

GUIDE

# **HDA - LANSWEEPER INTEGRATION**

*INSTALLATION GUIDE*

# HDA – Lansweeper Integration

Integration with Lansweeper is enabled with the HDA inventory module and occurs via a dedicated agent. Configuring the inventory agent requires retrieving two parameters from Lansweeper:

- **EndPoint:** This is the address where the APIs for accessing Lansweeper will be accessible. The default endpoint loaded with the configuration template is:  
<https://api.lansweeper.com/api/v2/graphql>
- **Personal Access Token (PatToken):** This is the token with which HDA will be authorized to access Lansweeper via the GraphQL API.

## Indice

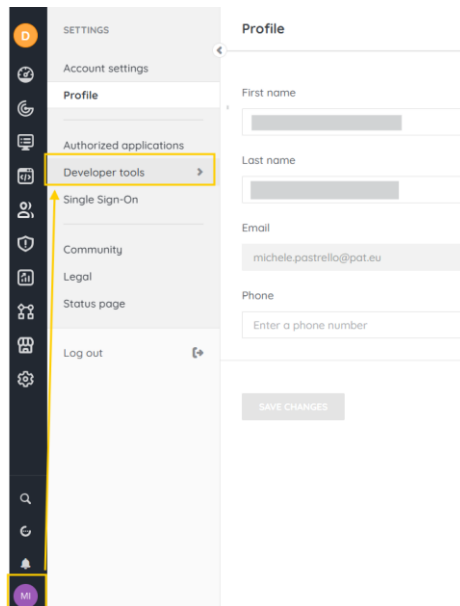
1. *Personal Access Token*
2. *Inventory Agent*
3. *Lansweeper Schema*
4. *Entities*
5. *Field Mapping*

## 1. Personal Access Token

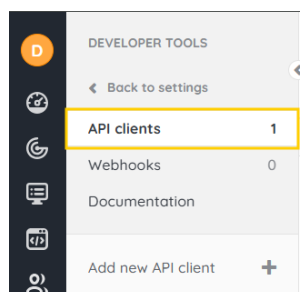
# How to get the Personal Access Token

To generate a Personal Access Token, you must have a Lansweeper account and log in to the application.

From within the application, access "Account settings" and then select "Developer tools."

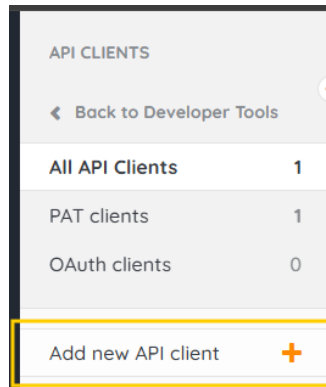


Then select the "API Clients" item:



# 1. Personal Access Token

Add a new API client:



And fill in the information to generate the new Token:

The screenshot shows the 'Add new API client' form. It starts with a title bar 'Add new API client' and a close button. Below is the instruction 'Select the API authentication method from the following'. There are two radio button options: 'Personal Access Token (PAT)' (selected) with the subtext 'Interact with your Lansweeper data', and 'OAuth' with the subtext 'Allow other organisations to interact with their Lansweeper data'. The form then has several required fields: 'API client name \*' (containing 'HDAInventoryAgent'), 'Description' (containing 'HDA Inventory agent API client'), 'Image' (with an upload icon and the text 'Add an image to easily find this client in your list'), 'Integration \*' (a dropdown menu set to 'Other'), and 'Custom Integration Name \*' (containing 'HDA').

CONTINUE

# 1. Personal Access Token



Once the token is created, you can change its expiration date and the sites the application can access:

**HDAInventoryAgent is requesting access to your sites.** ✕

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**i** Some integrations using API clients are restricted to certain subscription plans. Restrictions will soon apply to their usage on sites not having the minimum plan required.

**What will HDAInventoryAgent be able to access?**

-  Your user profile data.
-  Data from the sites you choose below.

**Token expiration time**


- 1 day
- 7 days
- 30 days
- Specific day
- No expiration time

**Which sites do you want to give access to HDAInventoryAgent?**

Select the sites to give access to from the following list

🔍

Deselect all sites

 **Developer Demo Site** ENTERPRISE

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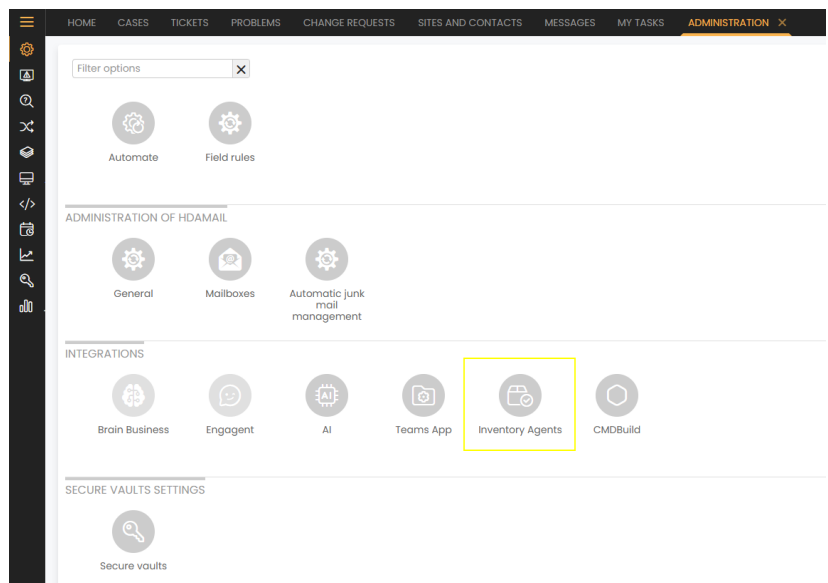
## 2. Inventory Agent

# Activating a new inventory agent

Once you have obtained the Personal Access Token, you can proceed with configuring the agent within HDA.

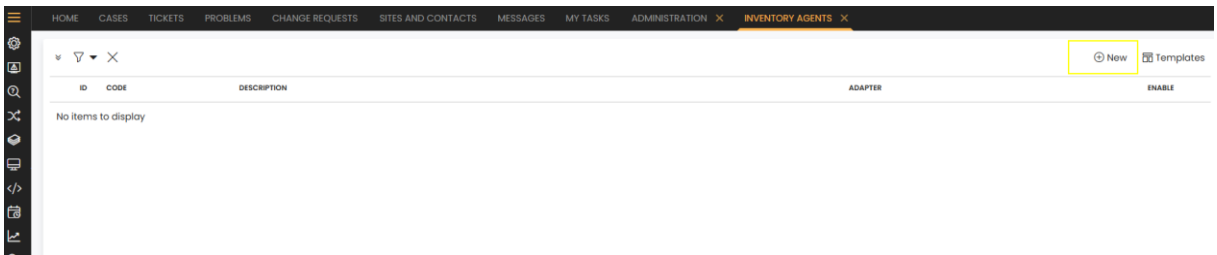
Log in to HDA with a user with administrative permissions.

From the administration interface, select "Inventory Agents":



## 2. Inventory Agent

Add a new agent configuration using the appropriate command:



If available, you can use the appropriate template to preconfigure the agent for Lansweeper.

The template includes precompiled configuration and schema JSON, as well as preconfiguring the adapter (Lansweeper) and the code and description:

Save Save and Exit Templates

**LANSWEEPER**

**GENERAL**

Code \*  
LANSWEEPER Enable  
Yes

Description  
Lansweeper Agent Adapter \*  
Lansweeper

Configuration \*

```

1 {
2   "EndPoint": "https://api.lansweeper.com/api/v2/graphql",
3   "PatToken": "Token [REDACTED]"
4 }
5

```

Schema \*

```

1 {
2   "entities": [
3     {
4       "name": "Asset",
5       "internalField": "Asset",
6       "filter": "",
7       "order": 1,
8       "key": "assetBasicInfo.assetUnique",
9       "fields": [
10        {
11          "name": "assetBasicInfo.assetUnique",
12          "internalField": "InventoryNumber"
13        },
14        {
15          "name": "assetCustom.serialNumber",
16          "internalField": "SerialNumber"
17        },
18        {
19          "name": "assetCustom.modelNumber",
20          "internalField": "PartNumber"
21        },
22        {
23          "name": "assetBasicInfo.name",
24          "internalField": "FullDescription"
25        },
26        {
27          "name": "assetCustom.model",

```

## 2. Inventory Agent

In the "Configuration" field, remember to upload the token obtained from Lansweeper.

Below is an example of the configuration JSON, where the asterisks should be replaced with the Personal Access Token:

```
{  
  "EndPoint": "https://api.lansweeper.com/api/v2/graphql",  
  "PatToken": "Token *****"  
}
```

### 3. Lansweeper Schema

## Activating a new inventory agent

The configuration of the schema requires, as for all other agents, the definition of:

- Entities involved
- Filters used
- Import order
- Field used as key
- Field Mapping
- Any relationships

Below is an example of a schema that imports iPhone-type hardware assets as smartphone-type assets into HDA, associating the user with them by name:

```
{
  "entities": [
    {
      "name": "Asset",
      "internalEntity": "Asset",
      "filter":
        "{\"filters\":{\"conjunction\": \"AND\", \"conditions\": [{\"operator\": \"LIKE\", \"path\": \"assetBasicInfo.type\", \"value\": \"iPhone\"}]}}\",
      "order": 1,
      "key": "assetBasicInfo.assetUnique",
      "fields": [
```

```

{
  "name": "assetBasicInfo.assetUnique",
  "internalField": "InventoryNumber"
},
{
  "name": "assetCustom.serialNumber",
  "internalField": "SerialNumber"
},
{
  "name": "assetCustom.modelNumber",
  "internalField": "PartNumber"
},
{
  "name": "assetBasicInfo.name",
  "internalField": "FullDescription"
},
{
  "name": "assetCustom.model",
  "internalField": "Description"
},
{
  "defaultValue": "true",
  "internalField": "Active"
},
{
  "defaultValue": "C6",
  "internalField": "AssetCategoryID"
},
{
  "defaultValue": "A_S7C",
  "internalField": "AssetStatusID"
},
{
  "name": "assetBasicInfo.userName",
  "internalField": "ContactID",
  "lookupSourceEntity": "Contact",
  "lookupSourceField": "LastName",
  "lookupSourceKey": "ID"
}
],
"relations": []
}]
}

```

## 4. Entities

# Entities

Indicates which entities you want to import into HDA.  
The properties to configure are:

- **name:** indicates the name of the entity as defined in Lansweeper. Possible values are "Asset", "Software" and "User".
- **internalEntity:** indicates the corresponding entity in HDA, for example: "Asset", "User", "Account" etc...
- **filter:** Allows you to specify the filter in graphql format to use when requesting data from Lansweeper. The filter must then be configured based on the properties exposed by Lansweeper.

Filters are described in JSON format, which is then inserted into the filter property.

The filter specifies the logical conjunctions of the conditions (AND, OR) and the conditions themselves. Each condition consists of an operator (LIKE, IS, ISNOT, IN, NOTIN, etc.), a Path, which is a property of an object (e.g., the name of an asset or its description, or the user's username), and a comparison value used to filter the assets.

## 4. Entities

The example filter below allows you to select all assets that have the name "Esteban" in their username.

```
{\"filters\":{\n  \"conjunction\": \"AND\",\n  \"conditions\": [{\n    \"operator\": \"LIKE\",\n    \"path\": \"assetBasicInfo.userName\",\n    \"value\": \"Esteban\"\n  }]\n}
```

- **order**: This is used to indicate the import order of the various entities in case there is more than one.
- **key**: This property specifies the field that will be used as a unique key. Lansweeper names assets uniquely using a nomenclature they define, such as the MEC address for a network component, or a combination of IP address and subnet/Domain if present.
- **fields**: contains the field mappings. The fields property lists elements describing the mappings for each field to be imported into HDA.

## 5. Field Mapping

# Field Mapping

The mapping that describes how to import data extracted from Lansweeper into HDA is defined within the fields property of the schema.

The properties of each individual entry can be:

- **name:** name of the property extracted by Lansweeper (e.g. assetBasicInfo.userName)
- **internalField:** Name of the entity property to import into hda (e.g. ContactID)
- **lookupSourceEntity:** in case of lookup, the entity to use to look up the value to load within the field defined in internalField
- **lookupSourceField:** in case of lookup, field of the entity indicated in lookupSourceEntity on which to search for the value extracted from the Lansweeper property indicated in the name property.
- **lookupSourceKey:** in case of lookup, the name of the property from which to extract the value to be reported in the property indicated by internalField
- **defaultValue:** useful when you need to set a fixed value within a property indicated by internalField

## 5. Field Mapping

Below is an example of a lookup between the username extracted from a Lansweeper asset and the contact to be indicated in the HDA asset:

```
{
  "name": "assetBasicInfo.userName",
  "internalField": "ContactID",
  "lookupSourceEntity": "Contact",
  "lookupSourceField": "LastName",
  "lookupSourceKey": "ID"
}
```

The following example instead indicates a simple mapping between the value extracted from Lansweeper and an HDA field, in this specific case the serial number extracted from Lansweeper is set and set in the HDA serial number:

```
{
  "name": "assetCustom.serialNumber",
  "internalField": "SerialNumber"
}
```

## 5. Field Mapping

Below is an example of a lookup between the username extracted from a Lansweeper asset and the contact to be indicated in the HDA asset:

```
{  
  "defaultValue": "C6",  
  "internalField": "AssetCategoryID"  
}
```

The list of Lansweeper property names can be found in the online documentation at this link:

[Lansweeper types specification.](#)

Generally, asset properties are divided into two categories: `assetBasicInfo` and `assetCustom`.



Thank you!  
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