

Chapter 4

Setting Up Authentication Information

This chapter describes how to set up the JUNOScope software to connect to routing platforms on your network for configuration operations.

You can specify the authentication information (login and password for accessing a router) configured on a router for remotely connecting to that router from the JUNOScope software. The JUNOScope software supports secure sockets layer (SSL) and clear-text access protocols. We recommend that you set up authentication information and access methods before you set up routers.

You can import authentication information from another JUNOScope server or export it as backup or for importing to another server.

You must have superuser permissions to set up authentication information.

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Prerequisites for Authentication Information

You should know the authentication user account (login name and password) configured on the router for users to access that router. The user account information is configured on the router at the [edit system login] hierarchy level.

Understanding Authentication Information and Access Methods

If each router has the same username, password, and access protocol configured, you can set up one access method for all routers.

Different JUNOScope users can use the same authentication information to access a router if they all have the same permissions. If a user's permissions are different, you must create two different authentication information entries.

You can create two access methods using the same authentication information and different access protocols. Or you can create two access methods with the same selections but with a different access method name.

Adding Authentication Information

To add additional authentication information, follow these steps:

1. From the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.
2. Click Add. The Add Authentication Information dialog box appears.

The screenshot shows the JUNOScope web interface. The top navigation bar includes the Juniper Networks logo, the JUNOScope™ title, and links for Home, Help, About, and Logout. The user is logged in as 'admin'. The main menu includes Looking Glass, Configuration, Inventory Management, Monitor, and Settings. The 'Settings' menu is expanded, showing Authentication Information, Access Methods, Devices, Groups, Schedules, Users, and Import/Export Data. The 'Authentication Information' section is selected, and the 'Add Authentication Information' dialog box is displayed. The dialog box contains the following fields and values:

Authentication Information Name	my-authen-name
Username	userxyz
Password	*****
Confirm Password	*****

At the bottom of the dialog box, there are 'OK' and 'Cancel' buttons. The footer of the interface reads: Copyright 2003-2004, Juniper Networks, Inc. All Rights Reserved. Trademark Notice.

3. In the Authentication Information Name text box, type a name for the authentication information. This name will be listed in the Authentication Information drop-down list box in the Add Access Methods dialog box.

4. In the Username text box, type a user login name that is configured on the router. This must be the username of a valid user on the router.
5. In the Password text box, type a user password that is configured on the router. This must be the password of a valid user on the router.
6. In the Confirm Password text box, retype the user password to confirm it.
7. Click OK. The Authentication Information dialog box appears with the new authentication information listed.

Viewing Authentication Information

To view added authentication information, follow these steps:

1. From the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.

The screenshot shows the JUNOScope web interface. The top navigation bar includes 'Looking Glass', 'Configuration', 'Inventory Management', 'Monitor', and 'Settings'. The 'Settings' menu is expanded, and 'Authentication Information' is selected. The page title is 'Authentication Information'. Below the title is a table with the following data:

	Authentication Information Name	Username	Used By Access Methods
<input type="checkbox"/>	regress	regress	'regress-as-clear-text'

Below the table, there are radio buttons for 'Export Data Encryption Format':

- Encrypt sensitive data and provide key at import time
- Encrypt sensitive data and include decryption key
- Export sensitive data unencrypted

At the bottom of the table area, there are buttons for 'Add', 'Edit', 'Delete', 'Export', and 'Import'. The footer of the page reads: 'Copyright 2003-2005, Juniper Networks, Inc. All Rights Reserved. Trademark Notice.'

The authentication information is listed alphabetically by Authentication Information Name. From the Authentication Information dialog box, you can add, edit, delete, export, or import authentication information. Select the check box for the authentication information item to edit or delete.

2. Select one of the following ways to export authentication information from the JUNOScope software:
 - Encrypt sensitive data and provide key at import time—Sensitive data is exported encrypted and the key to decrypt it is not included in the exported data, but is supplied during import.

- Encrypt sensitive data and include decryption key—Sensitive data is exported encrypted, along with the key needed to decrypt the data. This lets you easily export authentication information to another system.
- Export sensitive data unencrypted—Sensitive data is not encrypted at export.

Editing Authentication Information

To edit existing authentication information that has changed on a router, follow these steps:

1. In the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.
2. Select the check box for the authentication information that you want to edit.
3. Click Edit. The Edit Authentication Information dialog box appears.

The screenshot displays the JUNOScope web interface. At the top, the Juniper Networks logo and 'JUNOScope™' are visible, along with navigation links (Home, Help, About, Logout) and the user 'admin' is logged in. The main navigation menu on the left includes 'Authentication Information', 'Access Methods', 'Devices', 'Groups', 'Schedules', 'Users', and 'Import/Export Data'. The 'Authentication Information' section is active, showing a breadcrumb trail: 'Home > Settings > Authentication Information'. Below this, the 'Edit Authentication Information' dialog box is open, featuring four input fields: 'Authentication Information Name' (my-authen-name), 'Username' (userxyz), 'Password' (masked), and 'Confirm Password' (masked). 'OK' and 'Cancel' buttons are located at the bottom of the dialog box. The footer of the interface contains the copyright notice: 'Copyright 2003-2004, Juniper Networks, Inc. All Rights Reserved. Trademark Notice.'

4. Edit the appropriate authentication information.
5. Click OK. The edited authentication information is listed in the Authentication Information dialog box.

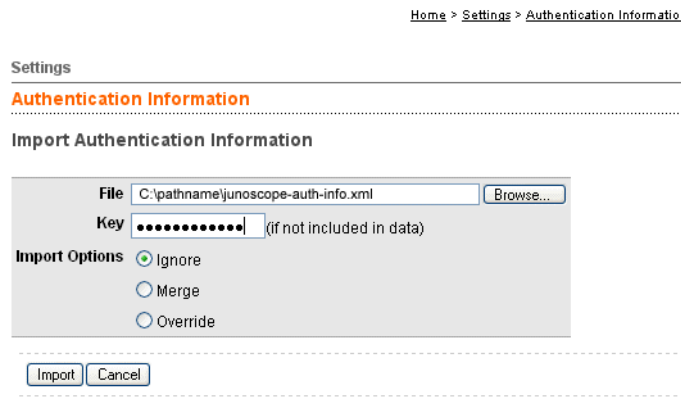
Importing Authentication Information

You can import authentication information from another JUNOScope server or by using the provided sample XML import file `export-import-sample.xml`, located on the JUNOScope server.

Importing authentication information is useful when you do not want to enter setup information manually.

To import authentication information, follow these steps:

1. In the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.
2. Click Import. The Import Authentication Information dialog box appears.



3. In the File text box, either browse to or type the name of the XML file that you want to import. For example, you can import the default `access.xml` file exported from another JUNOScope server, or use the `export-import-sample.xml` file as a guide to generate a file to import.

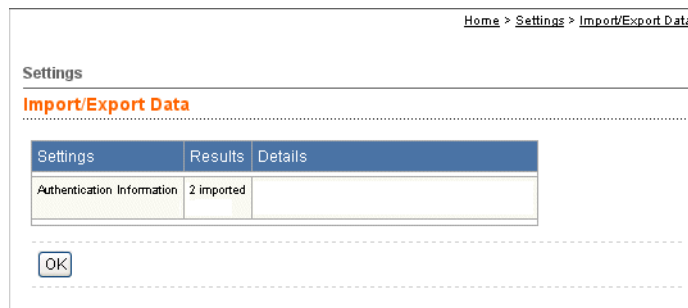


NOTE: The junoscope- XML file prefix is not generated if you use the Microsoft Internet Explorer 6.0 Web browser to export JUNOScope setup data. You will only see the `access` filename.

4. Type the key to decrypt the sensitive authentication information data that you want to import. The key is required if you selected not to include it when the data was exported. This key can be up to 16 characters long and was created during the JUNOScope installation.
5. To support synchronizing JUNOScope settings imported from multiple servers, select an import method to be used if a conflict occurs between existing records stored in the JUNOScope server and imported records. The available import method options include:
 - Ignore—(Default) An existing record stored in the JUNOScope server takes precedence over any imported record. The imported record is ignored and the existing record is not affected. Any imported record that does not exist in the JUNOScope server is inserted.

- Merge—If a record exists in the JUNOScope server and also exists in the imported record, the imported record merges with the existing record and is augmented as necessary. If an imported record is in conflict with an existing record, the imported record takes precedence over the existing record. The existing record is merged with the imported record; however, the fields of imported record take precedence over the fields of the existing record. Any imported record that does not exist in the JUNOScope server is inserted.
- Override—All records in the JUNOScope server are deleted, then all imported records are inserted. Before the override operation occurs, a message window appears with the following confirmation prompt: “The import with override option will delete all the existing records. Do you want to continue?” Select Yes or No to continue.

6. Click Import. The Import status dialog box appears.



The dialog box indicates the number of records imported successfully and unsuccessfully. The Details column provides a description for records that fail import.

7. Click OK. The imported data is listed in the Authentication Information dialog box.

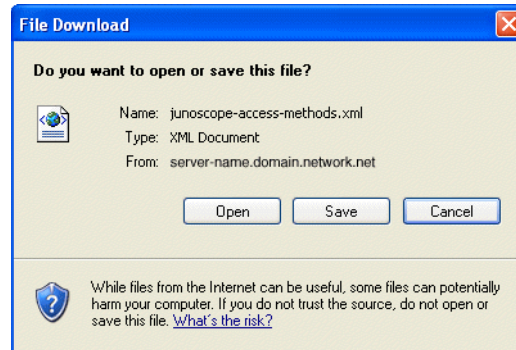
Exporting Authentication Information

You can export authentication information that you want to back up or import to another JUNOScope server.

To export authentication information, follow these steps:

1. In the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.

2. Click Export. The File Download dialog box appears.



3. Click Save to export the Authentication Information and save it to the local file system in a file named `junoscope-access-methods.xml`. Click Open to view the export file contents.

Deleting Authentication Information



NOTE: You cannot delete authentication information that is currently being used by an access method. You must first delete the access method, then delete the authentication information. You cannot delete an access method if it is currently being used by a device. You must first delete the device, then delete the access method.

To delete authentication information, follow these steps:

1. In the JUNOScope main window, click Settings > Authentication Information. The Authentication Information dialog box appears.
2. Select the check box for the authentication information that you want to delete.
3. Click Delete. The authentication information is deleted from the Authentication Information table.

