

ServiceNow integration with FileWave

ServiceNow can be provided with device inventory information from FileWave to make the ServiceNow experience much more accurate and rewarding. Previously, a ServiceNow portal app was required to supply this FileWave data, but as of version Orlando of ServiceNow that is no longer required, and the FileWave API can be used directly. This guide, provided as a courtesy for a non-FileWave related system, will show you how to bring the information gathered by FileWave inventory into ServiceNow using the API.

- Third Party Software**
ServiceNow is a third party application. The details provided are for example only and are unsupported by FileWave.

Step-by-Step Guide

Step 1: Create Data Source

System Import Sets > Administration > Data Sources > New

1. NAME: FileWave REST API
2. IMPORT SET LABEL: (empty)
3. IMPORT SET TABLE NAME: u_fw_api
4. TYPE: REST
5. FORMAT: JSON
6. PATH FOR EACH ROW: /values/values
7. DISCARD ARRAYS: ✓
8. EXPAND: ✓
9. DATA IN SINGLE COLUMN: (unchecked)
10. APP: Global
11. REQUEST ACTION: Hit the "click here" and create one (see Step 2)

The screenshot shows the 'New Data Source' form in ServiceNow. The 'Name' field is 'FileWave REST API'. The 'Type' is 'REST (Integration)' and the 'Format' is 'JSON'. The 'Path for each row' is '/values/values'. The 'Discard arrays' and 'Expand' checkboxes are checked. The 'Data in single column' checkbox is unchecked. The 'Request action' is 'GET FW REST'. The 'Application' is 'Global'. There is a 'Click here to understand how to configure a Data Source Request Action' link.

Step 2: Create Request Action

1. NAME: GET FW REST
2. ACCESSIBLE FROM: All application scopes
3. CATEGORY: (empty)
4. PROTECTION: —None—
5. DESCRIPTION: (empty)
6. APPLICATION: Global
7. IN-FLOW ANNOTATION: (empty)
8. Then hit "Submit"

(You should be redirected to the Flow Designer for GET FW REST...see Step 3)

The screenshot shows the 'New Request Action' form in ServiceNow. The 'Name' is 'GET FW REST'. The 'Accessible From' is 'All application scopes'. The 'Category' is empty. The 'Protection' is 'None'. The 'Application' is 'Global'. The 'In-Flow Annotation' field has a placeholder text: 'Type what you would like to have appear right under the Action title in the flow Designer view'. The 'Description' field is empty.

Step 3, Part 1: Create in Flow Designer

Create in FLOW DESIGNER, Select #1 "REST step"

- Connection Details -

- CONNECTION: Define connection inline
- CREDENTIALIAL ALIAS: (empty)
- USE MID: (unchecked)
- BASE URL: https://YOUR.FILEWAVE.FQDN:20445/inv/api/v1/query_result_extended/

-Request Details-

- BUILD REQUEST: Manually
- RESOURCES PATH: (empty)
- HTTP METHOD: POST

The reason this is a POST is so we don't rely on an inventory query that might be changed.

Customize the fields portion as needed.

This is an example of custom fields. If the field named "asset_tag" does not exist in your system, this will cause an error.

```
{
  "column": "asset_tag",
  "component": "CustomFields"
}
```

- QUERY PARAMETERS: (empty)
- HEADERS:
 1. Name: Authorization
Value: Your Users Application Token (FW Admin >

The screenshot shows the ServiceNow Flow Designer for the 'GET FW REST' flow. The 'Action Outline' shows a 'REST step' selected. The 'Connection Details' section shows the 'Connection' as 'Default Connection', 'Credential alias' as empty, 'Use MID' as unchecked, and 'Base URL' as 'https://your.filewave.com:20445/inv/api/v1/query_result_extended/'. The 'Request Details' section shows 'Build Request' as 'Manually', 'Resources Path' as empty, and 'HTTP Method' as 'POST'. The 'Request Content' section shows a JSON body with 'column' and 'component' fields.

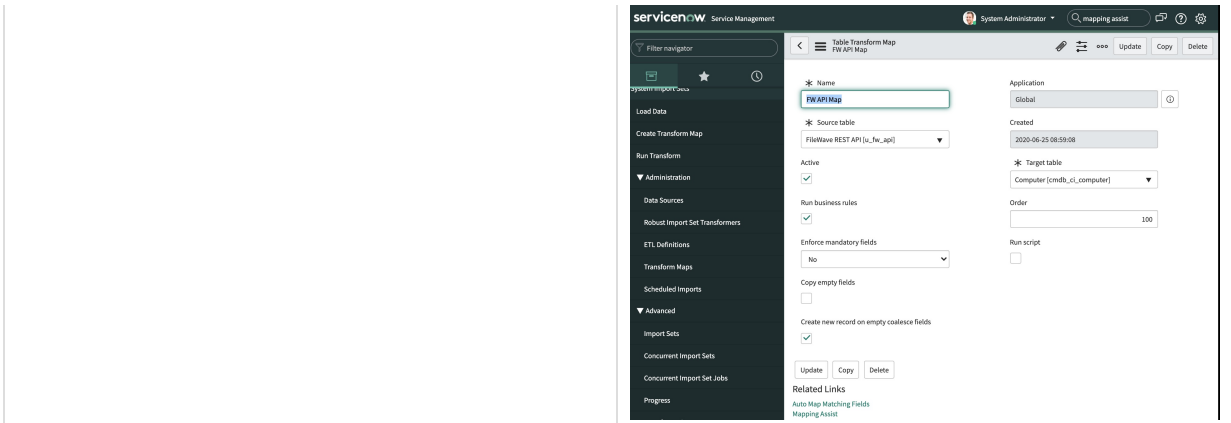
- Assistants > Manage Administrators > (select admin) >
Application Tokens > (Copy the base64: e.g.
aalkjdIAKJDlakjdALKdsjaldksja=)
2. Name: Content-Type
Value: application/json

-Request Content-

- REQUEST TYPE: Text
- REQUEST BODY: - See "Request JSON" example below:

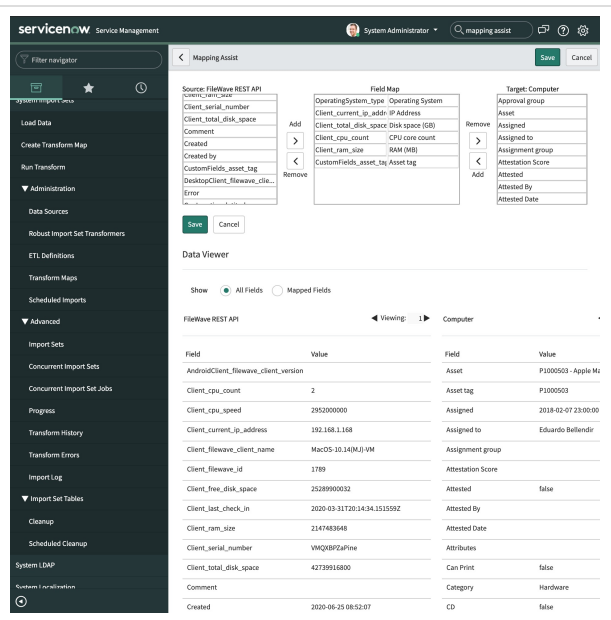
Request JSON

```
{
  "criteria": {
    "expressions": [
      {
        "column": "filewave_client_name",
        "component": "Client",
        "operator": "is_not",
        "qualifier": null
      },
      {
        "column": "last_check_in",
        "component": "Client",
        "operator": "!=",
        "qualifier": null
      }
    ],
    "logic": "all"
  },
  "fields": [
    {
      "column": "filewave_id",
      "component": "Client"
    },
    {
      "column": "filewave_client_name",
      "component": "Client"
    },
    {
      "column": "current_ip_address",
      "component": "Client"
    },
    {
      "column": "last_check_in",
      "component": "Client"
    },
    {
      "column": "latitude",
      "component": "GeoLocation"
    },
    {
      "column": "longitude",
      "component": "GeoLocation"
    },
    {
      "column": "type",
      "component": "OperatingSystem"
    },
    {
      "column": "version",
      "component": "OperatingSystem"
    },
    {
      "column": "filewave_client_version",
      "component": "AndroidClient"
    },
    {
      "column": "filewave_client_version",
      "component": "DesktopClient"
    },
    {
      "column": "cpu_count",
```

Select “Mapping Assist” under Related Links
You should be able to map a lot of the client's information, for example...

FileWave	ServiceNow
operatingsystem_type	Operating System
client_cpu_count	cpu_count
client_current_ip_address	ip_address
client_ram_size	ram
customfields_asset_tag	asset_tag
client_total_disk_space	disk_space
operatingsystem_version	os_version
client_cpu_speed	cpu_speed
client_filewave_client_name	name
client_serial_number	serial_number
...	



You can make more maps, like this example for location data:

Scroll down to the “Transforms” tab and select “New”

- NAME: FW Location Map
- SOURCE TABLE: (should auto fill the u_fw_api table)
- ACTIVE: ✓
- RUN BUSINESS RULES: ✓
- ENFORCE MANDATORY FIELDS: No
- COPY EMPTY FIELDS: (unchecked)
- CREATE NEW RECORD ON EMPTY COALESCE FIELDS: ✓
- APPLICATION: Global (disabled)
- CREATED: (disabled)
- TARGET TABLE: Location [cmn_location]
- ORDER: 100
- RUN SCRIPT: (unchecked)

Select “Mapping Assist”

FileWave	ServiceNow
geolocation_latitude	latitude
geolocation_longitude	longitude
client_filewave_client_name	Name

Once you're finished, save your data, update the Table Transform Map form and continue to next steps.

Part 4: Schedule the Job

Schedule the job

Schedule the import task you just created...recommend at least daily.

System Import Sets > Administration > Scheduled Imports.

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