



Junos Space

Service Now — Administration

Release 1.2

Juniper Networks, Inc.

1194 North Mathilda Avenue
Sunnyvale, California 94089
USA

408-745-2000

www.juniper.net

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Chapter 1

Administration Overview

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Administration Overview

Service Now allows you to monitor and manage device data with the help of AI-Scripts that are installed on a device. When AI-Scripts are installed on a device, the device is AIS enabled. It can then automatically detect and report incidents and informational JMBs (iJMBs).

Devices with AI-Scripts installed, periodically send device data, in the form of Information Juniper Message Bundles (iJMBs) to Service Now . This information can then be viewed by the user. Using Service Now you can add and manage devices, upload AI-Script bundles, and install the AI-Scripts on the devices. Devices that are part of the Junos Space platform can be added to Service Now and grouped under organizations.

An organization is defined by a unique site id that is a unique identifier of a customer record in Juniper Networks CRM systems. After creating an organization, you can test its connectivity with JSS and even run it in test mode. JSS provides support for the incidents and iJMBs that you submit depending on your service contract level. J-Care Efficiency, Continuity or Agility levels of service are required to use Service Now.

If you are a Juniper Networks partner or a direct customer with multiple distinct networks, you can use multiple Service Now organizations to keep customers or networks separate. Service Now organizations are defined by the site ID (used when opening support cases) under devices and users. Also, by associating an organization with one or more device groups, you can maintain groups of devices with similar attributes and control which users have access to which devices. Device groups also help you automatically install AI-Scripts on many devices at one time.

The Service Now sidebar includes a Getting Started section that guides the administrator through the initial setup required to get the application up and running. This section lists four required and two optional tasks. Clicking the task links displays the respective pages in the Inventory panel where these tasks can be performed. The required tasks include, creating an organization, adding devices to Junos Space and Service Now, and creating a device group. The optional tasks include the reviewing of the global settings and the adding of a script bundle to Service Now.

The Administration page graphically displays information about devices with respect to the device group they belong to, whether these devices are sending device snapshots periodically, and also the devices that have never sent device snapshots to Service Now. Using the Administration tab, you can perform the following tasks:

- Add devices to Service Now from the Junos Space platform.
- Add or delete a script bundle.
- Install or uninstall AI-Scripts on devices.
- Add, modify, or delete devices and device groups.
- Associate devices to device groups.
- Add, modify, or delete an organization.
- Run an organization in test mode.
- Test organization connectivity to JSS.
- Export device data in CSV and Excel formats.
- Configure the global settings (SNMP server and proxy server settings).
- View service contract details.

For more information, see the Junos Space documentation on the technical documentation page.

Related Topics

- Service Now Devices Overview on page 13
- Device Groups Overview on page 9
- AI-Scripts Overview on page 21
- Organizations Overview on page 3
- Configuring Global Settings on page 25
- Service Contract on page 31

Chapter 2

Organizations

- Organizations Overview on page 3
- Adding an Organization on page 4
- Modifying Organization Parameters on page 5
- Deleting an Organization on page 6
- Test the Connection to JSS on page 6
- Running an Organization in Test Mode on page 7

Organizations Overview

An organization in Service Now represents a unique Clarify site ID in Juniper Support Systems (JSS). Clarify Site IDs are used by JSS to identify customers when providing technical support. Multiple organizations can be defined in Service Now, which allows you to manage multiple sites (each with its own Clarify site ID) with one Service Now installation. This is done by dividing the network into multiple logical customer sites. To communicate with JSS, a Service Now organization requires a site ID, login name, and password. The login name must be a contact associated with the site ID.

Device groups are used to group devices within an organization. By associating an organization with one or more device groups, you can maintain groups of devices with similar attributes or uses. Using device groups, you can control which service now users have access to which devices. See “Device Groups Overview” on page 9.

For more information about creating device groups, see “Creating a Device Group” on page 9.

While you configure organizations or run Service Now in a preproduction environment, you can to avoid the processing of production incident cases. In this mode, the synopsis of the incident is appended with [Test] and JTAC will recognize the case as a test case and not process it.

From the Organizations page, you can:

- Add an organization
- Modify organization parameters
- Run an organization in test mode
- Test connectivity to JSS
- Delete an organization

- Related Topics**
- Adding an Organization on page 4
 - Modifying Organization Parameters on page 5
 - Running an Organization in Test Mode on page 7

Adding an Organization

An organization in Service Now represents a unique Clarify site ID in Juniper Support Systems (JSS). Clarify Site IDs identify customers when JSS provides technical support. Multiple organizations can be defined in Service Now, which allows you to manage multiple sites (each with its own Clarify site ID) with one Service Now installation. This is done by dividing the network into multiple logical customer sites. To communicate with JSS, a Service Now organization requires a site ID, login name, and password.

To add a Service Now organization:

1. From the Service Now task ribbon, select **Administration > Organizations > Add Organization**. The Add Organization dialog box is displayed.

2. Enter the organization parameters in the provided fields. For a detailed description of these fields, see Table 1 on page 4.
3. Click **Submit**. This action verifies and saves the organization parameters and returns to the Organization page.

Table 1 on page 4 defines the Add Organization dialog box fields.

Table 1: Organization Credentials Page Field Descriptions

Name	Description	Privileges	Range/Length	Default
Name	Name of the organization	Service Now Admin Privileges	64 characters	Blank

Table 1: Organization Credentials Page Field Descriptions (continued)

Name	Description	Privileges	Range/Length	Default
Site ID	An identifier for the Customer Site in the JTAC Clarify system.	Service Now Admin Privileges	80 characters	Blank
Submit cases as	Describes whether the case that is sent to JSS is a real case or a test case that is sent in a production environment. The synopsis of a test case sent to JSS is appended with [Test Mode].	Service Now Admin Privileges	<ul style="list-style-type: none"> Real Cases Test Cases 	Disabled
User Name	The name used to identify the user for communications with the JTAC Clarify system, such as creating cases, and checking for updates to existing cases.	Service Now Admin Privileges	32 characters	Blank
User Password	The password used to login, for the account with the above user name.	Service Now Admin Privileges	32 characters	Blank
Confirm User Password	The password for confirmation must match the value in User Password field.	Service Now Admin Privileges	32 characters	Blank

- Related Topics**
- Organizations Overview on page 3
 - Running an Organization in Test Mode on page 7

Modifying Organization Parameters

The parameters for the organization that you create can be modified. To do this, you need Service Now Admin privileges.

To modify the parameters of an organization:

1. From the Service Now task ribbon, select **Administration > Organizations**. The Organizations page is displayed.
2. Select the organization whose parameters you wish to modify.
3. Click **Modify Organization** from the Actions panel. The Organizations dialog box displays the name, site ID, submit cases as, user name, and password of the selected organization.
4. Make your changes to these parameters.
5. Click **Submit**. The changes are saved in the Service Now database. To view these changes, view the details of the organization in the Organizations page.

- Related Topics**
- Organizations Overview on page 3
 - Running an Organization in Test Mode on page 7

Deleting an Organization

The Service Now Organizations page allows you to delete organizations. To do this, you need Service Now Admin privileges.

To delete an organization:

1. From the Service Now task ribbon, select **Administration > Organizations**. The Organizations page is displayed.
2. Select the organization that you want to delete.
To delete more than one organization, use the **Multiple** tab.
3. Click **Delete Organization** from the Actions panel. The Delete Organizations dialog box asks you for a confirmation.
4. Click **Delete**. This organization is deleted from the Service Now database and no longer appears in the Organizations page.



NOTE: Deleting an organization also removes associated device groups.

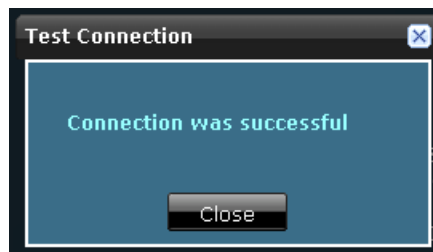
- Related Topics**
- Organizations Overview on page 3
 - Running an Organization in Test Mode on page 7

Test the Connection to JSS

From the Organizations page, you can test an organization's connectivity with Juniper Support Systems (JSS). This test can be performed with every organization in the table.

To test an organization's connectivity with JSS:

1. From the Service Now task ribbon, select **Administration > Organizations**. The Organizations page is displayed.
2. Select the organization whose connection to JSS you want to test.
3. Click **Check Status** from the Actions panel. The Test Connection dialog box displays the result of the test connection to JSS, as a success or a failure. In case of a failure, a description is displayed, stating the reason for the failure in connection.



4. Click **Close** to return to the Organizations page.

- Related Topics**
- Organizations Overview on page 3
 - Running an Organization in Test Mode on page 7

Running an Organization in Test Mode

While configuring an organization, you can enable the test mode to submit cases as test cases to avoid the processing of production incident cases. In this mode, the synopsis of the incident that is being submitted to JTAC is appended with [Test].

To :

1. From the Service Now task ribbon, select **Administration > Organizations**. The Organizations page is displayed. If the table is empty, you need to add organizations.
2. Select the organizations that you want to place in test mode.
3. Select **Modify Organization** from the Actions list. The Organization dialog box displays the parameters of the selected organization.
4. Set the **Submit Cases as** drop-down menu value to **Test Cases**.
5. Click **Submit**. This action ensures that incidents that are submitted to JSS are considered as test cases.

- Related Topics**
- Organizations Overview on page 3
 - Modifying Organization Parameters on page 5

Chapter 3

Device Groups

- Device Groups Overview on page 9
- Creating a Device Group on page 9
- Modifying Device Groups on page 10
- Deleting Device Groups on page 11

Device Groups Overview

Device groups are used to group devices within an organization. By associating an organization with one or more device groups, you can maintain groups of devices with similar attributes or uses. One or more devices can be associated to every device group.

Only users with Service Now admin privileges can configure device groups.

From the Device Groups page in Service Now, you can perform the following tasks:

- Creating and Adding Devices to a Device Group
- Modifying Device Groups
- Deleting Device Groups

Related Topics

- Creating a Device Group on page 9
- Modifying Device Groups on page 10
- Deleting Device Groups on page 11

Creating a Device Group

Device groups are used to group devices within an organization. Only users with Service Now admin privileges can create device groups and add devices to them.

To create a device group:

1. From the Service Now task ribbon, select **Administration > Device Groups > Create Device Group**. The Create Device Group page is displayed.

2. Enter a name for the device group within the **Name** field. The name must begin with a letter and can have only alphanumeric (a-z, 0-9), underscores(_), and hyphens (-).
3. In the **Organizations** drop-down list, select an organization for this device group. If you want to add a new organization, click **New Organization**. See “Adding an Organization” on page 4.
4. Select the devices that you want to add to this device group.
5. Click **Finish**. The selected devices are added to the device group. To verify that the devices have been added, you can view the details of the device group in the Device Groups page.

- Related Topics**
- Device Groups Overview on page 9
 - Modifying Device Groups on page 10

Modifying Device Groups

You can modify the parameters of a device group in Service Now.

To modify a device group:

1. From the Service Now task ribbon, select **Administration > Device Groups**. The Device Group page lists the existing device groups.
2. Select the device group whose parameters you wish to modify.
3. Click **Modify Device Group** from the Actions list. The Modify Device Group dialog box displays the parameters of the selected device group.

4. Make your modifications. Use the **Device Groups** navigation panel on the right to add or delete devices from the selected device group.
5. Click **Finish**. The changes are submitted and new values are replaced in the Service Now database. You are taken back to the Device Groups page.

- Related Topics**
- Device Groups Overview on page 9
 - Deleting Device Groups on page 11
 - Creating a Device Group on page 9

Deleting Device Groups

If you have Service Now admin privileges, you can delete device groups.

To delete a device group:

1. From the Service Now task ribbon, select **Administration > Device Groups**. The Device Groups page lists the existing device groups.
2. Select the device group that you want to delete.
To delete more than one device group, use the **Multiple** tab.
3. Click **Delete Device Group** from the Actions panel. The Delete Device Group dialog box asks you for a confirmation.
4. Click **Delete**. The selected device group is deleted from the Service Now database and no longer appears on the Device Groups page.

- Related Topics**
- Device Groups Overview on page 9
 - Modifying Device Groups on page 10

Chapter 4

Devices

- Service Now Devices Overview on page 13
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- Associating Devices to a Device Group on page 19

Service Now Devices Overview

Service Now allows you to group network elements and manage multiple devices in a single entity called a device group. Service Now lists the devices that are already a part of the Junos Space platform and allows you to import them to Service Now. These devices periodically send device information to Service Now for monitoring purposes. The devices that do not send device information (device snapshots) for more than 2 weeks are detected and displayed by Service Now. After you add devices and create device groups, you can perform various operations on them such as editing their parameters and deleting them from the Service Now database. You can even install or uninstall AI-Scripts individually on every device or on all the devices in a device group at once.



NOTE: When you upgrade from Junos Space 1.1, the destination URL configured on devices is invalid and JMBs are not sent to Service Now. To be able to receive JMBs, AI-Scripts must be reinstalled on all devices. See “Installing AI-Scripts on Devices Using Service Now” on page 15.

From the Service Now Devices page in Service Now you can perform the following tasks:

- Add devices from the platform
- Install AI-Script on devices
- Uninstall AI-Script from devices

- Export device data into CSV and Excel format
- Modify device parameters
- Delete devices
- Associate devices to a device group

Related Topics

- Adding Devices from the Platform on page 14
- Installing AI-Scripts on Devices Using Service Now on page 15
- Uninstalling AI-Scripts from Devices on page 17
- Exporting Device Data in CSV and Excel Format
- Modifying Device Groups on page 10
- Deleting a Device on page 18
- Associating Devices to a Device Group on page 19

Adding Devices from the Platform

You can add devices that are a part of the Junos Space platform to the Service Now application. While you add these devices, you can assign them to a device group, and also install AI-Scripts on them.



NOTE: Devices that are discovered and added to the Junos Space platform are automatically added to the Service Now application. However, if Service Now is in demo mode, only the first five devices will be added.

To add devices from the Junos Space platform to Service Now:

1. From the Service Now task ribbon, select **Administration > Service Now Devices > Add Devices**. The Add Device from Platform page displays the devices that have not been added to Service Now.

Select Devices to Add to Service Now and Click Next or Finish					Add Devices	
<input type="checkbox"/> Host Name	Network Name	SSH User Name	SSH Password	Device Status	Add Devices	
<input type="checkbox"/> puppy	10.204.92.75	regress	*****	Imported	Install AI Scripts	
<input type="checkbox"/> junoscopea	10.204.92.63	regress	*****	Imported		

2. Select the devices that you want to add.
3. (Optional) To install script bundles on the selected devices, click **Install AI Scripts** or click **Next**, and check the **Install AI Scripts on new Devices** check box. For more information on installing AI-Scripts on devices, see “Installing AI-Scripts

on Devices Using Service Now” on page 15. If you are unable to install AI-Scripts, ensure that the device has proper login credentials and belongs to a device group.

4. Click **Finish**. The devices are added to Service Now. They will appear on the Service Now Devices page and the device **Status** column displays **Imported**.

Related Topics ■ Service Now Devices Overview on page 13

Installing AI-Scripts on Devices Using Service Now

AI-Scripts installed on Juniper Networks devices provide the information needed to automatically detect and report problem (incident) and information events, thus ensuring maximum network uptime. Service Now uses Juniper Network’s Device Management Interface (DMI) to install and uninstall AI-Scripts on devices. DMI is an extension to the NETCONF network management protocol.

To install AI-Scripts on devices:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Service Now Devices page is displayed.
2. Select the device on that you want to install the script bundle. To select more than one device, use the **Multiple** tab.



NOTE: You can install AI-Scripts only on devices that have proper login credentials and belong to a device group.

3. Click **Install AI-Scripts** from the Actions panel. The Install AI-Script dialog box is displayed.

4. Select a script bundle from the **AI-Script Bundle Name** drop-down list, which shows the script bundles managed by Service Now.

If you want to add a new script bundle, click **Add Script Bundle**. For more information on how to add a script bundle, see “Adding a Script Bundle to Service Now” on page 22.

5. If you do not want to save a copy of the script bundle file during installation on the device, select **Never store Script Bundle files on the device** check box.
6. If you want to remove the Script bundle after successful installation on the device, select the **Remove Script Bundle files after successful installation** check box.
7. If you want to perform the installation later, select the **Schedule a Later Time** check box, and specify the **Start Date and Time** for the installation. The installation process will begin automatically at the time you specify.
8. Click **Submit**. The AI-Script installation task will be scheduled and the Job Information window displays the job ID as follows.



To verify the status of the AI-Script installation task on the selected devices, click the job ID link. The Manage Jobs page displays the status of the job.

- Related Topics**
- AI-Scripts Overview on page 21
 - Installing AI-Scripts Manually on Devices on page 16
 - Adding a Script Bundle to Service Now on page 22

Installing AI-Scripts Manually on Devices

AI-Scripts can also be installed on JUNOS devices manually using the CLI mode. To install AI-Scripts manually:



NOTE: For manual installation of AI-Scripts on a device, you require the login credentials used to discover devices in Junos Space.

1. Copy the AI-Script bundle (example: jais-2.1R2.0-signed.tgz) to the JUNOS device using SCP or FTP.
2. In the configuration mode, execute the following commands:

```
set groups juniper-ais system scripts commit allow-transients
set groups juniper-ais system scripts commit file jais-activate-scripts.slax optional
set groups juniper-ais interfaces lo0 unit 0 family inet address 127.0.0.1/32
set groups juniper-ais event-options destinations juniper-aim archive-sites
"scp://<user>@127.0.0.1:/var/tmp" password <password for user>
```
3. Install the AI-Script bundle in the CLI mode using the command

```
request system scripts add <full-path>/jais-2.1R2.0-signed.tgz
```


The AI-Script will be installed on the device.

- Related Topics**
- Installing AI-Scripts on Devices Using Service Now on page 15
 - Adding a Script Bundle to Service Now on page 22

Uninstalling AI-Scripts from Devices

Service Now allows you to uninstall AI-Scripts from devices. You will not be able to uninstall these scripts from devices that do not have proper login credentials. Service Now uses Juniper Network's Device Management Interface (DMI) to install and uninstall AI-Scripts on devices. DMI is an extension to the NETCONF network management protocol.

To uninstall AI-Script from devices:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Service Now Devices page is displayed.
2. Select the device from that you want to uninstall the script bundle. To select more than one device, use the **Multiple** tab.
3. Click **Uninstall AI-Scripts** from the Actions panel. You will be asked to confirm that you want to uninstall the AI-Script from the selected device.
4. Click **Submit**. This uninstalls the AI-Script from the selected device.

- Related Topics**
- AI-Scripts Overview on page 21
 - Installing AI-Scripts on Devices Using Service Now on page 15

Exporting Device Data in CSV and Excel Format

You can export Service Now device data in CSV and Excel file formats. A CSV file is a plain text file that stores each data record separated by a comma. The XML file contains the hardware components installed in the selected device.

To export the device data in CSV and Excel format:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Service Now Devices page is displayed.
2. Select the device whose data you want to export.
To select more than one device, use the **Multiple** tab.
3. Click **Export Devices** from the Actions panel. The Export Devices dialog box displays the links to the CSV and Excel files.
4. Select the links to save the files in CSV and Excel file formats.

- Related Topics**
- Service Now Devices Overview on page 13
 - Deleting a Device on page 18

Modifying a Device

With Service Now Admin privileges, you can modify devices that are added to Service Now by installing AI-Scripts on them manually. However, devices discovered by the Space platform cannot be modified.

To modify the parameters of a device:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Service Now Devices page lists the Service Now devices.
2. Select the device that you want to modify.
3. Click **Modify Device** from the Actions panel. The Modify Device dialog box lists the parameters of that device.
4. Make the desired changes to the device parameters.
5. Click **Submit**. The changes are saved in the Service Now database. You can verify the changes on the Service Now Devices page.

- Related Topics**
- Service Now Devices Overview on page 13
 - Deleting a Device on page 18

Deleting a Device

When you delete a device, the device is deleted from Service Now, but it is not deleted from the Junos Space Platform. The incidents and JMBs related to the device are also deleted.

To delete a device from Service Now:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Devices page lists the Service Now devices.
2. Select the device that you want to delete.
To select more than one device, use the **Multiple** tab.
3. Click **Delete Devices** from the Actions panel. The Delete Devices dialog box asks you for a confirmation.
To delete more than one device, use the **Multiple** tab.
4. Click **Delete**. The selected device is deleted from the Service Now database and will no longer appear on the Devices page.

- Related Topics**
- Service Now Devices Overview on page 13
 - Modifying Device Groups on page 10

Associating Devices to a Device Group

Service Now allows you to associate devices to device groups.

To associate devices to device group:

1. From the Service Now task ribbon, select **Administration > Service Now Devices**. The Devices page lists the Service Now devices.
2. Select the device that you want to associate with a device group.
To associate more than one device, use the **Multiple** tab.
3. Click **Associate Device Groups** from the Actions panel. The Associate Device Groups dialog box is displayed.
4. In the Device Group drop-down list, select the device group that you want to associate with the selected device.
5. Click **Submit**. The device are associated to the selected device group. You can verify the changes on the Devices page, in the Device Group column.

- Related Topics**
- Service Now Devices Overview on page 13
 - Modifying Device Groups on page 10

Chapter 5

Script Bundles

- AI-Scripts Overview on page 21
- Adding a Script Bundle to Service Now on page 22
- Deleting a Script Bundle from Service Now on page 23

AI-Scripts Overview

When AI-Scripts are installed on a device, the device is AIS enabled. It can then automatically detect and report incidents and informational JMBs. This helps to ensure maximum network uptime. This section contains the following topics:

- What AI-Scripts Do on page 21
- Events Detected by AI-Scripts on page 21
- JMB Contents on page 22

What AI-Scripts Do

AI-Scripts perform the following functions:

- React to specific incident events that occur on devices and provide relevant information about the problems for analysis
- Periodically collect data on events that can be used to predict and prevent risks in the future.
- Package all incident and information event data into a structured format called a Juniper Message Bundle (JMB) and send it to Service Now. Service Now can be configured to send event data to Juniper Support Systems (JSS). JSS collects incident and device snapshots from Service Now and sends information messages back to Service Now specifically for your network.

AI-Scripts operate in a reactive (incident-driven) mode. When a trigger event occurs and is detected on a device, an AI-Script is executed. The AI-Script builds a Juniper Message Bundle (JMB) with event and router data, and sends it to Service Now. Each AI-Script corresponds to a specific device event. The list of device events that can be detected and reported will evolve over time.

Events Detected by AI-Scripts

AI-Scripts detect the following types of events:

- Common software events, including daemon and Packet Forwarding Engine crashes
- Common hardware events, such as PIC alarms
- Hardware platform-specific events, such ASIC issues

JMB Contents

The JMB for incidents and informational JMBs contains the following:

- Manifest—basic router and event data
- Trend data—device counters, statistics, and settings
- Attachments—show command output for the incident event.

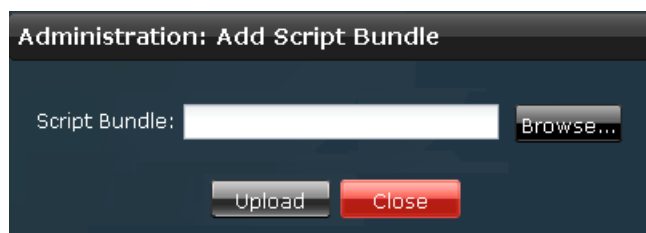
- Related Topics**
- Adding a Script Bundle to Service Now on page 22
 - Deleting a Script Bundle from Service Now on page 23

Adding a Script Bundle to Service Now

The Script Bundles page provides a central point for managing script bundles (also known as AI-Script install packages) that have been downloaded from the Juniper Networks software download site. The script bundles must be located locally to the system running the Service Now application. You need Service Now Admin privileges to add a script bundle.

To add a script bundle:

1. From the Service Now task ribbon, select **Administration > Script Bundles > Add Script Bundle**. The Add Script Bundles page is displayed.



2. Click **Browse**. The File Upload window is displayed.
3. Locate the script bundle and click **Upload**. The selected script bundle is uploaded into Service Now and is displayed on the Script Bundles page.

- Related Topics**
- AI-Scripts Overview on page 21
 - Deleting a Script Bundle from Service Now on page 23

Deleting a Script Bundle from Service Now

With Service Now Admin privileges, you can delete script bundles.



NOTE: The preloaded script bundle that is available in the application cannot be deleted.

To delete a script bundle:

1. From the Service Now task ribbon, select **Administration > Script Bundles**. The Script Bundles page lists the available script bundles.
2. Select the script bundle that you want to delete.
3. Click **Delete Script Bundles** from the Actions panel. The Delete AI-Scripts dialog box asks you for a confirmation of the delete operation.
4. Click **Delete**. Service Now deletes the script bundle from the database and returns to the Script Bundles page.

- Related Topics**
- AI-Scripts Overview on page 21
 - Adding a Script Bundle to Service Now on page 22

Chapter 6

Global Settings

- Configuring Global Settings on page 25
- Adding an SNMP Server on page 27
- Editing and Deleting an SNMP Server on page 29
- Configuring Proxy Server Settings on page 29

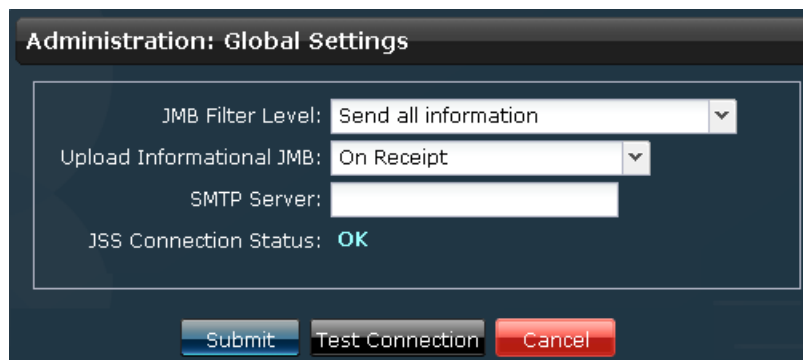
Configuring Global Settings

Service Now global settings allow you to do the following:

- Set the amount of information about your device configuration included in a JMB. The default is set to **Send All Information** to ensure that JTAC has access to the information needed to productively work on your technical support case.
- Set the interval to scan devices for informational JMBs.
- Set the SMTP server (IP address/ hostname).
- Verify Service Now to JSS connection status.

To configure Service Now Global settings:

1. From the Service Now task ribbon, select **Administration > Global Settings**. The Global Setting page is displayed.



2. Add your Service Now settings. For a description of the Global Setting page fields see Table 3 on page 26.

3. Click **Test Connection**. The connection to JSS is tested and the result is displayed as **JSS Connection Status**.
4. Click **Submit**. This action saves the Service Now settings that you specified and updates the Service Now service with these new settings.

Table 2 on page 26 describes the Global Setting page command buttons.

Table 2: Global Settings Command Button

Button Name	Description	Privileges	Enabled/Disabled	Results
Submit	Saves any modified Service Now global settings and updates the Service Now service with these new settings.	Service Now Admin Settings	Enabled if you have admin privileges	Saves settings that were modified.
Cancel	Stops the submission of new settings.	Service Now Admin Settings	N/A	Navigates back to the Global Settings page without saving the entries.
Test Connection	Tests the organization connectivity with JSS.	Service Now Admin Settings	Enabled if you have admin privileges	Displays the JSS Connection Status as OK or Failed.

Table 3 on page 26 describes the Global Setting page fields.

Table 3: Global Settings Parameters

Name	Description	Privileges	Range/Length	Default
JMB Filter Level	<p>Specifies the amount of device configuration information in JMBs to be shared with JSS:</p> <ul style="list-style-type: none"> ■ Do not send—Sends no configuration information. ■ Send all information except configuration—Sends all device information except the configuration. ■ Send only list of features used—Sends only the device configuration information. ■ Send all information with IP Addresses overwritten—Sends all device information, except IP addresses ■ Send all information—Sends all device information. 	Service Now Admin privileges	N/A	Do not send

Table 3: Global Settings Parameters *(continued)*

Name	Description	Privileges	Range/Length	Default
Upload Information JMB	Specifies the interval at that any newly detected Information JMBs should be sent to JSS: <ul style="list-style-type: none"> ■ On Receipt ■ Daily ■ Weekly 	Service Now Admin privileges	N/A	On Receipt
SMTP Server	<ul style="list-style-type: none"> ■ IP Address: IP address of network management station where Service Now trap destination will be sent. ■ Host Name: Identifier used for network communication between Service Now and JUNOS device. For example, it can be a hostname (host-name.juniper.net) or an IP address. 	Service Now Admin privileges	255 characters	Blank
JSS Connection Status	Displays the status of connection from Service Now to JSS.	N/A	<ul style="list-style-type: none"> ■ Success — URL is responsive ■ No route to host ■ Connection refused ■ The Home Base server is temporarily unable to service your request 	Blank

- Related Topics**
- Organizations Overview on page 3
 - Configuring Proxy Server Settings on page 29

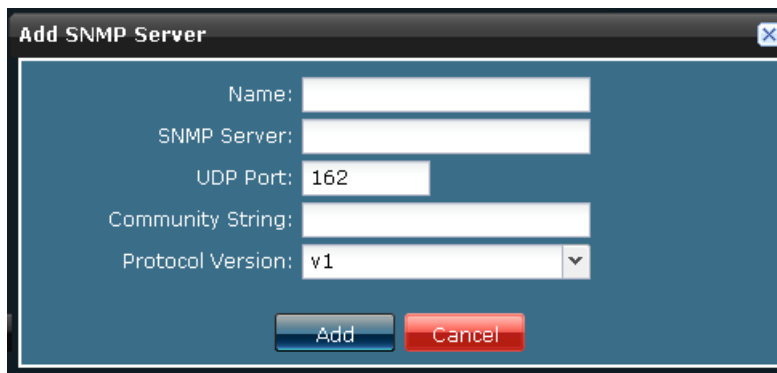
Adding an SNMP Server

You can specify a destination for SNMP traps to be sent when a Service Now notification policy is triggered. SNMP traps are sent to these destinations only when the notification policy specifies this action. In **Service Now > Administration > Global Settings > SNMP Configuration**, the specified trap destinations are displayed.

To add and manage SNMP servers, you must have Service Now administration privileges.

To add an SNMP server:

1. From the Service Now task ribbon, select **Administration > Global Settings > SNMP Configuration**. The SNMP Servers page is displayed.
2. Click **Add**. The Add SNMP Server dialog box is displayed.



3. Enter a name for the SNMP server, using alphanumeric values.
4. Enter the SNMP server that is the IP address or hostname of network management station where Service Now SNMP traps are sent. Do not use special characters.
5. Enter the UDP port. The User Data Protocol (UDP) port is a mechanism that allows a computer to simultaneously support multiple communication sessions with other computers and programs on the network. A port directs the request to a particular service that can be found at that IP address. The default UDP Port number is 162.
6. Enter a community string using only alphanumeric characters. A community string is a password that allows access to a network device. It defines the community of people that can access the SNMP information on the device.
7. Select the protocol version from the drop-down list box that specifies the SNMP versions.
8. Click **Add**. The specified SNMP server is added to the Service Now database.

Loading MIBs

When using a MIB browser or other SNMP trap receiver, such as HP OpenView to monitor the devices with SNMP, the following MIB files must be loaded. The file **jnx-smi.mib** must be loaded first:

1. jnx-smi.mib
2. jnx-ai-manager.mib

- Related Topics**
- Configuring Global Settings on page 25
 - Configuring Proxy Server Settings on page 29

Editing and Deleting an SNMP Server

SNMP servers are the destination for SNMP traps to be sent when a Service Now notification policy is triggered. You can modify the parameters of these SNMP servers and also delete them.

Editing an SNMP Server

To edit an SNMP server:

1. From the Service Now task ribbon, select **Administration > Global Settings > SNMP Configuration**. The SNMP Servers page is displayed.
2. Select the SNMP server whose parameters you want to modify.
3. Click **Edit**. The Edit SNMP dialog box is displayed.
4. Make the desired changes to the parameters.
5. Click **Save**. The changes are saved in the Service Now database. To verify, you can view the changes on the SNMP Servers page.

Deleting an SNMP Server

To delete an SNMP server:

1. From the Service Now task ribbon, select **Administration > Global Settings > SNMP Configuration**. The SNMP Servers page is displayed.
2. Select the SNMP server that you want to delete.
3. Click **Delete**. The selected SNMP server is deleted from the Service Now database and will no longer appear on the SNMP Servers page.

- Related Topics**
- [Configuring Global Settings on page 25](#)
 - [Configuring Proxy Server Settings on page 29](#)

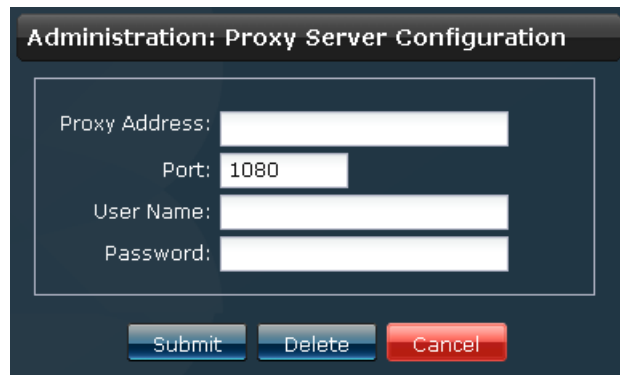
Configuring Proxy Server Settings

You can configure Service Now to work with a proxy server. When you connect to a proxy server, all communication to and from JSS happens through the proxy server. Both SOCKS and HTTP proxies are supported in Service Now.

The proxy server evaluates the request according to the filters specified. For example, it may filter traffic by IP address or protocol. When the request is validated, the proxy provides the resource by connecting to the relevant server and requesting the service on behalf of the client.

To configure the proxy server settings:

1. From the Service Now task ribbon, select **Administration > Global Settings > Proxy Server Configuration**. The Administration: Proxy Server Configuration dialog box is displayed.

The image shows a dialog box titled "Administration: Proxy Server Configuration". It has a dark blue header bar with the title in white. The main area is white and contains four input fields: "Proxy Address:" (a long text box), "Port:" (a short text box with "1080" entered), "User Name:" (a long text box), and "Password:" (a long text box). At the bottom, there are three buttons: "Submit" (blue), "Delete" (blue), and "Cancel" (red).

2. Enter the proxy address as a valid IP address or a valid hostname.
3. Specify the port on which the proxy server communicates with JSS. The default port number is 1080.
4. Enter the login user name for authentication.
5. Enter the password that will be used to login, for the account with the above user name.
6. Click **Submit**. The proxy server settings are saved in the Service Now database.

- Related Topics**
- Configuring Global Settings on page 25
 - Adding an SNMP Server on page 27

Chapter 7

Service Now Contract and User Roles

- Service Contract on page 31
- Service Now User Roles on page 32

Service Contract

The Service Contract task in Service Now displays the details of your Technical Support Contract purchased from Juniper Networks. When you log in to Service Now, the Service Now Notices gadget on the dashboard shows the status and provides updates about your contract. Service Now operates in the demo mode for 60 days. The demo mode allows Service Now to support one Service Now organization and five devices. You cannot open technical support cases with JSS when the application is in demo mode. The connection status to JSS will fail and the Service Now dashboard displays the following message:

Service Now is in the Demo Mode.

When you have a valid contract, the following message is displayed:

Service contract expires by yyyy-mm-dd hh:mm:ss.

If you have a Technical Support contract with the right level of service, you can add multiple devices and organizations, and upload incidents and iJMBs to JSS for support. To use Service Now you require J-Care Efficiency or Continuity or Agility levels of service.



NOTE: If at any point in time, the configured Site ID is invalid, you will be able to continue to use Service Now normally, but the processing of JMBs by JSS will fail.

When your support contract expires, Service Now will function for a 60– day grace period. The features supported in the licensed mode is supported in the grace period as well, but while processing incidents and iJMBs, you will receive a warning message. The dashboard will also display the following message:

Service Contract has expired: Remaining grace period is XX days.

After the grace period expires, information messages will not be processed in JSS. However, incidents will still be processed and you will receive a warning message.

To view the service contract details, and to check the status of your contract:

1. From the Service Now task ribbon, select **Administration > Service Contract**. The Service Contract page displays the details of the contract. See Table 4 on page 32 for a description of the Service Contract page fields.

Administration: Service Contract

Organization: TEST

Service Level: CONTINUITY_SERVICES

Service Type: PARTNER_SERVICES

Start Date: Jan 1, 2009 1:30:00 PM IST

End Date: Oct 9, 2009 12:30:00 PM IST

Last Verified: May 19, 2010 12:06:26 PM IST

[Refresh Contract](#) [Close](#)

2. Click **Close** to return to the Global Setting page.

Table 4: Service Contract Page Field Description

Field Name	Description
Organization Name	Name of customer or partner holding the appropriate Juniper Technical Support Contract.
Service level	Identifies the level of service that is offered —Efficiency Services, Continuity Services, Agility Services, Agility LTD Services.
Service type	Indicates whether the support services is purchased directly from Juniper Networks or through a Juniper Networks partner.
Start date	Starting date and time of the contract period.
End date	Ending date and time of the contract period.
Last Verified	The most recent date at which the contract was verified.

Related Topics ■ Administration Overview on page 1

Service Now User Roles

The Junos Space User Administrator creates users and assigns roles (permissions) that allow users to access and perform different tasks. You cannot view the tasks that you do not have access to.

You can create users and manage them on the Manage Users page, if you have User Administrator permissions. To create and manage these users, select **Application Switcher > Network Application Platform > Users > Manage Users**. The Manage Users page lists the existing users. Use this page to create and assign roles to Service Now users.

You can also navigate to the Manage Users page by selecting **Application Switcher > Jump to Users**.

Table 5 on page 33 describes the tasks that different users have access to, based on the roles assigned to them.

Table 5: User Roles and Permissions

Role	Permitted to Execute Tasks under the Following Sections	
Service Now Admin	Administration	Service Now Devices, New Device Platform. Script Bundle, Add Script Bundle. Organization, Add Organization. Global Settings, SNMP Configuration, Proxy Server Configuration. Device Group, Create Device Group. Service Contract.
	Service Central	Incidents, View Tech Support Cases. JMB Errors Information, Messages, Device Snapshots. Notifications, Create Notification.
Service Now Unrestricted User	Administration	Service Now Devices
	Service Central	Incidents, View Tech Support Cases. JMB Errors Information, Messages, Device Snapshots. Notifications, Create Notification. Permissions exclude the ability to delete managed objects.
Service Now Read Only User	Administration	Service Now Devices
	Service Central	Incidents, View Tech Support Cases. JMB Errors Information, Messages, Device Snapshots. Notifications Permissions exclude the ability to delete managed objects.

Incidents can be flagged or assigned only to a Service Now Admin or Service Now Unrestricted User. An information message or iJMB can be flagged or assigned to any user. Every user has the ability to clear a flag of an incident or information message that was flagged to them.

Related Topics ■ Administration Overview on page 1

Chapter 8

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