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Why is Service Graph Connector Program

Service Graph Connector is plug and play method to bring 3rd party data correctly and quickly into CMDB

With Service Graph, third-party data now powers an ever-expanding set of missioncritical capabilities—everything from application portfolio rationalization, DevOps pipeline automation, and autonomous cloud operations through to risk assessment and mitigation, service ROI assessment, and more. Because of this, data quality, timeliness, and ingestion scalability are more critical than ever.

The Service Graph Connector Program is designed to ensure this data quality, timeliness, and scalability. It does this by applying systematic use case validation,

CSDM governance, and design best practices to Service Graph Connector development. Some examples include:

- Consistently associating data with specific Configuration Item (CI) types—for instance, always assigning IP addresses to network interfaces rather than a mix of interfaces and servers. This ensures that client applications know where to find data.
- Using the ServiceNow® Identification and Reconciliation (IRE) engine to correctly identify and classify data before it is loaded into Service Graph. This prevents duplicate CIs and ensures that attribute values are consistent across multiple data sources.
- Using ServiceNow® integration Hub ETL functionality so that data is transformed and loaded in the fastest and most efficient manner.
- Using ServiceNow® Service Graph multisource engine which enables customers to understand the context of the CI, compare data from different sources and easily revert if data issues are encountered—leading to easier data sarged better data quality.

Service Graph Connector for JAMF

Use the Service Graph Connector for Jamf to pull data from the Jamf into your ServiceNow instance.

The Service Graph Connector for Jamf pulls data from computers, disks, networks, and software into the ServiceNow® Configuration Management Database (CMDB) application.

ServiceNow provides: -

- Guided Setup
- CMDB Integration Dashboard
- Data Mappings

***Bring macOS and iOS hardware and software application data into CMDB



Data Mapping

Data from the Jamf data source is mapped and transformed into the ServiceNow CMDB Configuration Item (CI) class definitions using the Robust Transform Engine (RTE). Data is inserted into the ServiceNow CMDB using the Identification and Reconciliation Engine (IRE).

When you complete the guided setup, you can configure the integration to periodically pull data from Jamf.

The data is loaded into the following tables:

- SG-Jamf Computers [sn_jamf_integrate_sg_jamf_computers] staging table
- SG-Jamf Lookup Mac Software Bundle Ids [sn_cmdb_int_util_mac_software_bundleid_lookup] table. If you want to view
 the publisher information for applications installed on Mac devices, run this table before running SG-Jamf Computers or
 SG-Jamf Mobile Devices.
- SG-Jamf Mobile Devices [sn_jamf_integrate_sg_jamf_mobile_devices] table
- SG-Jamf Remove Computers Software [sn_jamf_integrate_jamf_remove_software] table Note: Removes the imported computer software data that were later deleted from the source.
- SG-Jamf Remove Mobile Software [sn_jamf_integrate_remove_mobile_software] table Note: Removes the imported mobile software data that were later deleted from the source.
- SG-Jamf Software Usage [sn_jamf_integrate_jamf_software_usage] table



Target Tables into ServiceNow

The data is then inserted into the following target tables:

- CI Relationship [cmdb_rel_ci]
- Computer [cmdb ci computer]
- Disk [cmdb_ci_disk]
- Handheld Computing device [cmdb_ci_handheld_computing]
- IP Address [cmdb_ci_ip_address]
- Network Adapter [cmdb_ci_network_adapter]
- Printer [cmdb_ci_printer]
- Serial Number [cmdb_serial_number]
- Software [cmdb ci spkg]
- Software Installation [cmdb sam sw install]
- Software Instance [cmdb_software_instance]
- Software Usage [samp_sw_usage]

Note: For the Computer [cmdb_ci_computer] and Handheld Computing device [cmdb_ci_handheld_computing] data sources, if you created multiple Jamf instances and want to know where the CIs originated from, you can identify the origins from the Key and Value columns. Additionally, you can view the Jamf Extension Attributes [sn jamf integrate extension attribute] and Most recent discovery [last discovered] fields in both data sources.







Set up authentication credentials and a scheduled job to import Jamf data into your CMDB.

- 1.) Install Plugin of Service Graph Connector for Jamf (ld: sn_jamf_integrate)
- 2.) Navigate to All > Service Graph Connector > Jamf > Setup
 - 2.a) Configure the Properties

Configure transform JSON max partial length - com.glide.transform.json.max-partial-length (value : 65536)

Note - You must add this system property to set the desired value.

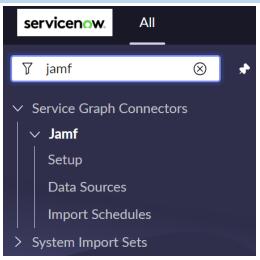
When you synchronize third-party learning content with your ServiceNow instance, if the word count of the content being pulled into your instance exceeds the value set for this property, the synchronization will fail.

Filter personal applications - By default, SG-Jamf imports all applications records. To import only managed application records records, set the sn_jamf_integrate.import_managed_apps_only property value to true.

- 2.b) Configure the Connection
 - i.) Select JAMF Pro version and API Select JAMF Pro version or Use JAMF Pro API
 - ii.) Configure Jamf authentication credentials Use Jamf User Name & Password
- Note: The Jamf user must have a role with read privileges for Computers so that the integration can pull computer data.
- The Jamf user must have a role with read privileges for Mobile Devices so that the integration can pull mobile device data.
- **iii.) Configure Jamf HTTP connection** Update the Connection URL field with the base URL. The base URL is the hostname or IP address of your Jamf instance. The Connection URL field should follow the format https://<Insert Base URL>
- 3.) Test the connection to the JAMF
- (Test the connection from guided setup or from Data Source by Click Test Load 20 Records related links from the Data Sources of Jamf)
- 4.) After successful connection, Run Scheduled Data Imports of Parent Data Source to load the data into ServiceNow CMDB.

Note: - Service Graph Connector provides OOTB Robust Transform Map functionality to populate data into multiple CMDB tables sangeeta-yadav-

Navigation Bar for Jamf



After Installation of the Plugin of Service Graph Connector for Jamf, Setup the properties & Credentials for the connection of ServiceNow and Jamf

All > Application = Service Graph Connector for Jamf



Data Sources

Import Schedules



Run Data source Name Q run_type data source Search Search Search SG-Jamf Computer Daily **SG-Jamf Computers SG-Jamf Mobile Devices** After Parent Runs SG-Jamf Mobile Devices SG-Jamf Remove Mobile SG-Jamf Remove Mobile Daily Software Software **SG-Jamf Remove Computers SG-Jamf Remove Computers** Daily Software Software SG-Jamf Lookup Mac Lookup Mac Software Bundle After Parent Runs Software Bundle Ids lds

Steps for Jamf Integration



Configure the Properties

Configure transform JSON max partial length System Property com.glide.transform.json.max-partial-length | sys_properties [scratchpad][table fields][toggle label] com.glide.transform.json.max-partial-lengt * Name | name Application | Global sys_scope Description | description Choices | choices string | string Type | type Value | value 🖺 </>

- i.) Configure transform JSON max partial length Switch to the 'global' scope.
- Create or set System Property (sys_properties) with name "com.glide.transform.json.max-partial-length" and set its value to "65536".

 NOTE: This property is required for transform to work.
- <u>ii.) Filter personal applications</u> By default, SG-Jamf imports all applications records. To import only managed application records records, set the sn_jamf_integrate.import_managed_apps_only property value to true.
 - NOTE: Enabling this property will import only managed application.



Configure the Connection

Select JAMF Pro version and API



Select JAMF Pro version

Set the value of 'Jamf Pro 10.35 or higher' to true if your JAMF instance is version v10.35 or higher.

Use JAMF Pro API

- Set the value of 'Use JAMF Pro API' to true in order to enable use of Jamf Pro API for querying Computer records. This new Jamf Pro API supports pagination of response data and is expected to provide significant performance improvement over Jamf Classic API.
- In order to setup the endpoint URI for the new Jamf Pro API, please ensure that the Base Path field is clear when configuring Jamf HTTP Connection in the following step.

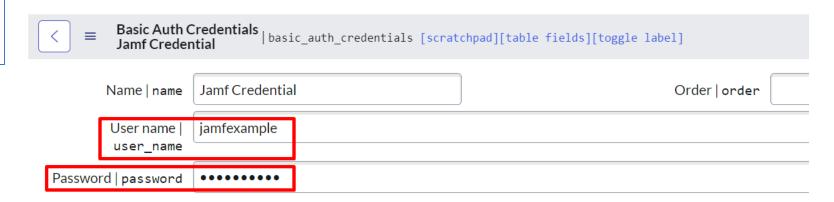
For more information about the Jamf API, see the Jamf Developer documentation.



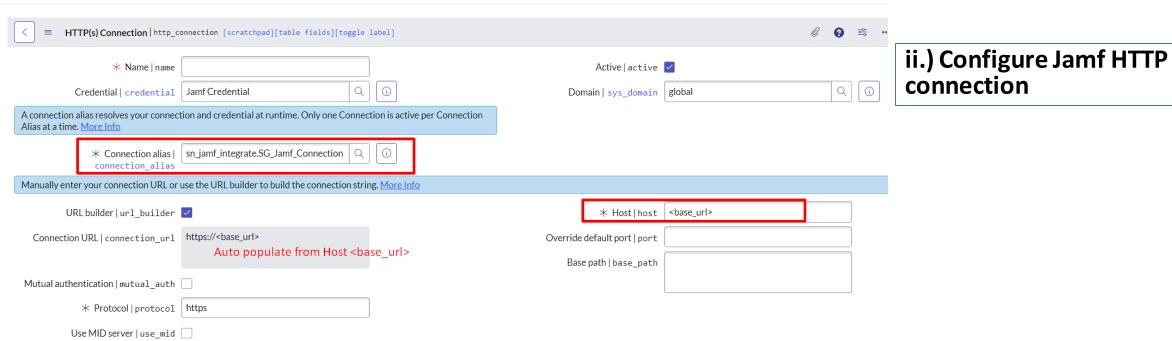
Configure the Connection

i.) Configure Jamf authentication credentials

Configure Jamf authentication credentials

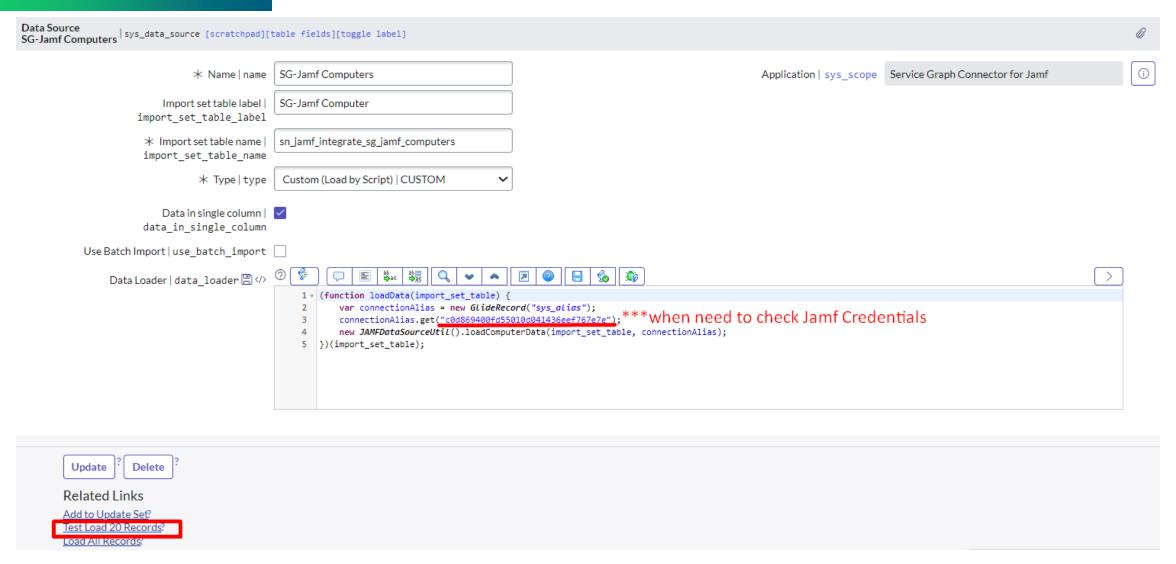


Configure Jamf HTTP connection





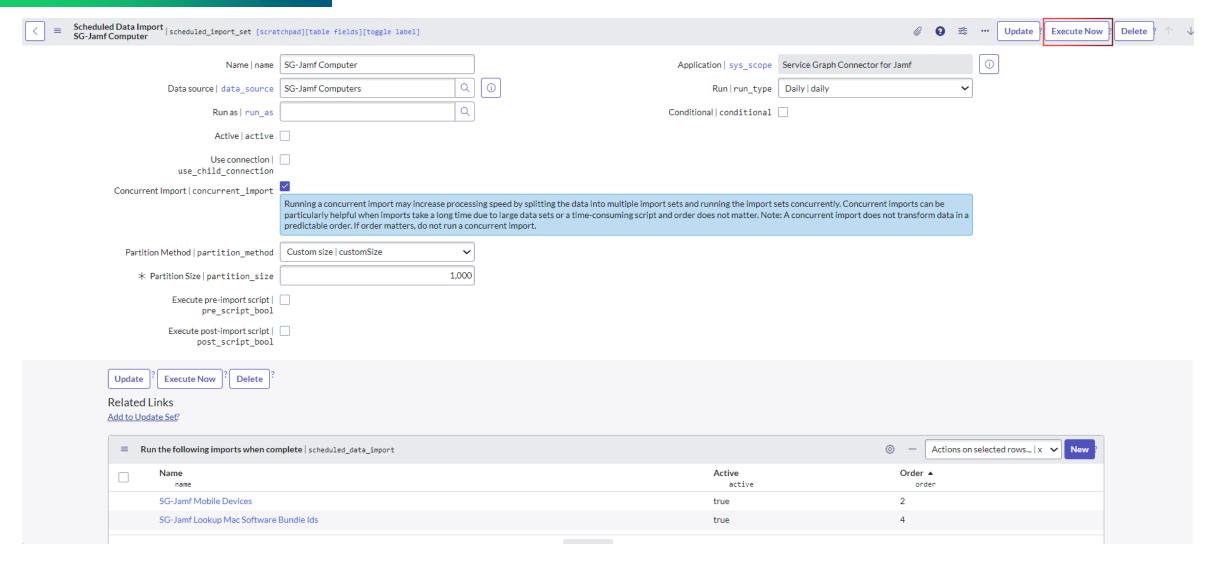
Test Connection



Test the Connection - Test Load 20 Records only test connection, doesn't load data into ServiceNow.



Scheduled Data Imports



Execute Now for on demand Run of Data Import. Run the Parent Data import, After completion of Parent Data Import, other chaining Data Import Set will automatically run.



THANK

YOU

