	Datetime of the record modification. Read-only.	
removed	boolean	Read-only.	

Retrieve Available Attributes of the *SessionReplicaModel*

Request

Method	GET
Path	/api/v2/objspec/session_replica

GET /api/v2/objspec/session_replica

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/objspec/session_replica'
```

Get Session Replication Details

Request

Method	GET
Path	/api/v2/session/<session_id>/replica

GET /api/v2/session/<session_id>/replica

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.92.108/api/v2/session/4665729213955833864/replica'
```

Response

```
{  
  "result": "success",  
  "session_replica": [  
    {  
      "session_on": "83329531",  
      "session_id": "4665729213955833864",  
      "fully_replicated": true,  
      "created_at": "2025-05-14 06:32:04.355502-07",  
      "modified_at": "2025-05-14 06:32:04.355502-07"  
    }  
  ]  
}
```

Process Session Replication

Request

Method	POST
Path	/api/v2/session/<session_id>/replica
Headers	Content-Type: Application/json
Body	SessionReplicaModel

POST /api/v2/session/<session_id>/replica

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"session_on": "83329531"}' \
  'https://10.31.92.108/api/v2/session/4665729213955833858/replica'
```

Response

```
{
  "result": "success"
}
```

1.33.13 Session Timestamping

Note

To timestamp sessions, first you have to enable and configure the timestamping feature. Go to **Settings > System > Timestamping**. For more information refer to the [Timestamping](#) section of the [Fudo Enterprise Documentation](#).

Data Structures: *SessionTimestampModel*

Table 101: SessionTimestampModel

Attribute	Type	Required	Description
session_id	string	yes	Immutable. ID of the session to timestamp.
trusted_timest	string		Read-only. Timestamp details for the session.

Retrieve Available Attributes of the *SessionTimestampModel*

Request

Method	GET
Path	/api/v2/objspec/session_timestamp

GET /api/v2/objspec/session_timestamp

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_timestamp'
```

Data Structures: *TimestampModel*

Table 102: TimestampModel

Attribute	Type	Required	Description
enabled	boolean		Indicates whether timestamping is enabled.
provider	string{certum kir, pwpw}		
pkcs12	string		PKCS12 file. Protected. Requires pkcs12_passphrase attribute.
pkcs12_passphr	string	Re- quired by pkcs12	Passphrase to use to decrypt PKCS12 file. Protected.
certificate	string		Timestamp certificate. Read-only.
expire_after	string		Timestamp certificate expiration datetime. Format RFC3339. Read-only.

Retrieve Available Attributes of the *TimestampModel*

Request

Method	GET
Path	/api/v2/objspec/timestamping

GET /api/v2/objspec/timestamping

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/timestamping'
```

Get Session Timestamping Details

Request

Method	GET
Path	/api/v2/session/<session_id>/timestamp

GET /api/v2/session/<session_id>/timestamp

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.31.92.108/api/v2/session/4665729213955833864/timestamp'
```

Response: Session without timestamp

```
{
  "result": "failure",
  "message": "The session does not have a trusted timestamp."
}
```

Response: Timestamped session

Timestamp Session

Request

Method	POST
Path	/api/v2/session/<session_id>/timestamp
Headers	Content-Type: Application/json
Body	SessionTimestampModel

POST /api/v2/session/<session_id>/timestamp

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  'https://10.31.92.108/api/v2/session/4665729213955833858/timestamp'
```

Response: Timestamping not configured

```
{
  "result": "failure",
  "message": "Sessions timestamping is disabled."
}
```

Response: Timestamping configured

```
{
  "result": "failure",
  "message": "Sessions timestamping is disabled."
}
```

Delete Session Timestamping

Request

Method	DELETE
Path	/api/v2/session/<session_id>/timestamp

DELETE /api/v2/session/<session_id>/timestamp

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/session/4665729213955833858/timestamp'
```

Response

```
{
  "result": "success"
}
```

1.33.14 Session Download

Request

Method	POST
Path	/api/v2/session/<session_id>/download
Headers	Content-Type: Application/json
Body	SessionDownloadModel

POST /api/v2/session/<session_id>/download

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.92.108/api/v2/session/4665729213955833865/download \
-d '{"format": "divx5", "resolution": "hd720"}'
```

Response

```
{
  "result": "success"
}
```

Note

To check available download formats for session recordings, you can use the following internal endpoint: GET /api/v2/internal/session/<session_id>/download_formats. Please note that this is an **internal endpoint**, and its availability and behavior are **not guaranteed to remain stable** across future versions of the API.

1.33.15 Session Backup

Data Structures

Table 103: SessionBackupModel

Attribute	Type	Description
session_id	string	ID of the session to backup. Requires backup_id: {} or backup_name: {}.
session_ids	string-array	IDs of the sessions to backup. Requires backup_id: {} or backup_name: {}.
backup_id	string	ID of the backup target. Requires session_id: {} or session_ids: {}.
backup_name	string	Name of the backup target. Requires session_id: {} or session_ids: {}.

Retrieve Available Attributes of the *SessionBackupModel*

Request

Method	GET
Path	/api/v2/objspec/session_backup

GET /api/v2/objspec/session_backup

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/session_backup'
```

Mark Existing Session for Back Up

Request

Method	POST
Path	/api/v2/session/<session_id>/backup/<backup_id>

Example Request

POST /api/v2/session/<session_id>/backup/<backup_id>

Request

Method	POST
Path	/api/v2/session_backup
Headers	Content-Type: Application/json
Body	SessionBackupModel

Example Request

PATCH /api/v2/session_backup

```
{
  "backup_name": "Backup_Target_Name",
  "session_ids": [
    "2345678901234567890",
    "2345678901234567891"
  ]
}
```

Response

```
{
  "result": "success",
  "session_ids": [
    "2345678901234567890",
    "2345678901234567891"
  ]
}
```

1.33.16 Session SCP File

Data Structures

Table 104: ScpFileModel

Attribute	Type	Required	Description
id	string		Read-only. Unique identifier.
session_id	string		Read-only. Identifier of the session to which the file transfer belongs.
filename	string		Read-only. Name of the file.
file_size	number		Read-only. Size of the file, in bytes.
file_origin	string		Read-only. Origin of the file. Can be either client or server .
current_node	string		Read-only. Indicates if the file is available on the current node.
created_at	datetime		Read-only. Timestamp of file registration.

Retrieve Available Attributes of the *ScpFileModel*

Request

Method	GET
Path	/api/v2/objspec/scp_file

GET /api/v2/objspec/scp_file

Example Request


```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/scp_file'
```

Get SCP File Transfer List for a Session

Request

Method	GET
Path	/api/v2/session/<session_id>/scp_file

GET /api/v2/session/<session_id>/scp_file

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/session/8673932882315575319/scp_file'
```

Response

```
{
  "scp_file": [
    {
      "id": "0",
      "session_id": "8673932882315575319",
      "filename": "export_import_configuration.txt",
      "file_size": 307175,
      "file_origin": "client",
      "current_node": true,
      "created_at": "2025-07-19 09:26:33.605208-07"
    }
  ],
  "result": "success"
}
```

Download SCP File Content by Session and File ID

Request

Method	GET
Path	/api/v2/session/<session_id>/scp_file/<id>

GET /api/v2/session/<session_id>/scp_file/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/session/8673932882315575319/scp_file/0'
```

Response

```
SCP file content.
```

Note

The endpoint returns raw file content. The response body contains the plain contents of the file identified by file <id>.

1.34 Session Summary

1.34.1 Data Structures

Table 105: SessionSummaryModel

Attribute	Type	Required	Description
id	string		Read-only. Protected. Uniqueness is required.
session_id	string	yes	ID of the session this summary is related to. Uniqueness is required.
status	string {pending, processing, succeeded, unprocessed, failed}; Default value pending		Read-only. Current processing state of the ML summarizer.
stage	string {transcript, summary}		Read-only. Current processing stage of the ML summarizer.
eta	number		Read-only. Estimated time remaining until completion, in seconds.
processed_chun	number		Read-only. Number of chunks processed by the ML summarizer.
total_chunks	number		Read-only. Total number of chunks to be processed.
summary	string		Read-only. Summary of the session generated by the ML summarizer.
key_risks	object-array		Read-only. List of key risks identified in the session.
provider_model	string		Read-only. AI Model used in session summary generation.
provider_name	string		Read-only. AI provider used in session summary generation.
provider_url	string		Read-only. AI provider URL used in session summary generation.
generated_at	datetime		Read-only. Timestamp of summary generation.
user_id	string		Read-only; hidden; expensive to use. Virtual property, used just to filter out sessions that are not granted to the user. Requires <code>session-view</code> right on object type <code>user</code> for GET and POST requests.
requested_by_i	string		Read-only. User ID who generated the session summary.
requested_by_n	string		Read-only; expensive to use. User name who generated the session summary.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.34.2 Retrieve Available Attributes of the *SessionSummaryModel*

Request

Method	GET
Path	/api/v2/objspec/session_summary

GET /api/v2/objspec/session_summary

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.30.41.207/api/v2/objspec/session_summary'
```

To check allowed methods, available URL parameters and possible responses please refer to the *API Overview* section.

Note

The `session_summary` object is used to track AI-generated session summaries and their processing status. The ML summarizer processes sessions in chunks and provides progress tracking through the `eta`, `processed_chunks`, and `total_chunks` fields.

1.34.3 List Session Summaries

Request

Method	GET
Path	/api/v2/session/summary

GET /api/v2/session/summary

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.30.41.207/api/v2/session/summary'
```

Response

```
{  
  "result": "success",  
  "session_summary": [  
    {  
      "session_id": "4935945191598063650",  
      "status": "succeeded",  
      "stage": "transcript",  
      "eta": 0,  
      "processed_chunks": 1,  
    }  
  ]  
}
```

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```

        "total_chunks": 1,
        "summary": "No risky activity was detected during the session.",
        "key_risks": [],
        "provider_model": "gpt-5-nano-2025-08-07",
        "provider_name": "openai",
        "provider_url": "https://api.openai.com/v1/chat/completions",
        "generated_at": "2026-04-17 14:55:06.419273+02",
        "requested_by_id": "1666331862127083521",
        "requested_by_name": "admin",
        "created_at": "2026-04-17 14:55:02.442244+02",
        "modified_at": "2026-04-17 14:55:06.419441+02"
      }
    ]
  }
}

```

1.34.4 Get Session Summary by Session ID

Request

Method	GET
Path	/api/v2/session/<session_id>/summary

GET /api/v2/session/<session_id>/summary

Example Request

```

curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.30.41.207/api/v2/session/4935945191598063650/summary'

```

Response

```

{
  "result": "success",
  "session_summary": {
    "session_id": "4935945191598063650",
    "status": "succeeded",
    "stage": "transcript",
    "eta": 0,
    "processed_chunks": 1,
    "total_chunks": 1,
    "summary": "No risky activity was detected during the session.",
    "key_risks": [],
    "provider_model": "gpt-5-nano-2025-08-07",
    "provider_name": "openai",
    "provider_url": "https://api.openai.com/v1/chat/completions",
    "generated_at": "2026-04-17 14:55:06.419273+02",
    "requested_by_id": "1666331862127083521",
    "requested_by_name": "admin",
  }
}

```

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```
"created_at": "2026-04-17 14:55:02.442244+02",  
"modified_at": "2026-04-17 14:55:06.419441+02"  
}  
}
```

1.34.5 Get Session Transcript for Summary

Request

Method	GET
Path	/api/v2/session/<session_id>/summary/transcript

GET /api/v2/session/<session_id>/summary/transcript

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.30.41.207/api/v2/session/4935945191598063650/summary/transcript'
```

Response

```
{  
  "transcript": "",  
  "result": "success"  
}
```

Note

This endpoint returns the processed transcript that was used as input for the AI summarizer. The transcript is extracted and formatted specifically for ML processing.

1.34.6 Request Session Summary Generation

Request

Method	POST
Path	/api/v2/session/summary
Body	JSON object with session parameters

POST /api/v2/session/summary

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
-H 'Content-Type: application/json' \  
-d '{
```

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```
"session_id": "4935945191598063650"
}' \
'https://10.30.41.207/api/v2/session/summary'
```

Response

```
{
  "result": "success",
  "session_summary": {
    "session_id": "4935945191598063650",
    "status": "succeeded",
    "stage": "transcript",
    "eta": 0,
    "processed_chunks": 1,
    "total_chunks": 1,
    "summary": "No risky activity was detected during the session.",
    "key_risks": [],
    "provider_model": "gpt-5-nano-2025-08-07",
    "provider_name": "openai",
    "provider_url": "https://api.openai.com/v1/chat/completions",
    "generated_at": "2026-04-17 14:55:06.419273+02",
    "requested_by_id": "1666331862127083521",
    "requested_by_name": "admin",
    "created_at": "2026-04-17 14:55:02.442244+02",
    "modified_at": "2026-04-17 14:55:06.419441+02"
  }
}
```

Note

This endpoint initiates the AI-powered session summary generation process. The ML summarizer will process the session data in the background, and you can monitor progress using the `status`, `eta`, and chunk progress fields.

Warning

Session summary generation requires:

- Valid session ID with accessible session data
- Configured AI provider (OpenAI, Azure OpenAI, etc.)
- Sufficient system resources for ML processing
- Appropriate permissions to view the session

1.35 Session Commands

Note

Session command endpoints provide access to commands executed during user sessions. This includes sudo commands, shell commands, and other executed operations that were captured and logged by the system during monitored sessions.

1.35.1 Data Structures

Table 106: *SessionCommandModel*

Attribute	Type	Required	Description
id	string		Read-only. Unique command identifier.
session_id	string		Read-only. ID of the session this command belongs to.
occurred_at	datetime		Read-only. Timestamp when the command was executed.
command	string		Read-only. The actual command that was executed.
runas_user	string		Read-only. User the command was executed as (for sudo commands).
runas_group	string		Read-only. Group the command was executed as (for sudo commands).
policy_id	string		Read-only. ID of the policy that was applied to this command.
regexp_id	string		Read-only. ID of the regex pattern that matched this command.
approved	boolean		Read-only. Expensive to use. Whether the command was approved by policy.
user_id	string		Read-only. Hidden. Expensive to use. User ID for permission filtering.
created_at	datetime		Read-only. Record creation timestamp.
modified_at	datetime		Read-only. Last modification timestamp.
removed	boolean		Read-only. Soft delete flag.

1.35.2 Retrieve Available Attributes of the *SessionCommandModel*

Request

Method	GET
Path	/api/v2/objspec/session_command

GET /api/v2/objspec/session_command

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/objspec/session_command'
```

1.35.3 List Session Commands

Retrieve all commands executed during a specific session.

Request

Method	GET
Path	/api/v2/session/<session_id>/command

GET /api/v2/session/<session_id>/command

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/session/5980780305148018689/command'
```

Response (With Commands)

```
{
  "result": "success",
  "session_command": [
    {
      "id": "5980780305148018703",
      "session_id": "5980780305148018739",
      "occurred_at": "2026-06-09 01:09:15.639699-07",
      "command": "\/usr\/bin\/id",
      "runas_user": "testuser1",
      "runas_group": "testuser1",
      "policy_id": "5980780305148018689",
      "regexp_id": "5980780305148018689",
      "approved": true,
      "created_at": "2026-06-09 01:09:15.641225-07",
      "modified_at": "2026-06-09 01:09:15.641225-07"
    },
    {
      "id": "5980780305148018705",
      "session_id": "5980780305148018739",
      "occurred_at": "2026-06-09 01:09:31.990782-07",
      "command": "\/usr\/bin\/id",
      "runas_user": "root",
      "runas_group": "root",
      "policy_id": "5980780305148018689",
      "regexp_id": "5980780305148018689",
      "approved": true,
```

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```

        "created_at": "2026-06-09 01:09:31.992218-07",
        "modified_at": "2026-06-09 01:09:31.992218-07"
      }
    ]
  }
}

```

1.35.4 Get Specific Session Command

Retrieve details of a specific command executed during a session.

Request

Method	GET
Path	/api/v2/session/<session_id>/command/<id>

GET /api/v2/session/<session_id>/command/<id>

Example Request

```

curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.2.132/api/v2/session/5980780305148018689/command/
  ↪5980780305148018703'

```

Success Response

```

{
  "result": "success",
  "session_command": [
    {
      "id": "5980780305148018703",
      "session_id": "5980780305148018689",
      "occurred_at": "2026-06-09 01:09:15.639699-07",
      "command": "\/usr\/bin\/id",
      "runas_user": "testuser1",
      "runas_group": "testuser1",
      "policy_id": "5980780305148018689",
      "regex_id": "5980780305148018689",
      "approved": true,
      "created_at": "2026-06-09 01:09:15.641225-07",
      "modified_at": "2026-06-09 01:09:15.641225-07"
    }
  ]
}

```

1.36 AI Session Analysis Agents NEW

An analysis agent is a named prompt that a large language model applies to live session traffic. Each agent runs on an LLM provider and is attached to the safes whose sessions it should watch. While a session runs, its agents store verdicts describing what they found.

Note

Live session analysis must be switched on globally before any agent runs, and agents only start on sessions established after it was enabled.

1.36.1 Data Structures

Table 107: AnalysisAgentModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
name	string	yes	Agent name. Case-insensitive. Uniqueness is required.
description	string		One-line summary of what this agent looks for. May be empty.
system_prompt	string	yes	The agent's system prompt, combined with the system-owned verdict contract into the analyzer prompt. At most 4000 characters.
provider_id	string		LLM provider this agent runs on. An agent without one does not run.
provider_name	string		Read-only; expensive to use. Name of the attached LLM provider.
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Table 108: SafeAnalysisAgentModel

Attribute	Type	Required	Description
id	string		Read-only; protected.
safe_id	string	yes	Immutable. Uniqueness is required in the combination of attribute safe_id with attribute agent_id . Requires read right on the safe object for GET , and modify for POST and DELETE .
agent_id	string	yes	Immutable. Uniqueness is required in the combination of attribute agent_id with attribute safe_id .
safe_name	string		Read-only; expensive to use.
agent_name	string		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if true , the object is not editable.
hidden	boolean		Read-only; expensive to use; if true , the object is hidden in UI.

Table 109: LiveAnalysisEnableModel

Attribute	Type	Required	Description
enabled	boolean; default value false	yes	Live session analysis is enabled. New sessions are monitored while this is on; sessions already running are unaffected by changes.

1.36.2 Retrieve Available Attributes

Request

Method	GET
Path	/api/v2/objspec/analysis_agent, /api/v2/objspec/safe_analysis_agent, /api/v2/objspec/live_analysis_enable

GET /api/v2/objspec/analysis_agent

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/objspec/analysis_agent'
```

1.36.3 List Analysis Agents

Request

Method	GET
Path	/api/v2/analysis_agent

GET /api/v2/analysis_agent

Fudo Enterprise ships with built-in agents, reported with `builtin` set to `true`.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/analysis_agent'
```

Response

```
{
  "result": "success",
  "analysis_agent": [
    {
      "id": "2",
      "name": "Privilege escalation",
      "description": "Detects attempts to gain elevated privileges.",
      "system_prompt": "You are watching a live SSH session solely for
↪privilege escalation: sudo and su misuse, setuid binaries, kernel or service
↪exploits, credential harvesting from files or memory, capability abuse and
↪container escapes, and changes to accounts, groups, or authentication
↪configuration.",
      "builtin": true,
      "hidden": false,
      "created_at": "2026-08-14 07:29:06.256735-07",
      "modified_at": "2026-08-14 07:29:06.256735-07"
    }
  ]
}
```

Note

The `system_prompt` of the built-in agents is abbreviated in this example.

1.36.4 Get an Analysis Agent

Request

Method	GET
Path	/api/v2/analysis_agent/<id>

GET /api/v2/analysis_agent/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/analysis_agent/4638707616191610881'
```

Response

```
{
  "result": "success",
  "analysis_agent": {
    "id": "4638707616191610881",
    "name": "Database exfiltration",
    "description": "Detects bulk reads from production databases.",
    "system_prompt": "You are watching a live session solely for bulk
↪ extraction of data from production databases: unbounded SELECTs, dumps to
↪ local files, and transfers of result sets off the host. Severity: routine
↪ queries consistent with the session context are low; large unfiltered reads
↪ are medium; a dump written out or transferred off the host is high.",
    "provider_id": "4638707616191610881",
    "provider_name": "Local Ollama",
    "builtin": false,
    "hidden": false,
    "created_at": "2026-08-18 02:21:19.074407-07",
    "modified_at": "2026-08-18 02:21:19.074407-07"
  }
}
```

1.36.5 Create an Analysis Agent

Request

Method	POST
Path	/api/v2/analysis_agent
Body	AnalysisAgentModel

POST /api/v2/analysis_agent

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"name": "Database exfiltration", "description": "Detects bulk reads from
↪ production databases.", "system_prompt": "You are watching a live session
↪ solely for bulk extraction of data from production databases: unbounded
↪ SELECTs, dumps to local files, and transfers of result sets off the host.",
↪ "provider_id": "4638707616191610881"}' \
'https://10.33.3.191/api/v2/analysis_agent'
```

Response

```
{
  "result": "success",
  "analysis_agent": {
    "id": "4638707616191610881"
  }
}
```

1.36.6 Modify an Analysis Agent

Request

Method	PATCH
Path	/api/v2/analysis_agent/<id>
Body	AnalysisAgentModel

PATCH /api/v2/analysis_agent/<id>

Example Request

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"description": "Detects bulk reads from production databases and dumps,
  ↳taken off the host."}' \
  'https://10.33.3.191/api/v2/analysis_agent/4638707616191610881'
```

Response

```
{
  "result": "success"
}
```

1.36.7 Delete an Analysis Agent

Request

Method	DELETE
Path	/api/v2/analysis_agent/<id>

DELETE /api/v2/analysis_agent/<id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/analysis_agent/4638707616191610881'
```

Response

```
{
  "result": "success"
}
```

1.36.8 List Safe Assignments

Request

Method	GET
Path	/api/v2/safe/analysis_agent

GET /api/v2/safe/analysis_agent

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/safe/analysis_agent'
```

Response

```
{
  "result": "success",
  "safe_analysis_agent": [
    {
      "safe_id": "4638707616191610881",
      "agent_id": "1",
      "safe_name": "main",
      "agent_name": "SSH security",
      "created_at": "2026-08-18 02:19:24.161485-07",
      "modified_at": "2026-08-18 02:19:24.161485-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

1.36.9 Get a Safe Assignment

Request

Method	GET
Path	/api/v2/safe/<safe_id>/analysis_agent/<agent_id>

GET /api/v2/safe/<safe_id>/analysis_agent/<agent_id>

Example Request


```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/safe/4638707616191610881/analysis_agent/1'
```

Response

```
{
  "result": "success",
  "safe_analysis_agent": {
    "safe_id": "4638707616191610881",
    "agent_id": "1",
    "safe_name": "main",
    "agent_name": "SSH security",
    "created_at": "2026-08-18 02:19:24.161485-07",
    "modified_at": "2026-08-18 02:19:24.161485-07",
    "builtin": false,
    "hidden": false
  }
}
```

1.36.10 Attach an Agent to a Safe

Request

Method	POST
Path	/api/v2/safe/analysis_agent
Body	SafeAnalysisAgentModel

POST /api/v2/safe/analysis_agent

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"safe_id":"4638707616191610881","agent_id":"1"}' \
'https://10.33.3.191/api/v2/safe/analysis_agent'
```

Response

```
{
  "result": "success"
}
```

1.36.11 Detach an Agent from a Safe

Request

Method	DELETE
Path	/api/v2/safe/<safe_id>/analysis_agent/<agent_id>

DELETE /api/v2/safe/<safe_id>/analysis_agent/<agent_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/safe/4638707616191610881/analysis_agent/1'
```

Response

```
{
  "result": "success"
}
```

1.36.12 Get the Live Analysis Switch

Request

Method	GET
Path	/api/v2/live_analysis/enable

GET /api/v2/live_analysis/enable

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/live_analysis/enable'
```

Response

```
{
  "enabled": false,
  "result": "success"
}
```

1.36.13 Switch Live Analysis On or Off

Request

Method	PATCH
Path	/api/v2/live_analysis/enable
Body	LiveAnalysisEnableModel

PATCH /api/v2/live_analysis/enable

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
```

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```
-d '{"enabled":true}' \
'https://10.33.3.191/api/v2/live_analysis/enable'
```

Response

```
{
  "result": "success"
}
```

1.37 AI Session Analysis Results NEW

While a monitored session runs, each analysis agent attached to its safe stores what it found. The results are exposed at two levels: one row per agent summarising its work on the session, and one verdict per finding. An operator can adjudicate a verdict - confirm it or mark it a false positive - and that judgment is recorded as a separate feedback object.

Configuring the agents themselves is described in *AI Session Analysis Agents NEW*.

1.37.1 Data Structures

Table 110: SessionAnalysisAgentModel

Attribute	Type	Required	Description
id	string	yes	Read-only.
session_id	string		ID of the session this analysis belongs to.
user_id	string		Read-only; hidden; expensive to use. Virtual attribute that filters out sessions not granted to the subject. Requires <code>session-view</code> right on object type <code>user</code> .
agent_id	string		Read-only. Analysis agent this row describes.
agent_name	string		Read-only; expensive to use. Name of the agent. Resolves even after the agent is removed, so old analyses stay attributed.
status	string {live, finished, failed}		Read-only; expensive to use. Whether the agent is still analyzing the session. <code>finished</code> and <code>failed</code> are both terminal.
current_severity	string {unknown, low, medium, high}		Read-only; expensive to use. Severity of the agent's latest verdict. <code>unknown</code> marks a coverage gap: the latest batch could not be analyzed.
peak_severity	string {unknown, low, medium, high}		Read-only; expensive to use. Highest severity the agent reported for the session.
latest_summary	string		Read-only. Summary of the agent's latest verdict.
verdict_count	number		Read-only. Number of verdicts the agent stored for the session.
provider_name	string		Read-only. Name the LLM provider had when the analysis started.
provider_kind	string		Read-only. Provider kind the analysis ran on.
provider_url	string		Read-only. Endpoint the analysis was sent to.
provider_model	string		Read-only. Model that produced the verdicts.
tokens_in	number		Read-only. Prompt tokens the agent consumed for the session.
tokens_out	number		Read-only. Completion tokens the agent consumed for the session.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Table 111: SessionAnalysisVerdictModel

Attribute	Type	Required	Description
id	string		Read-only.
session_id	string	yes	ID of the session this verdict belongs to.
user_id	string		Read-only; hidden; expensive to use. Virtual attribute that filters out sessions not granted to the subject. Requires session-view right on object type user .
severity	string {unknown, low, medium, high}		Read-only; expensive to use. Severity reported by this verdict. unknown marks a batch that could not be analyzed.
summary	string		Read-only; expensive to use. Human readable summary of the verdict.
indicators	string-array		Read-only; expensive to use. Indicators backing the verdict.
first_event	number		Read-only. First session event covered by the verdict.
last_event	number		Read-only. Last session event covered by the verdict.
time_offset_ms	number		Read-only. Offset within the session, in milliseconds, where the analyzed batch ended - the moment to play, since the activity the verdict describes has happened by then.
agent_id	string		Read-only; expensive to use. Agent that produced the verdict.
agent_name	string		Read-only; expensive to use. Name of that agent. Resolves even after the agent is removed.
judgment	string {confirmed, false_positive}		Read-only; expensive to use. Operator judgment recorded for this verdict, if any.
override_sever	string {low, medium, high}		Read-only; expensive to use. Severity the operator considers correct, overriding severity .
judged_by	string		Read-only; expensive to use. Operator who recorded the judgment.
feedback_id	string		Read-only; expensive to use. Identifier of the adjudication row, used to update or retract it.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Table 112: SessionAnalysisVerdictFeedbackModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
verdict_id	string	yes	Immutable. Verdict this adjudication belongs to.
user_id	string		Read-only; hidden; expensive to use. Virtual attribute gating access to the session the verdict belongs to. Requires session-view right on object type user .
judgment	string {confirmed, false_positive}	yes	Operator judgment on the verdict.
override_severity	string {low, medium, high}		Severity the operator considers correct, overriding the verdict severity.
note	string		Free-form operator note explaining the judgment. May be empty.
judged_by	string		Immutable. Operator who recorded this judgment.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Note

The session object carries the same results in aggregated form - **analysis_status**, **analysis_severity**, **analysis_peak_severity**, **analysis_summary** and **analysis_verdict_count** on the **SessionModel**. Use those when listing sessions, and the endpoints below when you need the per-agent or per-verdict detail.

1.37.2 Retrieve Available Attributes

Request

Method	GET
Path	/api/v2/objspec/session_analysis_agent, /api/v2/ objspec/session_analysis_verdict, /api/v2/objspec/ session_analysis_verdict_feedback

GET /api/v2/objspec/session_analysis_verdict

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.167/api/v2/objspec/session_analysis_verdict'
```

1.37.3 List Per-Agent Analyses

Request

Method	GET
Path	/api/v2/session/analysis_agent

GET /api/v2/session/analysis_agent

Restrict the result to one session with the `filter` parameter, for example `?filter=session_id.eq(<session_id>)`.

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.167/api/v2/session/analysis_agent?filter=session_id.
  ↪eq(549439154539200513)'
```

Response

```
{
  "result": "success",
  "session_analysis_agent": [
    {
      "id": "549439154539200513",
      "session_id": "549439154539200513",
      "agent_id": "549439154539200513",
      "agent_name": "Agent_1",
      "status": "live",
      "current_severity": "medium",
      "peak_severity": "medium",
      "latest_summary": "The user attempts to list theirsudo permissions
      ↪by running `sudo -l`, which requires a password. This action is part of
      ↪administrative tasks and warrants human review.",
      "verdict_count": 1,
      "provider_name": "Fudo_AI",
      "provider_kind": "ollama",
      "provider_url": "http://10.0.240.10:11435/api/chat",
      "provider_model": "qwen2.5",
      "tokens_in": 2878,
      "tokens_out": 105,
      "created_at": "2026-08-18 11:15:17.903392-07",
      "modified_at": "2026-08-18 11:17:09.995082-07"
    }
  ]
}
```

Note

`provider_name`, `provider_kind`, `provider_url` and `provider_model` record what the analy-

sis actually ran on, so the values stay meaningful after the provider is reconfigured or removed. `tokens_in` and `tokens_out` let you attribute model cost to a session.

1.37.4 List Verdicts

Request

Method	GET
Path	/api/v2/session/analysis_verdict

GET /api/v2/session/analysis_verdict

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.167/api/v2/session/analysis_verdict?filter=session_id.
  ↳eq(549439154539200513)'
```

Response

```
{
  "result": "success",
  "session_analysis_verdict": [
    {
      "id": "549439154539200513",
      "session_id": "549439154539200513",
      "severity": "medium",
      "summary": "The user attempts to list theirsudo permissions by
      ↳running `sudo -l`, which requires a password. This action is part of
      ↳administrative tasks and warrants human review.",
      "first_event": 78,
      "last_event": 95,
      "time_offset_ms": 102850,
      "agent_id": "549439154539200513",
      "agent_name": "Agent_1",
      "created_at": "2026-08-18 11:17:09.991808-07",
      "modified_at": "2026-08-18 11:17:09.991808-07"
    }
  ]
}
```

Note

Use `time_offset_ms` to position the session player - the activity the verdict describes has already happened by that offset. `first_event` and `last_event` identify the same fragment in terms of session events.

The adjudication attributes - `judgment`, `override_severity`, `judged_by` and `feedback_id` - are absent until a verdict is adjudicated.

1.37.5 Adjudicate a Verdict

Request

Method	POST
Path	/api/v2/session/analysis_verdict/feedback
Body	SessionAnalysisVerdictFeedbackModel

POST /api/v2/session/analysis_verdict/feedback

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"verdict_id":"549439154539200513","judgment":"confirmed","override_
↪severity":"low","note":"Routine sudo -l by an administrator; recorded for
↪completeness."}' \
  'https://10.33.3.167/api/v2/session/analysis_verdict/feedback'
```

Response

```
{
  "result": "success",
  "session_analysis_verdict_feedback": {
    "id": "549439154539200513"
  }
}
```

Once the adjudication exists, the verdict reports it:

```
{
  "id": "549439154539200513",
  "severity": "medium",
  "judgment": "confirmed",
  "override_severity": "low",
  "judged_by": "549439154539200513",
  "feedback_id": "549439154539200513"
}
```

Note

severity keeps the value the agent reported. **override_severity** records what the operator considers correct, so both the model's answer and the human correction remain visible.

1.37.6 List Adjudications

Request

Method	GET
Path	/api/v2/session/analysis_verdict/feedback

GET /api/v2/session/analysis_verdict/feedback

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.167/api/v2/session/analysis_verdict/feedback'
```

Response

```
{
  "result": "success",
  "session_analysis_verdict_feedback": [
    {
      "id": "549439154539200513",
      "verdict_id": "549439154539200513",
      "judgment": "confirmed",
      "override_severity": "low",
      "note": "Routine sudo -l by an administrator; recorded for ↵
↵completeness.",
      "judged_by": "549439154539200513",
      "created_at": "2026-08-18 11:18:16.703842-07",
      "modified_at": "2026-08-18 11:18:16.703842-07"
    }
  ]
}
```

1.37.7 Modify an Adjudication

Request

Method	PATCH
Path	/api/v2/session/analysis_verdict/feedback/<id>
Body	SessionAnalysisVerdictFeedbackModel

PATCH /api/v2/session/analysis_verdict/feedback/<id>

Attributes left out of the body keep their current values.

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{"judgment":"false_positive","note":"Reclassified after review: the ↵
↵operator was authorised for this check."}' \
'https://10.33.3.167/api/v2/session/analysis_verdict/feedback/ ↵
↵549439154539200513'
```

Response

```
{
  "result": "success"
}
```

1.37.8 Retract an Adjudication

Request

Method	DELETE
Path	/api/v2/session/analysis_verdict/feedback/<id>

DELETE /api/v2/session/analysis_verdict/feedback/<id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.33.3.167/api/v2/session/analysis_verdict/feedback/
  ↪549439154539200513'
```

Response

```
{
  "result": "success"
}
```

Retracting the adjudication clears it from the verdict, which returns to reporting only what the agent found:

```
{
  "id": "549439154539200513",
  "severity": "medium",
  "judgment": null,
  "override_severity": null,
  "feedback_id": null
}
```

1.38 Reports

This section describes the API endpoints related to report management. The reporting functionality is based on three core data models that represent report definitions, report subscriptions, and generated reports.

The following data models are used:

- **ReportModel** – represents a report generated on demand for a specific subset of sessions, defined by filtering parameters.
- **DefinedReportSubscriptionModel** – represents a user-defined subscription for automatic, periodic report generation.

- **DefinedReportModel** – represents a user-defined periodic report definition based on custom filtering parameters.

1.38.1 Data Structures: *ReportModel*

Table 113: ReportModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier
title	string		Report title.
defined_report_id	string		Defined report identifier.
report_type	string		Read-only. Expensive to use.
generated_at	string		Read-only. Report generated timestamp.
created_by	string		Identifier of the user who created the report.
query_filter	string		Query filter used to create the report.
query_order	string		Query order of returned values used to create the report.
created_on	string		Read-only.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only

1.38.2 Retrieve Available Attributes of the *ReportModel*

Request

Method	GET
Path	/api/v2/objspec/report

1.38.3 Data Structures: *DefinedReportSubscriptionModel*

A report subscription is a configuration that enables automatic generation of a report for a user at defined intervals.

Table 114: DefinedReportSubscriptionModel

Attribute	Type	Required	Description
id	string		Unique and read-only report subscription identifier
defined_report_id	string		Defined report identifier.
user_id	string		Identifier of the user who created the report. Requires read right on the user object for GET, POST, and DELETE operations.

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Table 114 – continued from previous page

Attribute	Type	Required	Description
period	string {day, week, month, quarter, year}		Period of generating reports.
created_by	string		Identifier of the user who created the report.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only

1.38.4 Retrieve Available Attributes of the *DefinedReportSubscriptionModel*

Request

Method	GET
Path	/api/v2/objspec/defined_report_subscription

1.38.5 Data Structures: *DefinedReportModel*

Table 115: DefinedReportModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier
title	string		Defined report title.
type	string		Immutable. Defined report type.
query_filter	string		Query filter used to create the report.
query_order	string		Query order of returned values used to create the report.
created_by	string		Immutable. Identifier of the user who created the report.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only
builtin	boolean		Read-only; Expensive to use; If true , the object is not editable.
hidden	boolean		Read-only; Expensive to use; If true , the object is hidden in UI.

1.38.6 Retrieve Available Attributes of the *DefinedReportModel*

Request

Method	GET
Path	/api/v2/objspec/defined_report

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.38.7 Get List of Generated Reports

Request

Method	GET
Path	/api/v2/report

Example Request

GET /api/v2/report

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/report'
```

1.38.8 Get List of Predefined Report Definitions

Request

Method	GET
Path	/api/v2/report/defined

Example Request

GET /api/v2/report/defined

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/report/defined'
```

1.38.9 Get List of Subscriptions to Periodic Reports

Request

Method	GET
Path	/api/v2/report/subscription

Example Request

GET /api/v2/report/subscription

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/report/subscription'
```

1.38.10 Get or Download Report File

Request

Method	GET
Path	/api/v2/report/<id>/<ext>
Path	/api/v2/report/download/<id>/<ext>

You can use one of three available extensions: csv, pdf, or html.

Example Request

GET /api/v2/report/<id>/html

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/report/9124292845052624897/html'
```

Response

Report in HTML.

1.38.11 Subscribe to a Periodic Report

This endpoint creates a subscription for a periodic report for the currently authenticated user, enabling automatic report generation based on the configured schedule.

Request

Method	POST
Path	/api/v2/report/subscription
Headers	Content-Type: Application/json
Body	DefinedReportSubscriptionModel

In the table below are the **defined_report_id** values and their corresponding titles required to subscribe to a predefined periodic report.

Table 116: ReportModel

Value of defined_report_id	Periodic Report Type
5	System report
6	Account access report
7	Safe access report
8	Server access report
9	Session approvals by user
10	Session sharing invites by user
11	Session summary
12	Sessions by server report
13	User access report
14	User activity report
15	User privilege report
16	User report

Note

You can also check the list of available defined report ID's using the GET `/api/v2/report/defined` endpoint.

Example Request

POST `/api/v2/report/subscription`

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/report/subscription' \
  -d '{"period": "day", "defined_report_id": "6"}'
```

Response

```
{
  "defined_report_subscription": {
    "id": "9124292845052624899"
  },
  "result": "success"
}
```

1.38.12 Create New Report Definition (Custom Filter)

This endpoint allows defining a new periodic report based on custom filtering parameters. The defined report is visible in the **Sessions** view under the **Custom filters** list and can later be used to create a report subscription.

Request

Method	POST
Path	<code>/api/v2/report/defined</code>
Headers	Content-Type: Application/json
Body	DefinedReportModel

Example Request

POST `/api/v2/report/defined`

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/report/defined' \
  -d '{
    "title": "TestingAAA",
    "type": "system",
    "query_filter": "created_at.ge(2025-12-09T12%3A00%3A51.564Z),
    ↪created_at.le(2026-01-10T12%3A00%3A51.564Z),subprotocol.iin(rdp),user_id.
    ↪in(1224979098644774913),retention_locked,!finished_at.isnull(),status.
```

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```

    iin(approved)",
      "query_order": "!finished_at"
    }'

```

Response

```

{
  "defined_report": {
    "id": "9124292845052624900"
  },
  "result": "success"
}

```

Note

For details about filtering, see *Parameters*.

1.38.13 Generate User Report on Demand

A report can be generated on demand for a specific subset of sessions, defined by filtering parameters.

Note

You can also check the list of available defined report ID's using the GET `/api/v2/report/defined` endpoint.

Request

Method	POST
Path	/api/v2/report
Headers	Content-Type: Application/json
Body	ReportModel

Example Request

POST `/api/v2/report`

```

curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/report' \
  -d '{"criteria": [{"field": "protocol", "value": "ssh"}, {"field": "user", "value":
    "5620492334958379010"}]}'

```

Response

```
{
  "report": {
    "id": "5620492334958379016"
  },
  "result": "success"
}
```

1.38.14 Update Report Definition (Custom Filter)

Request

Method	PATCH
Path	/api/v2/report/defined/<id>
Headers	Content-Type: Application/json
Body	DefinedReportModel

Example Request

PATCH /api/v2/report/defined/<id>

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/report/defined/9124292845052624900' \
-d'{
    "title": "Updated Custom Report",
    "query_filter": "created_at.ge(2025-12-09T12%3A00%3A51.564Z),
↪created_at.le(2026-01-10T12%3A00%3A51.564Z),subprotocol.iin(rdp),user_id.
↪in(1224979098644774913),retention_locked,!finished_at.isnull(),status.
↪iin(approved)",
    "query_order": "!finished_at"
}'
```

Response

```
{
  "result": "success"
}
```

1.38.15 Delete Generated User Report

Request

Method	DELETE
Path	/api/v2/report/<id>

Example Request

DELETE /api/v2/report/<id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/report/9124292845052624902'
```

Response

```
{
  "result": "success"
}
```

1.38.16 Delete Report Definition (Custom Filter)

Request

Method	DELETE
Path	/api/v2/report/defined/<id>

Example Request

DELETE /api/v2/report/defined/<id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/report/defined/9124292845052624900'
```

Response

```
{
  "result": "success"
}
```

1.38.17 Unsubscribe from a Recurring Report

Request

Method	DELETE
Path	/api/v2/report/subscription/<id>

Example Request

DELETE /api/v2/report/subscription/<id>

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/report/subscription/9124292845052624902'
```

Response

```
{
  "result": "success"
}
```

1.39 User Productivity Analytics

Fudo Enterprise provides comprehensive analytics on user productivity and session activity patterns.

Note

If the license disables productivity analysis, all requests to this endpoint are rejected with the 403 Forbidden status.

1.39.1 Data Structures

Table 117: ProductivityModel

Attribute	Type	Required	Description
user_id	string		Unique user identifier. Read-only. Group-by enabled. Requires read capability on user object.
user_name	string		User name. Read-only. Group-by enabled.
user_organizat	string		User organization. Read-only. Group-by enabled.
started_at	datetime		Session start timestamp. Filter-only.
active_time	number		Time that user was active. Read-only. Expensive to use.
total_time	number		Total time of the session(s). Read-only. Expensive to use.
idle_time	number		Time user was inactive. Read-only. Expensive to use.
productivity	string		Productivity score/classification. Read-only. Expensive to use.
session_count	number		Number of sessions. Read-only. Expensive to use.
server_count	number		Number of unique servers accessed. Read-only. Expensive to use.
daily_aggregat	object-array		Daily aggregation of time properties and productivity for each day. Read-only. Hidden. Expensive to use.
active	boolean		User activity status. Read-only. Filter-only. Expensive to use.
destination_ip	string		Destination IP address. Filter-only.
destination_po	number		Destination port. Filter-only.
ml_threat_leve	number		Machine learning threat level. Filter-only.
protocol	string		Protocol used. Filter-only.
replicated_on_	string-array		List of nodes that session was fully replicated on. Filter-only. Read-only. Expensive to use.
retention_lock	boolean		Retention lock status. Filter-only.
account_id	string		Account identifier. Filter-only.
listener_id	string		Listener identifier. Filter-only.
safe_id	string		Safe identifier. Filter-only.
server_id	string		Server identifier. Filter-only.

1.39.2 Retrieve Available Attributes of the *ProductivityModel*

Request

Method	GET
Path	/api/v2/objspec/productivity

GET /api/v2/objspec/productivity

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.31.124.76/api/v2/objspec/productivity'
```

1.39.3 Get User Productivity Analytics

Request

Method	GET
Path	/api/v2/productivity

GET /api/v2/productivity

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.31.124.76/api/v2/productivity'
```

Response

```
{  
  "result": "success",  
  "productivity": [  
    {  
      "user_id": "8259601716597489665",  
      "user_name": "john.doe",  
      "user_organization": "IT Department",  
      "active_time": 7200,  
      "total_time": 8400,  
      "idle_time": 1200,  
      "productivity": "37.9844961240310078",  
      "session_count": 5,  
      "server_count": 2  
    }  
  ]  
}
```

1.40 Logs

System log is an internal registry of users activities which influence system state (login information, administrative actions, etc.).

1.40.1 Data Structures

Table 118: LogModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
facility_name	string	yes	Read-only. Uniqueness is required.
severity_id	string {2, 3, 4, 6, 7}	yes	Read-only. Values: 2 = Critical, 3 = Error, 4 = Warning, 6 = Info, 7 = Debug.
type_name	string	yes	Read-only.
debuglevel	string	yes	Read-only.
message	string	yes	Read-only.
account_id	string		Read-only. Requires read right on object type account for GET requests.
account_name	string		Read-only.
account_removed	boolean		Read-only.
account_secret_id	string		Read-only.
account_secret_removed	boolean		Read-only.
collection_id	string		Read-only.
collection_name	string		Read-only.
collection_removed	boolean		Read-only.
listener_id	string		Read-only.
listener_name	string		Read-only.
listener_removed	boolean		Read-only.
pool_id	string		Read-only. Requires read right on object type pool for GET requests.
pool_name	string		Read-only.
pool_removed	boolean		Read-only.
secret_id	string		Read-only.
secret_name	string		Read-only.
secret_removed	boolean		Read-only.
safe_id	string		Read-only. Requires read right on object type safe for GET requests.
safe_name	string		Read-only.
safe_removed	boolean		Read-only.
session_id	string		Read-only.
server_id	string		Read-only. Requires read right on object type server for GET requests.

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Table 118 – continued from previous page

Attribute	Type	Required	Description
server_name	string		Read-only.
server_removed	boolean		Read-only.
subject_id	string		Read-only. ID of the object that is the subject of this log, e.g. superadmin giving operator access to user. Requires read right on object type user for GET requests.
subject_name	string		Read-only.
subject_removed	boolean		Read-only.
user_id	string		Read-only. Requires read right on object type user for GET requests.
user_name	string		Read-only.
user_removed	boolean		Read-only.
user_extra_id	string		Read-only. E.g., ID of the user whose specifications another user was granted access to. Requires read right on object type user for GET requests.
user_extra_name	string		Read-only.
user_extra_removed	boolean		Read-only.
node_serial	string		Read-only.
node_name	string		Read-only.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.40.2 Retrieve Available Attributes of the *LogModel*

Request

Method	GET
Path	/api/v2/objspec/log

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.40.3 Get Log List

Example Request

GET /api/v2/log`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/log'
```

1.41 Syslog Server Management

Note

Syslog server endpoints allow configuring external syslog servers to receive log messages from the system. Supports both TCP and UDP transports with optional TLS encryption for TCP connections.

1.41.1 Data Structures

Table 119: SyslogServerModel

Attribute	Type	Required	Description
id	string		Read-only. Unique ID of the syslog server.
name	string	yes	Unique. Syslog server name (case-insensitive).
host	string	yes	Hostname or IP address.
port	number		Port number. Default: 6514.
transport	string		Transport protocol: <code>tcp</code> or <code>udp</code> . Default: <code>tcp</code> .
protocol	string		Syslog wire format: <code>rfc3164</code> or <code>rfc5424</code> . Default: <code>rfc3164</code> .
tls	boolean		Enable TLS encryption (TCP only). Default: <code>false</code> .
tls_certificate	string		CA certificate for TLS verification. Requires <code>tls=true</code> .
enabled	boolean		Enable or disable this server. Default: <code>true</code> .
debug	boolean		Enable debug logging. Default: <code>false</code> .
object_name	boolean		Include object names in log messages. Default: <code>false</code> .
created_at	datetime		Read-only. Creation timestamp.
modified_at	datetime		Read-only. Last modification timestamp.
removed	boolean		Read-only. Soft delete flag.

1.41.2 Retrieve Available Attributes of the *SyslogServerModel*

Request

Method	GET
Path	/api/v2/objspec/syslog_server

GET /api/v2/objspec/syslog_server

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/objspec/syslog_server'
```

1.41.3 List Syslog Servers

Retrieve all configured syslog servers.

Request

Method	GET
Path	/api/v2/syslog_server

GET /api/v2/syslog_server

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/syslog_server'
```

Response (With Servers)

```
{
  "result": "success",
  "syslog_server": [
    {
      "id": "5980780305148018689",
      "name": "primary-syslog",
      "host": "syslog.example.com",
      "port": 514,
      "transport": "udp",
      "protocol": "rfc3164",
      "tls": false,
      "enabled": true,
      "debug": false,
      "object_name": false,
      "created_at": "2026-06-09 05:31:21.487119-07",
      "modified_at": "2026-06-09 05:31:21.487119-07"
    }
  ]
}
```

1.41.4 Get Syslog Server Details

Retrieve details of a specific syslog server.

Request

Method	GET
Path	/api/v2/syslog_server/<id>

GET /api/v2/syslog_server/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/syslog_server/5980780305148018689'
```

Response

```
{
  "result": "success",
  "syslog_server": {
    "id": "5980780305148018689",
    "name": "test-syslog",
    "host": "192.168.1.100",
    "port": 6514,
    "transport": "tcp",
    "protocol": "rfc5424",
    "tls": false,
    "enabled": true,
    "debug": false,
    "object_name": false,
    "created_at": "2026-06-09 05:31:21.487119-07",
    "modified_at": "2026-06-09 05:31:21.487119-07"
  }
}
```

1.41.5 Create Syslog Server

Add a new syslog server configuration.

Request

Method	POST
Path	/api/v2/syslog_server
Headers	Content-Type: application/json
Body	SyslogServerModel (name and host required)

POST /api/v2/syslog_server

Example Request - Basic UDP Configuration

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
```

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```
"name": "test-syslog",
"host": "192.168.1.100",
"port": 514,
"transport": "udp"
}' \
'https://10.33.2.132/api/v2/syslog_server'
```

Example Request - TLS-Enabled TCP Configuration

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "name": "secure-syslog",
  "host": "syslog.example.com",
  "port": 6514,
  "transport": "tcp",
  "tls": true,
  "tls_certificate": "-----BEGIN CERTIFICATE-----\nMIIC..."
}' \
'https://10.33.2.132/api/v2/syslog_server'
```

Example Request - RFC 5424 Log Format

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "name": "siem-syslog",
  "host": "siem.example.com",
  "port": 6514,
  "transport": "tcp",
  "protocol": "rfc5424"
}' \
'https://10.33.2.132/api/v2/syslog_server'
```

Success Response

```
{
  "result": "success",
  "syslog_server": {
    "id": "5980780305148018689"
  }
}
```

1.41.6 Update Syslog Server

Modify an existing syslog server configuration.

Request

Method	PATCH
Path	/api/v2/syslog_server/<id>
Headers	Content-Type: application/json
Body	Partial SyslogServerModel

PATCH /api/v2/syslog_server/<id>

Example Request - Change Port and Transport

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "port": 514,
  "transport": "udp"
}' \
'https://10.33.2.132/api/v2/syslog_server/5980780305148018689'
```

Example Request - Enable TLS

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "transport": "tcp",
  "tls": true,
  "tls_certificate": "-----BEGIN CERTIFICATE-----\n..."
}' \
'https://10.33.2.132/api/v2/syslog_server/5980780305148018689'
```

Example Request - Switch the Log Format to RFC 5424

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "protocol": "rfc5424"
}' \
'https://10.33.2.132/api/v2/syslog_server/5980780305148018689'
```

Success Response

```
{
  "result": "success"
}
```

1.41.7 Delete Syslog Server

Remove a syslog server configuration.

Request

Method	DELETE
Path	/api/v2/syslog_server/<id>

DELETE /api/v2/syslog_server/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/syslog_server/5980780305148018689'
```

Success Response

```
{
  "result": "success"
}
```

1.41.8 Configuration Examples

Example 1: Standard UDP Syslog

```
{
  "name": "standard-syslog",
  "host": "syslog.internal.com",
  "port": 514,
  "transport": "udp",
  "enabled": true
}
```

Example 2: Secure TCP with TLS

```
{
  "name": "secure-syslog",
  "host": "syslog.secure.com",
  "port": 6514,
  "transport": "tcp",
  "tls": true,
  "tls_certificate": "<CA_CERTIFICATE>",
  "enabled": true
}
```

Example 3: Debug Configuration

```
{
  "name": "debug-syslog",
  "host": "10.0.0.100",
  "port": 514,
  "transport": "udp",
  "debug": true,
  "object_name": true,
```

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```

    "enabled": true
  }

```

Example 4: RFC 5424 Log Format over TCP with TLS

```

{
  "name": "siem-syslog",
  "host": "siem.example.com",
  "port": 6514,
  "transport": "tcp",
  "protocol": "rfc5424",
  "tls": true,
  "tls_certificate": "<CA_CERTIFICATE>",
  "enabled": true
}

```

Note

- TLS is only supported with TCP transport
- Default port is 6514 for new servers
- Server names are case-insensitive and must be unique
- The `object_name` option includes object names in log messages for better context
- The `protocol` option selects the wire format used for message delivery. With `rfc5424`, the RFC 5424 header is generated for every message and the structured data field is always empty (-); Fudo Enterprise context data stays in the message content

1.42 Notification Filter

1.42.1 Data Structures

Table 120: NotificationFilterModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Uniqueness is required.
<code>user_id</code>	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attributes <code>event_name</code> , <code>event_transport</code> and <code>safe_id</code> . Requires read right on object type <code>user</code> for GET, POST, and DELETE requests.

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Table 120 – continued from previous page

Attribute	Type	Required	Description
safe_id	string	Exactly one of safe_id or collection_id	Immutable. Uniqueness is required in the combination of attribute safe_id with attributes event_name, event_transport and user_id. Requires read right on object type safe for GET, POST, and DELETE requests.
collection_id	string	Exactly one of safe_id or collection_id	Immutable. Uniqueness is required in the combination of attribute collection_id with attributes event_name, event_transport and user_id. Requires read right on object type collection for GET, POST, and DELETE requests.
collection_name	string		Read-only; expensive to use.
event_name	string {safe_add_server, safe_add_user, safe_blocked, safe_create, safe_remove, safe_unblocked, server_blocked, server_create, server_remove, server_unblocked, user_blocked, user_create, user_remove, user_unblocked, session_ai_summary, session_finish, ses- sion_live_analysis, session_ml, ses- sion_regexp, ses- sion_start, ses- sion_sudo, ses- sion_waiting, ses- sion_inject_close, session_inject_open, disk_failure, filesys- tem_full, ac- cess_request_pending, ac- cess_request_accepted ac- cess_request_rejected}	yes	Immutable. Uniqueness is required in the combination of attribute event_name with attributes event_transport, safe_id and user_id.

continues on next page

Table 120 – continued from previous page

Attribute	Type	Required	Description
event_transpor	string {mail, push, slack}	yes	Immutable. Uniqueness is required in the combination of attribute event_transport with attributes event_name, safe_id and user_id.
user_name	string		Read-only; expensive to use.
safe_name	string		Read-only; expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.42.2 Retrieve Available Attributes of the *NotificationFilterModel*

Request

Method	GET
Path	/api/v2/objspec/notification_filter

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.42.3 Get Notifications List

Request

Method	GET
Path	/api/v2/notification_filter

Example Request

GET /api/v2/notification_filter`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/notification_filter'
```

Response

```
{
  "result": "success",
  "notification_filter": {
    "id": "9124292845052624897",
    "user_id": "9124292845052624898",
    "safe_id": "9124292845052624898",
    "event_name": "access_request_accepted",
    "event_transport": "mail",
    "created_at": "2024-06-11 22:21:15.750371-07",
```

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```
}
  "modified_at": "2024-06-11 22:21:15.750371-07"
}
```

1.42.4 Get Notification Filter by ID

Request

Method	GET
Path	/api/v2/notification_filter/<id>

Example Request

GET /api/v2/notification_filter/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/notification_filter/9124292845052624897'
```

Response

```
{
  "result": "success",
  "notification_filter": {
    "id": "9124292845052624897",
    "user_id": "9124292845052624898",
    "safe_id": "9124292845052624898",
    "event_name": "access_request_accepted",
    "event_transport": "mail",
    "created_at": "2024-06-11 22:21:15.750371-07",
    "modified_at": "2024-06-11 22:21:15.750371-07"
  }
}
```

1.42.5 Create Notification Filter

Request

Method	POST
Path	/api/v2/notification_filter
Headers	Content-Type: Application/json
Body	NotificationFilterModel

Example Request

POST /api/v2/notification_filter`

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
```

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```
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/notification_filter' \
-d '{"safe_id": "9124292845052624898", "user_id": "9124292845052624903", "event_
name": "safe_add_server", "event_transport": "mail"}'
```

Response

```
{
  "result": "success",
  "notification_filter": {
    "id": "9124292845052624914"
  }
}
```

1.42.6 Deleting Notification Filter

Request

Method	DELETE
Path	/api/v2/notification_filter/<id>

Example Request

DELETE /api/v2/notification_filter/<id>`

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/notification_filter/9124292845052624897'
```

Response

```
{
  "result": "success"
}
```

1.43 Push Notifications

1.43.1 Data Structures

Table 121: PushNotificationModel

Attribute	Type	Required	Description
id	string		Read-only. Unique notification identifier.

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Table 121 – continued from previous page

Attribute	Type	Required	Description
event_name	string {access_request_accepted, access_request_pending, access_request_rejected, session_ai_summary, session_finish, session_inject_close, session_inject_open, session_live_analysis, session_ml, session_regexp, session_start, session_sudo, session_waiting}		Read-only. Name of event that triggered the notification.
event_type	string {access_request, session}		Read-only. Type of event that triggered the notification.
event_transport	string {mail, push, slack}		Read-only. Transport used to deliver the notification.
event_message	string		Read-only. Additional message associated with the event.
event_argument	string		Read-only; expensive to use. Additional arguments necessary to display the event.
occurred_at	datetime		Read-only. Time when the event occurred.
recipient_id	string		Read-only. ID of the user who is the recipient of the notification.
access_request	string	If event_type == access_re	Read-only. Access request identifier.
access_request	string	If event_type == access_re	Read-only. Access request reason.
access_request	string {expired, granted, pending, rejected}	If event_type == access_re	Read-only; expensive to use. Access request status.
access_request	string {immediate, scheduled, preview}	If event_type == access_re	Read-only. Access request type.

continues on next page

Table 121 – continued from previous page

Attribute	Type	Required	Description
access_request	number	If event_typ == access_re	Read-only; expensive to use. Access request immediate interval (1-24 hours).
access_request	datetime	If event_typ == access_re	Read-only. When access request starts.
access_request	datetime	If event_typ == access_re	Read-only. When access request expires.
access_request	datetime	If event_typ == access_re	Read-only. When access request was created.
access_request	string	If event_nam == access_re	Read-only. Access request rejection reason.
session_id	string	If event_typ == session	Read-only. Session identifier.
session_source	string	If event_typ == session	Read-only. Session source IP address.
session_destin	string	If event_typ == session	Read-only. Session destination IP address.
session_destin	number	If event_typ == session	Read-only. Session destination port.
session_login_	string	If event_typ == session	Read-only. Session login reason.
session_starte	datetime	If event_typ == session	Read-only. When session started.
session_finish	datetime	If event_typ == session	Read-only. When session finished.

continues on next page

Table 121 – continued from previous page

Attribute	Type	Required	Description
session_analys	string {unknown, low, medium, high}	If event_type == session	Read-only. Peak severity reported by live LLM session analysis.
session_ml_thr	number	If event_type == session	Read-only. Session ML threat level.
session_ml_thr	number	If event_type == session	Read-only. Session ML threat level maximum.
session_ml_thr	number	If event_type == session	Read-only. Session ML threat level minimum.
session_summar	string	If event_type == session	Read-only. AI-generated summary of the session.
session_summar	object-array	If event_type == session	Read-only. Session summary key risks.
session_summar	string {unprocessed, pending, processing, succeeded, failed}	If event_type == session	Read-only. Current processing state of the AI summarizer.
session_scores	object-array	If event_type == session	Read-only. Session scores.
account_id	string		Read-only. Account identifier.
account_name	string		Read-only. Account name.
account_login	string		Read-only. Account login.
account_domain	string		Read-only. Account domain.
listener_id	string		Read-only. Listener identifier.
listener_name	string	If event_type == session	Read-only. Listener name.
pool_id	string		Read-only. Pool identifier.
pool_name	string		Read-only. Pool name.
protocol	string {checkout, http, modbus, mysql, oracle, pgsql, rdp, ssh, tcp, tds, telnet, tn3270, tn5250, vnc}		Read-only. Protocol used.

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Table 121 – continued from previous page

Attribute	Type	Required	Description
safe_id	string		Read-only. Safe identifier.
safe_name	string		Read-only. Safe name.
server_id	string		Read-only. Server identifier.
server_name	string		Read-only. Server name.
user_id	string		Read-only. User identifier.
user_domain	string		Read-only. User domain.
user_full_name	string		Read-only. User full name.
user_name	string		Read-only. User name.
user_organizat	string		Read-only. User organization.
user_extra_id	string		Read-only. ID of another user related to the notification: for example user who joined the session.
user_extra_dom	string		Read-only. Extra user domain.
user_extra_nam	string		Read-only. Extra user name.
user_extra_org	string		Read-only. Extra user organization.
policies	object-array	If event_nam == session_a session_l session_m session_r session_s	Read-only. List of policies that triggered the notification.
webclient	boolean		Read-only; expensive to use. Is the access available via the web client or was the session established using the web client?
secret_id	string		Read-only. Secret identifier.
secret_name	string		Read-only. Secret name.
secret_login	string		Read-only. Secret login.
secret_domain	string		Read-only. Secret domain.
secret_descrip	string		Read-only. Secret description.
secret_uris	string-array		Read-only. Secret URIs.
collection_id	string		Read-only. Collection identifier.
collection_nam	string		Read-only. Collection name.

1.43.2 Get Push Notification Object Specification

Request

Method	GET
Path	/api/v2/objspec/push_notification

GET /api/v2/objspec/push_notification

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/objspec/push_notification'
```

Response

```
{
  "result": "success",
  "push_notification": {
    "id": {
      "type": "string",
      "readonly": true,
      "filterable": true
    },
    "event_name": {
      "type": "string",
      "description": "Name of event that triggered the notification",
      "readonly": true,
      "values": [
        "access_request_accepted", "access_request_pending", "access_
        ↪request_rejected",
        "session_ai_summary", "session_finish", "session_inject_close",
        "session_inject_open", "session_ml", "session_regexp",
        "session_start", "session_waiting"
      ],
      "filterable": true
    },
    "event_type": {
      "type": "string",
      "description": "Type of event that triggered the notification",
      "readonly": true,
      "values": ["access_request", "session"],
      "filterable": true
    },
    "event_transport": {
      "type": "string",
      "description": "Transport used to deliver the notification",
      "readonly": true,
      "values": ["mail", "push", "slack"],
      "filterable": true
    },
    "event_message": {
      "type": "string",
      "description": "Additional message associated with the event",
      "readonly": true,
      "filterable": true
    },
    "occurred_at": {
      "type": "string",
```

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```

        "description": "Time when the event occurred",
        "db-subtype": "timestamp",
        "readonly": true,
        "filterable": true
    },
    "session_summary": {
        "type": "string",
        "description": "AI-generated summary of the session.",
        "readonly": true,
        "filterable": true
    }
}
}

```

1.43.3 List Push Notifications

Request

Method	GET
Path	/api/v2/notification/push

GET /api/v2/notification/push

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/notification/push'

```

Response

```

{
  "result": "success",
  "push_notification": [
    {
      "id": "notif123",
      "event_name": "session_ai_summary",
      "event_type": "session",
      "event_transport": "push",
      "event_message": "AI summary generated for session",
      "occurred_at": "2025-01-15T14:30:00Z",
      "session_id": "session_456",
      "session_summary": "User performed database maintenance tasks with
↪elevated privileges.",
      "user_name": "john.doe"
    }
  ]
}

```


1.43.4 Get Push Notification by ID

Request

Method	GET
Path	/api/v2/notification/push/<id>

GET /api/v2/notification/push/<id>

Example Request

```
curl -s -k -X GET \  
  -H 'Authorization: <token>' \  
  'https://10.31.135.179/api/v2/notification/push/notif123'
```

Response

```
{  
  "result": "success",  
  "push_notification": [  
    {  
      "id": "notif123",  
      "event_name": "access_request_pending",  
      "event_type": "access_request",  
      "event_transport": "push",  
      "occurred_at": "2025-01-15T14:30:00Z",  
      "access_request_id": "ar789",  
      "access_request_status": "pending",  
      "user_name": "jane.smith",  
      "safe_name": "Production Safe"  
    }  
  ]  
}
```

1.44 Downloads

The Fudo Enterprise allows for tracking the conversion progress of session recordings and files transferred during SFTP sessions, previously selected for download.

Note

The Files section is designated for managing the downloads of large files that originate from recorded sessions via the SFTP protocol. If the selected file exceeds the 50 MB threshold, it undergoes an encoding process and subsequently appears in the Files tab, ready for download. Files smaller than 50 MB are directly downloaded through the browser without encoding.

1.44.1 Data Structures

Table 122: SessionFileModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier
session_id	string		Read-only. ID of the session to download.
user_id	string		Read-only; hidden; expensive to use. Authorization field that forces the join on the session's user. Requires read right on object type user .
encode_on	string		Read-only. Node on which file was encoded.
handle	number		Read-only.
delta	number		Read-only.
from_server	boolean		Read-only.
error	string		Read-only. Error when file is not ready for download.
size	number		Read-only. Size of downloaded session file in bytes.
session_user	string		Read-only. Expensive. Session user name.
session_user_id	string		Read-only. Expensive. Session user id.
session_server	string		Read-only. Expensive. Session server name.
session_server_id	string		Read-only. Expensive. Session server id.
session_started	string		Read-only. Expensive. Timestamp. Time when session started.
is_converted	boolean		Read-only. Expensive. Encoding is complete and file is ready to download.
progress	number		Read-only. Expensive. Progress of session conversion in percentage.
encode_on_name	string		Read-only. Expensive. Node name on which session was encoded.

1.44.2 Retrieve available attributes of the *SessionFileModel*

Request

Method	GET
Path	/api/v2/objspec/session_file

Table 123: SessionMovieModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier
session_id	string		Read-only. ID of the session to download.

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Table 123 – continued from previous page

Attribute	Type	Required	Description
<code>user_id</code>	string		Read-only; hidden; expensive to use. Authorization field that forces the join on the session's user. Requires read right on object type user .
<code>encode_on</code>	string		Read-only. Node on which session was encoded.
<code>video_resolution</code>	string {auto, hd480, hd720, hd1080}		Read-only.
<code>video_format</code>	string {divx5, fbsdir, flv, mjpeg, mpeg2, pcap, text, webm, xvid}		Read-only.
<code>size</code>	number		Read-only. Size of downloaded session file in bytes.
<code>session_user</code>	string		Read-only. Expensive. Session user name.
<code>session_user_id</code>	string		Read-only. Expensive. Session user id.
<code>session_server</code>	string		Read-only. Expensive. Session server name.
<code>session_server_id</code>	string		Read-only. Expensive. Session server id.
<code>session_started</code>	string		Read-only. Expensive. Timestamp. Time when session started.
<code>is_converted</code>	boolean		Read-only. Expensive. Encoding is complete and file is ready to download.
<code>is_downloadable</code>	boolean		Read-only. Expensive. File is converted and the encoding node is available.
<code>progress</code>	number		Read-only. Expensive. Progress of session conversion in percentage.
<code>encode_on_name</code>	string		Read-only. Expensive. Node name on which session was encoded.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

1.44.3 Retrieve Available Attributes of the *SessionMovieModel*

Request

Method	GET
Path	/api/v2/objspec/session_movie

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.44.4 Get Session Files List

Request

Method	GET
Path	/api/v2/session_file

Example Request

GET /api/v2/session_file`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/session_file'
```

Response

```
{  
  "result": "success",  
  "session_file": [  
    {  
      "id": "1",  
      "session_id": "5620492334958379016",  
      "encode_on": "82984746",  
      "handle": 1,  
      "from_server": true,  
      "size": 56622199,  
      "session_user": "User_1",  
      "session_user_id": "5620492334958379010",  
      "session_server": "SSH_FTP",  
      "session_server_id": "5620492334958379018",  
      "session_started": "2024-06-25 02:43:38.152033-07",  
      "is_converted": true,  
      "is_downloadable": true,  
      "progress": 100  
    }  
  ]  
}
```

1.44.5 Get Session Recordings List

Request

Method	GET
Path	/api/v2/session_movie`

Example Request

GET /api/v2/session_movie`

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/session_movie'
```

Response

```
{  
  "result": "success",  
  "session_movie": [  
    {  
      "id": "5620492334958379009",  
      "session_id": "5620492334958379015",  
      "encode_on": "82984746",  
      "video_resolution": "auto",  
      "video_format": "fbsdir",  
      "size": 2399446,  
      "session_user": "User_1",  
      "session_user_id": "5620492334958379010",  
      "session_server": "SSH_FTP",  
      "session_server_id": "5620492334958379018",  
      "session_started": "2024-06-25 02:25:26.670768-07",  
      "is_converted": true,  
      "is_downloadable": true,  
      "progress": 100,  
      "created_at": "2024-06-25 02:41:07.835711-07",  
      "modified_at": "2024-06-25 02:41:08.047049-07"  
    },  
    {  
      "id": "5620492334958379010",  
      "session_id": "5620492334958379017",  
      "encode_on": "82984746",  
      "video_resolution": "auto",  
      "video_format": "divx5",  
      "size": 3108346,  
      "session_user": "User_1",  
      "session_user_id": "5620492334958379010",  
      "session_server": "RDP_SERVER",  
      "session_server_id": "5620492334958379011",  
      "session_started": "2024-06-25 03:03:46.780874-07",  
      "is_converted": true,  

```

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```

        "is_downloadable": true,
        "progress": 100,
        "created_at": "2024-06-25 03:04:10.370597-07",
        "modified_at": "2024-06-25 03:04:17.472475-07"
      }
    ]
  }
}

```

1.44.6 Downloading Session Files

Request

Method	GET
Path	/api/v2/download/session_file/<id>

Example Request

GET /api/v2/download/session_file/<id>`

```

curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/download/session_file/1'

```

Response

File download is starting.

1.44.7 Downloading Session Recordings

Request

Method	GET
Path	/api/v2/download/session_movie/<id>

Example Request

GET /api/v2/download/session_movie/<id>`

```

curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/download/session_movie/1'

```

Response

Session recording download is starting.

1.44.8 Deleting Session File

Request

Method	DELETE
Path	/api/v2/session_file/<id>

Example Request

DELETE /api/v2/session_file/<id>`

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/session_file/1'
```

Response

```
{  
  "result": "success"  
}
```

1.44.9 Deleting Session Recording

Request

Method	DELETE
Path	/api/v2/session_movie/<id>

Example Request

DELETE /api/v2/session_movie/<id>`

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/session_movie/1'
```

Response

```
{  
  "result": "success"  
}
```

1.45 Machine Learning - Session Scoring

Note

Machine Learning Session Scoring provides anomaly detection capabilities for user sessions. The ML system analyzes session behavior patterns and assigns probability scores to identify potentially anomalous activities.

1.45.1 Data Structures

Table 124: MLSessionScoreModel

Attribute	Type	Required	Description
id	string	yes	Read-only. Hidden. Internal score identifier.
session_id	string		Unique. ID of the session this score is related to.
user_id	string		Read-only. Hidden. Expensive to use. Virtual property used to filter sessions by user permissions.
reject_probabil:	string		Read-only. Expensive to use. Probability of anomalous behavior (0.0 to 1.0).
end_time	datetime		Read-only. Timestamp of the scoring event within the session.
model	string		Read-only. Expensive to use. Name of the ML model profile that produced this score.

1.45.2 Retrieve Available Attributes of the *MLSessionScoreModel*

Request

Method	GET
Path	/api/v2/objspec/ml_session_score

GET /api/v2/objspec/ml_session_score

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/objspec/ml_session_score'
```

1.45.3 List ML Session Scores

Retrieve machine learning anomaly scores for analyzed sessions.

Request

Method	GET
Path	/api/v2/ml/session_score

GET /api/v2/ml/session_score

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/ml/session_score'
```


Response (No Scores)

```
{
  "result": "success",
  "ml_session_score": []
}
```

Response (With Scores)

```
{
  "result": "success",
  "ml_session_score": [
    {
      "session_id": "5980780305148018689",
      "reject_probability": "1",
      "end_time": 88108,
      "model": "Semantic_Behavioral"
    },
    {
      "session_id": "5980780305148018689",
      "reject_probability": "1",
      "end_time": 77533,
      "model": "Semantic_Behavioral"
    }
  ]
}
```

Note

- Scores are generated automatically by the ML system when sessions are analyzed
- The `reject_probability` value ranges from 0.0 (normal) to 1.0 (highly anomalous)
- Higher values indicate greater likelihood of anomalous behavior
- The threshold for alerting is configured in ML settings

1.46 Machine Learning Settings

Manage configuration for the machine learning anomaly detection system.

1.46.1 Data Structures

Table 125: MLSettingsModel

Component	Attribute	Type	Description
mld			ML Daemon configuration
	workers_number	number	Number of worker processes (default: 1)

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Table 125 – continued from previous page

Component	Attribute	Type	Description
	score_logging	string	Logging level for scores. One of: none, low, high, all
mltraind			ML Training Daemon configuration
	max_workers	number	Maximum training workers (-1 for unlimited)
	node	string	Node identifier for distributed training
	train_days	array	Days of week to run training (0=Sunday, 6=Saturday)
	train_hour	number	Hour to start training (0-23)
	train_minute	number	Minute to start training (0-59)
	min_days	number	Minimum days of data required for training
	max_days	number	Maximum days of historical data to use
mlquantd			ML Quantization Daemon configuration
	tolerance	number	Tolerance level for quantization
	report_threshold	string	Threshold for reporting anomalies (e.g., '0.01')

1.46.2 Get ML Settings

Retrieve current machine learning configuration settings.

Request

Method	GET
Path	/api/v2/ml/settings

GET /api/v2/ml/settings

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/ml/settings'
```

Response

```
{
  "result": "success",
  "mld": {
    "workers_number": 1,
    "score_logging": "high"
  },
  "mltraind": {
    "max_workers": -1,
    "node": "80840259",
    "train_days": ["0", "1", "2", "3", "4", "5", "6"],
    "train_hour": 4,
    "train_minute": 25,
    "min_days": 1,
```

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```

        "max_days": 365
    },
    "mlquantd": {
        "tolerance": 3,
        "report_threshold": "0.01"
    }
}

```

1.46.3 Update ML Settings

Modify machine learning configuration settings.

Warning

Changes to ML settings affect the anomaly detection system. Modifying training schedules or thresholds may impact detection accuracy. Always test changes in a non-production environment first.

Request

Method	POST
Path	/api/v2/ml/settings
Headers	Content-Type: application/json
Body	Complete MLSettingsModel (all components required)

POST /api/v2/ml/settings

Note

All three components (`mld`, `mltraind`, `mlquantd`) must be provided in the request body, even if you're only changing one setting. Retrieve current settings first, modify what you need, then send the complete configuration.

Example Request - Change Score Logging Level

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{
    "mld": {
      "workers_number": 2,
      "score_logging": "all"
    },
    "mltraind": {
      "max_workers": -1,
      "node": "80840259",
      "train_days": ["0", "1", "2", "3", "4", "5", "6"],

```

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```

    "train_hour": 4,
    "train_minute": 30,
    "min_days": 1,
    "max_days": 365
  },
  "mlquantd": {
    "tolerance": 3,
    "report_threshold": "0.01"
  }
}' \
'https://10.33.2.132/api/v2/ml/settings'
```

Success Response

```
{
  "result": "success"
}
```

Error Response - Missing Field

```
{
  "result": "failure",
  "message": "Couldn't deserialize body: missing field `workers_number` at
↪line 4 column 5"
}
```

Error Response - Invalid Value

```
{
  "result": "failure",
  "message": "Couldn't deserialize body: unknown variant `medium`, expected
↪one of `none`, `high`, `low`, `all` at line 4 column 33"
}
```

1.46.4 Configuration Examples**Example 1: Enable Maximum Logging**

```
{
  "mld": {
    "workers_number": 4,
    "score_logging": "all"
  }
}
```

Example 2: Configure Training Schedule for Weekends Only

```
{
  "mltraind": {
    "train_days": ["0", "6"],
```

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```

    "train_hour": 2,
    "train_minute": 0
  }
}

```

Example 3: Adjust Anomaly Reporting Threshold

```

{
  "mlquantd": {
    "tolerance": 5,
    "report_threshold": "0.05"
  }
}

```

1.46.5 Related Endpoints

- GET /api/v2/session - View sessions that may have ML scores
- GET /api/v2/alert - View alerts triggered by ML anomaly detection
- GET /api/v2/report - Generate reports on ML detection performance

1.47 Machine Learning - Model Profiles**Note**

ML Model Profiles define different machine learning models used for anomaly detection in user sessions. Each profile targets specific protocols and behavior patterns:

- **Semantic_Behavioral** - Analyzes command patterns in SSH sessions
- **Mouse_Biometric** - Tracks mouse movement patterns in RDP sessions
- **Keyboard_Biometric** - Monitors typing patterns in RDP sessions

1.47.1 Data Structures

Table 126: MLModelProfileModel

Attribute	Type	Required	Description
id	string		Read-only. Unique ID of machine learning model profile.
name	string		Read-only. Profile name (e.g., Semantic_Behavioral, Mouse_Biometric).
active	boolean		Read-only. Whether the profile is enabled for scoring.
ml_model	number		Read-only. ID of the currently active ML model for this profile.
protocol	string		Read-only. Protocol this profile applies to (ssh, rdp, etc.).

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Table 126 – continued from previous page

Attribute	Type	Required	Description
training_time	string		Read-only. Expensive to use. Time spent training the current model (seconds).
session_segment	string		Read-only. Expensive to use. Number of session segments used for training.
entities_covered	number		Read-only. Expensive to use. Number of entities covered by the model.
tpr	string		Read-only. Expensive to use. True positive rate of the model (0.0 to 1.0).
fpr	string		Read-only. Expensive to use. False positive rate of the model (0.0 to 1.0).
auroc	string		Read-only. Expensive to use. Area under ROC curve (0.0 to 1.0, higher is better).
trained_at	string		Read-only. Expensive to use. Timestamp when the model was trained.

1.47.2 Retrieve Available Attributes of the *MLModelProfileModel*

Request

Method	GET
Path	/api/v2/objspec/ml_model_profile

GET /api/v2/objspec/ml_model_profile

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/objspec/ml_model_profile'
```

1.47.3 List ML Model Profiles

Retrieve all available machine learning model profiles.

Request

Method	GET
Path	/api/v2/ml/profile

GET /api/v2/ml/profile

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/ml/profile'
```

Response

```
{
  "result": "success",
  "ml_model_profile": [
    {
      "id": "5980780305148018689",
      "name": "Semantic_Behavioral",
      "active": true,
      "ml_model": 5980780305148018733,
      "protocol": "ssh",
      "training_time": "91.651764",
      "session_segments_used": "5400",
      "entities_covered": 6,
      "tpr": "1",
      "fpr": "0",
      "auroc": "1",
      "trained_at": "2026-06-08 08:49:59.795649-07"
    },
    {
      "id": "5980780305148018690",
      "name": "Mouse_Biometric",
      "active": true,
      "ml_model": 5980780305148018731,
      "protocol": "rdp",
      "training_time": "14.345926",
      "session_segments_used": "2357",
      "entities_covered": 12,
      "tpr": "0.9293527",
      "fpr": "0.029565375",
      "auroc": "0.98550755",
      "trained_at": "2026-06-08 08:46:47.652581-07"
    },
    {
      "id": "5980780305148018691",
      "name": "Keyboard_Biometric",
      "active": true,
      "ml_model": 5980780305148018732,
      "protocol": "rdp",
      "training_time": "12.508921",
      "session_segments_used": "2189",
      "entities_covered": 11,
      "tpr": "0.8636141",
      "fpr": "0.039960314",
      "auroc": "0.95361376",
      "trained_at": "2026-06-08 08:47:23.623124-07"
    }
  ]
}
```

1.47.4 Disable ML Model Profile

Disable a specific ML model profile to stop it from scoring new sessions.

Request

Method	POST
Path	/api/v2/ml/profile/<id>/disable

POST /api/v2/ml/profile/<id>/disable

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
'https://10.33.2.132/api/v2/ml/profile/5980780305148018691/disable'
```

Success Response

```
{  
  "result": "success"  
}
```

1.47.5 Enable ML Model Profile

Enable a previously disabled ML model profile to resume scoring sessions.

Request

Method	POST
Path	/api/v2/ml/profile/<id>/enable

POST /api/v2/ml/profile/<id>/enable

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: <token>' \  
'https://10.33.2.132/api/v2/ml/profile/5980780305148018691/enable'
```

Success Response

```
{  
  "result": "success"  
}
```

1.48 External Authentication

1.48.1 Data Structures

Table 127: ExternalAuthenticationModel

Attribute	Type	Required	Description
id	string	yes	Read-only object identifier
name	string	yes	Unique; case insensitive
type	string {cerb, radius, ldap, ad}	yes	Immutable
address	string	If type == cerb ldap radius & port is set	Authentication server address. Required for selected types if port is set.
port	number	If type == cerb ldap radius & address is set	Server port. Must be used with address. Value format: port.
bind_ip	string		Bind address. Include labels like 'fudo:label:test' or ip address
login	string	If type == ad & secret is set	Login for AD authentication. Must be used with secret.
cerb	ExternalAuthentication-CerbModel	If type == cerb	Cerb object definition
radius	ExternalAuthentication-RadiusModel	If type == radius	Radius object definition
ldap	ExternalAuthentication-LdapModel	If type == ldap	LDAP object definition
ad	ExternalAuthentication-AdModel	If type == ad	Active Directory object definition
tls_enabled	boolean	If type == ad ldap	Enable TLS protocol
tls_certificate	string	If type == ldap & tls_enabled == true	Client TLS certificate. Format: X.509.
tls_ca_certificate	string	If type == ad ldap & tls_enabled == true	CA certificate for TLS validation. Format: X.509.
second_factor_type	string {duo, oath, sms}		
created_at	datetime		Read-only
modified_at	datetime		Read-only
removed	boolean		Read-only

Table 128: ExternalAuthenticationCerbModel

Attribute	Type	Description
secret	string	Password to cerb provider; required; write-only
radius_nasid	string	Correct value of NAS id of Cerb provider; required

Table 129: ExternalAuthenticationRadiusModel

Attribute	Type	Description
secret	string	Password to radius provider; required; write-only
radius_nasid	string	Correct value of NAS id of Radius provider; required
radius_method	string {chap, mschap, pap}	Authentication method for RADIUS. Values: chap (CHAP), mschap (MS-CHAPv2), pap (PAP). Default: mschap
radius_message_authen	boolean	Use Message-Authenticator to mitigate BlastRADIUS vulnerability. Default: true
radius_append_domain	boolean	Append the user's AD domain to the username sent to the RADIUS server, in the {name}@{ad_domain} format. When false , the bare username is sent. Default: true

Table 130: ExternalAuthenticationLdapModel

Attribute	Type	Description
ldap_binddn	string	Bind domain to LDAP provider; required

Table 131: ExternalAuthenticationAdModel

Attribute	Type	Description
login	string	Login for AD authentication. Used with secret.
secret	string	Password to AD provider; write-only. Used with login.
ad_domain	string	Bind domain to AD provider; required

1.48.2 Retrieve Available Attributes of the *ExternalAuthentication- Model*

Request

Method	GET
Path	/api/v2/objspec/external_authentication

To check allowed methods, available URL parameters and possible responses please refer to the

API Overview section.

Refer to the *Batch operations* topic to create nested requests for operating on the External Authentication objects.

1.48.3 Get External Authentication Methods List

Request

Method	GET
Path	/api/v2/external_authentication`

Example Request

GET /api/v2/external_authentication`

Response

```
{
  "result": "success",
  "external_authentication": [
    {
      "id": "1234538875067072557",
      "type": "ad",
      "port": 636,
      "ad_domain": "jdoe.local",
      "created_at": "2021-08-09 19:40:05.171853+02",
      "modified_at": "2021-08-09 19:40:05.171853+02",
      "address": "10.0.139.100",
      "tls_enabled": true,
      "tls_certificate": "-----BEGIN CERTIFICATE-----\r\n
↪nMIIIFrTCCBJWgAwIBAg...ic=\r\n-----END CERTIFICATE-----\r\n"
    },
    {
      "id": "12345138875067072517",
      "type": "ldap",
      "port": 389,
      "ldap_binddn": "dc=qa-ldap,dc=null",
      "created_at": "2021-03-03 14:11:52.245683+01",
      "modified_at": "2021-03-03 14:14:46.052855+01",
      "address": "10.0.235.1",
      "tls_enabled": false,
      "tls_certificate": ""
    },
    {
      "id": "12345067072573",
      "type": "cerb",
      "port": 1812,
      "created_at": "2022-10-19 10:23:11.29545+02",
      "modified_at": "2022-10-19 10:58:12.325396+02",
      "address": "10.0.234.21",
      "radius_nasid": "",

```

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```

        "tls_enabled": false,
        "tls_certificate": ""
      },
      {
        "id": "3234566775067072572",
        "type": "radius",
        "port": 1812,
        "created_at": "2022-10-19 10:08:23.160433+02",
        "modified_at": "2022-10-19 10:19:50.525671+02",
        "second_factor_type": "oath",
        "address": "10.0.0.1",
        "radius_nasid": "abcdeg",
        "tls_enabled": true,
        "tls_certificate": "-----BEGIN CERTIFICATE-----\r\nMIIG5jC...
↪2MOXV1x+eQAmOVy\r\n-----END CERTIFICATE-----\r\n"
      }
    ]
  }
}

```

1.48.4 Get External Authentication Method by ID

Request

Method	GET
Path	/api/v2/external_authentication/<id>

Example Request

GET /api/v2/external_authentication/<id>

Response

```

{
  "result": "success",
  "external_authentication": [
    {
      "id": "1234538875067072557",
      "type": "ad",
      "port": 636,
      "ad_domain": "jdoe.local",
      "created_at": "2021-08-09 19:40:05.171853+02",
      "modified_at": "2021-08-09 19:40:05.171853+02",
      "address": "10.0.139.100",
      "tls_enabled": true,
      "tls_certificate": "-----BEGIN CERTIFICATE-----\r\n
↪nMIIFrTCCBJWgAwIBAg...ic=\r\n-----END CERTIFICATE-----\r\n"
    }
  ]
}

```

1.48.5 Modify External Authentication Method

Request

Method	PATCH
Path	/api/v2/external_authentication/<id>
Headers	Content-Type: Application/JSON
Body	ExternalAuthenticationModel

Example Request: Adding SMS Authentication for Second Factor to AD Authentication

PATCH /api/v2/external_authentication/<id>`

```
{
  "second_factor_type": "sms"
}
```

Response

```
{
  "result": "success"
}
```

1.48.6 Create an External Authentication Method

Request

Method	POST
Path	/api/v2/external_authentication
Headers	Content-Type: Application/JSON
Body	ExternalAuthenticationModel

Example Request: Creating Cerb Definition With Second Factor OATH Authentication

POST /api/v2/external_authentication`

```
{
  "type": "cerb",
  "port": 1812,
  "address": "10.0.234.21",
  "radius_nasid": "abchs",
  "secret": "my-password",
  "tls_enabled": false,
  "second_factor_type": "oath"
}
```

Response

```
{
  "result": "success",
  "external_authentication": {
    "id": "123456819172646913"
  }
}
```

1.48.7 Delete an External Authentication Method

Request

Method	DELETE
Path	/api/v2/external_authentication/<id>

1.49 OpenID Connect Configuration

OpenID Connect related endpoints help to create, modify, list and delete OpenID Connect configurations.

1.49.1 Data Structures

Table 132: OpenIDModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
name	string	yes	Name of the configuration. Case-insensitive. Uniqueness is required.
enabled	boolean; Default value true	yes	Enabling configuration.
bind_to	string		Bind address.
configuration_url	string	yes	This URL is specific for every Identity Provider and allows identifying one for correct configuration. Either the address of the discovery document, or the issuer address alone - in the latter case <code>/.well-known/openid-configuration</code> is appended automatically.
client_id	string	yes	Client id available after the registration on selected provider.
client_secret	string	yes	Client secret available after the registration on selected provider. Protected.
scope	string		Custom OIDC scope(s) appended to the base scopes (<code>openid</code> , <code>profile</code> , <code>email</code>) on the authorization request. Space-separated list; leave empty to send only the base scopes.

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Table 132 – continued from previous page

Attribute	Type	Required	Description
fudo_domain	string		The domain used to identify the user on Fudo. It is not a part of the user's UPN — when set, it only narrows the match to users with that Fudo domain.
username_mapping	string		Username mapping is useful when users name has different naming convention.
email_mapping	string		Email mapping is useful when users name has different naming convention.
scope	string		Custom OIDC scope(s) appended to the base scopes (<code>openid</code> , <code>profile</code> , <code>email</code>) on the authorization request. Space-separated list; leave empty to send only the base scopes. Leading, trailing and repeated spaces are rejected.
tls_ca_certificate	string		TLS CA certificate that signed the certificate of the server. Format: <code>x509-ca-certificate</code> .
tls_certificate	string		TLS certificate of the server. Format: <code>x509-certificate</code> .
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.49.2 Retrieve Available Attributes of the *OpenIDModel*

Request

Method	GET
Path	/api/v2/objspec/oidc

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.49.3 Get Existing OpenID Connect Configurations List

Request

Method	GET
Path	/api/v2/oidc

Example Request

GET /api/v2/oidc`

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/oidc'
```

Response

```
{
  "result": "success",
  "oidc": [
    {
      "id": "9124292845052624897",
      "name": "OKTA",
      "enabled": true,
      "bind_to": "0.0.0.0",
      "configuration_url": "https:\\\\okta.com",
      "client_id": "1234567",
      "created_at": "2024-06-19 07:51:42.988336-07",
      "modified_at": "2024-06-19 07:51:42.988336-07"
    }
  ]
}
```

1.49.4 Get Existing OpenID Connect Configuration by ID

Request

Method	GET
Path	/api/v2/oidc/<id>

Example Request

GET /api/v2/oidc/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/oidc/9124292845052624897'
```

Response

```
{
  "result": "success",
  "oidc": [
    {
      "id": "9124292845052624897",
      "name": "OKTA",
      "enabled": true,
      "bind_to": "0.0.0.0",
      "configuration_url": "https:\\\\okta.com",
      "client_id": "1234567",
      "created_at": "2024-06-19 07:51:42.988336-07",
      "modified_at": "2024-06-19 07:51:42.988336-07"
    }
  ]
}
```


1.49.5 Defining OpenID Connect Configuration

Request

Method	POST
Path	/api/v2/oidc
Headers	Content-Type: Application/json
Body	OpenIDModel

Example Request

POST /api/v2/oidc`

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/oidc' \  
-d '{"name": "OKTA","enabled": true,"configuration_url":"https://okta.com",  
↪ "client_id": "1234567","client_secret": "Secret"}'
```

Response

```
{  
  "result": "success",  
  "oidc": {  
    "id": "9124292845052624898"  
  }  
}
```

1.49.6 Modify OpenID Connect Configuration

Request

Method	PATCH
Path	/api/v2/oidc/<id>
Headers	Content-Type: Application/json
Body	OpenIDModel

Example Request

PATCH /api/v2/oidc/<id>`

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/oidc/9124292845052624898' \  
-d '{"client_id": "1234567","client_secret": "Secret"}'
```

Response

```
{
  "result": "success",
  "oidc": {
    "id": "9124292845052624898"
  }
}
```

1.49.7 Deleting OpenID Connect Configuration

Request

Method	DELETE
Path	/api/v2/oidc/<id>

Example Request

DELETE /api/v2/oidc/<id>`

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/oidc/9124292845052624897'
```

Response

```
{
  "result": "success"
}
```

1.50 OpenID Connect Users Assignment

User related OpenID Connect endpoints help to create, modify, list and delete OpenID Connect configurations assignment to Users.

1.50.1 Data Structures

Table 133: UserOpenIDModel

Attribute	Type	Required	Description
id	string	yes	Read-only. Protected. Unique identifier.
user_id	string		Immutable. Uniqueness is required in the combination of attribute <code>user_id</code> with attribute <code>oidc_id</code> . Requires <code>read</code> right on object type <code>user</code> for <code>GET</code> requests, and <code>modify</code> right for <code>DELETE</code> , <code>PATCH</code> , and <code>POST</code> requests.
oidc_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>oidc_id</code> with attribute <code>user_id</code> .
oidc_sub	string	yes	OpenID Connect sub claim.
user_name	string		Read-only. Expensive to use.
user_domain	string		Read-only. Expensive to use.
user_email	string		Read-only. Expensive to use.
user_organization	string		Read-only. Expensive to use.
user_role	string		Read-only. Expensive to use.
oidc_name	string		Read-only. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.
builtin	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
hidden	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.

1.50.2 Retrieve Available Attributes of the *UserOpenIDModel*

Request

Method	GET
Path	/api/v2/objspec/user_oidc

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.50.3 Get the List of Existing OpenID Connect Configuration Assignments to Users

Request

Method	GET
Path	/api/v2/user/oidc

Example Request

GET /api/v2/user/oidc`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/user/oidc'
```

Response

```
{
  "result": "success",
  "user_oidc": [
    {
      "user_id": "9124292845052624898",
      "oidc_id": "9124292845052624898",
      "oidc_sub": "John",
      "user_name": "User_1",
      "user_domain": "zw.local",
      "user_email": "user@fudosecurity.com",
      "user_role": "operator",
      "oidc_name": "OKTA2",
      "created_at": "2024-06-19 08:39:55.351137-07",
      "modified_at": "2024-06-19 08:39:55.351137-07",
      "builtin": false,
      "hidden": false
    }
  ]
}
```

1.50.4 Get Existing OpenID Connect Configuration Assigned to User

Request

Method	GET
Path	/api/v2/user/<user_id>/oidc/<oidc_id>

Example Request

GET /api/v2/user/<id>/oidc/<id>`

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/user/9124292845052624898/oidc/9124292845052624898'
```

Response

```
{
  "result": "success",
  "user_oidc": [
    {
      "user_id": "9124292845052624898",
      "oidc_id": "9124292845052624898",
```

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```

        "oidc_sub": "John",
        "user_name": "User_1",
        "user_domain": "zw.local",
        "user_email": "user@fudosecurity.com",
        "user_role": "operator",
        "oidc_name": "OKTA2",
        "created_at": "2024-06-19 08:39:55.351137-07",
        "modified_at": "2024-06-19 08:39:55.351137-07",
        "builtin": false,
        "hidden": false
    }
}
]
}

```

1.50.5 Defining OpenID Connect Configuration Assignment to User

Request

Method	POST
Path	/api/v2/user/oidc
Headers	Content-Type: Application/json
Body	UserOpenIDModel

Example Request

POST /api/v2/user/oidc`

```

curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/user/oidc' \
-d '{"user_id": "9124292845052624898", "oidc_id": "9124292845052624898", "oidc_sub": "John"}'

```

Response

```

{
  "result": "success"
}

```

1.50.6 Modify OpenID Connect Configuration Assignment to User

Request

Method	PATCH
Path	/api/v2/user/<user_id>/oidc/<oidc_id>
Headers	Content-Type: Application/json
Body	UserOpenIDModel

Example Request

PATCH /api/v2/user/<id>/oidc/<id>`

```
curl -s -k -X PATCH \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  'https://10.0.214.98/api/v2/user/9124292845052624898/oidc/9124292845052624898
  -d '{"oidc_sub": "JohnD"}'
```

Response

```
{
  "result": "success"
}
```

1.50.7 Deleting OpenID Connect Configuration Assignment to User

Request

Method	DELETE
Path	/api/v2/user/<user_id>/oidc/<oidc_id>

Example Request

DELETE /api/v2/user/<id>/oidc/<id>`

```
curl -s -k -X DELETE \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/user/9124292845052624800/oidc/9124292845052624897'
```

Response

```
{
  "result": "success"
}
```

1.51 JWT Provider Management NEW

Note

JWT provider endpoints allow configuring upstream token issuers that authenticate Fudo Enterprise users on the request's behalf. A request that carries a signed JWT in the configured HTTP header is verified against the keys published by the issuer, and the claim named by `username_claim` is mapped to an existing user.

1.51.1 Data Structures

Table 134: JWTProviderModel

Attribute	Type	Required	Description
id	string		Read-only. Unique ID of the JWT provider.
name	string	yes	Unique. JWT provider name (case-insensitive).
enabled	boolean; default value true	yes	Enable or disable this provider. Disabled providers are ignored during verification.
issuer	string	yes	Unique. Expected issuer (iss) claim, used to match an incoming JWT to this provider. Must start with https:// .
jwks_uri	string		HTTPS URI of the JSON Web Key Set. If omitted, discovered via the issuer's OpenID Configuration at <issuer>/well-known/openid-configuration .
audience	string	yes	Expected audience (aud) claim. JWTs with a different audience are rejected.
username_claim	string; default value sub	yes	JWT claim that contains the Fudo Enterprise user name.
fudo_domain	string		Fudo domain to scope the user lookup.
header	string; default value Authorization	yes	HTTP header that carries the JWT. Configure when fronted by a WAF that injects JWTs into a custom header, for example X-JWT-Assertion .
keys_updated_at	datetime		Read-only. Timestamp of the last successful key refresh.
keys	object-array of JWTProviderKeyMode		Read-only; expensive to use. Cached signing keys fetched from the provider's JWKS endpoint. Returned only when requested explicitly.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Table 135: JWTProviderKeyModel

Attribute	Type	Required	Description
kid	string		Read-only. Key identifier published by the issuer. Used to select the key when a token carries the kid header. Empty when the issuer publishes a single unnamed key.
key	string {RSA, EC, OKP}		Read-only. Key type. It has to match the algorithm family of the token: RSA for RS*, EC for ES*, OKP for EdDSA.
alg	string		Read-only. Algorithm declared for this key by the issuer. Empty when the issuer does not declare one.
public_key	string		Read-only. Public key converted to the PEM format.

1.51.2 Retrieve Available Attributes of the *JWTProviderModel*

Request

Method	GET
Path	/api/v2/objspec/jwt_provider

GET /api/v2/objspec/jwt_provider

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/objspec/jwt_provider'
```

1.51.3 List JWT Providers

Retrieve all configured JWT providers.

Request

Method	GET
Path	/api/v2/jwt_provider

GET /api/v2/jwt_provider

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/jwt_provider'
```

Response


```
{
  "result": "success",
  "jwt_provider": [
    {
      "id": "2044634230826205185",
      "name": "BIG-IP APM",
      "enabled": true,
      "issuer": "https://apm.example.com",
      "jwks_uri": "https://apm.example.com/f5-oauth2/v1/jwks",
      "audience": "fudo",
      "username_claim": "preferred_username",
      "header": "X-JWT-Assertion",
      "created_at": "2026-08-06 10:58:29.657182-07",
      "modified_at": "2026-08-06 10:58:29.657182-07"
    }
  ]
}
```

Note

The **keys** attribute is expensive to use and is not returned unless it is requested explicitly. Refer to *Get Cached Signing Keys*.

1.51.4 Get JWT Provider Details

Retrieve details of a specific JWT provider.

Request

Method	GET
Path	/api/v2/jwt_provider/<id>

GET /api/v2/jwt_provider/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.2.132/api/v2/jwt_provider/2044634230826205185'
```

Response

```
{
  "result": "success",
  "jwt_provider": {
    "id": "2044634230826205185",
    "name": "BIG-IP APM",
    "enabled": true,
    "issuer": "https://apm.example.com",
```

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```

    "jwks_uri": "https://apm.example.com/f5-oauth2/v1/jwks",
    "audience": "fudo",
    "username_claim": "preferred_username",
    "header": "X-JWT-Assertion",
    "created_at": "2026-08-06 10:58:29.657182-07",
    "modified_at": "2026-08-06 10:58:29.657182-07"
  }
}

```

1.51.5 Get Cached Signing Keys

Retrieve the signing keys currently cached for a provider. The **keys** attribute is expensive to use, so it is returned only when it is requested explicitly.

Request

Method	GET
Path	/api/v2/jwt_provider/<id>?fields=id,name,keys_updated_at,keys

GET /api/v2/jwt_provider/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/jwt_provider/2044634230826205185?fields=id,name,keys_updated_at,keys'

```

Response

```

{
  "result": "success",
  "jwt_provider": {
    "id": "2044634230826205185",
    "name": "BIG-IP APM",
    "keys_updated_at": "2026-08-07 01:32:33.169214-07",
    "keys": [
      {
        "alg": "RS256",
        "kid": "b6dd51e66d36010bd3bbdfb3c91a1a5f6ec6c12c",
        "kty": "RSA",
        "public_key": "-----BEGIN PUBLIC KEY-----\nMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8A...\n-----END PUBLIC KEY-----\n"
      }
    ]
  }
}

```

Note

An empty `keys` array together with an empty `keys_updated_at` means that no key has been fetched yet. Refer to the events log for the reason.

1.51.6 Create JWT Provider

Add a new JWT provider configuration.

Request

Method	POST
Path	/api/v2/jwt_provider
Headers	Content-Type: application/json
Body	JWTProviderModel

POST /api/v2/jwt_provider

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{
    "name": "BIG-IP APM",
    "enabled": true,
    "issuer": "https://apm.example.com",
    "audience": "fudo",
    "jwks_uri": "https://apm.example.com/f5-oauth2/v1/jwks",
    "header": "X-JWT-Assertion",
    "username_claim": "preferred_username"
  }' \
  'https://10.33.2.132/api/v2/jwt_provider'
```

Success Response

```
{
  "result": "success",
  "jwt_provider": {
    "id": "2044634230826205185"
  }
}
```

Failure Response

```
{
  "result": "failure",
  "message": "Issuer must start with https://.",
  "failing_attributes": [
    "issuer"
  ]
}
```

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```
]
}
```

1.51.7 Update JWT Provider

Modify an existing JWT provider configuration.

Request

Method	PATCH
Path	/api/v2/jwt_provider/<id>
Headers	Content-Type: application/json
Body	Partial JWTProviderModel

PATCH /api/v2/jwt_provider/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "audience": "fudo-uag"
}' \
'https://10.33.2.132/api/v2/jwt_provider/2044634230826205185'
```

Response

```
{
  "result": "success"
}
```

1.51.8 Refresh Signing Keys

Fetch the signing keys of all configured JWT providers again, for example after an issuer has rotated them. Keys are fetched by every cluster node on its own.

Request

Method	POST
Path	/api/v2/jwt_provider/refresh_keys

POST /api/v2/jwt_provider/refresh_keys

Note

This endpoint takes no request body. A request that carries one is rejected with **Request body is not allowed for this endpoint**.

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/jwt_provider/refresh_keys'
```

Response

```
{
  "result": "success"
}
```

Note

The response confirms that the refresh has been started, not that the keys have been fetched. When an issuer cannot be reached, the failure is recorded in the events log and the `keys_updated_at` attribute of that provider stays unchanged.

1.51.9 Delete JWT Provider

Remove a JWT provider configuration.

Request

Method	DELETE
Path	/api/v2/jwt_provider/<id>

DELETE /api/v2/jwt_provider/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/jwt_provider/2044634230826205185'
```

Response

```
{
  "result": "success"
}
```

1.52 User Directory

Fudo Enterprise features automatic users synchronization service which enables importing users information from Active Directory servers or other servers compatible with the LDAP protocol.

1.52.1 User Directory Configuration

Data Structures

Table 136: UserDirectoryModel

Attribute	Type	Required	Description
id	string		Read-only, unique object identifier.
name	string	yes	Case-insensitive, unique name.
type	string {AD, LDAP}; default value AD	yes	Immutable.
position	number		Unique.
username	string	yes	Unique.
password	string	yes	Protected.
dn	string	yes	
base_user	string		
base_group	string		
user_domain	string		
user_filter	string; default value (&(objectclass=user))	yes	
group_filter	string; default value (&(objectclass=group))		
server_lastupdate	string		Timestamp.
db_lastupdate	string		Timestamp.
login_field	string; default value sAMAccountName	yes	
mail_field	string; default value mail		
memberof_field	string; default value memberOf	yes	
telephone_field	string; default value telephoneNumber		
company_field	string; default value company		
displayname_field	string; default value displayName	yes	
dn_field	string; default value distinguishedName	yes	
certificate_field	string; default value userCertificate	yes	
guid_field	string; default value objectGUID	yes	
auto_block	boolean; default value true	yes	
x509_certificate_method	boolean; default value false	yes	
x509_sshkey_method	boolean; default value false	yes	
created_at	datetime		Read-only. Timestamp of creation.

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Table 136 – continued from previous page

Attribute	Type	Required	Description
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Existing User Directory Configurations

Request

Method	GET
Path	/api/v2/user_directory

GET /api/v2/user_directory

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory'
```

Response

```
{
  "result": "success",
  "user_directory": [
    {
      "id": "9115285645797883905",
      "name": "active-directory-10.0.100.100",
      "type": "AD",
      "position": 0,
      "username": "Administrator",
      "dn": "ad.com",
      "base_user": "dc=ad,dc=com",
      "base_group": "dc=ad,dc=com",
      "user_domain": "fudo-ad.com",
      "user_filter": "(&(objectclass=user))",
      "group_filter": "(&(objectclass=group))",
      "login_field": "sAMAccountName",

```

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```

        "mail_field": "mail",
        "memberof_field": "memberOf",
        "telephone_field": "telephoneNumber",
        "company_field": "company",
        "displayname_field": "displayName",
        "dn_field": "distinguishedName",
        "certificate_field": "userCertificate",
        "guid_field": "objectGUID",
        "auto_block": true,
        "x509_certificate_method": false,
        "x509_sshkey_method": false,
        "created_at": "2025-05-05 04:51:54.021816-07",
        "modified_at": "2025-05-05 04:51:54.021816-07"
    }
}
]
}

```

Get Existing User Directory Configuration by ID

Request

Method	GET
Path	/api/v2/user_directory/<id>

GET /api/v2/user_directory/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory/801640733671948289'

```

Response

```

{
  "result": "success",
  "user_directory": {
    "id": "9115285645797883908",
    "name": "ldap-10.0.200.100 [domain: ldap.com]",
    "type": "LDAP",
    "position": 3,
    "username": "cn=admin,dc=ldap,dc=com",
    "dn": "cn=admin,dc=ldap,dc=com",
    "base_user": "dc=ldap,dc=com",
    "base_group": "dc=ldap,dc=com",
    "user_domain": "ldap.com",
    "user_filter": "(objectClass=inetOrgPerson)",
    "group_filter": "(objectClass=groupOfNames)",
    "login_field": "uid",

```

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```

    "mail_field": "mail",
    "memberof_field": "memberOf",
    "telephone_field": "telephoneNumber",
    "company_field": "o",
    "displayname_field": "displayName",
    "dn_field": "dn",
    "certificate_field": "userCertificate",
    "guid_field": "dn",
    "auto_block": true,
    "x509_certificate_method": false,
    "x509_sshkey_method": false,
    "created_at": "2025-05-05 04:51:54.039467-07",
    "modified_at": "2025-05-05 05:00:18.099246-07"
  }
}

```

Defining User Directory Configuration

Request

Method	POST
Path	/api/v2/user_directory
Headers	Content-Type: Application/json
Body	UserDirectoryModel

POST /api/v2/user_directory

Example Request

```

curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  https://10.31.135.179/api/v2/user_directory \
  -d '{
    "name": "ldap-10.0.100.200 [domain: ldap.com]",
    "type": "LDAP",
    "position": 3,
    "username": "cn=admin,dc=ldap,dc=com",
    "password": "password",
    "dn": "cn=admin,dc=ldap,dc=com",
    "base_user": "dc=ldap,dc=com",
    "base_group": "dc=ldap,dc=com",
    "user_domain": "ldap.com",
    "user_filter": "(objectClass=inetOrgPerson)",
    "group_filter": "(objectClass=groupOfNames)",
    "login_field": "uid",
    "mail_field": "mail",
    "memberof_field": "memberOf",
    "telephone_field": "telephoneNumber",
  }

```

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```
"company_field": "o",
"displayname_field": "displayName",
"dn_field": "dn",
"certificate_field": "userCertificate",
"guid_field": "dn"
}'
```

Response

```
{
  "result": "success",
  "user_directory": {
    "id": "9115285645797883909"
  }
}
```

Modify User Directory Configuration

Request

Method	PATCH
Path	/api/v2/user_directory/<id>
Headers	Content-Type: Application/json
Body	UserDirectoryModel

PATCH /api/v2/user_directory/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
https://10.31.135.179/api/v2/user_directory/9115285645797883909 \
-d '{
  "name": "ldap-other-name",
  "position": 5,
  "password": "different"
}'
```

Response

```
{
  "result": "success"
}
```

Deleting User Directory Configuration

Request

Method	DELETE
Path	/api/v2/user_directory/<id>

DELETE /api/v2/user_directory/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory/9115285645797883908
```

Response

```
{
  "result": "success"
}
```

1.52.2 User Directory Controllers

Data Structures

Table 142: UserDirectoryServerModel

Attribute	Type	Required	Description
id	string		Read-only, unique object identifier.
address	string	yes	Case-insensitive. Uniqueness is required in the combination of attribute <code>address</code> with attributes <code>user_directory_id</code> , and <code>port</code> .
port	number {1 - 65535}	yes	Value format: port. Uniqueness is required in the combination of attribute <code>port</code> with attributes <code>address</code> , and <code>user_directory_id</code> .
user_directory_id	string	yes	Uniqueness is required in the combination of attribute <code>user_directory_id</code> with attributes <code>address</code> , and <code>port</code> .
user_directory_id1	string		Read-only. Expensive to use.
user_directory_id2	string		Read-only. Expensive to use.
tls_enabled	boolean	yes	
tls_certificate	string	if <code>tls_enabled == true</code>	Value format: x509-certificate.
paged_mode	boolean	yes	
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.

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Table 142 – continued from previous page

Attribute	Type	Required	Description
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryServerModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_server

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Existing User Directory Controllers Configuration

Request

Method	GET
Path	/api/v2/user_directory/server

GET /api/v2/user_directory/server

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory/server'
```

Response

```
{
  "result": "success",
  "user_directory_server": [
    {
      "id": "9115285645797883905",
      "address": "10.0.200.100",
      "port": 121,
      "user_directory_id": "9115285645797883905",
      "user_directory_name": "active-directory-10.0.200.100 [domain: ad.
↪com]",
      "user_directory_type": "AD",
      "tls_enabled": false,
      "paged_mode": true,
      "created_at": "2025-05-05 04:51:54.027646-07",
      "modified_at": "2025-05-05 04:51:54.027646-07"
    }
  ]
}
```

Get Controllers Configuration by User Directory ID

Request

Method	GET
Path	/api/v2/user_directory/<user_directory_id>/server

GET /api/v2/user_directory/<user_directory_id>/server

Example Request

```
curl -s -k -X GET \
-H 'Authorization:<token>' \
'https://10.31.135.179/api/v2/user_directory/9115285645797883908/server'
```

Response

```
{
  "result": "success",
  "user_directory_server": [
    {
      "id": "9115285645797883905",
      "address": "10.0.200.100",
      "port": 389,
      "user_directory_id": "9115285645797883905",
      "user_directory_name": "active-directory-10.0.200.100 [domain: ad.
↪com]",
      "user_directory_type": "AD",
      "tls_enabled": false,
      "paged_mode": true,
      "created_at": "2025-05-05 04:51:54.027646-07",
      "modified_at": "2025-05-05 04:51:54.027646-07"
    },
    {
      "id": "9115285645797883910",
      "address": "10.0.232.20",
      "port": 389,
      "user_directory_id": "9115285645797883908",
      "user_directory_name": "ldap-10.0.200.100 [domain: ldap.com]",
      "user_directory_type": "LDAP",
      "tls_enabled": false,
      "paged_mode": true,
      "created_at": "2025-05-05 04:51:54.041014-07",
      "modified_at": "2025-05-05 04:51:54.041014-07"
    }
  ]
}
```

Get Controller Configuration by User Directory and Controller ID

Request

Method	GET
Path	/api/v2/user_directory/<user_directory_id>/server/<id>

GET /api/v2/user_directory/<user_directory_id>/server/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization:<token>' \
'https://10.31.135.179/api/v2/user_directory/9115285645797883908/server/
↪9115285645797883910'
```

Response

```
{
  "result": "success",
  "user_directory_server": [
    {
      "id": "9115285645797883910",
      "address": "10.0.200.100",
      "port": 389,
      "user_directory_id": "9115285645797883908",
      "user_directory_name": "ldap-10.0.200.100 [domain: ldap.com]",
      "user_directory_type": "LDAP",
      "tls_enabled": false,
      "paged_mode": true,
      "created_at": "2025-05-05 04:51:54.041014-07",
      "modified_at": "2025-05-05 04:51:54.041014-07"
    }
  ]
}
```

Defining Controller Configuration for Specific User Directory

Request

Method	POST
Path	/api/v2/user_directory/<user_directory_id>/server
Headers	Content-Type: Application/json
Body	UserDirectoryServerModel

POST /api/v2/user_directory/<id>/server

Example Request

```
curl -s -k -X POST \
-H 'Authorization:<token>' \
```

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```
https://10.31.135.179/api/v2/user_directory/9115285645797883909/server \
-H 'Content-Type: application/json' -d '{"address": "10.0.200.100", "port": 122,
↪ "tls_enabled": false, "paged_mode": true}'
```

Response

```
{
  "result": "success",
  "user_directory_server": {
    "id": "9115285645797883911"
  }
}
```

Modify Controller Configuration for Specific User Directory

Request

Method	PATCH
Path	/api/v2/user_directory/<user_directory_id>/server/<id>
Headers	Content-Type: Application/json
Body	UserDirectoryServerModel

PATCH /api/v2/user_directory/<user_directory_id>/server/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
https://10.31.135.179/api/v2/user_directory/9115285645797883909/server/
↪ 9115285645797883911 \
-d '{
  "tls_enabled": true,
  "tls_certificate": "-----BEGIN CERTIFICATE-----\\nMIID...\\n...REDACTED↪
↪ CERTIFICATE DATA...\\n-----END CERTIFICATE-----"
}'
```

Response

```
{
  "result": "success"
}
```

Deleting Controller from User Directory Configuration

Request

Method	DELETE
--------	--------

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Table 148 – continued from previous page

Path	/api/v2/user_directory/<user_directory_id>/server/<id>
------	--

DELETE /api/v2//user_directory/<user_directory_id>/server/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory/9115285645797883908/server/
↪9115285645797883910
```

Response

```
{
  "result": "success"
}
```

1.52.3 User Directory - Adding Group Mapping

Data Structures

Table 149: UserDirectoryGroupModel

Attribute	Type	Required	Description
id	string		Read-only, unique object identifier.
group_path	string	yes	Uniqueness is required in the combination of attribute <code>group_path</code> with attributes <code>group_guid</code> , and <code>user_directory_id</code> .
group_guid	string	yes	Uniqueness is required in the combination of attribute <code>group_guid</code> with attributes <code>group_path</code> , and <code>user_directory_id</code> .
user_directory_:	string	yes	Uniqueness is required in the combination of attribute <code>user_directory_id</code> with attributes <code>group_path</code> , and <code>group_guid</code> .
user_directory_1	string		Read-only. Expensive to use.
user_directory_1	string		Read-only. Expensive to use.
groups	object-array		Read-only. Expensive to use.
roles	object-array		Read-only. Expensive to use.
external_authent	object-array		Read-only. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryGroupModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_group

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Existing User Directory Groups Configuration

Request

Method	GET
Path	/api/v2/user_directory_group

GET /api/v2/user_directory_group

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group'
```

Response

```
{
  "result": "success",
  "user_directory_group": [
    {
      "id": "5683542729741565953",
      "group_path": "CN=Users,CN=Builtin,DC=example,DC=com",
      "group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\B1\\D0\\E3\\02\\
↪71\\BC\\0E",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↪
↪example.com]",
      "user_directory_type": "AD",
      "groups": [
        {
          "id": "5683542729741565958",
          "name": "Group_A",
          "description": null
        }
      ],
      "roles": [
        {
```

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```

        "id": "5683542729741565964",
        "name": "Server Admin",
        "description": null
      }
    ],
    "created_at": "2025-06-02 04:02:29.893151-07",
    "modified_at": "2025-06-02 04:02:29.912421-07"
  }
]
}

```

Get Group Configuration by ID

Request

Method	GET
Path	/api/v2/user_directory_group/<id>

GET /api/v2/user_directory_group/<id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization:<token>' \
'https://10.31.135.179/api/v2/user_directory_group/5683542729741565953'

```

Response

```

{
  "result": "success",
  "user_directory_group": [
    {
      "id": "5683542729741565953",
      "group_path": "CN=Users,CN=Builtin,DC=example,DC=com",
      "group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\B1\\D0\\E3\\02\\
↪71\\BC\\0E",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↪
↪example.com]",
      "user_directory_type": "AD",
      "groups": [
        {
          "id": "5683542729741565958",
          "name": "Group_A",
          "description": null
        }
      ],
      "roles": [
        {

```

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```
        "id": "5683542729741565964",
        "name": "Server Admin",
        "description": null
      }
    ],
    "created_at": "2025-06-02 04:02:29.893151-07",
    "modified_at": "2025-06-02 04:02:29.912421-07"
  }
]
```

Define Group Configuration for Specific User Directory

Request

Method	POST
Path	/api/v2/user_directory_group
Headers	Content-Type: Application/json
Body	UserDirectoryGroupModel

POST /api/v2/user_directory_group

Example Request

```
curl -s -k -X POST \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group \
-d '{"group_path": "CN=Guests,CN=Builtin,DC=example,DC=com", "group_guid":
↪ "2c5804cc-9bbb-46e5-a0b1-d0e30271bc0e", "user_directory_id":
↪ "5683542729741565954"}'
```

Response

```
{
  "result": "success",
  "user_directory_group": {
    "id": "5683542729741565956"
  }
}
```

Modify Group Configuration for Specific User Directory

Request

Method	PATCH
Path	/api/v2/user_directory_group/<id>
Headers	Content-Type: Application/json

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Table 153 – continued from previous page

Body	UserDirectoryGroupModel
------	-------------------------

PATCH /api/v2/user_directory_group/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954 \
-d '{"group_path": "CN=Admins,CN=Builtin,DC=example,DC=com"}'
```

Response

```
{
  "result": "success"
}
```

Deleting Group from User Directory Configuration

Request

Method	DELETE
Path	/api/v2/user_directory_group/<id>

DELETE /api/v2/user_directory_group/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory_group/5683542729741565954
```

Response

```
{
  "result": "success"
}
```

1.52.4 User Directory - Group Mapping - Adding to Groups

Data Structures

Table 155: UserDirectoryGroupGroupModel

Attribute	Type	Required	Description
id	string		Read-only, protected, unique object identifier.

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Table 155 – continued from previous page

Attribute	Type	Required	Description
<code>user_directory_ξ</code>	string	yes	Uniqueness is required in the combination of attribute <code>user_directory_group_id</code> with attribute <code>group_id</code> .
<code>group_id</code>	string	yes	Uniqueness is required in the combination of attribute <code>group_id</code> with attribute <code>user_directory_group_id</code> .
<code>user_directory_:</code>	string		Read-only. Expensive to use.
<code>user_directory_1</code>	string		Read-only. Expensive to use.
<code>user_directory_1</code>	string		Read-only. Expensive to use.
<code>group_name</code>	string		Read-only. Expensive to use.
<code>user_directory_ξ</code>	string		Read-only. Expensive to use.
<code>user_directory_ξ</code>	string		Read-only. Expensive to use.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryGroupGroupModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_group_group

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Groups Assigned via Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/group

GET /api/v2/user_directory_group/group

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/group'
```

Response

```
{
  "result": "success",
```

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```

"user_directory_group_group": [
  {
    "user_directory_group_id": "5683542729741565954",
    "group_id": "5683542729741565958",
    "user_directory_id": "5683542729741565954",
    "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
    "user_directory_type": "AD",
    "group_name": "Group_A",
    "user_directory_group_path": "CN=Guests,CN=Builtin,DC=example,DC=com
↵",
    "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
    "created_at": "2025-06-05 03:14:24.316935-07",
    "modified_at": "2025-06-05 03:14:24.316935-07"
  },
  {
    "user_directory_group_id": "5683542729741565953",
    "group_id": "5683542729741565958",
    "user_directory_id": "5683542729741565954",
    "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
    "user_directory_type": "AD",
    "group_name": "Group_A",
    "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
    "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
    "created_at": "2025-06-02 04:02:29.903779-07",
    "modified_at": "2025-06-02 04:02:29.903779-07"
  }
]
}

```

Get Groups Assigned via a Specific Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/group

GET /api/v2/user_directory_group/<user_directory_group_id>/group

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/5683542729741565954/group'

```

Response

```
{
  "result": "success",
  "user_directory_group_group": [
    {
      "user_directory_group_id": "5683542729741565954",
      "group_id": "5683542729741565958",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
      "user_directory_type": "AD",
      "group_name": "Group_A",
      "user_directory_group_path": "CN=Guests,CN=Builtin,DC=example,DC=com
↵",
      "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
      "created_at": "2025-06-05 03:14:24.316935-07",
      "modified_at": "2025-06-05 03:14:24.316935-07"
    }
  ]
}
```

Get Assigned Group by Group Mapping ID and Group ID

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/group/<group_id>

GET /api/v2/user_directory_group/<user_directory_group_id>/group/<group_id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.0.214.98/api/v2/user_directory_group/5683542729741565954/group/
↵5683542729741565958'
```

Response

```
{
  "result": "success",
  "user_directory_group_group": [
    {
      "user_directory_group_id": "5683542729741565954",
      "group_id": "5683542729741565958",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
      "user_directory_type": "AD",
```

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```

        "group_name": "Group_A",
        "user_directory_group_path": "CN=Guests,CN=Builtin,DC=example,DC=com
↪",
        "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↪B1\\D0\\E3\\02\\71\\BC\\0E",
        "created_at": "2025-06-05 03:14:24.316935-07",
        "modified_at": "2025-06-05 03:14:24.316935-07"
    }
]
}

```

Define Group Assigned via Group Mapping

Request

Method	POST
Path	/api/v2/user_directory_group/<user_directory_group_id>/group
Headers	Content-Type: Application/json
Body	UserDirectoryGroupGroupModel

POST /api/v2/user_directory_group/<user_directory_group_id>/group

Example Request

```

curl -s -k -X POST \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/group \
-d '{"group_id": "5683542729741565959"}'

```

Response

```

{
  "result": "success"
}

```

Delete Group Assigned via Group Mapping

Request

Method	DELETE
Path	/api/v2/user_directory_group/<user_directory_group_id>/group/ <group_id>

DELETE /api/v2/user_directory_group/<user_directory_group_id>/group/<group_id>

Example Request


```
curl -s -k -X DELETE \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory_group/5683542729741565954/group/
↪5683542729741565959
```

Response

```
{
  "result": "success"
}
```

1.52.5 User Directory - Group Mapping - Adding to Roles

Data Structures

Table 161: *UserDirectoryGroupRoleModel*

Attribute	Type	Required	Description
id	string		Read-only, protected, unique object identifier.
user_directory_ξ	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_directory_group_id</code> with attribute <code>role_id</code> .
role_id	string	yes	Uniqueness is required in the combination of attribute <code>role_id</code> with attribute <code>user_directory_group_id</code> .
user_directory_:	string		Read-only. Expensive to use.
user_directory_!	string		Read-only. Expensive to use.
user_directory_!	string		Read-only. Expensive to use.
group_name	string		Read-only. Expensive to use.
role_name	string		Read-only. Expensive to use.
user_directory_ξ	string		Read-only. Expensive to use.
user_directory_ξ	string		Read-only. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryGroupRoleModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_group_role

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get Roles Assigned via Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/role

GET /api/v2/user_directory_group/role

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/role'
```

Response

```
{
  "result": "success",
  "user_directory_group_role": [
    {
      "user_directory_group_id": "5683542729741565953",
      "role_id": "5683542729741565964",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
      "user_directory_type": "AD",
      "role_name": "Server Admin",
      "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
      "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
      "created_at": "2025-06-02 04:02:29.911793-07",
      "modified_at": "2025-06-02 04:02:29.911793-07"
    }
  ]
}
```

Get Roles Assigned via a Specific Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/role

GET /api/v2/user_directory_group/<user_directory_group_id>/role

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/5683542729741565953/role'
```

Response

```
{
  "result": "success",
  "user_directory_group_role": [
    {
      "user_directory_group_id": "5683542729741565953",
      "role_id": "5683542729741565964",
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:
↪example.com]",
      "user_directory_type": "AD",
      "role_name": "Server Admin",
      "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↪",
      "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↪B1\\D0\\E3\\02\\71\\BC\\0E",
      "created_at": "2025-06-02 04:02:29.911793-07",
      "modified_at": "2025-06-02 04:02:29.911793-07"
    }
  ]
}
```

Get Assigned Role by Group Mapping ID and Role ID

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/role/ <role_id>

GET /api/v2/user_directory_group/<user_directory_group_id>/role/<role_id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/5683542729741565953/role/
↪5683542729741565964'
```

Response

```
{
  "result": "success",
  "user_directory_group_role": [
    {
```

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```

        "user_directory_group_id": "5683542729741565953",
        "role_id": "5683542729741565964",
        "user_directory_id": "5683542729741565954",
        "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
        "user_directory_type": "AD",
        "role_name": "Server Admin",
        "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
        "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
        "created_at": "2025-06-02 04:02:29.911793-07",
        "modified_at": "2025-06-02 04:02:29.911793-07"
    }
]
}

```

Define Role Assigned via Group Mapping

Request

Method	POST
Path	/api/v2/user_directory_group/<user_directory_group_id>/role
Headers	Content-Type: Application/json
Body	UserDirectoryGroupRoleModel

POST /api/v2/user_directory_group/<user_directory_group_id>/role

Example Request

```

curl -s -k -X POST \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/role \
-d '{"role_id":"5683542729741565966"}'

```

Response

```

{
  "result": "success"
}

```

Delete Role Assigned via Group Mapping

Request

Method	DELETE
--------	--------

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Table 166 – continued from previous page

Path	/api/v2/user_directory_group/<user_directory_group_id>/role/<role_id>
------	---

DELETE /api/v2/user_directory_group/<user_directory_group_id>/role/<role_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:<token>' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/role/
↪5683542729741565966
```

Response

```
{
  "result": "success"
}
```

1.52.6 User Directory - Group Mapping - Assigning External Authentication

Data Structures

Table 167: UserDirectoryGroupAuthenticationModel

Attribute	Type	Required	Description
id	string		Read-only, protected, unique object identifier.
user_directory_group_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>user_directory_group_id</code> with attribute <code>external_authentication_id</code> .
external_authentication_id	string	yes	Immutable. Uniqueness is required in the combination of attribute <code>external_authentication_id</code> with attribute <code>user_directory_group_id</code> .
position	number		Uniqueness is required in the combination of attribute <code>position</code> with attribute <code>user_directory_group_id</code> .
user_directory_group_id	string		Read-only. Expensive to use.
user_directory_group_id	string		Read-only. Expensive to use.
user_directory_group_id	string		Read-only. Expensive to use.
external_authentication_id	string		Read-only. Expensive to use.
external_authentication_id	string		Read-only. Expensive to use.
external_authentication_id	string		Read-only. Expensive to use.
external_authentication_id	number		Read-only. Expensive to use.
user_directory_group_id	string		Read-only. Expensive to use.
user_directory_group_id	string		Read-only. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.

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Table 167 – continued from previous page

Attribute	Type	Required	Description
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *UserDirectoryGroupAuthenticationModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_group_authentication

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get External Authentication Assigned via Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/external_authentication

GET /api/v2/user_directory_group/external_authentication

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/external_authentication'
```

Response

```
{
  "result": "success",
  "user_directory_group_authentication": [
    {
      "user_directory_group_id": "5683542729741565954",
      "external_authentication_id": "5683542729741565953",
      "position": 0,
      "user_directory_id": "5683542729741565954",
      "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
      "user_directory_type": "AD",
      "external_authentication_name": "AD",
      "external_authentication_type": "ad",
      "user_directory_group_path": "CN=Guests,CN=Builtin,DC=example,DC=com
↵",
      "user_directory_group_guid": "5683542729741565958",
```

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```

        "created_at": "2025-06-05 08:50:54.599141-07",
        "modified_at": "2025-06-05 08:50:54.615507-07"
    },
    {
        "user_directory_group_id": "5683542729741565953",
        "external_authentication_id": "5683542729741565954",
        "position": 0,
        "user_directory_id": "5683542729741565954",
        "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
        "user_directory_type": "AD",
        "external_authentication_name": "LDAP",
        "external_authentication_type": "ldap",
        "external_authentication_address": "10.0.136.1",
        "external_authentication_port": 389,
        "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
        "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
        "created_at": "2025-06-05 08:29:19.462607-07",
        "modified_at": "2025-06-05 08:51:05.932288-07"
    }
]
}

```

Get External Authentication Assigned via a Specific Group Mapping

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/external_authentication

GET /api/v2/user_directory_group/<user_directory_group_id>/ external_authentication

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/5683542729741565953/external_
↵authentication'

```

Response

```

{
  "result": "success",
  "user_directory_group_authentication": [
    {
      "user_directory_group_id": "5683542729741565953",

```

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```

        "external_authentication_id": "5683542729741565954",
        "position": 0,
        "user_directory_id": "5683542729741565954",
        "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
        "user_directory_type": "AD",
        "external_authentication_name": "LDAP",
        "external_authentication_type": "ldap",
        "external_authentication_address": "10.0.136.1",
        "external_authentication_port": 389,
        "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
        "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
        "created_at": "2025-06-05 08:29:19.462607-07",
        "modified_at": "2025-06-05 08:51:05.932288-07"
    }
]
}

```

Get Assigned External Authentication by Group Mapping ID and External Authentication ID

Request

Method	GET
Path	/api/v2/user_directory_group/<user_directory_group_id>/external_authentication/<external_authentication_id>

GET /api/v2/user_directory_group/<user_directory_group_id>/external_authentication/<external_authentication_id>

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/user_directory_group/5683542729741565953/external_
↵authentication/5683542729741565954'

```

Response

```

{
  "result": "success",
  "user_directory_group_authentication": [
    {
      "user_directory_group_id": "5683542729741565953",
      "external_authentication_id": "5683542729741565954",
      "position": 0,
      "user_directory_id": "5683542729741565954",

```

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```

        "user_directory_name": "active-directory-10.0.242.80 [domain:↵
↵example.com]",
        "user_directory_type": "AD",
        "external_authentication_name": "LDAP",
        "external_authentication_type": "ldap",
        "external_authentication_address": "10.0.136.1",
        "external_authentication_port": 389,
        "user_directory_group_path": "CN=Users,CN=Builtin,DC=example,DC=com
↵",
        "user_directory_group_guid": "\\CC\\04\\58\\2C\\BB\\9B\\E5\\46\\A0\\
↵B1\\D0\\E3\\02\\71\\BC\\0E",
        "created_at": "2025-06-05 08:29:19.462607-07",
        "modified_at": "2025-06-05 08:51:05.932288-07"
    }
]
}

```

Define External Authentication Assigned via Group Mapping

Request

Method	POST
Path	/api/v2/user_directory_group/<user_directory_group_id>/external_authentication
Headers	Content-Type: Application/json
Body	UserDirectoryGroupAuthenticationModel

POST /api/v2/user_directory_group/<user_directory_group_id>/ external_authentication

Example Request

```

curl -s -k -X POST \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/external_
↵authentication \
-d '{"external_authentication_id":"5683542729741565953"}'

```

Response

```

{
  "result": "success"
}

```

Edit External Authentication Assigned via Group Mapping

Request

Method	PATCH
Path	/api/v2/user_directory_group/<user_directory_group_id>/external_authentication
Headers	Content-Type: Application/json
Body	UserDirectoryGroupAuthenticationModel

PATCH /api/v2/user_directory_group/<user_directory_group_id>/external_authentication

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization:<token>' \
-H 'Content-Type: application/json' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/external_
↪authentication \
-d '{"external_authentication_id":"5683542729741565953"}'
```

Response

```
{
  "result": "success"
}
```

Delete External Authentication Assigned via Group Mapping

Request

Method	DELETE
Path	/api/v2/user_directory_group/<user_directory_group_id>/external_authentication/<external_authentication_id>

DELETE /api/v2/user_directory_group/<user_directory_group_id>/external_authentication/<external_authentication_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization:<token>' \
https://10.31.96.188/api/v2/user_directory_group/5683542729741565954/external_
↪authentication/5683542729741565953
```

Response

```
{
  "result": "success"
}
```

1.52.7 User Directory Synchronization Status

Data Structures

Table 174: UserDirectoryEnableModel

Attribute	Type	Required	Description
enabled	boolean; default value AD	yes	Enable User Directory synchronization.
node	string	yes	Synchronization is performed on node with given serial number.
current_node	boolean		Read-only. Synchronization is performed on current node.

Retrieve Available Attributes of the *UserDirectoryEnableModel*

Request

Method	GET
Path	/api/v2/objspec/user_directory_enable

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

Get User Directory Synchronization Status

Request

Method	GET
Path	/api/v2/user_directory/enable

GET /api/v2/user_directory/enable

Example Request

```
curl -s -k -X GET \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory/enable'
```

Response

```
{
  "enabled": true,
  "node": "86496998",
  "current_node": true,
  "result": "success"
}
```

Enable/Disable User Directory Synchronization

Request

Method	PATCH
Path	/api/v2/user_directory/enable
Headers	Content-Type: Application/json
Body	UserDirectoryEnableModel

PATCH /api/v2/user_directory/enable

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory/enable -H 'Content-Type:application/json' -d '{"enabled":true}'
```

Response

```
{
  "result": "success"
}
```

Force Full Synchronization

Request

Method	PATCH
Path	/api/v2/user_directory/<user_directory_id>/force_full_sync

PATCH /api/v2/user_directory/<user_directory_id>/force_full_sync

Example Request

```
curl -s -k -X POST \
-H 'Authorization:vg1ei6rgo58fsbobr7octp0w3afd9vsm' \
https://10.31.135.179/api/v2/user_directory/9115285645797883908/force_full_sync
```

Response

```
{
  "result": "success"
}
```

1.53 Remote Applications

Fudo Enterprise enables direct connection over the RDP protocol to a remote application using Remote Applications feature.

1.53.1 Data Structures

Table 179: RemoteApplicationsModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
name	string	yes	Case-insensitive. Uniqueness is required.
password_changer_id	string	yes	Password changer identifier assigned to remote app. Uniqueness is required.
path	string	yes	
arguments	string		
variables	object-array		
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.53.2 Retrieve Available Attributes of the *RemoteApplicationsModel*

Request

Method	GET
Path	/api/v2/objspec/remote_app

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.53.3 Get Remote Applications Definitions List

Request

Method	GET
Path	/api/v2/remote_app

Example Request

GET /api/v2/remote_app`

```
"result": "success",
"remote_app": [
  {
    "id": "1936547839769313283",
    "name": "RemoteApp1",
    "path": "/foldername/application1_executable_file",
    "created_at": "2022-12-13 02:53:32.427697-08",
    "modified_at": "2022-12-13 02:53:32.427697-08"
  },
  {
```

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```
"id": "1936547839769313284",
"name": "RemoteApp2",
"path": "/foldername/application2_executable_file",
"created_at": "2022-12-13 02:53:44.722701-08",
"modified_at": "2022-12-13 02:53:44.722701-08" }]
```

1.53.4 Get Remote Applications Definitions List by ID

Request

Method	GET
Path	/api/v2/remote_app/<id>

Example Request

GET /api/v2/remote_app/<id>

```
{
  "remote_app": {
    "id": "1936547839769313283",
    "name": "RemoteApp1",
    "path": "/foldername/application1_executable_file",
    "created_at": "2022-12-13 02:53:32.427697-08",
    "modified_at": "2022-12-13 02:53:32.427697-08"
  },
  "result": "success"
}
```

1.53.5 Defining Remote Applications Definition

Request

Method	POST
Path	/api/v2/remote_app
Headers	Content-Type: Application/json
Body	RemoteApplicationsModel

Example Request

POST /api/v2/remote_app

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/remote_app' \
-d '{"name": "Putty", "password_changer_id": "9115285645797883914", "path": "C:\\
→Windows\\System32\\putty.exe"}'
```

Response

```
{
  "remote_app": {
    "id": "9115285645797883916",
    "name": "Putty",
    "path": "C:\\Windows\\System32\\putty.exe",
    "arguments": null,
    "variables": null,
    "password_changer_id": "9115285645797883916"
  },
  "result": "success"
}
```

1.53.6 Modify Remote Applications Definition

Request

Method	PATCH
Path	/api/v2/remote_app/<id>
Headers	Content-Type: Application/json
Body	RemoteApplicationsModel

Example Request

PATCH /api/v2/remote_app/<id>`

```
curl -s -k -X PATCH -H 'Authorization:<token>' https://10.31.135.179/api/v2/
remote_app/9115285645797883916 -H 'Content-Type: application/json' -d '{"name":
"Putty", "path": "C:\\Windows\\System32\\putty_ext.exe"}'
```

Response

```
{
  "remote_app": {
    "id": null,
    "name": "Putty",
    "path": "C:\\Windows\\System32\\putty_ext.exe",
    "arguments": null,
    "variables": null,
    "password_changer_id": null
  },
  "result": "success"
}
```

1.53.7 Deleting a Remote Application Definition

Request

Method	DELETE
Path	/api/v2/remote_app/<id>

1.54 Reverse Proxy

Reverse proxy functionality in Fudo Enterprise allows for secure tunneling and redirection of connections. Reverse proxies can be configured with listeners to handle incoming connections and forward them to remote destinations, providing an additional layer of security and access control.

1.54.1 Reverse Proxy

Data Structures

Table 180: ReverseProxyModel

Attribute	Type	Required	Description
id	string		Read-only, unique reverse proxy identifier.
name	string	yes	Unique reverse proxy name (case-insensitive).
address	string	yes	Target address for SSH connection.
port	number	yes	SSH host port.
bind_ip	string	yes	Local bind address for outgoing connection.
ssh_public_key	string		Destination host SSH public key.
user_login	string	yes	User to log in as on the remote machine.
user_private_k	string	yes	Protected. SSH private key for authentication.
user_public_ke	string		Read-only; expensive to use. Public key derived from <code>user_private_key</code> .
uag_address	string		Remote address used to redirect to UAG.
uag_port	number		Remote port used to redirect to UAG.
last_status	string {running, degraded, dead, offline}		Read-only. Current connection status.
last_status_at	datetime		Read-only. Timestamp of last status update.
enabled	boolean	yes	Whether reverse proxy is enabled (default: false).
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *ReverseProxyModel*

Request

Method	GET
Path	/api/v2/objspec/reverse_proxy

To check allowed methods, available URL parameters and possible responses please refer to the

API Overview section.

List Reverse Proxies

Request

Method	GET
Path	/api/v2/reverse_proxy

GET /api/v2/reverse_proxy

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/reverse_proxy'
```

Response

```
{
  "result": "success",
  "reverse_proxy": [
    {
      "id": "8754997675608244225",
      "name": "Development SSH Tunnel",
      "address": "192.168.20.100",
      "port": 22,
      "bind_ip": "10.0.2.50",
      "user_login": "dev_tunnel",
      "last_status": "offline",
      "last_status_at": "2026-04-17 01:14:15.686819-07",
      "enabled": true,
      "created_at": "2026-04-17 01:14:15.690472-07",
      "modified_at": "2026-04-17 01:14:15.690472-07",
      "user_public_key": "ssh-ed25519
↪AAAAC3NzaC1lZDI1NTE5AAAAIP5n2dVOP106DP9u0bCxdd9F1N1MFdV6pN87U0AVxdmd"
    }
  ]
}
```

Get Reverse Proxy by ID

Request

Method	GET
Path	/api/v2/reverse_proxy/<id>

GET /api/v2/reverse_proxy/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225'
```

Response

```
{
  "result": "success",
  "reverse_proxy": [
    {
      "id": "8754997675608244225",
      "name": "Development SSH Tunnel",
      "address": "192.168.20.100",
      "port": 22,
      "bind_ip": "10.0.2.50",
      "user_login": "dev_tunnel",
      "last_status": "offline",
      "last_status_at": "2026-04-17 01:14:15.686819-07",
      "enabled": true,
      "created_at": "2026-04-17 01:14:15.690472-07",
      "modified_at": "2026-04-17 01:14:15.690472-07",
      "user_public_key": "ssh-ed25519
↳AAAAC3NzaC1lZDI1NTE5AAAAIP5n2dVOP106DP9u0bCxdd9F1N1MFdV6pN87U0AVxdmd"
    }
  ]
}
```

Create Reverse Proxy

Request

Method	POST
Path	/api/v2/reverse_proxy
Body	JSON object with reverse proxy parameters

POST /api/v2/reverse_proxy

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Development SSH Tunnel",
  "address": "192.168.20.100",
  "port": 22,
  "bind_ip": "10.0.2.50",
  "user_login": "dev_tunnel",
  "user_private_key": "-----BEGIN OPENSSH PRIVATE KEY-----\n...\n-----END
↳OPENSSH PRIVATE KEY-----",
}
```

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```
"enabled": true
}' \
'https://10.31.135.179/api/v2/reverse_proxy'
```

Response

```
{
  "result": "success",
  "reverse_proxy": {
    "id": "8754997675608244225"
  }
}
```

Update Reverse Proxy

Request

Method	PATCH
Path	/api/v2/reverse_proxy/<id>
Body	JSON object with updated reverse proxy parameters

PATCH /api/v2/reverse_proxy/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "enabled": false,
  "uag_address": "192.168.30.10",
  "uag_port": 8443
}' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

Delete Reverse Proxy

Request

Method	DELETE
Path	/api/v2/reverse_proxy/<id>

DELETE /api/v2/reverse_proxy/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

1.54.2 Reverse Proxy Listeners

Data Structures

Table 181: ReverseProxyListenerModel

Attribute	Type	Required	Description
id	string		Read-only. Unique reverse proxy listener identifier.
reverse_proxy_	string	yes	Reverse proxy identifier.
remote_address	string	yes	Remote address for connection forwarding. Uniqueness is required in the combination of attribute <code>remote_address</code> with attribute <code>remote_port</code> .
remote_port	number	yes	Value-format: port. Remote port for connection forwarding. Uniqueness is required in the combination of attribute <code>remote_port</code> with attribute <code>remote_address</code> .
listener_id	string		Associated listener identifier.
listener_name	string		Read-only. Name of the associated listener.
listener_addre	string		Read-only. Address of the associated listener.
listener_port	number		Read-only. Value-format: port. Port of the associated listener.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

Retrieve Available Attributes of the *ReverseProxyListenerModel*

Request

Method	GET
Path	/api/v2/objspec/reverse_proxy_listener

List Listeners for Reverse Proxy

Request

Method	GET
Path	/api/v2/reverse_proxy/<reverse_proxy_id>/listener

GET /api/v2/reverse_proxy/<reverse_proxy_id>/listener

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225/listener'
```

Response

```
{
  "result": "success",
  "reverse_proxy_listener": [
    {
      "id": "8754997675608244226",
      "reverse_proxy_id": "8754997675608244225",
      "remote_address": "192.168.100.20",
      "remote_port": 5432,
      "listener_id": "8754997675608244225",
      "listener_name": "SSH:bastion",
      "listener_address": "0.0.0.0",
      "listener_port": 22,
      "created_at": "2026-04-17 02:13:09.558896-07",
      "modified_at": "2026-04-17 02:13:09.558896-07"
    }
  ]
}
```

Add Listener to Reverse Proxy

Request

Method	POST
Path	/api/v2/reverse_proxy/<reverse_proxy_id>/listener
Body	JSON object with listener parameters

POST /api/v2/reverse_proxy/<reverse_proxy_id>/listener

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
```

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```
"remote_address": "192.168.100.20",
"remote_port": 5432,
"listener_id": "8754997675608244225"
}' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225/listener'
```

Response

```
{
  "result": "success",
  "reverse_proxy_listener": {
    "id": "8754997675608244226"
  }
}
```

Remove Listener from Reverse Proxy

Request

Method	DELETE
Path	/api/v2/reverse_proxy/<reverse_proxy_id>/listener/ <reverse_proxy_listener_id>

DELETE /api/v2/reverse_proxy/<reverse_proxy_id>/listener/<reverse_proxy_listener_id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.31.135.179/api/v2/reverse_proxy/8754997675608244225/listener/'
↪8754997675608244225'
```

Response

```
{
  "result": "success"
}
```

1.55 External Storage

Fudo Enterprise enables management of external storage devices via fiber channel cards.

1.55.1 Data Structures

Table 182: ExternalStorageModel

Attribute	Type	Required	Description
interface_stat	object-array		Fiber channel cards status. Read-only.
external_wwns	object-array		List of available external storage devices. Read-only.
connection_mod	string	yes	Fiber channel cards operating mode. Possible values: failover , loadbalancer .
wwn_to_configu	string		WWN of selected external storage device to configure.
current_storag	string		WWN of configured external storage device. Read-only.
is_configured	boolean		Is external storage configured? Read-only.
occupancy	object		Occupancy of configured external storage device: allocated, capacity, free, size. Read-only.

1.55.2 Retrieve Available Attributes of the *ExternalStorageModel*

Request

Method	GET
Path	/api/v2/objspec/external_storage

GET /api/v2/objspec/external_storage

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.124.76/api/v2/objspec/external_storage'
```

1.55.3 Get External Storage Information

Request

Method	GET
Path	/api/v2/external_storage

GET /api/v2/external_storage

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.31.124.76/api/v2/external_storage'
```

1.55.4 Get Specific External Storage Device

Request

Method	GET
Path	/api/v2/external_storage/<id>

GET /api/v2/external_storage/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.31.124.76/api/v2/external_storage/5620492334958379016'
```

1.55.5 Configure External Storage

Request

Method	POST
Path	/api/v2/external_storage
Headers	Content-Type: Application/json
Body	ExternalStorageModel

POST /api/v2/external_storage

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"connection_mode": "failover", "wwn_to_configure":
  ↪ "50:01:43:80:03:6f:8e:a0"}' \
  'https://10.31.124.76/api/v2/external_storage'
```

1.55.6 Delete External Storage Configuration

Request

Method	DELETE
Path	/api/v2/external_storage/<id>

DELETE /api/v2/external_storage/<id>

Example Request

```
curl -s -k -X DELETE \
  -H 'Authorization: <token>' \
  'https://10.31.124.76/api/v2/external_storage/5620492334958379016'
```


1.56 LLM Providers NEW

An LLM provider is the large language model endpoint that AI session analysis runs on. Analysis agents reference a provider through their `provider_id` attribute; an agent without a provider does not run.

1.56.1 Data Structures

Table 183: `LlmProviderModel`

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Uniqueness is required.
<code>name</code>	string	yes	Provider name. Case-insensitive. Uniqueness is required.
<code>provider</code>	string {anthropic, ollama, openai}	yes	Provider kind the URL speaks.
<code>url</code>	string	If <code>provider == ollama</code>	Endpoint URL. Empty means the provider's canonical SaaS endpoint.
<code>model</code>	string	yes	Model name requested from the provider.
<code>api_key</code>	string		API key used to authenticate against the provider. Protected; write-only - it is never returned by <code>GET</code> .
<code>temperature</code>	string		Sampling temperature between 0 and 2. Empty means the provider's default.
<code>builtin</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is not editable.
<code>hidden</code>	boolean		Read-only; expensive to use; if <code>true</code> , the object is hidden in UI.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

1.56.2 Retrieve Available Attributes of the `LlmProviderModel`

Request

Method	GET
Path	/api/v2/objspec/llm_provider

GET /api/v2/objspec/llm_provider

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.3.191/api/v2/objspec/llm_provider'
```

1.56.3 List LLM Providers

Request

Method	GET
Path	/api/v2/llm_provider

GET /api/v2/llm_provider

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/llm_provider'
```

Response

```
{
  "result": "success",
  "llm_provider": [
    {
      "id": "4638707616191610881",
      "name": "Local Ollama",
      "provider": "ollama",
      "url": "https://llm.example.com:11434",
      "model": "llama3.1:8b",
      "temperature": "0.2",
      "builtin": false,
      "hidden": false,
      "created_at": "2026-08-18 02:16:42.250842-07",
      "modified_at": "2026-08-18 02:16:42.250842-07"
    }
  ]
}
```

1.56.4 Get an LLM Provider

Request

Method	GET
Path	/api/v2/llm_provider/<id>

GET /api/v2/llm_provider/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.3.191/api/v2/llm_provider/4638707616191610881'
```

Response

```
{
  "result": "success",
  "llm_provider": {
    "id": "4638707616191610881",
    "name": "Local Ollama",
    "provider": "ollama",
    "url": "https://llm.example.com:11434",
    "model": "llama3.1:8b",
    "temperature": "0.2",
    "builtin": false,
    "hidden": false,
    "created_at": "2026-08-18 02:16:42.250842-07",
    "modified_at": "2026-08-18 02:16:42.250842-07"
  }
}
```

1.56.5 Create an LLM Provider

Request

Method	POST
Path	/api/v2/llm_provider
Body	LlmProviderModel

POST /api/v2/llm_provider

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"name": "Local Ollama", "provider": "ollama", "url": "https://llm.example.
  ↪com:11434", "model": "llama3.1:8b", "temperature": "0.2"}' \
  'https://10.33.3.191/api/v2/llm_provider'
```

Response

```
{
  "result": "success",
  "llm_provider": {
    "id": "4638707616191610881"
  }
}
```

1.56.6 Modify an LLM Provider

Request

Method	PATCH
Path	/api/v2/llm_provider/<id>
Body	LlmProviderModel

PATCH /api/v2/llm_provider/<id>

Example Request

```
curl -s -k -X PATCH \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{"model": "llama3.1:70b", "temperature": "0.1"}' \  
  'https://10.33.3.191/api/v2/llm_provider/4638707616191610881'
```

Response

```
{  
  "result": "success"  
}
```

1.56.7 Delete an LLM Provider

Request

Method	DELETE
Path	/api/v2/llm_provider/<id>

DELETE /api/v2/llm_provider/<id>

Example Request

```
curl -s -k -X DELETE \  
  -H 'Authorization: <token>' \  
  'https://10.33.3.191/api/v2/llm_provider/4638707616191610881'
```

Response

```
{  
  "result": "success"  
}
```

1.57 External Password Repository

Fudo Enterprise supports external passwords repositories for managing passwords to monitored servers.

1.57.1 Data Structures

Table 184: PasssvnModel

Attribute	Type	Required	Description
id	string		Read-only. Uniqueness is required.
name	string	yes	Case-insensitive. Uniqueness is required.
url	string	yes	
type	string {azure_key cyberark, laps, thycotic, vault}	yes	Immutable.
login	string	if type == laps thycotic	
secret	string	if type == azure_key_v laps thycotic vault	Protected.
tls_certificate	string		Format: x509-certificate.
cyberark_application_id	string	if type == cyberark	
cyberark_safe	string	if type == cyberark	
thycotic_secret_fmt	string	if type == thycotic	
base_dn	string	if type == laps	
azure_tenant_uuid	string	if type == azure_key_v	
azure_client_uuid	string	if type == azure_key_v	
azure_secret_name_fmt	string	if type == azure_key_v	Default: %U.
identity_certificate	string		Format: x509-certificate.
identity_key	string		Protected. Format: private-key.
identity_key_passphrase	string	if identity_key is set	Passphrase to use to decrypt private key. Protected.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
removed	boolean		Read-only.

1.57.2 Retrieve Available Attributes of the *PassvnModel*

Request

Method	GET
Path	/api/v2/objspec/passvn

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.57.3 Create External Password Repository

Request

Method	POST
Path	/api/v2/passvn
Headers	Content-Type: Application/json
Body	PassvnModel

Example Request

POST /api/v2/passvn`

```
{
  "type": "laps",
  "name": "LAPS Test Name 2",
  "url": "ldaps://10.2.0.1:8636/",
  "login": "cn=admin,dc=fudosecurity,dc=lab",
  "secret": "passwordExample",
  "base_dn": "dc=fudosecurity,dc=lab"
}
```

Response

```
{
  "result": "success",
  "passvn": {
    "id": "123456789012345678"
  }
}
```

1.57.4 Get External Password Repositories List

Request

Method	GET
Path	/api/v2/passvn

Example Request

GET /api/v2/passvn`

Response

```
"result": "success",
"passvn": [
  {
    "id": "123456789012345679",
    "name": "LDAP Test Name",
    "url": "ldaps://10.2.0.100:8636/",
    "type": "laps",
    "login": "cn=admin,dc=fudosecurity,dc=lab",
    "base_dn": "dc=fudosecurity,dc=lab",
    "created_at": "2023-06-16 02:53:08.930597-07",
    "modified_at": "2023-06-16 02:53:08.930597-07"
  }
]
```

1.57.5 Get Information About External Password Repository by ID

Request

Method	GET
Path	/api/v2/passvn/<id>

Example Request

GET /api/v2/passvn/<id>

Response

```
"result": "success",
"passvn": [
  {
    "id": "123456789012345679",
    "name": "LDAP Test Name",
    "url": "ldaps://10.2.0.100:8636/",
    "type": "laps",
    "login": "cn=admin,dc=fudosecurity,dc=lab",
    "base_dn": "dc=fudosecurity,dc=lab",
    "created_at": "2023-06-16 02:53:08.930597-07",
    "modified_at": "2023-06-16 02:53:08.930597-07"
  }
]
```

1.57.6 Delete an External Password Repository Definition

Request

Method	DELETE
Path	/api/v2/passvn/<id>

1.57.7 Changing External Password Repository Configuration

Request

Method	PATCH
Path	/api/v2/passvn/<id>
Headers	Content-Type: Application/json
Body	PassvnModel

Example Request

PATCH /api/v2/passvn/<id>

```
{
  "login": "cn=admin,dc=fudosecurity,dc=com",
  "base_dn": "dc=fudosecurity,dc=com"
}
```

Response

```
{
  "result": "success"
}
```

1.58 Batch Requests

Fudo Enterprise allows using its API for sending a batch request by which an administrator can perform nested operations with different methods. Creating an account and assigning an authentication method to it or defining 100 servers in one request is possible with an endpoint /batch.

1.58.1 Data Structures

Table 185: BatchModel

Batch operation element	Possible values / Request variant	Description
atomic	true, false	Set a global value atomic=true to ensure that all requests within a batch operation are executed. In case of failure of any request, the entire operation will be reverted.
variables		Define variables to facilitate future referencing of responses.
requests:		Remember to give your request a unique ID that consist of characters matching any single character from the following set: lowercase letters (a-z), uppercase letters (A-Z), digits (0-9), hyphens (-), colons (:), or underscores (_).
	method	Use one of the available methods per request.
	endpoint	Use one of the available endpoints per request.

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Table 185 – continued from previous page

Batch operation element	Possible values / Request variant	Description
	params	Include optional URL parameters.
	data	Include optional attributes values or variables for the future responses of the previous requests.
	atomic	Override global <code>atomic=true</code> with a local <code>atomic=false</code> .

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.59 Create Batch Operation

Request

Method	POST
Path	/api/v2/batch
Headers	Content-Type: application/json
Body	BatchModel

POST /api/v2/batch

Example of a batch operation that contains four requests:

- **request0** returns a list of users' IDs and names, where the user's `name == test`,
- **request1** deletes the first user that was on the list of the **request0**'s response,
- **request2** creates a new user with `name` of the first user from the **request0**'s response and assigns a role `user` to it,
- **request3** assigns `password` as an authentication method for the user that was created in the **request2**

Example Request

```
{
  "requests": {
    "request0": {
      "method": "GET",
      "endpoint": "/user",
      "params": {
        "filter": "name.eq(test)",
        "fields": "id,name"
      }
    },
    "request1": {
      "method": "DELETE",
      "endpoint": "/user/{responses.request0.user[0].id}"
    },
  },
}
```

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```

"request2": {
  "method": "POST",
  "endpoint": "/user",
  "data": {
    "name": "{responses.request0.user[0].name}",
    "role": "user"
  }
},
"request3": {
  "method": "POST",
  "endpoint": "/user/{responses.request2.user.id}/authentication",
  "data": {
    "type": "password",
    "position": 0,
    "secret": "abcd.8"
  }
}
}
}

```

Response

```

{
  "result": "success",
  "responses": {
    "request0": {
      "result": "success",
      "status-code": 200,
      "user": [
        {
          "id": "8511803295730237462",
          "name": "test"
        }
      ]
    },
    "request1": {
      "result": "success",
      "status-code": 200
    },
    "request2": {
      "result": "success",
      "status-code": 201,
      "user": {
        "id": "8511803295730237463"
      }
    },
    "request3": {
      "result": "success",
      "status-code": 201,

```

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```

        "user_authentication_method": {
            "id": "8511803295730237489"
        }
    }
}

```

1.60 Create Batch Operation Using Variable

The example below demonstrates a batch operation with "username": "jdoe" variable defined. This variable was used to dynamically populate the name field in the user_1 request. Next, the user_auth request includes {responses.user_1.user.id} ({responses.<response-id>.user.id}), which is a placeholder that will be replaced with the actual id value generated from the response of the user_1 request.

Request

```

{
  "variables": {
    "username": "jdoe"
  },
  "requests": {
    "user_1": {
      "method": "POST",
      "endpoint": "/user",
      "data": {
        "name": "{variables.username}"
      }
    },
    "user_auth": {
      "method": "POST",
      "endpoint": "/user/{responses.user_1.user.id}/authentication",
      "data": {
        "type": "password",
        "position": 0,
        "secret": "test123"
      }
    }
  }
}

```

Response

```

{
  "result": "success",
  "responses": {
    "user_1": {
      "result": "success",
      "status-code": 201,

```

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```

        "user": {
            "id": "8511803295730237446"
        }
    },
    "user_auth": {
        "result": "success",
        "status-code": 201,
        "user_authentication_method": {
            "id": "8511803295730237442"
        }
    }
}
}
}

```

1.60.1 Atomic Functionality

The example below demonstrates a batch operation that includes two requests (**user0** and **user1**) for creating two users, where **user0** request has invalid value (**not_defined**) set for the **role** attribute. While the global **atomic** function is enabled for the batch operation, it is disabled solely for the **user0** request. As a result, only user from the **user1** request will be created.

Example Request

```

{
  "atomic": true,
  "variables": {
    "user_name_0": "jdoe",
    "user_name_1": "jsmith"
  },
  "requests": {
    "user0": {
      "method": "POST",
      "endpoint": "/user",
      "atomic": false,
      "data": {
        "name": "{variables.user_name_0}",
        "role": "not_defined"
      }
    },
    "user1": {
      "method": "POST",
      "endpoint": "/user",
      "data": {
        "name": "{variables.user_name_1}",
        "role": "operator"
      }
    }
  }
}
}

```

Response

```

{
  "result": "success",
  "responses": {
    "user0": {
      "result": "failure",
      "status-code": 400,
      "message": "Invalid value of attribute role: 'not_defined'
        (expected values=[ 'admin', 'operator', 'service', 'superadmin',
→ 'user' ]).",
      "failing_attributes": [
        "role"
      ]
    },
    "user1": {
      "result": "success",
      "status-code": 201,
      "user": {
        "id": "8511803295730237444"
      }
    }
  }
}

```

1.61 Backup

Fudo allows configuring multiple backup target destinations, where data can be stored. Each backup target can have S3, Backblaze, FTP, or SFTP as a destination place.

1.61.1 Data Structures

Table 186: BackupModel

Attribute	Type	Required	Description
id	string		Unique and read-only object Identifier
name	string	yes	Unique, case insensitive object name
type	string {backblaze, ftp, s3, sftp}	yes	Immutable, case insensitive
backblaze_buck	string	If type == backblaze	Backblaze bucket name.
backblaze_dire	string	If type == backblaze	Directory within the Backblaze bucket.
backblaze_keyi	string	If type == backblaze	Backblaze key ID.

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Table 186 – continued from previous page

Attribute	Type	Required	Description
backblaze_appl	string	If type == backblaze	Protected. Backblaze application key.
ftp_address	string	If type == ftp	FTP server address.
ftp_username	string	If type == ftp	FTP login username.
ftp_password	string	If type == ftp & ftp_usern provided	Protected. FTP password.
ftp_directory	string	If type == ftp	Target directory on the FTP server.
s3_bucket	string	If type == s3	S3 bucket name.
s3_directory	string	If type == s3	Directory within the S3 bucket.
s3_access_key_	string	If type == s3	AWS access key ID.
s3_secret_acce	string	If type == s3	Protected. AWS secret access key.
s3_endpoint	string	If type == s3	Custom S3 endpoint URL.
s3_region	string	If type == s3	AWS region name.
sftp_address	string	If type == sftp	SFTP server address.
sftp_port	number; default value 22	If type == sftp	SFTP server port.
sftp_username	string	If type == sftp	SFTP login username.
sftp_userkey	string	If type == sftp	Protected. User SSH private key.
sftp_userkey_p	string	If sftp_user provided	Protected. Passphrase to decrypt user SSH private key.
sftp_directory	string	If type == sftp	Directory on the SFTP server.
sftp_serverkey	string	If type == sftp	Protected. SFTP server SSH public key.
created_at	datetime		Read-only. Creation timestamp.
modified_at	datetime		Read-only. Modification timestamp.
session_replic	number		Read-only. Hidden. Expensive to use.
removed	boolean		Read-only.

1.61.2 Retrieve Available Attributes of the *BackupModel*

Request

Method	GET
Path	/api/v2/objspec/backup

GET /api/v2/objspec/backup

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/objspec/backup'
```

1.62 Create Backup Target

Request

Method	POST
Path	/api/v2/backup
Headers	Content-Type: application/json
Body	BackupModel

Example Request

POST /api/v2/backup

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
'https://10.0.214.98/api/v2/backup' \  
-d '{"name": "FTP_Backup", "type": "ftp", "ftp_address": "10.0.130.100"}'
```

Response

```
{  
  "result": "success",  
  "backup": {  
    "id": "801640733671948290"  
  }  
}
```

1.63 Get Backup Definitions List

Request

Method	GET
Path	/api/v2/backup

Example Request

GET /api/v2/backup

```
"result": "success",
"backup": [
  {
    "id": "9124292845052624897",
    "name": "FTP_Backup",
    "type": "ftp",
    "path": "",
    "created_at": "2024-06-16 13:50:42.355762-07",
    "modified_at": "2024-06-16 14:29:47.217872-07"
  },
  {
    "id": "9124292845052624898",
    "name": "Backblaze_Backup",
    "type": "backblaze",
    "path": "myBucket\\",
    "created_at": "2024-06-16 14:29:47.226305-07",
    "modified_at": "2024-06-16 14:29:47.226305-07"
  }
]
```

1.64 Get a Backup Definition by ID

Request

Method	GET
Path	/api/v2/backup/<id>

GET /api/v2/backup/<id>

1.65 Assign Backup Definition to Session

Request

Method	POST
Path	/api/v2/session/<session_id>/backup/<backup_id>

POST /api/v2/session/<session_id>/backup/<backup_id>

1.66 Delete Backup Definition

Request

Method	DELETE
Path	/api/v2/backup/<id>

DELETE /api/v2/backup/<id>

1.67 Upgrade

1.67.1 Data Structures

Table 187: UpgradeModel

Attribute	Type	Required	Description
version	string		The version provided by the upgrade package. Read-only.
size	number		Upgrade package size, in bytes. Read-only.
upgrade_check_	string {never, running, success, failure}	yes	Status of the upgrade check. Read-only.
estimated_upgr	number		Estimated upgrade time in seconds. Available after successful upgrade check. Read-only.
has_upgrade_sn	boolean	yes	Indicates whether an upgrade snapshot is available. Read-only.
upgrade_runnin	boolean	yes	True if an upgrade is in progress. Read-only.

1.67.2 Retrieve Available Attributes of the *UpgradeModel*

Request

Method	GET
Path	/api/v2/objspec/upgrade_info

GET /api/v2/objspec/upgrade_info

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/upgrade_info'
```

1.67.3 Upload the Upgrade File

Request

Method	POST
Path	/api/v2/upgrade/upload
Headers	Content-Type: multipart/form-data (set automatically by curl when using -F)
Body	File uploaded using the file form field

POST /api/v2/upgrade/upload

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  -F 'file=@/path/to/fudo-5.6.0.upg' \  
  'https://10.0.214.98/api/v2/upgrade/upload'
```

Response

1.67.4 Get Uploaded Upgrade Information

Request

Method	GET
Path	/api/v2/upgrade

GET /api/v2/upgrade

Example Request

```
curl -s -k -X GET \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  'https://10.0.214.98/api/v2/upgrade'
```

Response

```
{  
  "upgrade": {  
    "version": "5.6.3",  
    "size": 857056256,  
    "upgrade_check_status": "success",  
    "estimated_upgrade_time": 300,  
    "has_upgrade_snapshot": false,  
    "upgrade_running": false  
  },  
  "result": "success"  
}
```

1.67.5 Run the Upgrade Check

Request

Method	POST
Path	/api/v2/upgrade/check/run

POST /api/v2/upgrade/check/run

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/upgrade/check/run'
```

Response

```
{  
  "result": "success"  
}
```

1.67.6 Cancel the Upgrade Check

Request

Method	POST
Path	/api/v2/upgrade/check/cancel

POST /api/v2/upgrade/check/cancel

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/upgrade/check/cancel'
```

Response

```
{  
  "result": "success"  
}
```

1.67.7 Get the Upgrade Check Log

Request

Method	GET
Path	/api/v2/upgrade/check/log

GET /api/v2/upgrade/check/log

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/upgrade/check/log'
```

Response

```
Starting upgrade check.  
waiting for server to start....2025-05-13 18:45:37.590 CEST (pid=97795) (user=) █  
(continues on next page)
```

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```

↪(app=) LOG:  redirecting log output to logging collector process
2025-05-13 18:45:37.590 CEST (pid=97795) (user=) (app=) HINT:  Future log
↪output will appear in directory "pg_log".
done
server started
New upgrade script: UPG000754.
Upgrade UPG000754 started at 2025-05-13 09:45:42.
Upgrade UPG000754 completed successfully at 2025-05-13 09:45:43.
New upgrade script: UPG000756.
Upgrade UPG000756 started at 2025-05-13 09:45:43.
Upgrade UPG000756 completed successfully at 2025-05-13 09:45:43.
2025-05-13 18:45:37.590 CEST (pid=97795) (user=) (app=) LOG:  starting
↪PostgreSQL 16.2 on amd64-portbld-freebsd12.3, compiled by FreeBSD clang
↪version 10.0.1 (git@github.com:llvm/llvm-project.git llvmorg-10.0.1-0-
↪gef32c611aa2), 64-bit
2025-05-13 18:45:37.591 CEST (pid=97795) (user=) (app=) LOG:  listening on Unix
↪socket "/data/local/upgcheck/run/.s.PGSQL.5432"
2025-05-13 18:45:37.603 CEST (pid=97868) (user=) (app=) LOG:  database system
↪was interrupted; last known up at 2025-05-13 18:39:28 CEST
2025-05-13 18:45:37.652 CEST (pid=97868) (user=) (app=) LOG:  database system
↪was not properly shut down; automatic recovery in progress
2025-05-13 18:45:37.654 CEST (pid=97868) (user=) (app=) LOG:  redo starts at 0/
↪3B429E8
2025-05-13 18:45:37.663 CEST (pid=97868) (user=) (app=) LOG:  invalid record
↪length at 0/3BCE9B0: expected at least 24, got 0
2025-05-13 18:45:37.663 CEST (pid=97868) (user=) (app=) LOG:  redo done at 0/
↪3BCE978 system usage: CPU: user: 0.00 s, system: 0.00 s, elapsed: 0.00 s
2025-05-13 18:45:37.665 CEST (pid=97847) (user=) (app=) LOG:  checkpoint
↪starting: end-of-recovery immediate wait
2025-05-13 18:45:37.673 CEST (pid=97847) (user=) (app=) LOG:  checkpoint
↪complete: wrote 116 buffers (0.7%); 0 WAL file(s) added, 0 removed, 0
↪recycled; write=0.007 s, sync=0.001 s, total=0.008 s; sync files=72,
↪longest=0.001 s, average=0.001 s; distance=559 kB, estimate=559 kB; lsn=0/
↪3BCE9B0, redo lsn=0/3BCE9B0
2025-05-13 18:45:37.688 CEST (pid=97795) (user=) (app=) LOG:  database system
↪is ready to accept connections
Upgrade check finished successfully. Duration 1 seconds.

```

1.67.8 Run the Upgrade

Request

Method	POST
Path	/api/v2/upgrade/run

POST /api/v2/upgrade/run

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/upgrade/run'
```

Response

```
{
  "result": "success"
}
```

Note

After running the `upgrade/run` request, the operation may take some time to complete. Please wait patiently while the upgrade is being processed.

1.67.9 Delete Upgrade

Request

Method	DELETE
Path	/api/v2/upgrade

DELETE /api/v2/upgrade

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/upgrade'
```

Response

```
{
  "result": "success"
}
```

1.67.10 Delete Upgrade Snapshot

Request

Method	DELETE
Path	/api/v2/upgrade/snapshot

DELETE /api/v2/upgrade/snapshot

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/upgrade/snapshot'
```

Response

```
{
  "result": "success"
}
```

1.68 Hotfix

1.68.1 Upload the Hotfix File

Request

Method	POST
Path	/api/v2/hotfix/upload
Headers	Content-Type: application/octet-stream
Body	Raw hotfix file content sent as binary data
Authenticat- tion	Authenticated web session (<code>sessionid</code> cookie) with CSRF protection

POST /api/v2/hotfix/upload

Example Request

```
curl -sk -X POST 'https://10.31.118.184/api/v2/hotfix/upload' \
-H 'Content-Type: application/octet-stream' \
-H 'Origin: https://10.31.118.184' \
-H 'Referer: https://10.31.118.184/settings/system/hotfix' \
-H 'X-CSRFToken: <csrf_token>' \
-H 'Cookie: sessionid=<session_id>; csrftoken=<csrf_token>' \
--data-binary '@/path/to/hotfix_file.fshf'
```

Response

```
{
  "result": "success"
}
```

Note

This endpoint requires an authenticated web session and CSRF protection. Token-based authorization using the `Authorization` header is not sufficient.

1.68.2 Get Uploaded Hotfix Information

Request

Method	GET
Path	/api/v2/hotfix

GET /api/v2/hotfix

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/hotfix'
```

Response

```
{
  "result": "success",
  "hotfix": [
    {
      "name": "hotfix_name_5.6.3",
      "description": "Hotfix for ...",
      "installed": null
    }
  ]
}
```

1.68.3 Install the Hotfix

Request

Method	POST
Path	/api/v2/hotfix/install/<name>
Headers	Authorization: <token>
Body	Not required

POST /api/v2/hotfix/install/<name>

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
'https://10.31.118.184/api/v2/hotfix/install/hotfix_name_5.6.3'
```

Response

```
{
  "result": "success",
  "output": "Running preinstall script.\nStopping pmonitord.\nWaiting for ↵
↵PIDS: 49368.\nStopping fudod.\nWaiting for PIDS: 44506.\nRunning postinstall ↵
↵script.\nStarting fudod.\nStarting pmonitord.\n"
}
```

Note

The `output` field contains the execution log of the hotfix installation process, including pre-installation and post-installation steps.

1.68.4 Delete Uploaded Hotfix File

Request

Method	DELETE
Path	/api/v2/hotfix/<name>

DELETE /api/v2/hotfix/<name>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.31.135.179/api/v2/hotfix/hotfix_name_5.6.3'
```

Response

```
{  
  "result": "success"  
}
```

Note

The names of uploaded hotfixes can be retrieved using the GET /api/v2/hotfix endpoint.

1.69 License

1.69.1 Data Structures

Table 188: LicenseModel

Attribute	Type	Required	Description
serial	string		Read-only. License serial number.
fuid	string		Read-only. License fuid identifier.
expiration_dat	string	yes	Read-only. Specifies the license validity period. Format: YYYY-MM-DD / unlimited . Deprecated, use psm_expiration_date instead.
expired	boolean	yes	Read-only. License has expired? Deprecated, use psm_expired instead.
psm_expiration	string	yes	Read-only. Specifies the license validity period for the PSM module. Format: YYYY-MM-DD / unlimited .
psm_expired	boolean	yes	Read-only. License has expired for the PSM Module?
vault_expirati	string		Read-only. Specifies the license validity period for the Vault module. Format: YYYY-MM-DD / unlimited .
vault_expired	boolean		Read-only. License has expired for the Vault Module?
support_expira	string		Read-only. Specifies the license support end date. Format: YYYY-MM-DD.
support_state	string {active, expiring, expired, unknown}	yes	Read-only. Status of support based on support expiration date.
support_expire	number		Read-only. Number of days until customer support expires. 0 means today is last day.
owner	string	yes	Read-only. Specifies the name of the entity to which the license is issued.
type	string {commercial, test}	yes	Read-only. Specifies the type of license. The value can be set to test for test purposes or to commercial for commercial use.
tier	string {basic, full}	yes	Read-only. License tier.
nodes	string		Read-only. Limit how many nodes can be configured. Format: a positive integer or unlimited .
servers	string		Read-only. Limit how many servers can be configured. Format: a positive integer or unlimited .
activeusers	string		Read-only. The limit of active users. Format: a positive integer or unlimited . Deprecated, use psm_activeusers instead.
psm_activeuser	string		Read-only. The limit of active users is defined in the license for the PSM module. Number of users or unlimited for an infinite user limit.
vault_activeus	string		Read-only. The limit of active users is defined in the license for the Vault module. Number of users or unlimited for an infinite user limit.
changers	string		Read-only. The number of accounts and secrets that can have an assigned secret changer. For-

1.69.2 Retrieve Available Attributes of the *LicenseModel*

Request

Method	GET
Path	/api/v2/objspec/license

GET /api/v2/objspec/license

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/license'
```

1.69.3 Data Structures

Table 189: LicenseUploadModel

Attribute	Type	Required	Description
license	string	yes	License file.

1.69.4 Retrieve Available Attributes of the *LicenseUploadModel*

Request

Method	GET
Path	/api/v2/objspec/license_upload

GET /api/v2/objspec/license_upload

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/license_upload'
```

1.69.5 Get License Information

Request

Method	GET
Path	/api/v2/license

GET /api/v2/license

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/license'
```

Response

```
{  
  "license": {  
    "serial": "80840259",  
    "expiration_date": "2026-07-08",  
    "expired": false,  
    "psm_expiration_date": "2026-07-08",  
    "psm_expired": false,  
    "vault_expiration_date": "2026-09-08",  
    "vault_expired": false,  
    "support_expiration_date": "2026-07-08",  
    "support_state": "expiring",  
    "support_expires_in_days": 28,  
    "owner": "Fudo Security",  
    "type": "commercial",  
    "tier": "full",  
    "nodes": "3",  
    "servers": "100",  
    "activeusers": "50",  
    "psm_activeusers": "50",  
    "vault_activeusers": "99",  
    "changers": "9",  
    "servers_inuse": 2,  
    "activeusers_inuse": 11,  
    "psm_activeusers_inuse": 11,  
    "vault_activeusers_inuse": 1,  
    "changers_inuse": 0  
  },  
  "result"  
    "success"  
}
```

1.69.6 Upload the License

Request

Method	POST
Path	/api/v2/license
Headers	Content-Type: Application/json
Body	LicenseUploadModel

POST /api/v2/license

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/license' \
-d '{
  "license": "serial=33333333
servers=5000
changers=400
expire=20271231
mode=host
procmaxocr=15
license type: commercial
type=test
owner=FudoSecurity
nodes=8
languages=en,pl
key=NTXXXXXXXXXXXXXXXXXXXXXXXXXXXX...<truncated>
signature=dTJ0ftdo2i4ykvXUYTDnijSy...<truncated>"
}'
```

Response

```
{
  "result": "success"
}
```

1.69.7 Delete Uploaded License File

Request

Method	DELETE
Path	/api/v2/license

DELETE /api/v2/license

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.31.135.179/api/v2/license'
```

Response

```
{
  "result": "success"
}
```

1.70 Exporting/Importing System Configuration

Warning

The endpoints described in this section belong to the `/internal` API group and may change without prior notice. These interfaces are intended for internal use and are not guaranteed to be stable between releases.

For more details refer to the *API BETA Endpoints* section.

1.70.1 Data Structures

Table 190: ConfigurationModel

Attribute	Type	Required	Description
master_key	string	yes	Base64 encode master key file content.
configuration	string	yes	Configuration file content.

1.70.2 Retrieve Available Attributes of the *ConfigurationModel*

Request

Method	GET
Path	/api/v2/objspec/configuration_import

To check allowed methods, available URL parameters and possible responses please refer to the *API Overview* section.

1.70.3 Exporting the Master Key

Note

Exporting the Master Key requires a certificate, which will be used to encrypt the exported key data.

Request

Method	GET
Path	/api/v2/internal/masterkey/export

GET /api/v2/internal/masterkey/export

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.0.214.98/api/v2/internal/masterkey/export' \
  -d '{
    "certificate": "-----BEGIN CERTIFICATE-----\nMIIC...snip...\n-----
```

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```
↪END CERTIFICATE-----\n"
    }'
```

1.70.4 Exporting System Configuration

Request

Method	GET
Path	/api/v2/internal/configuration/export

GET /api/v2/internal/configuration/export

The following example downloads the configuration to a file named `fudo_config.conf`.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.0.214.98/api/v2/internal/configuration/export' \
-o fudo_config.conf
```

1.70.5 Importing System Configuration

Request

Method	POST
Path	/api/v2/internal/configuration/import
Headers	Content-Type: Application/json
Body	ConfigurationModel

POST /api/v2/internal/configuration/import

Example Request

```
curl -s -k -X POST \
-H 'Authorization:<token>' \
'https://10.31.135.179/api/v2/internal/configuration/import' \
-H 'Content-Type: application/json' \
-d '{"master_key":"<base64 masterkey decrypted>","configuration": "<sql file_
↪content>"}'
```

Response

```
{
  "result": "success"
}
```

1.71 Hardware Security Module NEW

Fudo Enterprise can keep the key that encrypts its master key (the KEK) inside a hardware security module instead of on disk. The module is reached through a PKCS#11 library supplied in an uploaded bundle; enrollment generates the KEK on the token and switches the system to HSM master-key mode.

1.71.1 Data Structures

Table 194: `HsmModel`

Attribute	Type	Required	Description
<code>enabled</code>	boolean		Read-only. Whether HSM master-key mode is active.
<code>module</code>	string		PKCS#11 module path relative to the uploaded bundle. Must not start with a slash.
<code>token_label</code>	string		PKCS#11 token label.
<code>key_label</code>	string		Read-only. Label of the KEK generated during enrollment.
<code>env</code>	object		Module environment. A map sent on <code>PATCH</code> replaces the whole map.
<code>pin</code>	string		Token PIN. Write-only and protected - never returned by <code>GET</code> . An empty string inherits the currently active PIN.
<code>test_only</code>	boolean		Dry run: validate the configuration without committing it. See the note below.

Table 195: `HsmStatusModel`

Attribute	Type	Required	Description
<code>enabled</code>	boolean		Read-only. Whether HSM master-key mode is active.
<code>healthy</code>	boolean		Read-only. The whole chain works: module loaded, token found, login accepted, exactly one KEK present.
<code>error</code>	string		Read-only. Diagnosis of the failing step. <code>null</code> when healthy.
<code>token_label</code>	string		Read-only. Token label reported by the HSM.
<code>token_manufacturer</code>	string		Read-only. Token manufacturer.
<code>token_model</code>	string		Read-only. Token model.
<code>token_serial</code>	string		Read-only. Token serial number.
<code>firmware_version</code>	string		Read-only. Token firmware version.
<code>pin_locked</code>	boolean		Read-only. Login is blocked until the PIN is reset.
<code>pin_expired</code>	boolean		Read-only. PIN is expired; cryptographic operations fail until it is changed.
<code>fingerprint</code>	string		Read-only. KEK fingerprint, comparable across cluster nodes.

Table 196: HsmBundleModel

Attribute	Type	Required	Description
modules	string-array		Read-only. PKCS#11 module (.so) paths in the active bundle.
filename	string		Read-only. Original upload filename of the active bundle.
uploaded_at	datetime		Read-only. RFC3339 time the active bundle was uploaded.

1.71.2 Retrieve Available Attributes

Request

Method	GET
Path	/api/v2/objspec/hsm, /api/v2/objspec/hsm_status, /api/v2/objspec/hsm_bundle

GET /api/v2/objspec/hsm

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.36.9.188/api/v2/objspec/hsm'
```

1.71.3 Get the HSM Configuration

Request

Method	GET
Path	/api/v2/hsm

GET /api/v2/hsm

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.36.9.188/api/v2/hsm'
```

Response

```
{
  "enabled": true,
  "module": "module.so",
  "token_label": "soft-hsm",
  "key_label": "fudo-kek-masterkey",
  "env": {
```

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```

    "PKCS11_PROXY_SOCKET": "tcp://10.0.100.37:2345"
  },
  "result": "success"
}

```

When HSM mode is off, the configuration is reported empty:

```

{
  "enabled": false,
  "module": null,
  "token_label": null,
  "key_label": null,
  "env": {},
  "result": "success"
}

```

1.71.4 Get the HSM Status

Request

Method	GET
Path	/api/v2/hsm/status

GET /api/v2/hsm/status

Runs the whole chain - load the module, find the token, log in, count the KEKs - and reports where it stops.

Example Request

```

curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.36.9.188/api/v2/hsm/status'

```

Response

```

{
  "enabled": true,
  "healthy": true,
  "error": null,
  "token_label": "soft-hsm",
  "token_manufacturer": "SoftHSM project",
  "token_model": "SoftHSM v2",
  "token_serial": "bf5f6cb03dd72192",
  "firmware_version": "2.7",
  "pin_locked": false,
  "pin_expired": false,
  "fingerprint":
    ↪ "61cf4f0c9721171647bc56af0f85dd4c851542339c12e3bb765408c70164f0b1",

```

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```

    "result": "success"
  }

```

When the chain breaks, **healthy** is **false**, **error** carries the diagnosis and the token details are **null**:

```

{
  "enabled": true,
  "healthy": false,
  "error": "HSM unavailable: C_Initialize: Function::Initialize: PKCS11_
↪error: Some problem has occurred with the token and/or slot.",
  "token_label": null,
  "token_manufacturer": null,
  "token_model": null,
  "token_serial": null,
  "firmware_version": null,
  "pin_locked": null,
  "pin_expired": null,
  "fingerprint": null,
  "result": "success"
}

```

Note

Compare **fingerprint** across cluster nodes to confirm they all reached the same KEK.

1.71.5 Test or Commit an HSM Configuration

Request

Method	PATCH
Path	/api/v2/hsm
Body	HsmModel

PATCH /api/v2/hsm

This endpoint both validates and enrolls, and it answers with an **HsmStatusModel** rather than a plain result:

- **test_only** set to **true** is a dry run. The configuration is exercised against the token and the outcome reported, but the live configuration is left untouched. The **enabled** field of the result describes the staged configuration, not the running one, so it reads **false**.
- **test_only** set to **false** commits: it enrolls the configuration, generates a KEK on the token, activates any bundle staged with POST /api/v2/hsm/bundle and switches Fudo Enterprise to HSM master-key mode.

Warning

Test the configuration with `test_only` set to `true` before committing it. A dry run is the only way to find a wrong token label or an unreachable module without changing the running system.

Example Request

Dry run:

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"module":"module.so","token_label":"soft-hsm","env":{"PKCS11_PROXY_SOCKET
  ↪":"tcp://10.0.100.37:2345"},"pin":"","test_only":true}' \
  'https://10.36.9.188/api/v2/hsm'
```

Response

```
{
  "enabled": false,
  "healthy": true,
  "error": null,
  "token_label": "soft-hsm",
  "token_manufacturer": "SoftHSM project",
  "token_model": "SoftHSM v2",
  "token_serial": "bf5f6cb03dd72192",
  "firmware_version": "2.7",
  "pin_locked": false,
  "pin_expired": false,
  "fingerprint":
  ↪"61cf4f0c9721171647bc56af0f85dd4c851542339c12e3bb765408c70164f0b1",
  "result": "success"
}
```

A dry run that cannot reach the token reports the reason and changes nothing:

```
{
  "enabled": false,
  "healthy": false,
  "error": "no token labelled 'does-not-exist'",
  "result": "success"
}
```

Example Request

Commit the configuration:

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{"module":"module.so","token_label":"soft-hsm","env":{"PKCS11_PROXY_SOCKET
  ↪":"tcp://10.0.100.37:2345"},"pin":"<token PIN>","test_only":false}' \
  'https://10.36.9.188/api/v2/hsm'
```

Response

```
{
  "enabled": true,
  "healthy": true,
  "error": null,
  "token_label": "soft-hsm",
  "token_manufacturer": "SoftHSM project",
  "token_model": "SoftHSM v2",
  "token_serial": "bf5f6cb03dd72192",
  "firmware_version": "2.7",
  "pin_locked": false,
  "pin_expired": false,
  "fingerprint": null,
  "result": "success"
}
```

Note

`fingerprint` is `null` in the enrollment response because the KEK is still being created. Read `GET /api/v2/hsm/status` afterwards to obtain it.

Sending `pin` as an empty string reuses the PIN already in effect, which is what you want when changing only the module path or the environment of a working configuration.

1.71.6 Get the Active Bundle

Request

Method	GET
Path	/api/v2/hsm/bundle/active

GET /api/v2/hsm/bundle/active

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.36.9.188/api/v2/hsm/bundle/active'
```

Response

```
{
  "modules": [
    "module.so"
  ],
  "filename": "libpkcs11-proxy.so",
  "uploaded_at": "2026-08-14T07:54:35.811133402+00:00",
  "result": "success"
}
```

1.71.7 Upload a PKCS#11 Bundle

Request

Method	POST
Path	/api/v2/hsm/bundle
Body	Raw file bytes

POST /api/v2/hsm/bundle

The bundle carries the vendor PKCS#11 library and whatever it needs alongside it. The file name is supplied in the **X-Fudo-Filename** header and the body is the raw file.

Warning

The upload only **stages** the bundle - GET /api/v2/hsm/bundle/active keeps reporting the previous one. The staged bundle becomes active when a configuration is committed with PATCH /api/v2/hsm and **test_only** set to false.

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'X-Fudo-Filename: libpkcs11-proxy.so' \
-H 'Content-Type: application/octet-stream' \
--data-binary '@libpkcs11-proxy.so' \
'https://10.36.9.188/api/v2/hsm/bundle'
```

Response

The response describes the staged bundle and, unlike other endpoints, carries no **result** field.

```
{
  "modules": [
    "module.so"
  ],
  "filename": "libpkcs11-proxy.so",
  "uploaded_at": "2026-08-18T15:55:14.422743725+00:00"
}
```

1.71.8 Rotate the Key Encryption Key

Request

Method	POST
Path	/api/v2/hsm/rotate-kek

POST /api/v2/hsm/rotate-kek

Generates a new KEK on the token and re-wraps the master key with it. The answer is an **HsmStatusModel** carrying the new fingerprint; **key_label** reported by GET /api/v2/hsm changes

as well.

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  'https://10.36.9.188/api/v2/hsm/rotate-kek'
```

Response

```
{
  "enabled": true,
  "healthy": true,
  "error": null,
  "token_label": "soft-hsm",
  "token_manufacturer": "SoftHSM project",
  "token_model": "SoftHSM v2",
  "token_serial": "bf5f6cb03dd72192",
  "firmware_version": "2.7",
  "pin_locked": false,
  "pin_expired": false,
  "fingerprint":
  ↪ "e774d21cb5d1c478cf4d2cce5d0f1bea1fe1e5e3dca1b9afd1726e2fd82c8611",
  "result": "success"
}
```

Note

In this example the fingerprint moved from 61cf4f0c9721171647bc56af0f85dd4c851542339c12e3bb765408c7 to the value above, and `key_label` moved from `fudo-kek-masterkey` to `fudo-kek-d2b0e2e7c8b0d11a`. On a cluster, read the status on every node afterwards and confirm the fingerprints match again.

1.71.9 Disable HSM Master-Key Mode

Request

Method	DELETE
Path	/api/v2/hsm

DELETE /api/v2/hsm

Switches Fudo Enterprise back to keeping the master key without the module and clears the stored configuration - `module`, `token_label`, `key_label` and `env` are all reset.

Warning

The PIN is cleared together with the rest of the configuration. Turning HSM mode back on is a full enrollment: it needs the token PIN again and it generates a **new** KEK, so the fingerprint after re-enrollment differs from the one before.

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
'https://10.36.9.188/api/v2/hsm'
```

Response

```
{
  "result": "success"
}
```

1.72 Network

Fudo Enterprise allows retrieving network settings within its API.

Note

Network settings are accessible for the users with **superadmin** privileges.

1.72.1 Data Structures

Table 197: NetworkModel

Attribute	Type	Description
hostname	string	System hostname
dns	address	DNS address(es)
search	string	Domain search path
management	address	Admin Panel's address
access_gateway	address	Access Gateway's address
labels	string	Global configuration parameters
interfaces	object-array	Network interfaces configuration containing: • name, • ether, • active, • use_dhcp, • routing_table, • inet
routing	object	Routing configuration containing: • tables_max_count (Max number of the routing tables is 8), • tables {table[id]} (ID of the routing table), • routes {network, gateway} (Network and gateway addresses)

1.73 Get Network Settings

Request

Method	GET
Path	/api/v2/network

GET /api/v2/network

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.74 Healthcheck

By using *healthcheck*, you can check the overall Fudo Enterprise health and verify its proper functioning. This method is accessible without authentication.

Note

- *Healthcheck* is disabled by default. Please go to *Settings > System*, and enable the *API health check* option on the *General* tab, under the *Maintenance and supervision* section.

1.74.1 Get Healthcheck Status

Request

Method	GET
Path	/api/v2/healthcheck

Example Request

GET /api/v2/healthcheck`

Response - positive

```
{
  "result": "success",
  "status": "ok"
}
```

Response - negative

```
{
  "result": "success",
  "status": "error"
}
```

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.75 Status

The *Status* method allows retrieving detailed information about the Fudo Enterprise status including:

- Cluster status.
- The temperature of CPU cores in degrees Celsius.
- Database server status.
- Disks status.
- Fudo unique identifier.
- System load.
- Device memory utilization.
- Power supply units status.
- Device serial number.
- Number and list of currently active sessions.
- Status of last system shutdown or reboot.
- SMART attributes of disks.
- Device storage utilization.
- Status of last attempted firmware upgrade.
- System uptime.
- Firmware version.

Note

- The *Status* method requires authentication.
- It is accessible for every user role.

1.75.1 Get Status Information

Request

Method	GET
Path	/api/v2/status

Example Request

GET /api/v2/status`

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.76 IPMI

Note

This feature is available only if the device's IPMI port is use.

1.76.1 Data Structures

Table 198: IPMIModel

Attribute	Type	Required	Description
host	string	yes	Format: IPv4 address (e.g. 192.168.0.1).
mask	number	yes	Value range: from 0 to 32."
gateway	string	yes	Format: IPv4 address (e.g. 192.168.0.1).

1.76.2 Retrieve Available Attributes of the *IPMIModel*

Request

Method	GET
Path	/api/v2/objspec/ipmi

GET /api/v2/objspec/ipmi

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/objspec/ipmi'
```

1.76.3 Get IPMI Configuration Setup

Request

Method	GET
Path	/api/v2/network/ipmi

GET /api/v2/network/ipmi

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/network/ipmi'
```

Response

```
{
  "ipmi": {
    "host": "192.168.1.100",
    "mask": 24,
    "gateway": "192.168.1.1"
  },
  "result": "success"
}
```

1.76.4 Get the Status of IPMI

Request

Method	GET
Path	/network/ipmi/enabled

GET /api/v2/network/ipmi/enabled

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/network/ipmi/enabled'
```

Response

```
{
  "ipmi_enabled": false,
  "result": "success"
}
```

1.76.5 Create IPMI Configuration

Request

Method	POST
Path	/api/v2/network/ipmi
Headers	Content-Type: Application/json
Body	IPMIModel

POST /api/v2/network/ipmi

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
'https://10.0.214.98/api/v2/network/ipmi' \
-d '{"host": "192.168.1.100", "mask": 24, "gateway": "192.168.1.1"}'
```

Response

```
{
  "ipmi": {
    "host": "192.168.1.100",
    "mask": 24,
    "gateway": "192.168.1.1"
  },
  "result": "success"
}
```

1.77 Disk Probe

Note

When the disk size changes in a virtual machine, the hypervisor typically notifies the guest system about this change, and the system automatically expands the data pool. However, some hypervisors don't provide this notification. The disk probe endpoint allows you to manually trigger a disk scan to detect such changes.

1.77.1 Trigger Disk Scan

Manually initiate a disk scan to detect changes in disk size that weren't automatically detected by the system.

Request

Method	POST
Path	/api/v2/disk-probe

POST /api/v2/disk-probe

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  'https://10.33.2.132/api/v2/disk-probe'
```

Success Response

```
{
  "result": "success"
}
```

1.78 Dashboard Storage

Note

Dashboard storage endpoints manage the user's dashboard configuration including widget layout, positioning, and settings. The dashboard is customizable per user and persists across sessions.

1.78.1 Data Structures

Widget Types

Available widget types:

- **CONCURRENT_SESSIONS** - Display current concurrent sessions count
- **ACTIVE_USERS** - Show number of active users
- **LICENSE** - License information display
- **NODE** - Node status and information
- **CONCURRENT_SESSIONS_CHART** - Chart showing concurrent sessions over time
- **LOGS** - Recent system logs display
- **SUSPICIOUS_SESSIONS** - ML-detected suspicious sessions counter
- **ACCOUNT_ALERTS** - Account-related alerts counter
- **SECRET_ALERTS** - Password Vault secret alerts counter

Table 199: WidgetModel

Attribute	Type	Required	Description
type	string	yes	Widget type from available types list.
x	number	yes	X position on dashboard grid.
y	number	yes	Y position on dashboard grid.
cols	number	yes	Width in grid columns.
rows	number	yes	Height in grid rows.
minItemCols	number		Minimum allowed width in columns.
minItemRows	number		Minimum allowed height in rows.
maxItemCols	number		Maximum allowed width in columns.
maxItemRows	number		Maximum allowed height in rows.
config	object	yes	Widget-specific configuration object.

Table 200: DashboardStorageModel

Attribute	Type	Required	Description
value	object	yes	Dashboard configuration containing widgets array.
widgets	array	yes	Array of WidgetModel objects defining dashboard layout.
availableTypes	array		Read-only. List of widget types available for this user.

1.78.2 Get Dashboard Configuration

Retrieve the current user's dashboard configuration.

Request

Method	GET
Path	/api/v2/dashboard-storage/dashboard

GET /api/v2/dashboard-storage/dashboard

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: <token>' \  
'https://10.33.2.132/api/v2/dashboard-storage/dashboard'
```

Response

```
{  
  "available_widgets": [  
    "CONCURRENT_SESSIONS",  
    "ACTIVE_USERS",  
    "LICENSE",  
    "NODE",  
    "CONCURRENT_SESSIONS_CHART",  
    "LOGS",  
    "SUSPICIOUS_SESSIONS",  
    "ACCOUNT_ALERTS",  
    "SECRET_ALERTS"  
  ],  
  "value": {  
    "widgets": [  
      {  
        "cols": 3,  
        "config": {  
          "fontSize": 48,  
          "link": "/sessions/",  
          "type": "CONCURRENT_SESSIONS"  
        },  
        "maxItemCols": 5,  
        "maxItemRows": 4,  
        "minItemCols": 2,  
        "minItemRows": 2,  
        "rows": 3,  
        "type": "CONCURRENT_SESSIONS",  
        "x": 0,  
        "y": 0  
      },  
      {  
        "cols": 3,  
        "config": {
```

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```

        "fontSize": 48,
        "type": "ACTIVE_USERS"
      },
      "maxItemCols": 5,
      "maxItemRows": 4,
      "minItemCols": 2,
      "minItemRows": 2,
      "rows": 3,
      "type": "ACTIVE_USERS",
      "x": 3,
      "y": 0
    }
  ]
},
"result": "success"
}

```

1.78.3 Get Widget Defaults

Retrieve default configurations for all available widget types.

Request

Method	GET
Path	/api/v2/dashboard-storage/widget-defaults

GET /api/v2/dashboard-storage/widget-defaults

Example Request

```

curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.132/api/v2/dashboard-storage/widget-defaults'

```

Response

```

{
  "defaults": [
    {
      "cols": 3,
      "config": {
        "fontSize": 48,
        "link": "/sessions/",
        "type": "CONCURRENT_SESSIONS"
      },
      "maxItemCols": 5,
      "maxItemRows": 4,
      "minItemCols": 2,
      "minItemRows": 2,
      "rows": 3,

```

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```

        "type": "CONCURRENT_SESSIONS"
    },
    {
        "cols": 3,
        "config": {
            "fontSize": 48,
            "type": "ACTIVE_USERS"
        },
        "maxItemCols": 5,
        "maxItemRows": 4,
        "minItemCols": 2,
        "minItemRows": 2,
        "rows": 3,
        "type": "ACTIVE_USERS"
    },
    {
        "cols": 15,
        "config": {
            "filter": "all",
            "filterName": "all",
            "length": 20,
            "link": "/logs/",
            "showLabel": true,
            "theme": "dark",
            "type": "LOGS"
        },
        "minItemCols": 3,
        "minItemRows": 6,
        "rows": 7,
        "type": "LOGS"
    }
],
"result": "success"
}

```

1.78.4 Update Dashboard Configuration

Modify the current user's dashboard layout and widget configuration.

Request

Method	PATCH
Path	/api/v2/dashboard-storage/dashboard
Headers	Content-Type: application/json
Body	DashboardStorageModel

PATCH /api/v2/dashboard-storage/dashboard

⚠ Warning

This endpoint replaces the entire dashboard configuration. Make sure to include all widgets you want to keep in the new configuration.

Example Request - Clear Dashboard

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "value": {
    "widgets": []
  }
}' \
'https://10.33.2.132/api/v2/dashboard-storage/dashboard'
```

Example Request - Custom Layout

```
curl -s -k -X PATCH \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "value": {
    "widgets": [
      {
        "type": "CONCURRENT_SESSIONS",
        "x": 0,
        "y": 0,
        "cols": 6,
        "rows": 4,
        "config": {
          "fontSize": 64,
          "link": "/sessions/",
          "type": "CONCURRENT_SESSIONS"
        }
      },
      {
        "type": "LOGS",
        "x": 6,
        "y": 0,
        "cols": 9,
        "rows": 8,
        "config": {
          "filter": "all",
          "length": 50,
          "showLabel": true,
          "theme": "light",
          "type": "LOGS"
        }
      }
    ]
  }
}' \
'https://10.33.2.132/api/v2/dashboard-storage/dashboard'
```

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```

    }
  ]
}
}' \
'https://10.33.2.132/api/v2/dashboard-storage/dashboard'

```

Success Response

```

{
  "available_widgets": [
    "CONCURRENT_SESSIONS",
    "ACTIVE_USERS",
    "LICENSE",
    "NODE",
    "CONCURRENT_SESSIONS_CHART",
    "LOGS",
    "SUSPICIOUS_SESSIONS",
    "ACCOUNT_ALERTS",
    "SECRET_ALERTS"
  ],
  "value": {
    "widgets": [
      {
        "type": "CONCURRENT_SESSIONS",
        "x": 0,
        "y": 0,
        "cols": 6,
        "rows": 4,
        "config": {
          "fontSize": 64,
          "link": "/sessions/",
          "type": "CONCURRENT_SESSIONS"
        }
      },
      {
        "type": "LOGS",
        "x": 6,
        "y": 0,
        "cols": 9,
        "rows": 8,
        "config": {
          "filter": "all",
          "length": 50,
          "showLabel": true,
          "theme": "light",
          "type": "LOGS"
        }
      }
    ]
  }
}

```

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```
},  
  "result": "success"  
}
```

1.79 Authentication Confirmation

1.79.1 Overview

Authentication confirmation endpoints provide mechanisms for confirming and invalidating user authentication methods in Fudo Enterprise. These endpoints support multiple authentication methods including password, challenge-response, and FIDO2.

1.79.2 Data Structures

Table 201: ConfirmModel

Attribute	Type	Required	Description
method	string {challenge, fido2, password}; Default value password	yes	Authentication method.
assertion	string	If method == fido2	FIDO2 assertion response (JSON).
password	string	If method == challenge password	User password or challenge response.
state	string	If method == challenge	State for consecutive authentication steps.

1.79.3 Retrieve Available Attributes of the *ConfirmModel*

Request

Method	GET
Path	/api/v2/objspec/confirm

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.79.4 Confirm Authentication Method

Request

Method	POST
Path	/api/v2/profile/authentication/confirm
Body	ConfirmModel

POST /api/v2/profile/authentication/confirm

Example Request - Password Method

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "password",
  "password": "user_password"
}' \
'https://10.33.2.133/api/v2/profile/authentication/confirm'
```

Example Request - Multi-Factor Authentication (Challenge Method)

Step 1: Initial authentication with password

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "password",
  "password": "user_password"
}' \
'https://10.33.2.133/api/v2/profile/authentication/confirm'
```

Challenge Response (when MFA is configured):

```
{
  "prompt": "One-time password (OATH): ",
  "userid": "5980780305148018689",
  "username": "admin",
  "user-domain": null,
  "methodid": "5980780305148018711",
  "result": "challenge",
  "state": "nIjT2r3nwg3fpPCs0ahFzwZNVrLYZq7HHG4G0bshukar"
}
```

Step 2: Complete authentication with OATH token

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "challenge",
  "password": "579657",
  "state": "nIjT2r3nwg3fpPCs0ahFzwZNVrLYZq7HHG4G0bshukar"
}' \
'https://10.33.2.133/api/v2/profile/authentication/confirm'
```

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```
}' \
'https://10.33.2.133/api/v2/profile/authentication/confirm'
```

1.79.5 Invalidate Authentication

Request

Method	POST
Path	/api/v2/profile/authentication/invalidate
Body	ConfirmModel

POST /api/v2/profile/authentication/invalidate

Example Request - With Authentication Method

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "password",
  "password": "user_password"
}' \
'https://10.33.2.133/api/v2/profile/authentication/invalidate'
```

Response

```
{
  "result": "success"
}
```

1.80 Profile Authentication Methods Management

1.80.1 Overview

Profile authentication methods endpoints allow users to manage their own authentication methods after successful reauthentication.

Note

These endpoints require an active API session and prior confirmation via the `/profile/authentication/confirm` endpoint which provides a temporary token.

1.80.2 Authentication Flow

1. **Reauthenticate** to obtain a confirmation token
2. **Use the token** in the `X-Auth-Confirm` header for all subsequent operations
3. **Token validity**: 10 minutes, extended with each use

1.80.3 Data Structures

Table 202: AuthenticationMethodModel

Attribute	Type	Required	Description
id	string		Read-only. Unique authentication method identifier.
type	string {password, oath, extauth, sshkey, certificate, duo, sms, apikey, fido2}	yes	Immutable. Authentication method type.
user_id	string		Read-only. Protected. Uniqueness is required in the combination with position.
description	string		Optional description of the authentication method.
position	number		Uniqueness is required in the combination with user_id.
external_sync	boolean		Read-only.
secret	string	If type == password sshkey	Protected. Authentication secret.
external_auth	string	If type == oath extauth	Read-only; expensive to use. Type of the external authentication backing this method, for example ad. The portal uses it to decide whether a password change is offered.
needs_change	boolean		Read-only.
apikey_device	string	If type == apikey	Read-only; expensive to use.
apikey_device	string	If type == apikey	Read-only; expensive to use.
apikey_device	string	If type == apikey	Read-only; expensive to use.
apikey_key	string	If type == apikey	Protected.
apikey_hint	string	If type == apikey	Read-only; expensive to use. First four and last four characters of the API key.
apikey_expires	datetime	If type == apikey	Expiration date and time for the API key. NULL means the key never expires.
certificate	string	If type == certificate	Read-only.

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Table 202 – continued from previous page

Attribute	Type	Required	Description
duo_user_id	string	If type == duo	Read-only.
duo_username	string	If type == duo	Read-only.
oath_type	string {HOTP, TOTP}	If type == oath	Immutable. OATH type.
oath_initializ	boolean	If type == oath	Default value true .
oath_secret	string		Protected. Value-regexp: <code>^[A-Z2-7]+\$</code>
oath_tokenlen	number	If type == oath	Immutable. Value-range: [4, 16].
oath_timestep	number {30, 45, 60, 90, 120, 180, 300}	If type == oath & oath_type == TOTP	Immutable.
oath_counter	number	If type == oath	Read-only. Default value 0.
oath_timeshift	number	If type == oath & oath_type == TOTP	Read-only. Default value 0.
oath_reuse	boolean	If type == oath & oath_type == TOTP	Default value false . Allow reuse of TOTP tokens.
oath_url	string	If type == oath	Read-only. Protected.
oath_qrcode	string	If type == oath	Read-only. Protected.
sms_token	string	If type == sms	Protected.
sshkey_user_pr	boolean	If type == sshkey	Default value true .
sshkey_verific	boolean	If type == sshkey	Default value false .
sshkey_counter	number	If type == sshkey	
sshkey_publick	string	If type == sshkey	Read-only; expensive to use. User's SSH public key.

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Table 202 – continued from previous page

Attribute	Type	Required	Description
<code>fido2_credenti</code>	string	If type == fido2	Read-only. Base64url-encoded FIDO2 credential ID.
<code>fido2_public_k</code>	string	If type == fido2	Read-only. Base64url-encoded COSE public key.
<code>fido2_counter</code>	number	If type == fido2	Read-only. Signature counter for clone detection.
<code>fido2_aaguid</code>	string	If type == fido2	Read-only. Authenticator Attestation GUID.
<code>fido2_transpor</code>	string	If type == fido2	Read-only. Supported transports: usb, nfc, ble, internal, hybrid, smart-card.
<code>created_at</code>	datetime		Read-only.
<code>modified_at</code>	datetime		Read-only.
<code>removed</code>	boolean		Read-only.

1.80.4 Retrieve Available Attributes of the *Authentication MethodModel*

Request

Method	GET
Path	/api/v2/objspec/authentication_method

To check allowed methods, available URL parameters and possible responses please refer to the [API Overview](#) section.

1.80.5 Step 1: Obtain Reauthentication Token

Before accessing authentication methods, you must reauthenticate and obtain a confirmation token.

Request

Method	POST
Path	/api/v2/profile/authentication/confirm
Body	ConfirmModel

Note

See section [Authentication Confirmation](#) for the list of available *ConfirmModel* attributes.

POST /api/v2/profile/authentication/confirm

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "password",
  "password": "your_password"
}' \
'https://10.33.2.133/api/v2/profile/authentication/confirm'
```

Response

```
{
  "userid": "5980780305148018689",
  "username": "admin",
  "user-domain": null,
  "methodid": "5980780305148018690",
  "user-privs": ["account-create", "account-read", ...],
  "result": "success",
  "token": "22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179"
}
```

Note

Save the **token** value for use in subsequent requests. The token is valid for 10 minutes and its validity is extended with each use.

1.80.6 Step 2: List User's Authentication Methods

Request

Method	GET
Path	/api/v2/profile/authentication

GET /api/v2/profile/authentication

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
-H 'X-Auth-Confirm: 
↪22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179' \
'https://10.33.2.133/api/v2/profile/authentication'
```

Response

```
{
  "result": "success",
  "authentication_method": [
    {
```

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```

        "id": "5980780305148018689",
        "type": "password",
        "position": 0,
        "external_sync": false,
        "needs_change": false,
        "created_at": "2026-06-03 12:11:03.338262-07",
        "modified_at": "2026-06-03 12:11:15.629025-07"
      },
      {
        "id": "5980780305148018691",
        "type": "apikey",
        "position": 2,
        "external_sync": false,
        "needs_change": false,
        "created_at": "2026-06-03 12:11:16.0128-07",
        "modified_at": "2026-06-03 12:11:16.0128-07"
      },
      {
        "id": "5980780305148018698",
        "type": "oath",
        "position": 3,
        "external_sync": false,
        "needs_change": false,
        "oath_type": "TOTP",
        "oath_initialized": true,
        "oath_tokenlen": 6,
        "oath_timestep": 30,
        "oath_counter": 0,
        "oath_timeshift": 0,
        "oath_reuse": true,
        "created_at": "2026-06-05 00:37:05.628794-07",
        "modified_at": "2026-06-05 00:37:05.629827-07"
      }
    ]
  }
}

```

1.80.7 Create Authentication Method

Request

Method	POST
Path	/api/v2/profile/authentication
Body	AuthenticationMethodModel

POST /api/v2/profile/authentication

Example Request - Create OATH/TOTP

```
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'X-Auth-Confirm: 22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179' \
  -H 'Content-Type: application/json' \
  -d '{
    "type": "oath",
    "description": "Test OATH TOTP",
    "oath_type": "TOTP",
    "oath_initialized": true,
    "oath_tokenlen": 6,
    "oath_timestep": 30,
    "oath_reuse": false,
    "secret": "JBSWY3DPEHPK3PXP"
  }' \
  'https://10.33.2.133/api/v2/profile/authentication'
```

Response

```
{
  "result": "success",
  "authentication_method": {
    "id": "5980780305148018705",
    "oath_url": "otppauth://totp/admin?secret=XWHOXB6YRLMBPMWM5MG4FUHIHVX3SYSI&issuer=Fudo%20Security",
    "oath_qrcode": "Qk1kbyUy..."
  }
}
```

Note

When creating an OATH method, the response includes `oath_url` for authenticator apps and `oath_qrcode` as a base64-encoded QR code image.

1.80.8 Get Authentication Method by ID

Request

Method	GET
Path	/api/v2/profile/authentication/<id>

GET /api/v2/profile/authentication/<id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  -H 'X-Auth-Confirm: 22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179'
```

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```
↪22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179' \
'https://10.33.2.133/api/v2/profile/authentication/5980780305148018705'
```

Response

```
{
  "result": "success",
  "authentication_method": {
    "id": "5980780305148018705",
    "type": "oath",
    "description": "Test OATH TOTP",
    "position": 4,
    "external_sync": false,
    "needs_change": false,
    "oath_type": "TOTP",
    "oath_initialized": true,
    "oath_tokenlen": 6,
    "oath_timestep": 30,
    "oath_counter": 0,
    "oath_timeshift": 0,
    "oath_reuse": false,
    "created_at": "2026-06-08 06:32:32.470217-07",
    "modified_at": "2026-06-08 06:32:32.470217-07"
  }
}
```

1.80.9 Update Authentication Method

Request

Method	PATCH
Path	/api/v2/profile/authentication/<id>
Body	AuthenticationMethodModel

PATCH /api/v2/profile/authentication/<id>

Example Request

```
curl -s -k -X PATCH \
  -H 'Authorization: <token>' \
  -H 'X-Auth-Confirm:␣
↪22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179' \
  -H 'Content-Type: application/json' \
  -d '{
    "description": "Updated OATH Description",
    "oath_reuse": true
  }' \
  'https://10.33.2.133/api/v2/profile/authentication/5980780305148018705'
```

Response

```
{
  "result": "success"
}
```

1.80.10 Delete Authentication Method

Request

Method	DELETE
Path	/api/v2/profile/authentication/<id>

DELETE /api/v2/profile/authentication/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: <token>' \
-H 'X-Auth-Confirm: 22d05aff6c39f9de8bdba340c31873edaaa6390dcff30137e91bbe0f23161179' \
'https://10.33.2.133/api/v2/profile/authentication/5980780305148018705'
```

Response

```
{
  "result": "success"
}
```

1.80.11 Invalidate Reauthentication Token

Request

Method	POST
Path	/api/v2/profile/authentication/invalidate
Body	ConfirmModel

POST /api/v2/profile/authentication/invalidate

Example Request

```
curl -s -k -X POST \
-H 'Authorization: <token>' \
-H 'Content-Type: application/json' \
-d '{
  "method": "password",
  "password": "user_password"
}' \
'https://10.33.2.133/api/v2/profile/authentication/invalidate'
```

Response

```
{
  "result": "success"
}
```

1.81 UAG - Current User Identity

1.81.1 Data Structures

Table 203: *UserIdentityModel*

Attribute	Type	Required	Description
username	string	yes	Read-only. Logged user name.
user_id	string	yes	Read-only. Logged user ID.
domain	string		Read-only. Logged user domain.
language	string	yes	Read-only. Logged user language setting.
help_url	string	yes	Read-only. URL to the online help.
license_tier	string	yes	Read-only. Configured license tier. One of: basic , full .
license_vault_cli	boolean	yes	Read-only. The user can perform password vault checkout. User has an active Vault module, or there are available license slots.
module_psm_enabled	boolean	yes	Read-only. Whether the PSM (Resources) module is enabled for the logged user.
module_vault_enabled	boolean	yes	Read-only. Whether the Password Vault module is enabled for the logged user.
authentication_methods	object	yes	Read-only. Enabled or disabled state of each authentication method available for Access Gateway login: password , oath , sshkey , fido2 .
fido2_configured	boolean	yes	Read-only. Whether a FIDO2 relying party ID is configured for the Access Gateway, making FIDO2 login usable.

1.81.2 Retrieve Available Attributes of the *UserIdentityModel*

Request

Method	GET
Path	/api/v2/objspec/me

GET /api/v2/objspec/me

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/me'
```

1.81.3 Get Current User Identity

Request

Method	GET
Path	/api/v2/me

GET /api/v2/me

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/me'
```

Response

```
{
  "result": "success",
  "me": {
    "username": "admin",
    "user_id": "3260606130216239001",
    "domain": null,
    "language": "en",
    "help_url": "https://docs.fudosecurity.com/6.1/",
    "license_tier": "full",
    "license_vault_checkout_available": true
  }
}
```

1.82 UAG - Accounts List

1.82.1 Get Account List

Request

Method	GET
Path	/api/v2/account

GET /api/v2/account

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/account
```


Response

```
{
  "items": [
    {
      "id": "8169529724050079749",
      "name": "remoteapp-account",
      "type": "regular",
      "require_login": false,
      "blocked": false,
      "blocked_reason": null,
      "login_reason": false,
      "password_visible": false,
      "has_password_history": true,
      "has_remote_apps": true,
      "server": {
        "id": "8169529724050079749",
        "name": "remoteapp",
        "description": null,
        "address": "10.0.234.30",
        "port": 3389,
        "port_first": 3389,
        "port_last": 3389,
        "mask": 32,
        "dynamic": false
      },
      "pool": null,
      "listeners_info": {
        "external": false,
        "local": true,
        "otp_enabled": true,
        "play_enabled": false,
        "multiple_addresses": true,
        "webclient": {
          "safe_id": "8169529724050079745",
          "secproto": "tls"
        }
      },
      "session_id": null,
      "protocol": "rdp",
      "note_access_level": "none",
      "session_status": null,
      "session_reason": null,
      "timeout": null,
      "access_request": {
        "jit": "disabled",
        "connection_available": false
      },
      "otp_in_access_gateway": true,
      "rdp_remote_apps_only": false,
      "rdp_resolution": null
    }
  ]
}
```

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```

    },
  ],
  "result": "success"
}

```

Note

- The `"password_visible": true` indicates that the **Reveal Password** option is enabled for the user and safe.
- The account ID is obtained: `"id": "8169529724050079749"`. This ID will be used for the checkout and checkin requests.
- When the checkout session is active then its ID is shown in the `session_id`. When checkout session for account and user is not active then `session_id` field is `null`.
- The `note_access_level` attribute indicates the user's access to account-related notes. This value is defined by the `note_access` setting on the associated Safe. For full details, refer to the section [Safes](#).
- The `access_request.jit` attribute indicates whether an access request is required for this account right now. It replaces the former `access_request.enabled` boolean and takes one of the following values:
 - `disabled` - the safe does not use Just-in-Time access; connect directly.
 - `required` - an approved access request is needed before connecting.
 - `permitted_not_required` - the safe uses time-based Just-in-Time access and the current time falls inside the daily access policy window, so the user may connect directly, while access requests and their history remain available.

The value of `permitted_not_required` changes over time as the daily access policy window opens and closes. For details on the safe-side configuration, refer to the `jit_mode` attribute in the [Safes](#) section.

1.83 UAG - Account Safe Listener

1.83.1 Data Structures

Table 205: AccountSafeListenerModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Unique object identifier. Protected.
<code>access_denied</code>	object		Read-only. Expensive to use. Object of reasons why access to the object is denied for the API subject.

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Table 205 – continued from previous page

Attribute	Type	Required	Description
account_id	string	yes	Read-only. Uniqueness is required in the combination of attribute account_id with attributes safe_id and listener_id.
safe_id	string	yes	Read-only. Uniqueness is required in the combination of attribute safe_id with attributes account_id and listener_id.
safe_name	string		Read-only.
listener_id	string		Read-only. Uniqueness is required in the combination of attribute listener_id with attributes account_id and safe_id.
listener_name	string		Read-only.
mode	string		Read-only. Mode of operation. One of: proxy, bastion, tunnel.
protocol	string		Read-only. Protocol used. One of: http, modbus, mysql, oracle, pgsql, tcp, tds, telnet, tn3270, tn5250, rdp, ssh, vnc.
external_address	string	If external_ is set	Read-only. Listener address to present in Access Gateway. Requires external_port.
external_port	number {from 1 to 65535}	If external_ is set	Read-only. Listener port to present in Access Gateway. Requires external_address.
otp_enabled	boolean		Read-only. Expensive to use. Does protocol support OTP authentication?
play_enabled	boolean		Read-only. Expensive to use. Does protocol allow click to play but additional authentication is required?
addresses	string[]		Read-only. Expensive to use. List of listener addresses.
listen_port	number {from 1 to 65535}		Read-only. Listener port.
tls_enabled	boolean		Read-only. TLS enabled.
ssh_public_key_1	string		Read-only. Expensive to use.
ssh_public_key_1	string	If protocol == ssh	Read-only. Expensive to use. SSH public key MD5 fingerprint.
ssh_public_key_1	string	If protocol == ssh	Read-only. Expensive to use. SSH public key SHA1 fingerprint.

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Table 205 – continued from previous page

Attribute	Type	Required	Description
tls_certificate	string	If protocol == http rdp & tls_enabl == true	Read-only. Expensive to use. TLS certificate MD5 fingerprint.
tls_certificate	string	If protocol == http rdp & tls_enabl == true	Read-only. Expensive to use. TLS certificate SHA1 fingerprint.
rdp_public_key	string	If protocol == rdp & tls_enabl == false	Read-only. Expensive to use. RDP public key MD5 fingerprint.
rdp_public_key	string	If protocol == rdp & tls_enabl == false	Read-only. Expensive to use. RDP public key SHA1 fingerprint.

1.83.2 Retrieve Available Attributes of the *AccountSafeListenerModel*

Request

Method	GET
Path	/api/v2/objspec/account_safe_listener

GET /api/v2/objspec/account_safe_listener

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/account_safe_listener'
```

1.83.3 Get User Access Gateway / Safe / Listener Assignment

Request

Method	GET
Path	/api/v2/account_safe_listener

GET /api/v2/account_safe_listener

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/account_safe_listener
```

Response

```
{
  "result": "success",
  "account_safe_listener": [
    {
      "account_id": "8169529724050079750",
      "safe_id": "8169529724050079749",
      "safe_name": "Safe_2345",
      "listener_id": "8169529724050079746",
      "listener_name": "RDP:bastion",
      "mode": "bastion",
      "protocol": "rdp",
      "otp_enabled": true,
      "play_enabled": false,
      "addresses": [
        "10.31.116.195",
        "10.31.116.197",
        "10.31.116.196"
      ],
      "listen_port": 3389,
      "tls_enabled": true,
      "tls_certificate_fingerprint_md5":
        ↪ "MD5:2f:6f:4c:3e:dd:bb:ba:06:83:92:2e:89:f5:98:39:2f",
      "tls_certificate_fingerprint_sha1":
        ↪ "SHA1:2f:aa:62:aa:dd:2f:c8:10:7b:2f:4b:39:dd:43:4f:1a:8b:5a:dd:18"
    }
  ]
}
```

1.84 UAG - Account Access Request

Note

Access requests enable temporary, on-demand access to protected accounts or secrets. This mechanism is typically used in Just-in-Time (JIT) scenarios, where access must be explicitly approved before a connection can be established. Additionally, users with the *View on request* permission for a collection can request access to secrets within that collection.

The access approval process for accounts is configured per Safe. To enable voting for access requests, set the **required_votes** parameter when creating or updating a Safe.

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://<host>/api/v2/safe/<safe_id> \
-d '{"required_votes": 1}'
```

For details, refer to the *Safe configuration* section.

1.84.1 Data Structures

Table 206: AccessRequestModel

Attribute	Type	Required	Description
id	string		Read-only. Unique object identifier.
user_id	string	yes	Immutable. Requesting user.
status	string	yes	Read-only. Current request status. Expensive to use. One of: <code>expired</code> , <code>granted</code> , <code>pending</code> , <code>rejected</code> , <code>revoked</code> .
operation	string	yes	Immutable. Operation type. One of: <code>account_access</code> , <code>account_share</code> , <code>secret_view</code> , <code>secret_share</code> .
type	string	yes	Immutable. Access type. One of: <code>immediate</code> , <code>scheduled</code> , <code>preview</code> .
immediate_interval	number {from 1 to 24}	If type == <code>immediate</code>	Read-only. Expensive to use. Requested duration in hours from the first session for immediate access.
starts_at	datetime	If type == <code>scheduled</code>	Scheduled start time.
expires_at	datetime	If type == <code>scheduled</code>	Scheduled expiration time.
reason	string	yes	The user's reason why access is being requested.
account_id	string		Read-only. Account identifier.
account_name	string		Read-only. Expensive to use. Account name.
secret_id	string		Read-only. Secret identifier.
collection_id	string		Read-only. Expensive to use. Collection identifier.
secret_name	string		Read-only. Expensive to use. Secret name.
votes	object-array		Read-only. Expensive to use. Vote history.
required_votes	number	yes	Read-only. Minimum number of votes required to grant access to the account.
collected_votes	number		Read-only. Expensive to use. Number of collected votes.
archival	boolean	yes	Read-only. Expensive to use. Is the request archival (i.e. <code>expired</code> , <code>rejected</code> or <code>revoked</code>)?

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Table 206 – continued from previous page

Attribute	Type	Required	Description
active	boolean	yes	Read-only. Expensive to use. True when the access request is granted and within its validity period (<code>starts_at</code> <= now < <code>expires_at</code>). Indicates that the user can perform the associated operation.
revoke_reason	string		Read-only. The reason why the access request was revoked.
created_at	datetime		Read-only. Creation timestamp.
modified_at	datetime		Read-only. Modification timestamp.
removed	boolean		Read-only.

Table 207: AccessRequestPostModel

Attribute	Type	Required	Description
id	string		Read-only. Unique object identifier.
operation	string	yes	Immutable. Operation type. One of: <code>account_access</code> , <code>secret_view</code> , <code>secret_share</code> .
type	string	yes	Immutable. Access type. One of: <code>immediate</code> , <code>scheduled</code> .
immediate	number {from 1 to 24}	If type == <code>immediate</code>	Requested duration in hours.
start	datetime	If type == <code>scheduled</code>	Scheduled start time.
expires	datetime	If type == <code>scheduled</code>	Scheduled expiration time.
reason	string		The user's reason why access is being requested. Mutually exclusive with <code>reason_format_id</code> .
reason_format_id	string		Identifier of the reason format used to compose the reason. Mutually exclusive with <code>reason</code> . Requires <code>operation == account_access</code> .
reason_fields	object-array	If <code>reason_format_id</code> is set	Values for the fields of the chosen reason format, as { <code>field_id</code> , <code>value</code> } objects.
account_id	string	If <code>operation == account_access</code>	Account identifier for account access requests.
safe_id	string	If <code>operation == account_access</code>	Safe identifier for account access requests.
secret_id	string	If <code>operation == secret_view</code> <code>secret_share</code>	Secret identifier for secret operations.

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Table 207 – continued from previous page

Attribute	Type	Required	Description
request_user	string	If operation == secret_share	User login for secret share requests.

Table 208: AccessRequestRevokeModel

Attribute	Type	Required	Description
id	string	yes	The access request id.
reason	string	yes	The user's reason why access is being revoked.

1.84.2 Retrieve Available Attributes of the *AccessRequestModel*

Request

Method	GET
Path	/api/v2/objspec/access_request

1.84.3 Retrieve Available Attributes of the *AccessRequestPostModel*

Request

Method	GET
Path	/api/v2/objspec/access_request_post

1.84.4 Retrieve Available Attributes of the *AccessRequestRevokeModel*

Request

Method	GET
Path	/api/v2/objspec/access_request_revoke

1.84.5 Get Access Requests

Request

Method	GET
Path	/api/v2/access_request

GET /api/v2/access_request

Example Request


```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/access_request
```

Response

```
{
  "result": "success",
  "access_request": [
    {
      "id": "3260606130216239105",
      "user_id": "3260606130216239105",
      "status": "pending",
      "operation": "account_access",
      "type": "immediate",
      "immediate_interval": 2,
      "expires_at": "2026-04-23 05:35:11.209911-07",
      "reason": "Maintenance.",
      "account_id": "3260606130216239107",
      "account_name": "ad-user1-windows",
      "votes": [],
      "required_votes": 1,
      "collected_votes": 0,
      "archival": false,
      "active": false,
      "created_at": "2026-04-22 05:35:11.212162-07",
      "modified_at": "2026-04-22 05:35:11.217997-07"
    },
    {
      "id": "3260606130216239106",
      "user_id": "3260606130216239105",
      "status": "pending",
      "operation": "secret_view",
      "type": "immediate",
      "immediate_interval": 2,
      "expires_at": "2026-04-23 05:36:01.215024-07",
      "reason": "Maintenance.",
      "secret_id": "3260606130216239105",
      "collection_id": "3260606130216239105",
      "secret_name": "secret for: root-fudo-PV",
      "votes": [],
      "required_votes": 1,
      "collected_votes": 0,
      "archival": false,
      "active": false,
      "created_at": "2026-04-22 05:36:01.217266-07",
      "modified_at": "2026-04-22 05:36:01.217266-07"
    }
  ]
}
```

1.84.6 Create Access Request

Request

Method	POST
Path	/api/v2/access_request
Headers	Content-Type: application/json
Body	AccessRequestPostModel

POST /api/v2/access_request

Example Request (Account Access - Immediate)

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.137.67/api/v2/access_request \
-d '{
    "operation": "account_access",
    "account_id": "3260606130216239107",
    "safe_id": "3260606130216239105",
    "type": "immediate",
    "immediate_interval": 2,
    "reason": "Maintenance."
}'
```

Example Request (Account Access - Scheduled)

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.137.67/api/v2/access_request \
-d '{
    "operation": "account_access",
    "account_id": "3260606130216239107",
    "safe_id": "3260606130216239105",
    "type": "scheduled",
    "reason": "Maintenance session",
    "starts_at": "2026-04-23T07:30:00-07:00",
    "expires_at": "2026-05-21T15:00:00-07:00"
}'
```

Example Request (Secret View - Immediate)

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.137.67/api/v2/access_request \
-d '{
    "operation": "secret_view",
    "secret_id": "3260606130216239105",
```

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```
"type": "immediate",
"immediate_interval": 2,
"reason": "Maintenance."
}'
```

Response

```
{
  "id": "3260606130216239112",
  "result": "success"
}
```

1.84.7 Revoke Access Request

Note

Only secret sharing access requests can be revoked from User Access Gateway.

Request

Method	POST
Path	/api/v2/access_request/<id>/revoke
Headers	Content-Type: application/json
Body	AccessRequestRevokeModel

POST /api/v2/access_request/<id>/revoke

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.137.67/api/v2/access_request/8169529724050079762/revoke \
-d '{
  "revoke_reason": "No longer needed"
}'
```

Response

```
{
  "result": "success"
}
```

1.85 UAG - Access Request Reason Formats NEW

A reason format defines the fields a user has to fill in when requesting access to an account. The endpoint returns every reason format defined by the administrator together with its fields, so that the User Access Gateway can render the request form.

Note

This endpoint does not have an object specification (**objspec**) - it returns a static structure described in the tables below.

1.85.1 Data Structures

Table 209: ReasonFormatModel

Attribute	Type	Required	Description
id	string		Read-only. Reason format ID.
name	string		Read-only. Name of the reason format.
description	string		Read-only. Description of the reason format; null when not set.
fields	See the ReasonFormatFieldM table		Read-only. Fields of the reason format; an empty array when the format has no fields.

Table 210: ReasonFormatFieldModel

Attribute	Type	Required	Description
id	string		Read-only. Reason format field ID.
name	string		Read-only. Name of the field. Unique within the reason format.
type	string {text, number, constant}		Read-only. Type of the field. text and number are filled in by the user; constant carries a fixed value defined by the administrator.
value	string		Read-only. Fixed constant value; null for the text and number types.

1.85.2 Get Access Request Reason Formats

Request

Method	GET
Path	/api/v2/access_request_reason_format

GET /api/v2/access_request_reason_format

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.33.3.192/api/v2/access_request_reason_format'
```

Response

```
{
  "reason_formats": [
    {
      "id": "4638707616191610881",
      "name": "Incident handling",
      "description": "Reason format used for incident related requests.",
      "fields": [
        {
          "id": "4638707616191610881",
          "name": "Ticket number",
          "type": "text",
          "value": null
        },
        {
          "id": "4638707616191610882",
          "name": "Priority",
          "type": "number",
          "value": null
        },
        {
          "id": "4638707616191610883",
          "name": "Source system",
          "type": "constant",
          "value": "Service Desk"
        }
      ]
    }
  ],
  "result": "success"
}
```

1.86 UAG - Session Timeout Check

1.86.1 Get Session Timeout

Request

Method	GET
Path	/api/v2/session/timeout

GET /api/v2/session/timeout

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  https://10.0.0.1/api/v2/session/timeout
```

Response

```
{
  "timeout_uag": 15,
  "result": "success"
}
```

1.87 UAG - Live Sessions NEW

Running sessions of the signed-in user. The endpoints return only sessions that belong to the API subject and have not finished yet, together with the information the User Access Gateway needs to present them: the address the session was established on, the supervision requirements and whether the session may be shared with a share link.

1.87.1 Data Structures

Table 211: SessionLiveModel

Attribute	Type	Required	Description
id	string		Read-only. Unique. Session ID.
account_id	string		Read-only. ID of the account used for the connection.
webclient	boolean		Read-only. Whether the session runs through the web client.
listen_address	string		Read-only. Listener bind address; null for web-client sessions.
listen_port	number		Read-only. Listener bind port; null for web-client sessions.
status	string {approved, disconnected, expired, rejected, terminated, waiting, waiting_supervision}		Read-only. Status of the session.
allow_user_share	boolean		Read-only. Whether the Safe of the session allows the user to share the session with a share link. See the section UAG - Session Sharing NEW .
min_supervisors	number		Read-only. Number of supervisors required to keep the session running.
created_at	datetime		Read-only. Timestamp of creation.

1.87.2 Retrieve Available Attributes of the *SessionLiveModel*

Request

Method	GET
Path	/api/v2/objspec/session_live

GET /api/v2/objspec/session_live

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/objspec/session_live'
```

1.87.3 Get Live Sessions

Request

Method	GET
Path	/api/v2/session/live

GET /api/v2/session/live

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/session/live'
```

Response

```
{
  "result": "success",
  "session_live": [
    {
      "id": "4638707616191610882",
      "account_id": "4638707616191610884",
      "webclient": true,
      "status": "approved",
      "allow_user_sharing": true,
      "created_at": "2026-08-17 07:10:08.939173-07"
    },
    {
      "id": "4638707616191610891",
      "account_id": "4638707616191610884",
      "webclient": true,
      "status": "approved",
      "allow_user_sharing": true,
      "created_at": "2026-08-17 07:29:07.345671-07"
    }
  ]
}
```

1.87.4 Get a Single Live Session

Request

Method	GET
Path	/api/v2/session/<id>/live

GET /api/v2/session/<id>/live

The response is an array, as for the whole listing. It is empty when the session does not exist, does not belong to the API subject or has already finished.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/session/4638707616191610882/live'
```

Response

```
{
  "result": "success",
  "session_live": [
    {
      "id": "4638707616191610882",
      "account_id": "4638707616191610884",
      "webclient": true,
      "status": "approved",
      "allow_user_sharing": true,
      "created_at": "2026-08-17 07:10:08.939173-07"
    }
  ]
}
```

1.88 UAG - Session Resolution NEW

The session player opened in the User Access Gateway does not know the ID of the session it has to play. Two endpoints resolve it:

- POST /api/v2/session/resolve - resolves the session the user has just connected to with a one-time password minted for the web client,
- GET /api/v2/session_share/resolve - resolves the session a share link points to and returns the playback context of that share.

1.88.1 Data Structures

Table 212: SessionResolveModel

Attribute	Type	Required	Description
otp_id	string	yes	ID of the OTP (from POST /api/v2/secret/otp) whose live session to resolve. See the section <i>UAG - OTP Generation</i> .

Table 213: SessionShareResolveModel

Attribute	Type	Required	Description
session_id	string		Read-only. ID of the shared session.
protocol	string {checkout, http, modbus, mysql, pgsql, rdp, ssh, tcp, tds, telnet, tn3270, tn5250, vnc}		Read-only. Protocol used for connection.
live	boolean		Read-only. true - the session is still running; false - the session has finished.
started_at	datetime		Read-only. Datetime of the session's start.
finished_at	datetime		Read-only. Datetime of the session's end; null for a running session.
status	string {approved, disconnected, expired, rejected, terminated, waiting, waiting_supervision}		Read-only. Status of the session.
readonly	boolean		Read-only. Whether the share allows the recipient to interact with the session.
authenticated	boolean		Read-only. Whether the share requires the recipient to be signed in.
language	string		Read-only. Interface language of the API subject.
vhost	string {mgmt, uag}		Read-only. Address the share was resolved on.
width	string		Read-only. Width of the recorded image; null for text protocols.
height	string		Read-only. Height of the recorded image; null for text protocols.

1.88.2 Retrieve Available Attributes of the *SessionResolveModel*

Request

Method	GET
Path	/api/v2/objspec/session_resolve

GET /api/v2/objspec/session_resolve

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/objspec/session_resolve'
```

1.88.3 Resolve the Session of a One-Time Password

Request

Method	POST
Path	/api/v2/session/resolve
Headers	Content-Type: application/json
Body	SessionResolveModel

POST /api/v2/session/resolve

The one-time password must have been used already and the resolved session must belong to the API subject and still be running. The session row is created when the connection is established, so the web client repeats the request until the session becomes available.

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.33.3.192/api/v2/session/resolve \
-d '{"otp_id": "13"}'
```

Response

```
{
  "id": "4638707616191610891",
  "result": "success"
}
```

1.88.4 Resolve the Session of a Share Link

Request

Method	GET
Path	/api/v2/session_share/resolve
Headers	Session-Share-Key: <key>

GET /api/v2/session_share/resolve

The share key is passed in the **Session-Share-Key** header and it is the only authorization of this endpoint. The same endpoint is available in the management API; the **vhost** attribute reports which address the share was resolved on.

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Session-Share-Key: ↵
↵rmNTote8QCxcK5rPRewpomwz19GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7' \
'https://10.33.3.192/api/v2/session_share/resolve'
```

Response

```
{
  "session_id": "4638707616191610882",
  "protocol": "ssh",
  "live": true,
  "started_at": "2026-08-17T14:10:08.938499Z",
  "finished_at": null,
  "status": "approved",
  "readonly": false,
  "authenticated": true,
  "language": "en",
  "vhost": "uag",
  "width": null,
  "height": null,
  "result": "success"
}
```

1.89 UAG - Shared Session Details NEW

Details of a session opened with a share link. The endpoint returns the reduced set of session attributes the player needs to play the recording - the attributes that identify the user, the account, the server or the Safe of the session are not exposed to the recipient of the link.

Note

The share key is passed in the **Session-Share-Key** header and it is the only authorization of this endpoint. The key must resolve to the session given in the path.

This endpoint has no object specification (**objspec**). The full session object of the management API is described in the section [Sessions](#).

1.89.1 Data Structures

Table 214: SharedSessionModel

Attribute	Type	Required	Description
id	string		Read-only. Session ID.
started_at	datetime		Read-only. Datetime of the session's start.
finished_at	datetime		Read-only. Datetime of the session's end; null for a running session.
retention_locker	boolean		Read-only. Indicates whether the session is protected against automatic deletion.
protocol	string {checkout, http, modbus, mysql, postgres, rdp, ssh, tcp, tds, telnet, tn3270, tn5250, vnc}		Read-only. Protocol used for connection.

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Table 214 – continued from previous page

Attribute	Type	Required	Description
subprotocol	string {check-out, http, http_rendered, modbus, mysql, pgsql, rdp, scp, sftp, ssh, ssh_command, tcp, tds, telnet, tn3270, tn5250, vnc, x11}		Read-only. Session subprotocol.
size	number		Read-only. Size of the recording in bytes.
bits_per_pixel	string		Read-only. Resolution options.
height	string		Read-only. Resolution options.
width	string		Read-only. Resolution options.
duration	number		Read-only. Session duration in seconds.
time_limit	number		Read-only. Time in seconds remaining until the session is terminated. Value is available only when terminate_at is defined. Value 0 means the session is finished or terminated.
created_at	datetime		Read-only. Timestamp of creation.
terminate_at	datetime		Read-only. Datetime of the session's termination.
websocket_url	string		Read-only. A part of the URL to the websocket that serves the data of this session.
type	string		Read-only. Session's type.
paused	boolean		Read-only. Indicates whether the session is paused.
local	boolean		Read-only. Indicates that the session is running or has a replica on the current cluster node.
timestamp_status	string {none, pending, completed}		Read-only. Status of the timestamping process.

1.89.2 Get Details of a Shared Session

Request

Method	GET
Path	/api/v2/session/<id>
Headers	Session-Share-Key: <key>

GET /api/v2/session/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Session-Share-Key:
rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7' \
'https://10.33.3.192/api/v2/session/4638707616191610882'
```

Response

```
{
  "session": {
    "id": "4638707616191610882",
    "started_at": "2026-08-17T14:10:08.938499Z",
    "finished_at": null,
    "retention_locked": false,
    "protocol": "ssh",
    "subprotocol": "ssh",
    "size": 19456,
    "bits_per_pixel": null,
    "height": null,
    "width": null,
    "duration": null,
    "time_limit": null,
    "created_at": "2026-08-17T14:10:08.939173Z",
    "terminate_at": null,
    "websocket_url": "\/websocket\/4638707616191610882\/",
    "type": "session",
    "paused": false,
    "local": true,
    "timestamp_status": "none"
  },
  "result": "success"
}
```

1.90 UAG - Session Sharing NEW

A user may share their own running session with another user by creating a share link in the session player. The endpoints below list, create and revoke the share links the signed-in user created in the User Access Gateway.

Sharing is available only when it is enabled on the Safe of the session - the `allow_user_sharing` attribute described in the section *UAG - Live Sessions NEW*.

Share links created in the User Access Gateway always use the same settings:

- the recipient may interact with the session (`readonly` is `false`),
- the recipient must be signed in and their identity is recorded in the access history (`authenticated` is `true`),
- the link is valid until the session ends (`valid_to` is `null`).

Shares created by an administrator in the management API are neither listed nor revocable here - see the section *Sharing Sessions*.

1.90.1 Data Structures

Table 215: SessionShareModel

Attribute	Type	Required	Description
id	string		Read-only. Unique. Share ID.
session_id	string		Read-only. ID of the shared session.
created_by	string		Read-only. ID of the user who created the share.
key	string		Read-only. Share key - 64 alphanumeric characters.
link	string		Read-only. Expensive to use. Relative share link without host prefix.
readonly	boolean		Read-only. true - the recipient can only watch the session; false - the recipient can also interact with it.
authenticated	boolean		Read-only. true - the recipient must be signed in and their identity is recorded in the access history; false - anonymous access with the key only.
valid_since	datetime		Read-only. Start date and time of the share validity period.
valid_to	datetime		Read-only. End date and time of the share validity period; null - the share is valid until the session ends.
created_at	datetime		Read-only. Timestamp of creation.

1.90.2 Retrieve Available Attributes of the *SessionShareModel*

Request

Method	GET
Path	/api/v2/objspec/session_share

GET /api/v2/objspec/session_share

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/objspec/session_share'
```

1.90.3 Get Session Share Links

Request

Method	GET
Path	/api/v2/session/<session_id>/share

GET /api/v2/session/<session_id>/share

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/session/4638707616191610882/share'
```

Response

```
{
  "result": "success",
  "session_share": [
    {
      "id": "4638707616191610881",
      "session_id": "4638707616191610882",
      "created_by": "4638707616191610882",
      "key":
↪ "rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7",
      "link": "\/play\/4638707616191610882
↪ #key=rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7",
      "readonly": false,
      "authenticated": true,
      "valid_since": "2026-08-17 07:27:02.046789-07",
      "created_at": "2026-08-17 07:27:02.051077-07"
    }
  ]
}
```

1.90.4 Share a Session

Request

Method	POST
Path	/api/v2/session/<session_id>/share

POST /api/v2/session/<session_id>/share

The request has no body - the share settings are fixed, as described above. The session must belong to the API subject, must still be running and its Safe must allow user sharing.

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/session/4638707616191610882/share'
```

Response

```
{
  "id": "4638707616191610881",
  "key": "rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7",
  "link": "\/play\/4638707616191610882
```

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```

↪ #key=rmNTote8QCxcK5rPrewpomwz19GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7",
  "result": "success"
}

```

Note

The `link` attribute returns a path without the host prefix. Prepend the User Access Gateway address to obtain the link the recipient opens.

1.90.5 Revoke a Session Share Link

Request

Method	DELETE
Path	/api/v2/session/<session_id>/share/<share_id>

DELETE /api/v2/session/<session_id>/share/<share_id>

Revoking a share link also closes the connections that are still watching the session through it. The access history of the share is kept - see the section *UAG - Session Share Access NEW*.

Example Request

```

curl -s -k -X DELETE \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.33.3.192/api/v2/session/4638707616191610882/share/
↪ 4638707616191610881'

```

Response

```

{
  "result": "success"
}

```

1.91 UAG - Session Share Access NEW

Viewers that are currently connected to a session of the signed-in user through a share link. The listing lets the owner of the session see who is watching it and whether the viewer has already interacted with it.

Only open connections to sessions of the API subject are returned. Entries of viewers who have already disconnected are kept in the management API - see the section *Session Access History NEW*.

1.91.1 Data Structures

Table 216: SessionShareAccessModel

Attribute	Type	Required	Description
id	string		Read-only. Unique. Access entry ID.
session_id	string		Read-only. ID of the session that was accessed.
session_share_id	string		Read-only. ID of the share link used to access the session.
user_id	string		Read-only. ID of the viewer; null for anonymous viewers.
user_name	string		Read-only. Name of the viewer; null for anonymous viewers.
started_at	datetime		Read-only. When the viewer started watching the session.
joined_at	datetime		Read-only. When the viewer first interacted with the session; null for view-only access.

1.91.2 Retrieve Available Attributes of the *SessionShareAccessModel*

Request

Method	GET
Path	/api/v2/objspec/session_share_access

GET /api/v2/objspec/session_share_access

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/objspec/session_share_access'
```

1.91.3 Get Viewers Connected to a Session

Request

Method	GET
Path	/api/v2/session/<session_id>/access

GET /api/v2/session/<session_id>/access

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/session/4638707616191610882/access'
```

Response

```
{
  "result": "success",
  "session_share_access": [
    {
      "id": "4638707616191610881",
      "session_id": "4638707616191610882",
      "session_share_id": "4638707616191610881",
      "user_id": "4638707616191610882",
      "user_name": "user_1",
      "started_at": "2026-08-17 07:28:42.592943-07"
    }
  ]
}
```

1.92 UAG - Session Comments NEW

Comments of a session shared with a share link. The endpoints are authorized with the share key only, so a recipient of the link can read the comments of the shared session and - when the share is not read-only - add new ones.

Note

The share key is passed in the **Session-Share-Key** header and it is the only authorization of these endpoints. The key must resolve to the session given in the path.

Comments added through a share link are append-only. Modifying and deleting comments is available in the management API only - see the section *Session Comment*.

The `modified_by` attribute is not returned to share link recipients. The author of a comment is

presented with the `modified_by_name` attribute.

1.92.1 Data Structures

Table 217: SessionCommentModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Unique.
<code>parent_id</code>	string		Immutable. ID of the commented comment - used to reply to an existing comment. The parent comment must belong to the shared session.
<code>session_id</code>	string	yes	Immutable. ID of the commented session.
<code>text</code>	string	yes	Text content of the session comment.
<code>start_at</code>	datetime	yes	Value format: time. Expensive to use. Offset from the beginning of the session, in the HH:MM:SS format.

continues on next page

Table 217 – continued from previous page

Attribute	Type	Required	Description
finish_at	datetime	yes	Value format: time. Expensive to use. Offset from the beginning of the session, in the HH:MM:SS format.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of modification.
modified_by	string		Read-only. ID of the author of the comment. Not returned to share link recipients.
modified_by_name	string		Read-only. Expensive to use. Name of the author of the comment.
removed	boolean		Read-only.

1.92.2 Retrieve Available Attributes of the *SessionCommentModel*

Request

Method	GET
Path	/api/v2/objspec/session_comment

GET /api/v2/objspec/session_comment

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.33.3.192/api/v2/objspec/session_comment'
```

1.92.3 Get Comments of a Shared Session

Request

Method	GET
Path	/api/v2/session/<session_id>/comment
Headers	Session-Share-Key: <key>

GET /api/v2/session/<session_id>/comment

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Session-Share-Key:
rmNTote8QCxcK5rPRewpomwz19GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7' \
'https://10.33.3.192/api/v2/session/4638707616191610882/comment'
```

Response

```
{
  "result": "success",
  "session_comment": [
    {
      "id": "4638707616191610881",
      "session_id": "4638707616191610882",
      "text": "Text content of the session comment.",
      "created_at": "2026-08-17 07:27:17.95841-07",
      "modified_at": "2026-08-17 07:27:17.95841-07",
      "modified_by_name": "user_1",
      "start_at": "00:01:00",
      "finish_at": "00:01:00"
    }
  ]
}
```

1.92.4 Add a Comment to a Shared Session

Request

Method	POST
Path	/api/v2/session/<session_id>/comment
Headers	Content-Type: application/json
Headers	Session-Share-Key: <key>
Body	SessionCommentModel

POST /api/v2/session/<session_id>/comment

The share must not be read-only. **start_at** and **finish_at** are given as an offset from the beginning of the session.

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  -H 'Session-Share-Key:rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7' \
  https://10.33.3.192/api/v2/session/4638707616191610882/comment \
  -d '{"text": "Text content of the session comment.", "start_at": "00:01:00",
  "finish_at": "00:01:00"}'
```

Response

```
{
  "result": "success",
  "session_comment": {
    "id": "4638707616191610881"
  }
}
```

Example Request - a reply to an existing comment

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  -H 'Session-Share-Key:rmNTote8QCxcK5rPrewpomwzl9GJaYD0FcpWd62Az2iPephvDCPDgD2gJgPzfk7' \
  https://10.33.3.192/api/v2/session/4638707616191610882/comment \
  -d '{"parent_id": "4638707616191610881","text": "Reply to the comment.",
  "start_at": "00:01:00","finish_at": "00:01:00"}'
```

Response

```
{
  "result": "success",
  "session_comment": {
    "id": "4638707616191610882"
  }
}
```

1.93 UAG - Account Remote Applications

1.93.1 Data Structures

Table 218: AccountRemoteAppModel

Attribute	Type	Required	Description
id	string		Read-only. Unique object identifier. Expensive to use.
name	string	yes	Read-only. Remote application name.
account_id	string	yes	Read-only. ID of the associated account. Expensive to use.
created_at	datetime		Read-only. Timestamp of creation.
modified_at	datetime		Read-only. Timestamp of last modification.
removed	boolean		Read-only.

1.93.2 Retrieve Available Attributes of the *AccountRemoteAppModel*

Request

Method	GET
Path	/api/v2/objspec/remote_app

GET /api/v2/objspec/remote_app

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/remote_app'
```

1.93.3 List Remote Applications Assigned to Account

Request

Method	GET
Path	/api/v2/account/<account_id>/remote_apps

GET /api/v2/account/<account_id>/remote_apps

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/account/8169529724050079749/remote_apps
```

Response

```
{
  "result": "success",
  "remote_app": [
    {
      "id": "8169529724050079745",
      "name": "firefox",
      "account_id": "8169529724050079749",
      "created_at": "2025-07-07 04:02:13.924887-07",
      "modified_at": "2025-07-07 04:02:13.924887-07"
    },
    {
      "id": "8169529724050079752",
      "name": "putty-constant-variables",
      "account_id": "8169529724050079749",
      "created_at": "2025-07-07 04:02:14.458032-07",
      "modified_at": "2025-07-07 04:02:14.458032-07"
    },
    {
      "id": "8169529724050079754",
      "name": "tightvnc",
      "account_id": "8169529724050079749",
      "created_at": "2025-07-07 04:02:14.52783-07",
      "modified_at": "2025-07-07 04:02:14.52783-07"
    }
  ]
}
```

1.94 UAG - Account Notes

Note

The `note_access_level` attribute indicates the user's access to account-related notes:

- `none` – no access,
- `read` – read-only access,
- `write` – full access (read and modify).

This value is defined by the `note_access` setting on the associated Safe.

To change it via API, use the following request:

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://<host>/api/v2/safe/<safe_id> \
-d '{"note_access": "read"}'
```

For full details, refer to the section [Safes](#).

1.94.1 Data Structures

Table 219: AccountNoteModel

Attribute	Type	Required	Description
<code>id</code>	string		Read-only. Account Note ID.
<code>account_id</code>	string	yes	Immutable. Account ID.
<code>note</code>	string	yes	Text of the note.
<code>created_at</code>	datetime		Read-only. Timestamp of creation.
<code>modified_at</code>	datetime		Read-only. Timestamp of modification.
<code>removed</code>	boolean		Read-only.

1.94.2 Retrieve Available Attributes of the *AccountNoteModel*

Request

Method	GET
Path	/api/v2/objspec/account_note

GET /api/v2/objspec/account_note

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/account_note'
```

1.94.3 Get Account Notes

Request

Method	GET
Path	/api/v2/account/<account_id>/note

GET /api/v2/account/<account_id>/note

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
https://10.0.0.1/api/v2/account/8169529724050079749/note
```

Response

```
{  
  "note": "Note content.",  
  "result": "success"  
}
```

1.94.4 Update Account Note

Request

Method	PATCH
Path	/api/v2/account/<account_id>/note
Headers	Content-Type: application/json
Body	AccountNoteModel

PATCH /api/v2/account/<account_id>/note

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
https://10.0.0.1/api/v2/account/8169529724050079749/note \  
-d '{"note": "Updated note."}'
```

Response

```
{  
  "note": "Updated note.",  
  "result": "success"  
}
```


1.95 UAG - Account Hotseat Status

Note

- The `hotseat` check will return `true` (i.e., the account is considered in use) **only if** the `rdp_hotseat` option is enabled for the server associated with the account.
- This setting corresponds to the “**Inform about existing connection**” option in the server configuration UI.
- Only sessions that are **established via** `|product_name|` can be detected by this mechanism. Sessions opened outside of Fudo (e.g., direct RDP connections) will not trigger `hotseat: true`.

To enable it via API:

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://<host>/api/v2/server/<server_id> \
-d '{"rdp_hotseat": true}'
```

Without this option, the endpoint will always return `hotseat: false`, even if a session is active.

1.95.1 Data Structures

Table 220: AccountHotseatModel

Attribute	Type	Required	Description
<code>account_id</code>	string	yes	ID of the account to check.
<code>server_id</code>	string	yes	ID of the server to check.
<code>server_address</code>	string	yes	Address of the server to check.
<code>server_port</code>	number	yes	Port of the server to check.

1.95.2 Retrieve Available Attributes of the *AccountHotseatModel*

Request

Method	GET
Path	/api/v2/objspec/account_hotseat

GET /api/v2/objspec/account_hotseat

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/account_hotseat'
```

1.95.3 Request Hotseat Status

Request

Method	POST
Path	/api/v2/account/<account_id>/hotseat
Headers	Content-Type: application/json
Body	AccountHotseatModel

POST /api/v2/account/<account_id>/hotseat

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{"server_address": "10.0.0.1", "server_port": 3389}' \
https://10.0.0.1/api/v2/account/8169529724050079749/hotseat
```

Response

```
{
  "hotseat": true,
  "message": null,
  "result": "success"
}
```

1.96 UAG - Secret Checkout and Checkin

1.96.1 Data Structures

Checkout Object Specification

Table 221: CheckoutModel

Attribute	Type	Required	Description
account_id	string	yes	Account of which secret is retrieved.
session_id	string		When checkout session is ongoing, it can be reused.
reason	string		Reason to checkout secret. Required when login_reason is set in the safe.
force	boolean; default value true		Overrides exclusive checkout limit if configured.

1.96.2 Retrieve Available Attributes of the *CheckoutModel*

Request

Method	GET
Path	/api/v2/objspec/checkout

GET /api/v2/objspec/checkout

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/checkout'
```

Checkin Object Specification

Table 222: CheckinModel

Attribute	Type	Required	Description
session_id	string	yes	Checkout session ID to stop.

1.96.3 Retrieve Available Attributes of the *CheckinModel*

Request

Method	GET
Path	/api/v2/objspec/checkin

GET /api/v2/objspec/checkin

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/checkin'
```

1.96.4 Checkout Secret

Request

Method	POST
Path	/api/v2/secret/checkout
Headers	Content-Type: application/json
Body	CheckoutModel

POST /api/v2/secret/checkout

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  https://10.0.0.1/api/v2/secret/checkout \
  -d '{"account_id": "8169529724050079750", "reason": "emergency", "force": false}'
```

Note

- The **reason** field is optional and depends on the safe configuration. If not required, you can pass **"reason": null**.
- The **force** flag allows you to override exclusive checkout restrictions. If set to **false** and the password is already checked out, the system will wait until it is returned. To bypass this, set **force** to **true**.

Response

```
{
  "status": "approved",
  "session_id": "8169529724050079755",
  "timeout": null,
  "confirmation_timeout": null,
  "reason": null,
  "pwd": "password",
  "login": "Administrator",
  "domain": null,
  "result": "success"
}
```

Note

- In the following response, the password was revealed as **"pwd": "password"** and checkout session ID as **"session_id": "8169529724050079755"**.
- If there is a Password checkout time limit set for this specific account, the timeout will present the time (in seconds) after which the password is returned automatically (e.g., **"timeout": 1800**).
- If the **Require approval** option is enabled in the safe configuration, the **confirmation_timeout** specifies the timeframe (in minutes) within which authorized users can approve or reject the access request.

1.96.5 Repeat Checkout in the Same Session**Note**

This scenario is used if the **Require approval** option is enabled in the safe configuration. After the administrator approves the access request, the request must be sent once more with the **session_id** number included to reveal the password.

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
```

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```
https://10.0.0.1/api/v2/secret/checkout \
-d '{"account_id": "8169529724050079750", "reason": "emergency", "force": false,
↪ "session_id": "8169529724050079755"}'
```

Response

```
{
  "status": "approved",
  "session_id": "8169529724050079755",
  "timeout": null,
  "confirmation_timeout": null,
  "reason": null,
  "pwd": "password",
  "login": "Administrator",
  "domain": null,
  "result": "success"
}
```

1.96.6 Checkin Secret

To checkin the secret use `session_id` obtained in the checkout response.

Request

Method	POST
Path	/api/v2/secret/checkin
Headers	Content-Type: application/json
Body	CheckinModel

POST /api/v2/secret/checkin

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.0.0.1/api/v2/secret/checkin \
-d '{"session_id": "8169529724050079755"}'
```

Response

```
{
  "result": "success"
}
```

1.97 UAG - Account Password History

1.97.1 List Password History Entries

Request

Method	GET
Path	/api/v2/account/<account_id>/secret_history

GET /api/v2/account/<account_id>/secret_history

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  "https://10.31.116.196/api/v2/account/8169529724050079750/secret_history?
  ↪filter=created_at.ge(2025-05-08T00:00:00Z),created_at.le(2025-07-08T23:59:59Z)
  ↪"
```

Response

```
{
  "items": [
    {
      "visible": true,
      "created_at": "2025-07-03T14:16:26.809242Z",
      "id": "4188347653454561300"
    },
    {
      "visible": true,
      "created_at": "2025-07-03T14:13:06.133029Z",
      "id": "4188347653454561299"
    },
    {
      "visible": true,
      "created_at": "2025-07-03T13:57:27.193281Z",
      "id": "4188347653454561282"
    }
  ],
  "result": "success"
}
```

1.97.2 Get Specific Historical Secret Value

Warning

This endpoint returns the historical password value in **plain text**. Access to this endpoint should be strictly controlled and limited to authorized users only.

Request

Method	GET
--------	-----

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Table 224 – continued from previous page

Path	/api/v2/account/<account_id>/secret_history/ <account_secret_id>
------	---

GET /api/v2/account/<account_id>/secret_history/<account_secret_id>

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  "https://10.31.116.196/api/v2/account/8169529724050079750/secret_history/
  ↪4188347653454561300"
```

Response

```
{
  "pwd": "Secret",
  "result": "success"
}
```

1.98 UAG - Secret Collections

Collections are containers for organizing secrets in a hierarchical structure within the Password Vault.

Note

Collections can only be created and managed in the Personal Vault. Organization Vault collections are managed by administrators through the main Fudo Enterprise system, not through the User Access Gateway.

1.98.1 Data Structures

Table 225: CollectionModel

Attribute	Type	Required	Description
id	string		Read-only. Secret collection id. Unique.
name	string	yes	Collection name. Unique within parent collection. Case-insensitive.
owner_id	string		Write-only. Protected. Hidden. User ID of the personal vault owner.
inherit_permis	boolean		Read-only. Protected. Inherit permissions from parent collection.
parent_id	string		Parent collection id. Unique with name.
subcollections_c	number		Read-only. Expensive to use. Number of direct child collections.

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Table 225 – continued from previous page

Attribute	Type	Required	Description
secrets_count	number		Read-only. Expensive to use. Number of descendant secrets.
path_to_root_ids	string-array		Read-only. Hidden. Expensive to use. Ordered list of ancestor collection IDs, starting with the root collection.
path_to_root_names	string-array		Read-only. Hidden. Expensive to use. Ordered list of ancestor collection names, starting with the root collection.
access_policy	string		Read-only. Expensive to use. Access policy level. One of: <code>view_on_request</code> , <code>view</code> , <code>edit_on_request</code> , <code>full_edit</code> .
accessible_parent_id	string		Read-only. Hidden. Expensive to use. ID of the nearest ancestor collection that the user has direct access to view.
vault	string		Read-only. Hidden. Expensive to use. Vault type (organization, personal).
created_at	datetime		Read-only. Creation timestamp.
modified_at	datetime		Read-only. Modification timestamp.
removed	boolean		Read-only. Whether the collection has been removed.

1.98.2 Retrieve Available Attributes of the *CollectionModel*

Request

Method	GET
Path	/api/v2/objspec/collection

1.98.3 List Collections

Request

Method	GET
Path	/api/v2/collection

GET /api/v2/collection

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/collection'
```

Response


```
{
  "result": "success",
  "collection": [
    {
      "id": "3260606130216239105",
      "name": "Basic PV secrets",
      "subcollections_count": 0,
      "secrets_count": 4,
      "access_policy": "view_on_request",
      "created_at": "2026-04-17 06:34:37.877764-07",
      "modified_at": "2026-04-17 06:34:37.877764-07"
    },
    {
      "id": "3260606130216239118",
      "name": "Import Test Collection",
      "subcollections_count": 0,
      "secrets_count": 0,
      "access_policy": "full_edit",
      "created_at": "2026-04-22 06:00:55.155184-07",
      "modified_at": "2026-04-22 06:00:55.155184-07"
    }
  ]
}
```

1.98.4 Create Collection

Request

Method	POST
Path	/api/v2/collection
Headers	Content-Type: application/json
Body	CollectionModel

POST /api/v2/collection

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  https://10.0.214.98/api/v2/collection \
  -d '{"name": "API Documentation Test"}'
```

Response

```
{
  "result": "success",
  "collection": {
    "id": "3260606130216239116"
```

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```
}
}
```

1.98.5 Get Collection by ID

Request

Method	GET
Path	/api/v2/collection/<id>

GET /api/v2/collection/<id>

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/collection/3260606130216239109'
```

Response

```
{
  "result": "success",
  "collection": {
    "id": "3260606130216239105",
    "name": "Basic PV secrets",
    "subcollections_count": 0,
    "secrets_count": 4,
    "access_policy": "view_on_request",
    "created_at": "2026-04-17 06:34:37.877764-07",
    "modified_at": "2026-04-17 06:34:37.877764-07"
  }
}
```

1.98.6 Update Collection

Request

Method	PATCH
Path	/api/v2/collection/<id>
Headers	Content-Type: application/json
Body	CollectionModel (partial)

PATCH /api/v2/collection/<id>

Example Request

```
curl -s -k -X PATCH \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
```

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```
https://10.0.214.98/api/v2/collection/3260606130216239109 \
-d '{"name": "Updated Payment Collection"}'
```

Response

```
{
  "result": "success"
}
```

1.98.7 Delete Collection

Request

Method	DELETE
Path	/api/v2/collection/<id>

DELETE /api/v2/collection/<id>

Example Request

```
curl -s -k -X DELETE \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/collection/3260606130216239109'
```

Response

```
{
  "result": "success"
}
```

1.98.8 Import Secrets to Collection from CSV

This endpoint imports secrets from a CSV file into a collection. The CSV file must be constructed according to the following rules:

- The first row is a *header row* containing names corresponding to the API fields names (refer to *API Documentation: Secrets*).
- The *header row* must include all fields that are required when manually creating a secret of specific type. Other fields are optional and can be left empty.
- A comma (,) has to be used as a field separator.

Example CSV file:

```
name,type,login,domain,secret,uri
login,login,admin,portal.example.com,SuperSecure123!,https://portal.example.com/
↪login
login2,login,db_admin,db.example.com,DbPassword2024,https://db.example.com/admin
note,note,,,Quarterly meeting notes: Q4 targets discussed.,
api_key,apikey,aws_service_account,api.aws.amazon.com,AKIAIOSFODNN7EXAMPLE,
```

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```
→https://api.aws.amazon.com
cert,certificate,,,
ssh_key,sshkey,,,
```

Note

SSH private keys and certificates are typically stored in multi-line PEM format. When importing them from a CSV file, enclose the entire value in double quotes (") so it is treated as a single CSV field.

Example CSV for a certificate secret:

```
name,type,login,domain,certificate,secret
"secret-1","certificate","","","-----BEGIN CERTIFICATE-----
MIID...EXAMPLE...DATA
-----END CERTIFICATE-----","-----BEGIN PRIVATE KEY-----
MIIE...EXAMPLE...DATA
-----END PRIVATE KEY-----"
```

Request

Method	POST
Path	/api/v2/collection/<id>/secret_import
Headers	Content-Type: multipart/form-data
Body	CSV file upload

POST /api/v2/collection/<id>/secret_import

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -F 'file=@secrets.csv' \
  'https://10.0.214.98/api/v2/collection/3260606130216239120/secret_import'
```

Response

```
{
  "result": "success",
  "imported_count": 5,
  "failed_count": 0,
  "skipped_count": 1
}
```

Note

The CSV file should have a header row with column names. Required columns: **name**, **type**.

1.99 UAG - Secret Management

Note

Secrets are encrypted data items stored in collections within the Password Vault.

Secret types supported:

- **login** - Username/password credentials
- **sshkey** - SSH private/public key pairs
- **note** - Secure text notes
- **apikey** - API tokens and keys
- **certificate** - X.509 certificates with private keys

1.99.1 Data Structures

Table 226: SecretModel

Attribute	Type	Required	Description
id	string		Read-only. Unique secret identifier.
name	string	yes	Secret name. Case-insensitive. Uniqueness is not required - a collection can hold several secrets with the same name.
collection_id	string	yes	Parent collection identifier.
owner_id	string		Read-only. Expensive to use. User ID of the personal vault owner.
collection_name	string		Read-only. Hidden. Expensive to use. Collection name.
type	string	yes	Immutable. Secret type. One of: login , sshkey , note , apikey , certificate .
description	string		Not encrypted secret description.
login	string	If type == login sshkey apikey	Username for authentication.
domain	string	If type == login sshkey apikey	Domain for the credential.
certificate	string	If type == certificate	X.509 certificate.
x509_pubkey_fingerp	string		Read-only. Expensive to use. Public key SHA256 fingerprint from certificate.

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Table 226 – continued from previous page

Attribute	Type	Required	Description
secret	string		Protected. Encrypted secret value (password, private key, etc).
secret_passphrase	string	If type == certificate sshkey	Protected. Passphrase to decrypt private key.
has_secret	boolean		Read-only. Expensive to use. Whether secret value is set.
ssh_public_key	string		Read-only. Expensive to use. SSH public key from private key.
ssh_fingerprint	string		Read-only. Expensive to use. SSH key SHA256 fingerprint.
access_policy	string		Read-only. Expensive to use. Access policy level.
checkout_mode	string		Read-only. Expensive to use. Checkout mode (simple, exclusive).
my_checkout_id	string		Read-only. Expensive to use. Current user's checkout ID if checked out.
my_checkout_exp	datetime		Read-only. Expensive to use. Managed secret access expiration time if user has active checkout.
key_pubkey_fingerprint	string		Read-only. Expensive to use. TLS key SHA256 fingerprint derived from private key.
path_to_root_ids	string-array		Read-only. Hidden. Expensive to use. Ordered list of ancestor collection IDs, starting with the root collection.
path_to_root_names	string-array		Read-only. Hidden. Expensive to use. Ordered list of ancestor collection names, starting with the root collection.
policy_compliant	boolean		Read-only. Hidden. Expensive to use. Indicates whether the secret conforms to global vault configuration requirements.
compromised	boolean		Read-only. Hidden. Expensive to use. Indicates whether the secret is known to be compromised.
policy_compliant	boolean	If type == login	Read-only. Hidden. Protected. Partial policy compliance check.
vault	string		Read-only. Hidden. Expensive to use. Vault type (organization, personal).
shared_with	string-array		Read-only. Hidden. Expensive to use. List of users you tried to share the secret with.

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Table 226 – continued from previous page

Attribute	Type	Required	Description
checked_out_by_ _c	boolean		Read-only. Hidden. Expensive to use. Indicates whether another user currently has an active checkout of the secret.
created_at	datetime		Read-only. Creation timestamp.
modified_at	datetime		Read-only. Modification timestamp.
removed	boolean		Read-only. Soft deletion flag.

1.99.2 Retrieve Available Attributes of the *SecretModel*

Request

Method	GET
Path	/api/v2/objspec/secret

GET /api/v2/objspec/secret

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/secret'
```

1.99.3 List Secrets

Retrieve a list of secrets accessible to the user.

Request

Method	GET
Path	/api/v2/secret

GET /api/v2/secret

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/secret
```

Response

```
{
  "result": "success",
  "secret": [
    {
      "id": "3260606130216239105",
      "name": "secret for: root-fudo-PV",
```

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```

        "collection_id": "3260606130216239105",
        "type": "login",
        "login": "root",
        "has_secret": true,
        "access_policy": "view_on_request",
        "checkout_mode": "simple",
        "created_at": "2026-04-17 06:34:37.912715-07",
        "modified_at": "2026-04-17 06:34:37.91632-07"
      },
      {
        "id": "3260606130216239106",
        "name": "secret for: user01-macOS-PV",
        "collection_id": "3260606130216239105",
        "type": "login",
        "login": "user01",
        "has_secret": true,
        "access_policy": "view_on_request",
        "checkout_mode": "simple",
        "created_at": "2026-04-17 06:34:41.255687-07",
        "modified_at": "2026-04-17 06:34:41.257013-07"
      }
    ]
  }
}

```

1.99.4 Get Secret by ID

Retrieve details of a specific secret.

Request

Method	GET
Path	/api/v2/secret/<id>

GET /api/v2/secret/<id>

Example Request

```

curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  https://10.0.0.1/api/v2/secret/3260606130216239105

```

Response

```

{
  "result": "success",
  "secret": {
    "id": "3260606130216239105",
    "name": "secret for: root-fudo-PV",
    "collection_id": "3260606130216239105",
    "type": "login",

```

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```
    "login": "root",
    "has_secret": true,
    "access_policy": "view_on_request",
    "checkout_mode": "simple",
    "created_at": "2026-04-17 06:34:37.912715-07",
    "modified_at": "2026-04-17 06:34:37.91632-07"
  }
}
```

1.99.5 Create Secret

Create a new secret in a collection.

Request

Method	POST
Path	/api/v2/secret
Headers	Content-Type: application/json
Body	SecretModel

POST /api/v2/secret

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Staging Database",
  "collection_id": "3260606130216239119",
  "type": "login",
  "description": "Staging environment database",
  "login": "staging_user",
  "domain": "staging.example.com",
  "secret": "StrongPassword123!"
}' \
'https://10.0.214.98/api/v2/secret'
```

Response

```
{
  "result": "success",
  "secret": {
    "id": "3260606130216239109"
  }
}
```

1.99.6 Update Secret

Update properties of an existing secret.

Request

Method	PATCH
Path	/api/v2/secret/<id>
Headers	Content-Type: application/json
Body	Partial SecretModel

PATCH /api/v2/secret/<id>

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
-d '{  
  "description": "Updated description"  
}' \  
'https://10.0.214.98/api/v2/secret/3260606130216239109'
```

Response

```
{  
  "result": "success"  
}
```

1.99.7 Delete Secret

Permanently delete a secret from the collection.

Request

Method	DELETE
Path	/api/v2/secret/<id>

DELETE /api/v2/secret/<id>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/secret/3260606130216239109'
```

Response

```
{  
  "result": "success"  
}
```

1.100 Secret History

Table 227: SecretHistoryModel

Attribute	Type	Required	Description
id	string	yes	Read-only. Secret history identifier.
secret	string	yes	Secret identifier.
current	boolean	yes	Read-only. Whether it's the current version of secret.
state	string	yes	Read-only. Secret secret changer state. One of: <code>pending</code> , <code>confirmed</code> , <code>rejected</code> .
created	datetime		Read-only. Creation timestamp.
modified	datetime		Read-only. Modification timestamp.
removed	boolean		Read-only.

1.100.1 Retrieve Available Attributes of the *SecretHistoryModel*

Request

Method	GET
Path	/api/v2/objspec/secret_history

GET /api/v2/objspec/secret_history

1.100.2 Get Secret History

Retrieve history of all secrets accessible to the user.

Request

Method	GET
Path	/api/v2/secret/history

GET /api/v2/secret/history

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/secret/history
```

Response

```
{
  "result": "success",
  "secret_history": [
    {
      "id": "3260606130216239105",
      "secret_id": "3260606130216239105",
```

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```

        "current": true,
        "state": "confirmed",
        "created_at": "2026-04-17 06:34:37.915698-07",
        "modified_at": "2026-04-17 06:34:37.915698-07"
      },
      {
        "id": "3260606130216239106",
        "secret_id": "3260606130216239106",
        "current": true,
        "state": "confirmed",
        "created_at": "2026-04-17 06:34:41.256853-07",
        "modified_at": "2026-04-17 06:34:41.256853-07"
      }
    ]
  }
}

```

1.101 Shared Secrets

Table 228: SecretSharedModel

Attribute	Type	Required	Description
id	string		Read-only. Secret identifier.
name	string		Read-only. Secret name.
collection	string		Read-only. Parent collection identifier.
collection_name	string		Read-only. Hidden. Expensive to use. Collection name.
type	string		Read-only. Secret type.
description	string		Read-only. Not encrypted secret description.
login	string		Read-only. Username.
domain	string		Read-only. Domain.
certificate	string		Read-only. X.509 certificate.
secret	string		Read-only. Protected. Encrypted secret.
secret_phrase	string		Read-only. Protected. Passphrase.
has_expired	boolean		Read-only. Expensive to use. Whether secret is set.
valid_until	datetime		Read-only. Expensive to use. Expiration time of granted access.
created_at	datetime		Read-only.
modified_at	datetime		Read-only.
removed	boolean		Read-only.

1.101.1 Retrieve Available Attributes of the *SecretSharedModel*

Request

Method	GET
Path	/api/v2/objspec/secret_shared

GET /api/v2/objspec/secret_shared

1.101.2 Get Shared Secrets

Retrieve secrets shared with the user through access requests.

Request

Method	GET
Path	/api/v2/secret/shared

GET /api/v2/secret/shared

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/secret/shared
```

Response

```
{
  "result": "success",
  "secret_shared": []
}
```

1.102 Secret URI Management

Table 229: SecretUriModel

At-tribut	Type	Required	Description
id	string		Read-only. Unique secret URI identifier.
secret	string	yes	Immutable. Secret identifier.
secret	string		Read-only. Hidden. Expensive to use. Secret name.
uri	string	yes	URL/connection string assigned to the secret.
collection	string		Read-only. Hidden. Expensive to use. Collection identifier.
host	string		Read-only. Hidden. Host extracted from the provided uri.
port	number		Read-only. Hidden. Port extracted from the provided uri.
login	string		Read-only. Hidden. Expensive to use.

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Table 229 – continued from previous page

Attribute	Type	Required	Description
domain	string		Read-only. Hidden. Expensive to use.
vault	string		Read-only. Hidden. Expensive to use. Vault type (organization, personal).
created	datetime		Read-only.
modified	datetime		Read-only.
removed	boolean		Read-only.

1.102.1 Retrieve Available Attributes of the *SecretUriModel*

Request

Method	GET
Path	/api/v2/objspec/secret_uri

GET /api/v2/objspec/secret_uri

1.102.2 List All Secret URIs

Retrieve all URIs associated with secrets.

Request

Method	GET
Path	/api/v2/secret/uri

GET /api/v2/secret/uri

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
https://10.0.0.1/api/v2/secret/uri
```

Response

```
{
  "result": "success",
  "secret_uri": []
}
```

1.102.3 Get Secret URIs

Retrieve URIs associated with a specific secret.

Request

Method	GET
Path	/api/v2/secret/<secret_id>/uri

GET /api/v2/secret/<secret_id>/uri

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.0.1/api/v2/secret/3260606130216239110/uri'
```

Response

```
{
  "result": "success",
  "secret_uri": [
    {
      "id": "3260606130216239105",
      "secret_id": "3260606130216239110",
      "uri": "https://example.com/api",
      "created_at": "2026-04-22 08:53:41.4058-07",
      "modified_at": "2026-04-22 08:53:41.4058-07"
    }
  ]
}
```

1.102.4 Add URI to Secret

Associate a URI with a secret.

Request

Method	POST
Path	/api/v2/secret/<secret_id>/uri
Headers	Content-Type: application/json
Body	SecretUriModel

POST /api/v2/secret/<secret_id>/uri

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{"uri": "https://example.com/api"}' \
'https://10.0.214.98/api/v2/secret/3260606130216239110/uri'
```

Response

```
{
  "result": "success",
  "secret_uri": {
    "id": "3260606130216239105"
  }
}
```

1.102.5 Update Secret URI

Update an existing URI associated with a secret.

Request

Method	PATCH
Path	/api/v2/secret/<secret_id>/uri/<id>
Headers	Content-Type: application/json
Body	Partial SecretUriModel

PATCH /api/v2/secret/<secret_id>/uri/<id>

Example Request

```
curl -s -k -X PATCH \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
-d '{"uri": "https://new-api.example.com/v2"}' \  
'https://10.0.214.98/api/v2/secret/3260606130216239110/uri/3260606130216239105'  
↪ '
```

Response

```
{  
  "result": "success"  
}
```

1.102.6 Delete Secret URI

Remove a URI association from a secret.

Request

Method	DELETE
Path	/api/v2/secret/<secret_id>/uri/<id>

DELETE /api/v2/secret/<secret_id>/uri/<id>

Example Request

```
curl -s -k -X DELETE \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/secret/3260606130216239110/uri/3260606130216239105'  
↪ '
```

Response

```
{  
  "result": "success"  
}
```


1.103 UAG - Secret Checkout/Checkin

Note

The checkout/checkin mechanism provides controlled access to secret values with audit trails.

When a secret is checked out, it becomes temporarily unavailable to other users until it is checked back in. This ensures exclusive access during sensitive operations.

Access to secrets may require approval through access requests, depending on the secret's `access_policy` setting:

- `full_edit` - Full access without approval
- `view_on_request` - Requires access request approval before checkout
- `none` - No access allowed

1.103.1 Data Structures

Table 230: `SecretCheckoutModel`

Attribute	Type	Required	Description
<code>secret_id</code>	string	yes	Secret identifier. Protected.

Table 231: `SecretCheckinModel`

Attribute	Type	Required	Description
<code>secret_id</code>	string	yes	Secret identifier. Protected.

1.103.2 Retrieve Available Attributes of the *SecretCheckoutModel*

Request

Method	GET
Path	<code>/api/v2/objspec/secret_checkout</code>

GET `/api/v2/objspec/secret_checkout`

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/secret_checkout'
```

1.103.3 Retrieve Available Attributes of the *SecretCheckinModel*

Request

Method	GET
Path	/api/v2/objspec/secret_checkin

GET /api/v2/objspec/secret_checkin

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/secret_checkin'
```

1.103.4 Checkout Secret

Checkout a secret to gain exclusive access to its value. The secret must be checked back in after use.

Note

If the secret's `access_policy` is set to `view_on_request`, an approved access request is required before checkout.

Request

Method	POST
Path	/api/v2/secret/<secret_id>/checkout
Headers	Content-Type: application/json
Body	Empty or SecretCheckoutModel

POST /api/v2/secret/<secret_id>/checkout

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.31.116.196/api/v2/secret/3260606130216239105/checkout \
-d '{}'
```

Response

```
{
  "secret_access_id": "1",
  "checkout_type": "simple",
  "expires_at": null,
  "result": "success"
}
```

Note

After successful checkout, the secret will have a `my_checkout_id` field when queried via GET `/secret/<secret_id>`.

1.103.5 Checkin Secret

Return a previously checked out secret, making it available for other users.

Request

Method	POST
Path	<code>/api/v2/secret/<secret_id>/checkin</code>
Headers	Content-Type: <code>application/json</code>
Body	Empty or <code>SecretCheckinModel</code>

POST `/api/v2/secret/<secret_id>/checkin`

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  https://10.31.116.196/api/v2/secret/3260606130216239105/checkin \
  -d '{}'
```

Response

```
{
  "result": "success"
}
```

1.104 UAG - Secret Lookup

Note

Secret Lookup allows retrieving the plaintext value of a previously checked out secret from the Password Vault.

1.104.1 Data Structures

Table 232: `SecretLookupModel`

Attribute	Type	Required	Description
<code>secret_id</code>	string	yes	Protected. ID of a checked out secret.
<code>secret</code>	string		Read-only. Secret in plaintext (password, private key, etc).

1.104.2 Retrieve Available Attributes of the *SecretLookupModel*

Request

Method	GET
Path	/api/v2/objspec/secret_lookup

GET /api/v2/objspec/secret_lookup

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.33.2.133/api/v2/objspec/secret_lookup'
```

Response

```
{  
  "result": "success",  
  "secret_lookup": {  
    "secret_id": {  
      "type": "string",  
      "description": "Id of a checked out secret.",  
      "id": true,  
      "required": true,  
      "protected": true  
    },  
    "secret": {  
      "type": "string",  
      "readonly": true,  
      "allow-empty": true,  
      "description": "Secret in plaintext (password, private key, etc).",  
      "filterable": true  
    }  
  }  
}
```

1.104.3 Lookup Secret Value

Retrieve the plaintext value of a previously checked out secret.

Note

Prerequisites:

- The secret must be checked out first using /api/v2/secret/<secret_id>/checkout
- User must have active checkout session for this secret
- Checkout must not be expired

Request

Method	POST
Path	/api/v2/secret/<secret_id>/lookup
Headers	Content-Type: application/json
Body	Empty {} or omitted

POST /api/v2/secret/<secret_id>/lookup

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{}' \
'https://10.33.2.133/api/v2/secret/3260606130216239105/lookup'
```

Success Response

```
{
  "result": "success",
  "secret": "MySecretPassword123!"
}
```

Error Response - Secret Not Checked Out

```
{
  "result": "failure",
  "message": "Secret is not checked out or checkout has expired"
}
```

Error Response - Insufficient Permissions

```
{
  "result": "failure",
  "message": "Insufficient permissions to access this secret"
}
```

1.104.4 Usage Example with Full Workflow

```
# Step 1: Checkout the secret
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{"secret_id": "3260606130216239105"}' \
'https://10.33.2.133/api/v2/secret/3260606130216239105/checkout'

# Response: {"result": "success", "checkout_id": "3260606130216239201"}

# Step 2: Lookup the secret value
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
```

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```
-H 'Content-Type: application/json' \
-d '{}' \
'https://10.33.2.133/api/v2/secret/3260606130216239105/lookup'

# Response: {"result": "success", "secret": "MySecretPassword123!"}

# Step 3: Checkin when done (optional but recommended)
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
-d '{"secret_id": "3260606130216239105"}' \
'https://10.33.2.133/api/v2/secret/3260606130216239105/checkin'

# Response: {"result": "success"}
```

1.105 UAG - Secret History Reveal

Note

Secret History Reveal allows viewing historical values of secrets from the Password Vault. This is useful for auditing secret changes and retrieving previous secrets if needed.

1.105.1 Data Structures

Table 233: SecretHistoryRevealModel

Attribute	Type	Required	Description
id	string	yes	Protected. Secret history ID.
secret	string	yes	Read-only. Historical secret value in plaintext (password, private key, etc).

1.105.2 Retrieve Available Attributes of the *SecretHistoryRevealModel*

Request

Method	GET
Path	/api/v2/objspec/secret_history_reveal

GET /api/v2/objspec/secret_history_reveal

Example Request

```
curl -s -k -X GET \
-H 'Authorization: <token>' \
'https://10.33.2.133/api/v2/objspec/secret_history_reveal'
```

1.105.3 Reveal Historical Secret Value

Retrieve the plaintext value of a specific historical version of a secret.

Warning

- This endpoint only works for historical versions (`current: false`)
- For current version (`current: true`), use checkout and lookup endpoints
- Accessing historical secret values requires special permissions
- The operation is audited in the system logs

Request

Method	POST
Path	/api/v2/secret/history/<id>
Headers	Content-Type: application/json
Body	Empty {}

POST /api/v2/secret/history/<id>

Note

<id> - Secret history ID obtained from /api/v2/secret/history endpoint.

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: <token>' \  
  -H 'Content-Type: application/json' \  
  -d '{}' \  
  'https://10.33.2.133/api/v2/secret/history/5980780305148018689'
```

Success Response (Historical Version)

```
{  
  "result": "success",  
  "secret": "<historical password>"  
}
```

Error Response - Current Version

```
# When trying to reveal current version (current: true)  
{  
  "result": "failure",  
  "message": "Use checkout to reveal current secret."  
}
```

Error Response - History Not Found

```
{
  "result": "failure",
  "message": "Secret history entry not found"
}
```

Error Response - Insufficient Permissions

```
{
  "result": "failure",
  "message": "Insufficient permissions to reveal historical secret values"
}
```

1.105.4 Complete Workflow Example

This example shows how to retrieve and reveal historical password values using real data:

```
# Step 1: Get secret history list
curl -s -k -X GET \
  -H 'Authorization: <token>' \
  'https://10.33.2.133/api/v2/secret/history'

# Response:
{
  "result": "success",
  "secret_history": [
    {
      "id": "5980780305148018689",
      "secret_id": "5980780305148018690",
      "current": false,
      "state": "confirmed",
      "created_at": "2026-06-05 10:21:47.992825-07",
      "modified_at": "2026-06-05 10:21:47.992825-07"
    },
    {
      "id": "5980780305148018690",
      "secret_id": "5980780305148018690",
      "current": true,
      "state": "confirmed",
      "created_at": "2026-06-09 02:41:45.662429-07",
      "modified_at": "2026-06-09 02:41:45.662429-07"
    }
  ]
}

# Step 2: Reveal historical value (current: false)
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{}' \
  'https://10.33.2.133/api/v2/secret/history/5980780305148018689'
```

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```
# Response: Success - returns old password
{
  "result": "success",
  "secret": "<password value>"
}

# Step 3: Try to reveal current value (current: true) - will fail
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{}' \
  'https://10.33.2.133/api/v2/secret/history/5980780305148018690'

# Response: Error - must use checkout for current version
{
  "result": "failure",
  "message": "Use checkout to reveal current secret."
}

# Step 4: For current version, use checkout and lookup instead
# First checkout:
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{}' \
  'https://10.33.2.133/api/v2/secret/5980780305148018690/checkout'

# Then lookup:
curl -s -k -X POST \
  -H 'Authorization: <token>' \
  -H 'Content-Type: application/json' \
  -d '{}' \
  'https://10.33.2.133/api/v2/secret/5980780305148018690/lookup'
```

1.105.5 Related Endpoints

- GET /api/v2/secret/history - List all secret history entries
- GET /api/v2/secret/<id> - Get current secret metadata (without revealing the value)
- POST /api/v2/secret/<id>/checkout - Checkout current secret for use
- POST /api/v2/secret/<id>/lookup - Reveal current checked-out secret value

1.106 UAG - Change Password NEW

1.106.1 Data Structures

Table 234: ChangePasswordModel

Attribute	Type	Required	Description
state	string		Change password state.
password	string	yes	Old or new password depending on state or prompt.
method_id	string		ID of the authentication method whose password is changed. See the section Profile Authentication Methods Management .

1.106.2 Retrieve Available Attributes of the *ChangePasswordModel*

Request

Method	GET
Path	/api/v2/objspec/change_password

GET /api/v2/objspec/change_password

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/change_password'
```

1.106.3 Change Password

Request

Method	POST
Path	/api/v2/change-password
Headers	Content-Type: application/json
Body	ChangePasswordModel

POST /api/v2/change-password

Example Request

```
curl -s -k -X POST \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
-H 'Content-Type: application/json' \
https://10.0.0.1/api/v2/change-password \
-d '{"password": "new-password"}'
```

Response

```
{
  "result": "success"
}
```

1.107 UAG - Change Language

1.107.1 Data Structures

Table 235: ChangeLanguageModel

Attribute	Type	Required	Description
lang	string	yes	Language code. Possible values: en, pl, ru, ua, kk.

1.107.2 Retrieve Available Attributes of the *ChangeLanguageModel*

Request

Method	GET
Path	/api/v2/objspec/change_language

GET /api/v2/objspec/change_language

Example Request

```
curl -s -k -X GET \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
'https://10.0.214.98/api/v2/objspec/change_language'
```

1.107.3 Change Language

Request

Method	POST
Path	/api/v2/change_language
Headers	Content-Type: application/json
Body	ChangeLanguageModel

POST /api/v2/change_language

Example Request

```
curl -s -k -X POST \  
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
-H 'Content-Type: application/json' \  
https://10.0.0.1/api/v2/change_language \  
-d '{"lang": "pl"}'
```

Response

```
{  
  "result": "success"  
}
```

1.108 UAG - OTP Generation

1.108.1 Data Structures

Table 236: OtpModel

Attribute	Type	Required	Description
account_id	string	yes	The account to generate a one-time password.
safe_id	string	yes	Safe identifier.
listener_id	string	If webclient == false	Required if webclient is false.
server_id	string		Server identifier.
server_address	string		Valid IPv4 or IPv6 or hostname.
server_port	number		Value-format: port. Default port for given protocol is used if not passed.
account_login	string		Login for the account.
webclient	boolean; default value false		Whether the OTP is for a Webclient.

1.108.2 Retrieve Available Attributes of the *OtpModel*

Request

Method	GET
Path	/api/v2/objspec/otp

GET /api/v2/objspec/otp

Example Request

```
curl -s -k -X GET \
-H 'Authorization: sgfeea6jsaz4mum9su8w6' \
'https://10.0.214.98/api/v2/objspec/otp'
```

1.108.3 Generate OTP

Request

Method	POST
Path	/api/v2/secret/otp
Headers	Content-Type: application/json
Body	OtpModel

POST /api/v2/secret/otp

Example Request

```
curl -s -k -X POST \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  -H 'Content-Type: application/json' \
  https://10.0.0.1/api/v2/secret/otp \
  -d '{"account_id": "8169529724050079750", "safe_id": "8169529724050079749",
  ↪ "webclient":true,"server_address":"10.0.136.1","port":3389}'
```

Response

```
{
  "otp": "80434736YPxLckb4Wy_9f8Vuv7Z30Gv_",
  "result": "success"
}
```

1.109 UAG - Generating RDP Configuration

1.109.1 Data Structures

Table 237: RdpConfigModel

Attribute	Type	Required	Description
host	string	yes	Destination host.
port	number	yes	Connection port.
otp	string	yes	One-time password for RDP connection.
app	string		RemoteApp name (if applicable).
suffix	string		Optional suffix for session URL.
safe_id	string		Identifier of the Safe.
server_id	string		Identifier of the Server.
listener_id	string		Identifier of the Listener.

1.109.2 Retrieve Available Attributes of the *RdpConfigModel*

Request

Method	GET
Path	/api/v2/objspec/rdp_config

GET /api/v2/objspec/rdp_config

Example Request

```
curl -s -k -X GET \
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \
  'https://10.0.214.98/api/v2/objspec/rdp_config'
```

1.109.3 Generate RDP Configuration

Request

Method	POST
Path	/api/v2/safe/rdp_config
Headers	Content-Type: application/json
Body	RdpConfigModel

POST /api/v2/safe/rdp_config

Example Request

```
curl -s -k -X POST \  
  -H 'Authorization: sgfeea6jsaz4mum9su8w6' \  
  -H 'Content-Type: application/json' \  
  https://10.0.0.1/api/v2/safe/rdp_config \  
  -d '{  
    "host": "10.31.116.195",  
    "port": 3389,  
    "otp": "80434736wemPxwmZnKsC8wQxjbUZ3axv",  
    "app": "8169529724050079745",  
    "suffix": "remoteapp-account",  
    "safe_id": "8169529724050079745"  
  }'
```

Note

The one-time password (otp) required in this request can be generated using the POST /api/v2/secret/otp endpoint. For more information, refer to the [UAG - OTP Generation](#) section.

Response

```
full address:s:10.31.116.195:3389  
username:s:80434736wemPxwmZnKsC8wQxjbUZ3axv  
prompt for credentials:i:1  
password:s:  
remoteapplicationmode:i:1  
remoteapplicationprogram:s:remoteapp:8169529724050079745%
```