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Nastel Navigator Security

Manager User's Guide

Version 10

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Chapter 1: Introduction

Welcome to the *Nastel Navigator Security Manager User's Guide*. This guide explains how to maintain Nastel Navigator's Security Manager for user authorizations via the Security Manager, which is a web-based user interface. User authentication is managed via operating system (Windows), or via AutoPilot M6 security server. Nastel Navigator Security Manager will hereinafter be identified as Security Manager.

1.1 How this Guide is Organized

- *Chapter 1:* Introductory information about this document.
- *Chapter 2:* Explains how to access and use the web-based user interface.
- *Appendix A:* Reference information required for the operation of the Security Manager.
- *Appendix B:* A list of IBM MQ PCF Codes.
- *Appendix C:* A list of the Role Management rights and their explanations.
- *Glossary:* Listing of unique and common acronyms, words, and definitions.

1.2 History of this Document

Table 1-1. Document History

Release Date	Document Number	Version	Summary
November 2013	M6-SM 651.001	6.5.1	Mantis 8468 and 8636
May 2014	M6-SM 652.001	6.5.2	Mantis 6538, 7957, 8536
August 2014	M6-SM 653.001	6.5.3	Document number updated to reflect software version.
January 2015	M6-SM 654.001	6.5.4	Username is limited to 12 characters (Mantis 10713).
August 2017	M6-SM 660.001	6.6	Mantis 13595 (wildcard in audit report), 15792 (import xml file), updated Nastel's phone numbers and street address.
May 2019	M6-SM 660.002	6.6	Update Figure 1-1.
September 2019	M6-SM 660.003	6.6	Update Figure 1-1.
March 2020	M6-SM 667.001	6.7	Add JSON as a type of import file to section 2.9.1. Update section 2.9.2.
March 2020	NAV-SM 667.002	6.7	Update version number and Chapter 1.
August 2020	NAV-SM 10.001	10	Name and format updates throughout. Update chart in section 1.8. Update all screenshots.
September 2020	NAV-SM 10.002	10	Update Figure 1-1.

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December 2020	NAV-SM 10.003	10	Update product version number from 6 to 10.
April 2021	NAV-SM 10.004	10	Update section 2.9.3.
June 2021	NAV-SM 10.005	10	Updated figures in section 2.3. Add Principal Name.
June 2021	NAV-SM 10.006	10	Added Appendix C: Role Management Rights. Update Figure 1-1: Nastel Navigator Installation Support
November 2021	NAV-SM 10.007	10	Added new Dashboard, Attribute Filter, Message Criteria, and Environment Level rights for Navigator v10.3.
January 2023	NAV-SM 10.008	10	Improved definitions based on customer feedback. Added Solace, Kafka KSQL, and other new rights for Navigator v10.4 and v10.5. Updated supported platforms chart.

1.2.1 User Feedback

Nastel encourages all users of Nastel Navigator to submit comments, suggestions, corrections, and recommendations for improvement for all Nastel Navigator documentation. Please send your comments to *support@nastel.com.* You will receive a written response, along with status of any proposed change, update, or correction.

1.3 Related Documents

Complete listings of documents related to Nastel Navigator can be found in *Appendix A*.

1.4 Release Notes

See README.HTM file on installation media and root installation directory.

1.5 Intended Audience

This document is intended for personnel installing and using Nastel Navigator. The installer should be familiar with:

- Nastel Navigator
- Target operating system environment
- The installer may need administrative privileges for the target platform
- Apache-Tomcat
- The middleware system you utilize: IBM MQ, TIBCO EMS or Kafka

1.6 Terms and Abbreviations

A list of terms and abbreviations used in this document is located in the *Glossary*.

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1.7 Technical Support

For technical support, visit the *Nastel Resource Center*. You can also contact Nastel support by:

- Phone: within the United States dial 800-963-9822 ext. 1, for outside the United States dial
  001-516-801-2100
- E-mail: *support@nastel.com.*
- Support website: *http://support.nastel.com/*
  Contact your Nastel Navigator Administrator for access information.

1.8 Nastel Navigator Installation Support (32-bit/64-bit)

See *Figure 1-1* for Nastel Navigator Installation Support. This platform is for the workgroup server and databases supported. Agents may be available for other versions of operating systems and middleware versions. You should contact your support representatives if your platform is not listed.

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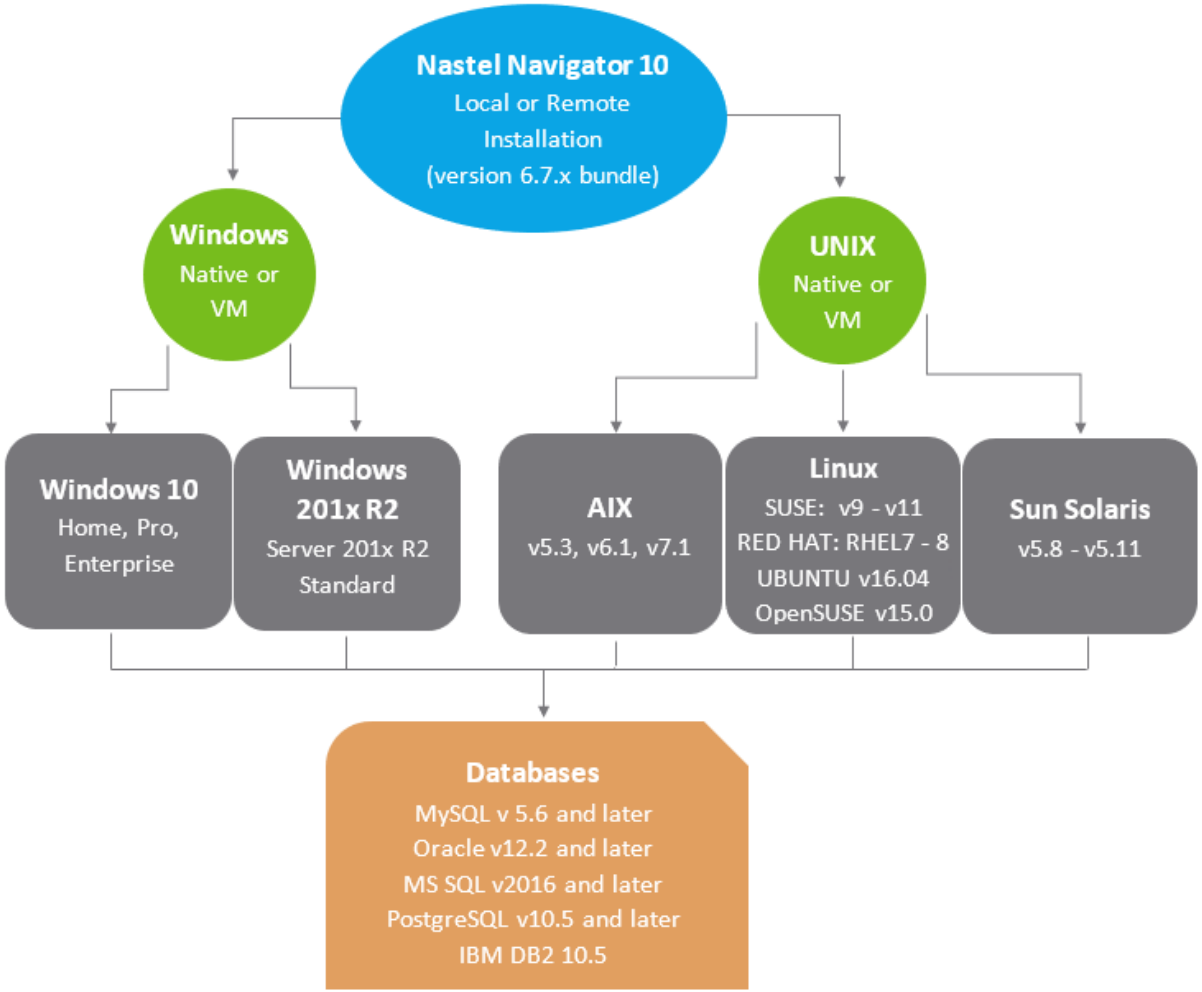

Figure 1-1. Nastel Navigator Installation Support

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Chapter 2: Web-Based User Access and Control

The Security Manager is the user interface for creating permissions for Nastel Navigator. It allows you to manage authority definitions and preserve them in the SQL database. Once authority records are created in the database, Nastel Navigator and the workgroup server use these definitions to determine the rights and privileges for accessing.

The key attributes of the security model are described below:

- **Users/Groups** – Users and Groups of Users as logged into Nastel Navigator, utilities, etc.
- **Roles** – The specific rights and permissions; that is what a user can "do".
- **MQ Server Group** – A set of queue managers to which a set of security definitions apply.
- **Application Group** – A set of queue channels to which a set of security definitions apply.
- **Audit** – Defines audit rules and when Audit entries are created
- **Trust profile** – Defines valid access points.

With this implementation, the attributes defined above while inter-related are defined separately allowing the tasks of managing them to done separately as well. For example, a security manager that needs to add new users only needs to be concerned with the users and the groups they belong to and not the details of the MQ privileges associated with that user. Similarly, if a new queue manager is added, and is part of the testing group, a single definition in the MQ server group is required. If a new application project is needed, the objects associated with that object can be defined.

When installed, the default definitions provide a number of sample configurations including a full access groups (Administrators) and limited access (Operators and Users). For initial familiarization, these groups can be used by adding specific users to match your configuration.

One of the key concepts to understanding the security manager is understanding the relationship between the key attributes defined above.

A user is associated with groups which are assigned a set of roles, these roles apply to a set of queue managers and a specific set of objects. For example, Admin is in the default Administrators Group is assigned an Administrator role (all capabilities) to All Queue Managers and All Objects, thus giving full control. As another example, User is defined as to the same Server Groups and Object groups but has limited capabilities to view only queues details.

If you have an existing **`permits.ini`** file, it can be used to create starter entries for use with Security Manager. *(Refer to Import File.)*

When beginning to use Security Manager, you should:

1. Review **Roles** – This defines what each user can do; that is, the features each role have access to. Default roles are Administrator, Agent, Message Browser and Admin,

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Operation, and View only. The available features are listed on the **Role Management** tab, where they can be assigned to each role.

2. Define the **Groups** – Create the groups (of users) that are going to use the product. Default Groups are Administrator, etc., but you can create custom groups.
3. Create **Users** and assign to the existing or newly created Groups.
4. Create **Server Groups** – Create specific groups for your Queue Managers.
5. Create **Object Group** – Create specific object groups that map to your applications.
6. Define the relationships between Groups, Servers, and Objects.

Regular Expressions

Security Manager uses regular expressions instead of simple masks for entries. This is a much more powerful facility that allows greater flexibility in setting up the security options. Regular expressions (regex) are verified before they are added to the database.

For example, using a mask for any name beginning with Prod would be:

Prod*

But using a regex, this would be defined as:

^Prod.*

The **^** symbol indicates that the name must start with Prod and "**.***" indicates that it can end with anything. A regex of Prod would match Prod anywhere in the name.

Another example, matching **Prod** or **prod** could be done as **(p|P)rod** or **(Prod|prod)**.

Regular expressions are dependent on the database in use, and you should refer to the appropriate documentation for what options are supported.

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2.1 Accessing Security Manager

To access the Security Manager, do the following:

1. Open the link: http://[*Host Name or IP address*]:[*port*]/apodwsm.

   (example: http://127.0.0.1:8080/apodwsm)

   The login screen is displayed

> **NOTE** Access to Security Manager is controlled by the underlying application server security. See the corresponding *administration guide* for the application server on how to enable user permissions and groups.

2. Enter the following:
   - **User ID**
   - **Password**

   Use **Reset** to clear the entry fields, as required.

Figure 2-1. Security Manager Logon

3. Click **Login.** The start screen is displayed *(Figure 2-2)*. Click on a tab to access the following functions:
   - User Management *(section 2.3)*
   - User Groups Management *(section 2.4)*
   - Role Management *(section 2.5)*
   - Server Group Management *(section 2.6)*
   - Object Group Management *(section 2.7)*
   - Audit Management *(section 2.8)*
   - Trust Management *(section 2.9)*.

2.2 Quick Start

2.2.1 How Do I Add a New User?

1. Click the **User Management** tab and create a user. *(Refer to section 2.3.1.)*
2. Click the **User Group Management** tab and assign the user to the appropriate group. *(Refer to section 2.3.2.)*

2.2.2 A User Left the Company. What Do I Do?

You can either delete or disable the user. Click the User Management tab and either delete the user record by clicking the **Delete** icon or disable the user by selecting **Disable**. *(See Figure 2-2.)* Disable will prevent user from accessing the system, but the user record will remain in the database. This option is useful if the user will be reactivated in the future.

2.2.3 How Do I Create a New Group?

1. Click the **User Group Management** tab and create a group. *(Refer to section 2.4.1.)*
2. Assign the respective roles to the group.
3. Assign users to the group (optional).

2.2.4 How Do I Define a New Application and Add it to a User?

1. Click the **Object Group Management** tab and create an object group. *(Refer to section 2.7.1.)* The object will now be added to the list of (shows up under edit user group roles)
2. Click the **User Group Management** tab. Edit the group to which you want to add the new object. Click the **Roles** tab and select the new object.

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2.3 User Management

The term *User* refers to the users of Nastel Navigator, whose privileges are managed using the Security Manager. This screen lists the current users as well as sample entries for:

- Default User
- Admin
- Developer
- Operator
- System
- User.

From here you can add new users and edit existing users.

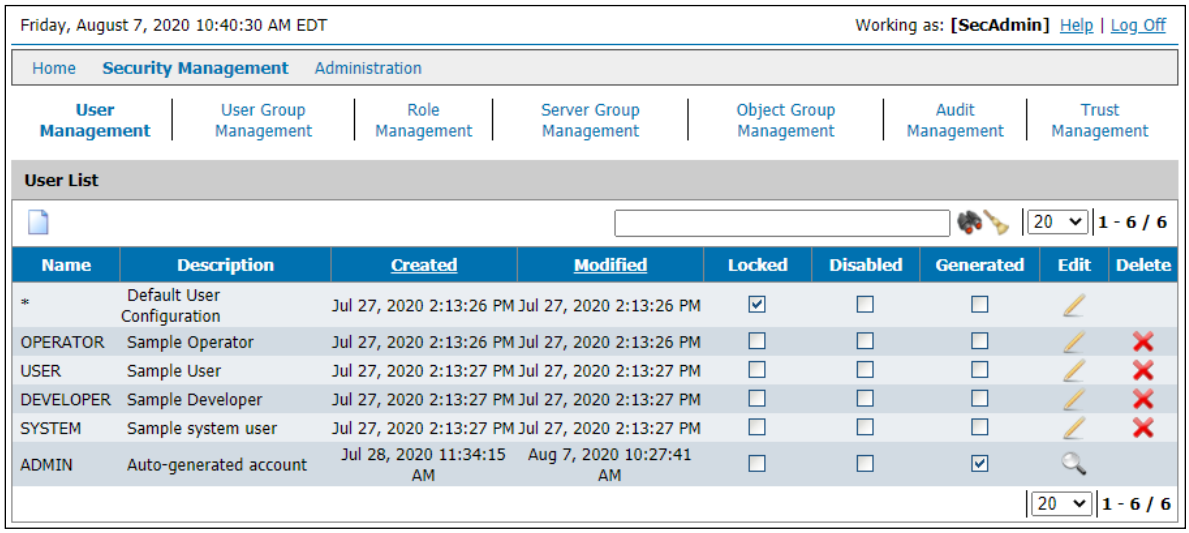

Figure 2-2. User List

A search field is on the top right of the screen to help find a specific user. The search is performed over both the **Name** and **Description** fields. Enter a name or partial name in the input field and click the search (binoculars) icon .

To clear the search criteria, click the clear (broom) icon .

Pagination tools (Figure 2-2A) are located to the right of the search and clear icons.

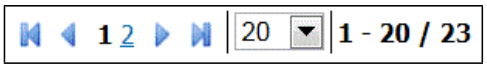

Figure 2-2A. Pagination Tools

Use the drop-down list to select the number of entries, in multiples of 20, per page. When the list exceeds 20 entries, additional tools display that allow you to navigate to the:

- first page – click the icon
- previous page – click the icon
- page number – select the page number

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- next page – click the icon
- last page – click the icon

Search, Clear, and Pagination tools are common to the other list pages in this application.

2.3.1 Add a New User

1. Click the **Add** icon to go to the *Add User* screen *(Figure 2-3)*.

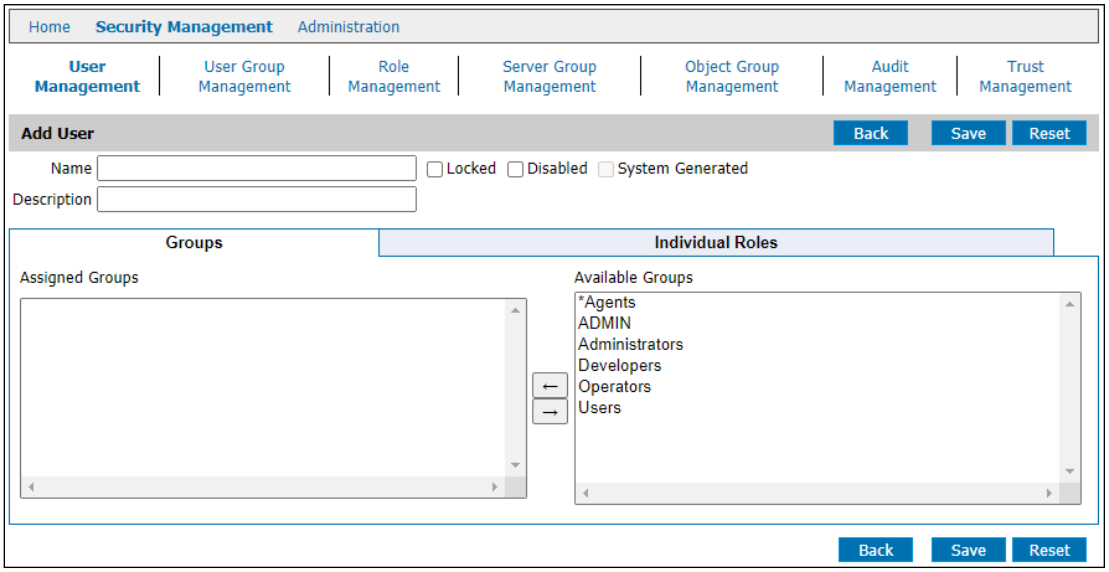

Figure 2-3. Add User – Groups Tab

2. Complete the following fields:

- **Name** – user name for logon. **User names are NOT case sensitive.** You cannot create a User with the same name as a Group. **User names must be limited to 12 characters.**

> **NOTE** User names that are longer than 12 characters can be managed by Security Manager, but when the user tries to connect, login will be unsuccessful.

- **Description** – Description of the user name, usually the user's actual name, but could be a generic name, like Tester.
- **Locked** – Selecting this option and clicking **Save** prevents two users from working on the same record at the same time. Default records are locked to indicate they should not be changed.
- **Disabled** – Disables the user from logging on. This can be used to set up users in advance of actually giving them access. It can also be used to disable a user rather than deleting them.
- **System Generated** – Not an input field. This box is checked if the user was created by importing a list of users from LDAP or some other system resource/application rather than being manually entered in Security Manager. *(Refer to section 2.10.)* These users are read-only. They cannot be changed or

deleted.

3. The most common way of giving permissions is assigning a user to a group. Use the arrow button to move an entry from the **Available Groups** pane to the **Assigned Groups** pane. Groups appear in the **Available Groups** pane after being created from the **User Groups Management** tab *(Figure 2-6)*.
4. Alternately, the user can be assigned one or more roles. This option is usually used when a user requires a custom set of permissions, rather than the standard permission set for Admin, Developer, Operator, System, and User etc. Click the **Individual Roles** tab. Select the role(s) for this user *(Figure 2-4)*.

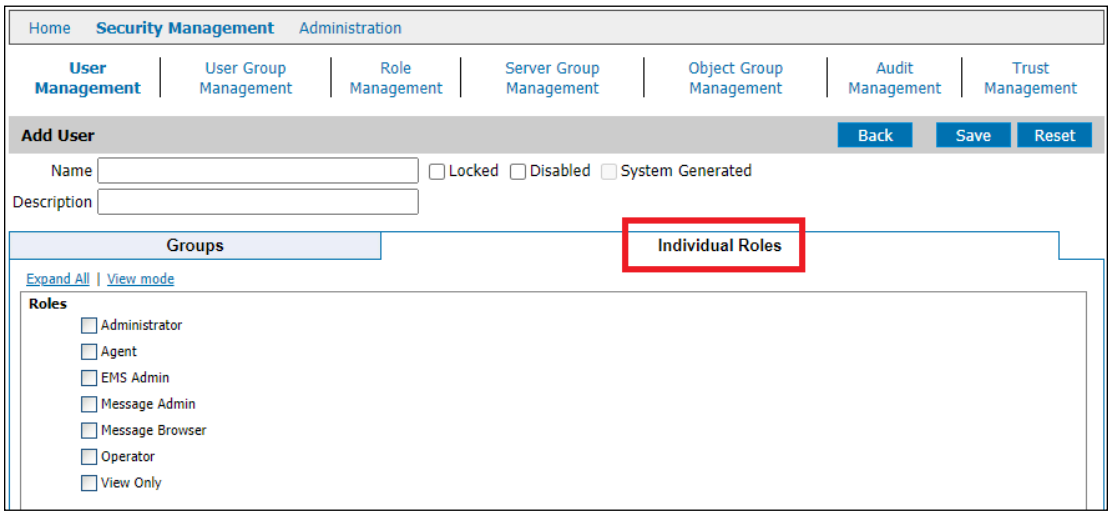

Figure 2-4. Add User – Individual Roles Tab

Other Controls:

- **Expand All** – expands the **Roles** tree
- **View mode** – toggles between **Edit mode** (allows you to select the required roles) and **View mode** (shows only selected roles)
- **Reset** – reverts to original settings
- **Back** – returns you to the previous screen without saving any changes.

NOTE

Users added dynamically by the workgroup server are listed here but cannot be edited; that is, the user record is locked.

5. Click **Save**. You are returned to the *User List* screen where the new user is listed.

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2.3.2 Edit an Existing User

1. Use the search field on the *User Management* screen to locate a specific user:
   a. Enter the user name or partial name and click the **Search** icon .
   b. Use the **Cleanup** icon to clear the search field and refresh the page.
2. Click the **Edit** icon to go to the *Edit User* screen *(Figure 2-5)*.

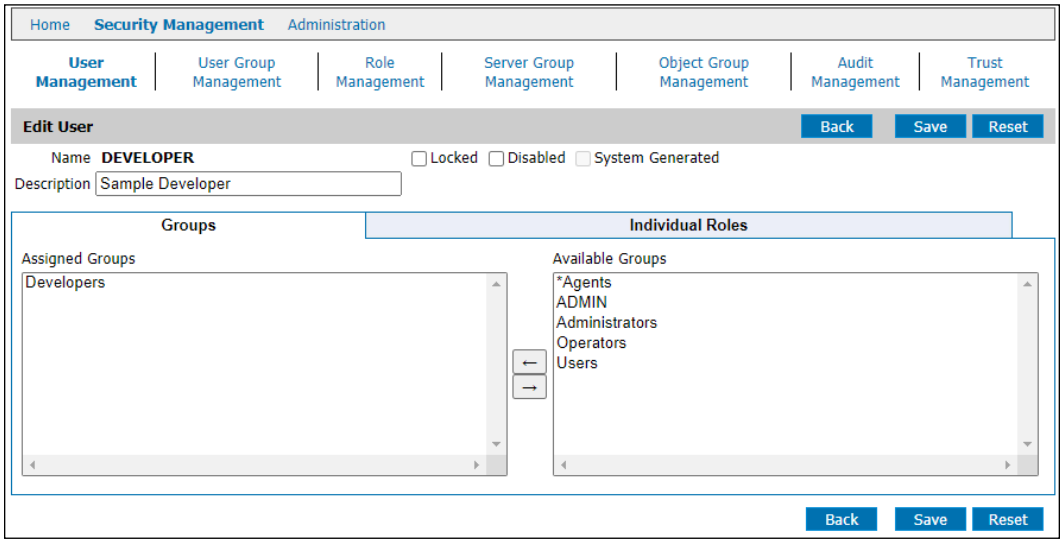

Figure 2-5. Edit User – Groups Tab

3. Change/add:
   - **Description**
   - **Locked**
   - **Disable**
   - **Groups**
   - **Individual Roles** (click tab)
4. Click **Save**. You are returned to the *User List* screen *(Figure 2-2)*.
5. To delete a user from the *User List* screen, click the **Delete** icon . A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.

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2.4 User Groups Management

Users can be combined into groups. This is useful when assigning roles/permissions. For example, put all testers are in a Group called "QA Testing" and assign the needed permissions (roles) to the group. Then when a new tester is hired, the Administer only needs to know to add the new hire to the "QA Testing" group, rather that the individual rights a tester needs. This screen lists the current Groups as well as sample entries for All User Groups, Administrators, Developers, and Operators, and Users. From here you can add new groups and edit existing groups.

NOTE

You cannot create a User and Group with the same name. Names are not case sensitive.

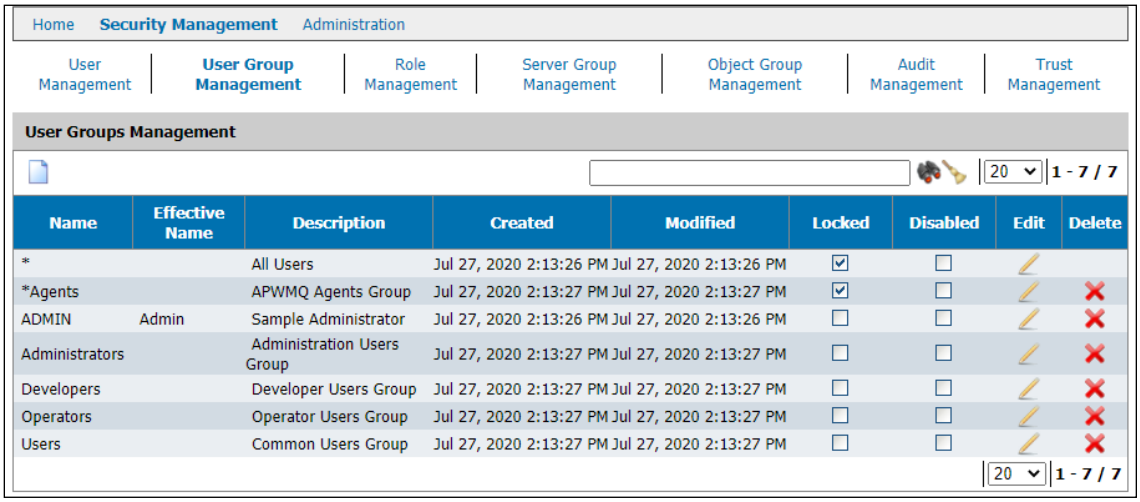

Figure 2-6. User Group Management

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2.4.1 Add a New User Group

1. Click the **Add** icon to go to the *Add User Group* screen.

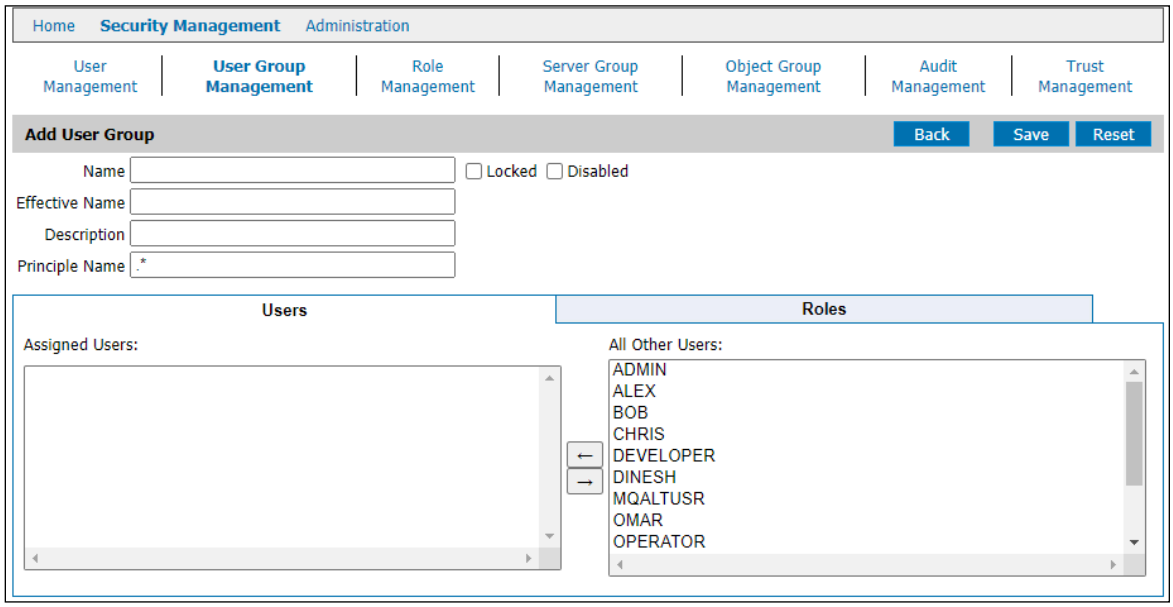

Figure 2-7. Add User Group – Users Tab

2. Complete the following fields:

- **Name** – group name
- **Effective Name** – The user passed to the IBM MQ agent/connection manager when processing message requests or performing actions, such as changing properties or starting channels. When the agent/CM is running with alternate user checks active (+u), this user will be one against which IBM MQ security definitions apply. If "=" is entered, it will use whatever the user logged in with as the effective name.
- **Description** – Description of the group name that is meaningful to you.
- **Principal Name** – For user groups that are assigned a role with the right to Access All Projects (such as the Administrator role), the **Principal Name** can be used to limit the selections in the Nastel Navigator Projects list, so that these high-level users can replicate the Navigator experience of other users who can't see all projects.
  Enter a regular expression to identify the *names of the user groups* whose Navigator experience you would like members of this higher-level user group to able to replicate. The Navigator Project list for this user group will then include *all unique descriptions* for these other user groups, whose purview is more limited.
- **Locked** – Selecting this option and clicking **Save** prevents two users from working on the same record at the same time. Default records are locked to indicate they should not be changed.

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- **Disabled** – Disables the user group and prevents access to it. This can be used to set up user groups in advance of actually giving them access. It can also be used to disable a user group rather than deleting it.

3. **Users** tab. Use the arrow button to move an entry from the **All Other Users** pane to the **Assigned Users** pane. Users appear in the **All Other Users Groups** pane after being created from the **User Management** tab *(Figure 2-3)*.
4. Click the **Roles** tab. Select the role(s) for this group. The list expands after a role is selected.

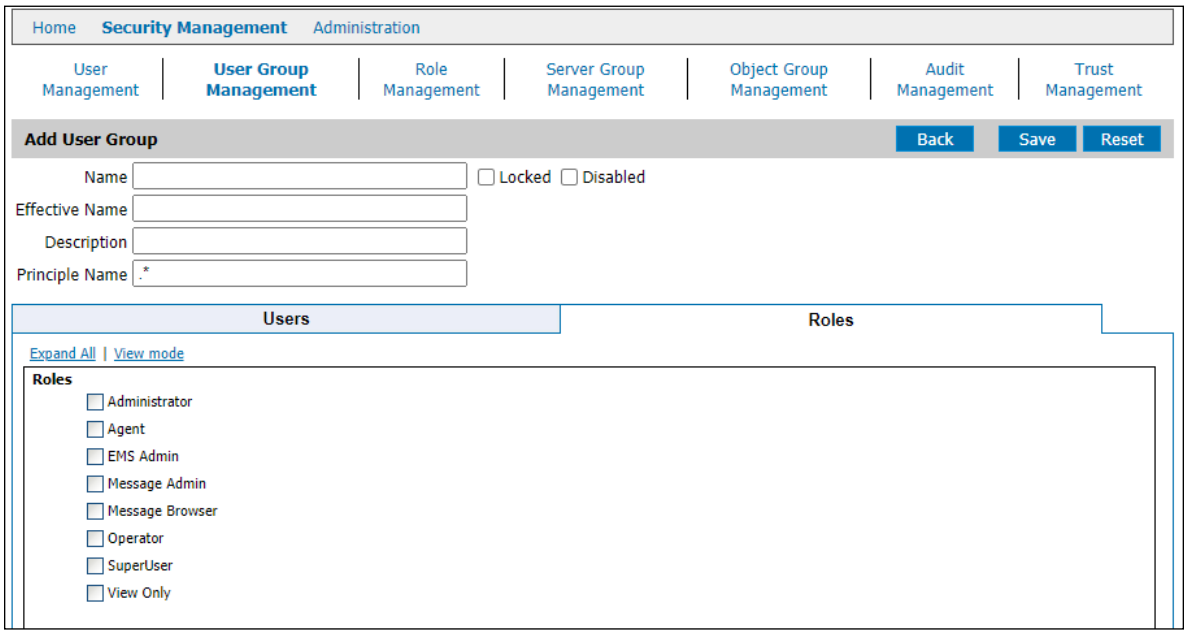

Figure 2-8. Add User Group – Roles Tab

5. Click **Save**. You are returned to the *User Groups Management* screen *(Figure 2-6)* where the new Group is listed.

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2.4.2 Edit an Existing User Group

1. Click the **Edit** icon to go to the *Edit Group* screen *(Figure 2-9)*.

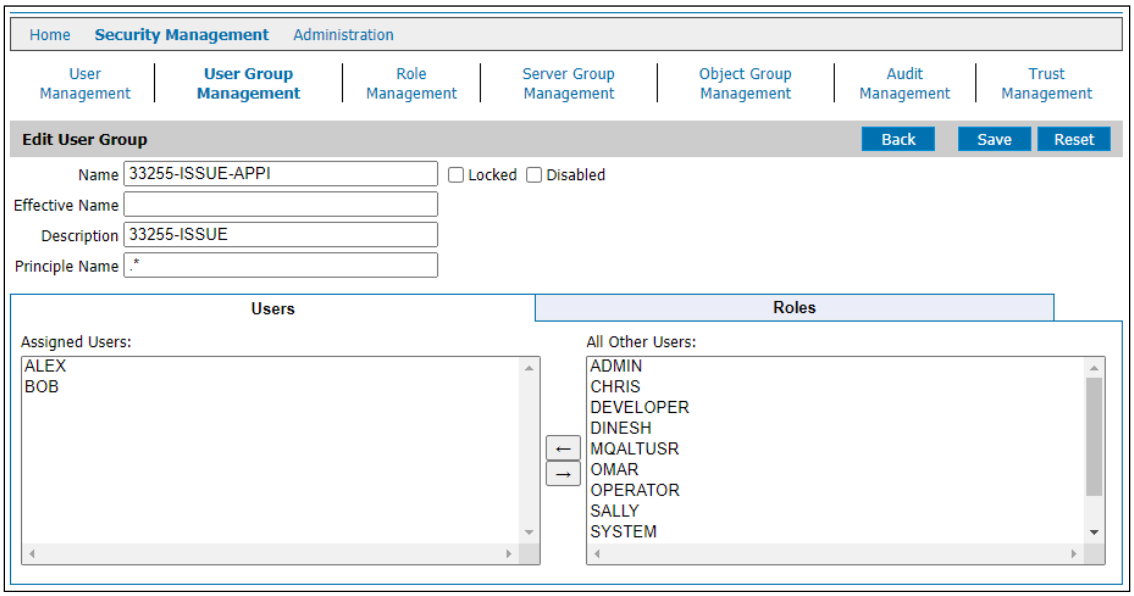

Figure 2-9. Edit User Group – Users Tab

2. Change/add:
   - **Name**
   - **Effective Name**
   - **Description**
   - **Principal Name**
   - **Locked**
   - **Disable**
3. Edit the **Users** list by using the arrow buttons.

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4. Edit the **Roles** by selecting or deselecting from the list.

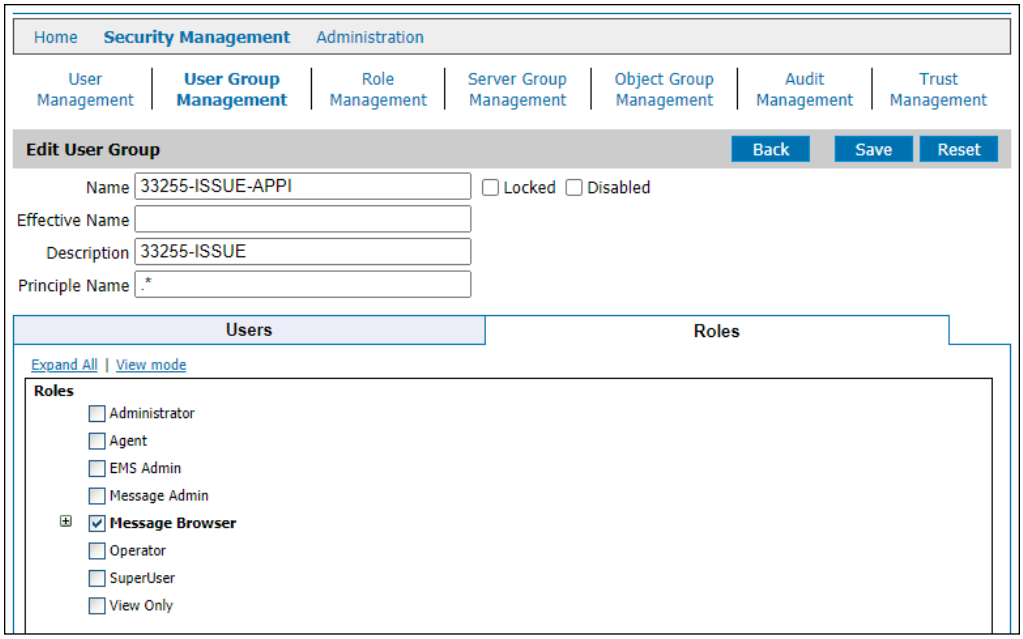

Figure 2-10. Edit User Group – Roles Tab

5. Click **Save**. You are returned to the *User Groups Management* screen *(Figure 2-6)*.
6. To delete a user group from the *User Groups Management* screen, click the **Delete** icon . A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.

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2.5 Role Management

This screen is used to assign features to a standard role (Administrator, Agent, Message Admin, Message Browser, Operator, and View Only). You can also create a new role and assign features to it. See Appendix C, Role Management Rights, for an explanation of the roles.

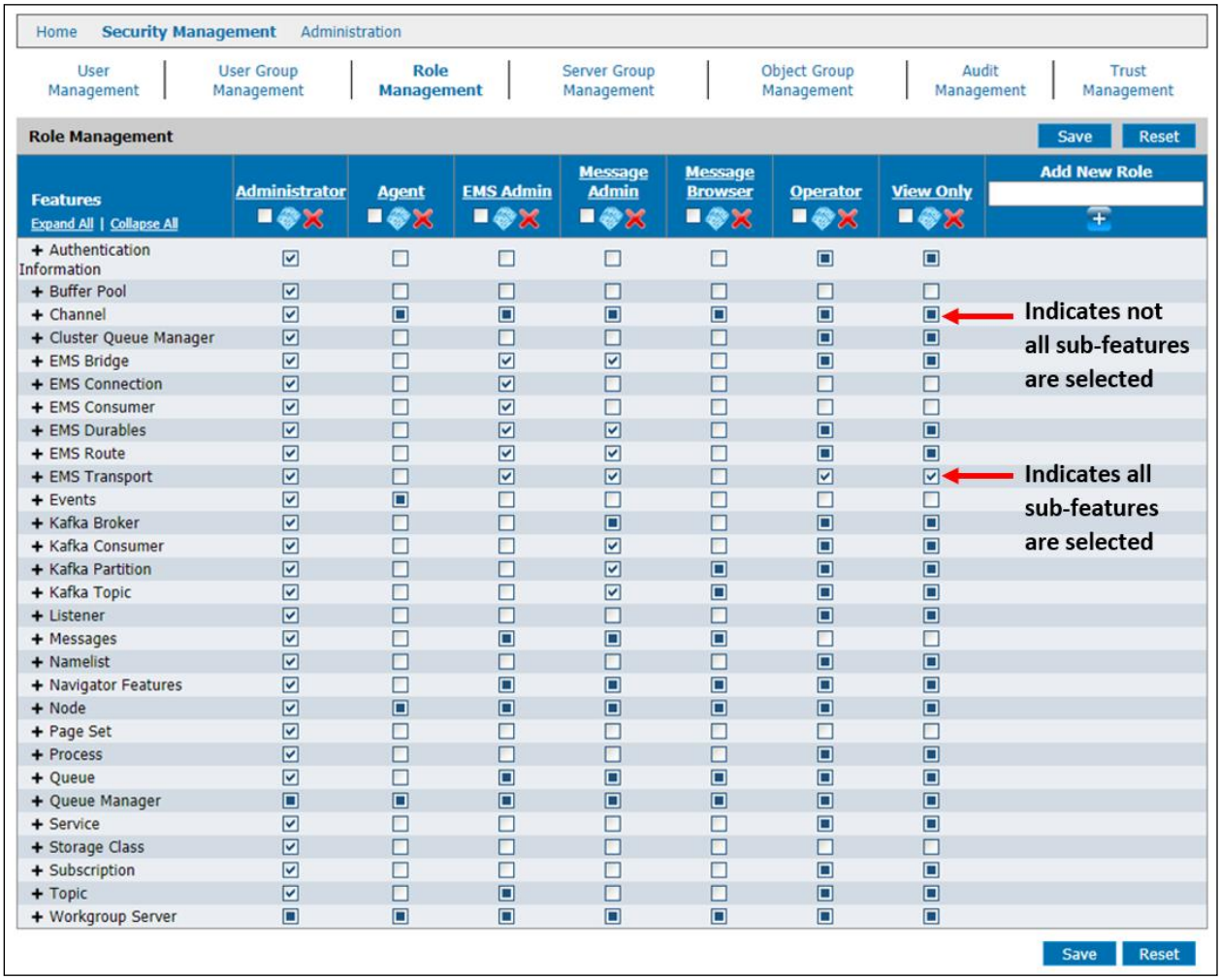

Figure 2-11. Role Management

1. Selecting an unexpanded feature selects all the sub-features associated with it. Each feature can be expanded by clicking the plus sign. If all the sub-features are not selected, the checkbox displays as filled in as opposed to a check mark.

   There are three icons in the header of each Role:

   - Select the check box to select all features.
   - Click the **Copy** icon to create a copy of the selected role.
   - Click the **Delete** icon to delete the role. A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.

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2. The Role name can be edited. Clicking the role name in the header makes the name editable. Make your changes and click the **Finish Edit** icon to save your changes.

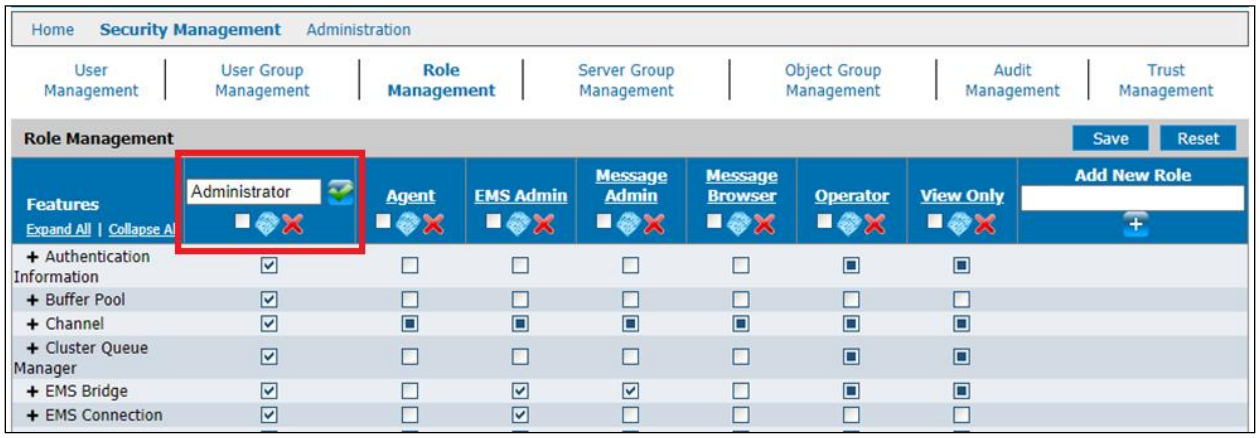

Figure 2-12. Edit Role Name

3. Click **Save**.
4. To create a custom Role, enter the Role name in the **Add New Role** field and click the **Add** button. Proceed as in step 1.

> **NOTE** When creating a new role, a common mistake is clicking **Save** rather than the **+** (plus) button. If you click **Save**, the page will refresh, but the new role is not added.

2.6 Server Group Management

A server group is a collection of queue managers, brokers or Kafka nodes that are managed together. For example, PROD vs TEST or EMEA vs US. This group is managed separately from the objects to make it easy to change the scope of security requests as the environment changes.

When adding, creating, and editing groups, objects, authorities, etc., you must have a server selected and configured properly. To configure, create, edit, or remove servers/agents, select the **Server Group Management** tab. A sample entry for All Queue Managers is listed.

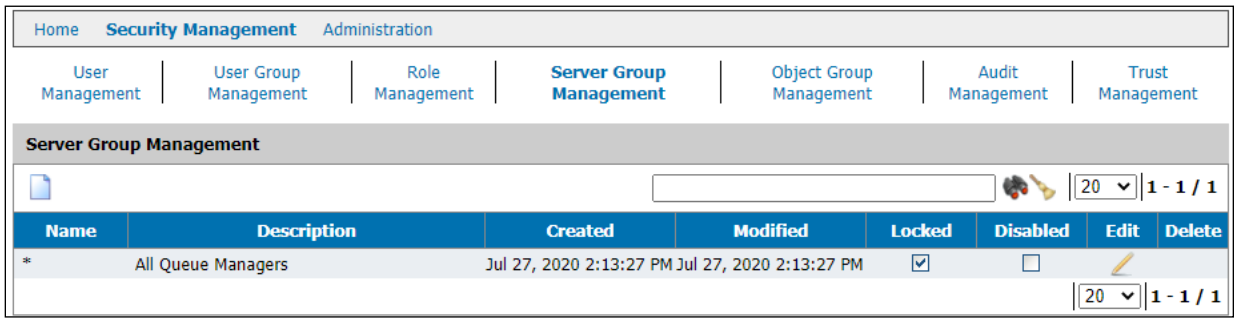

Figure 2-13. Server Group Management

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2.6.1 Add a New Server

After a new server is added, it will be listed on the **User Group Management Roles** tab. You will then be able to assign it to a new User Group (Add function) or to an existing User Group (Edit function).

1. Click the **Add** icon to go to the *Add Server Group* screen *(Figure 2-14)*.

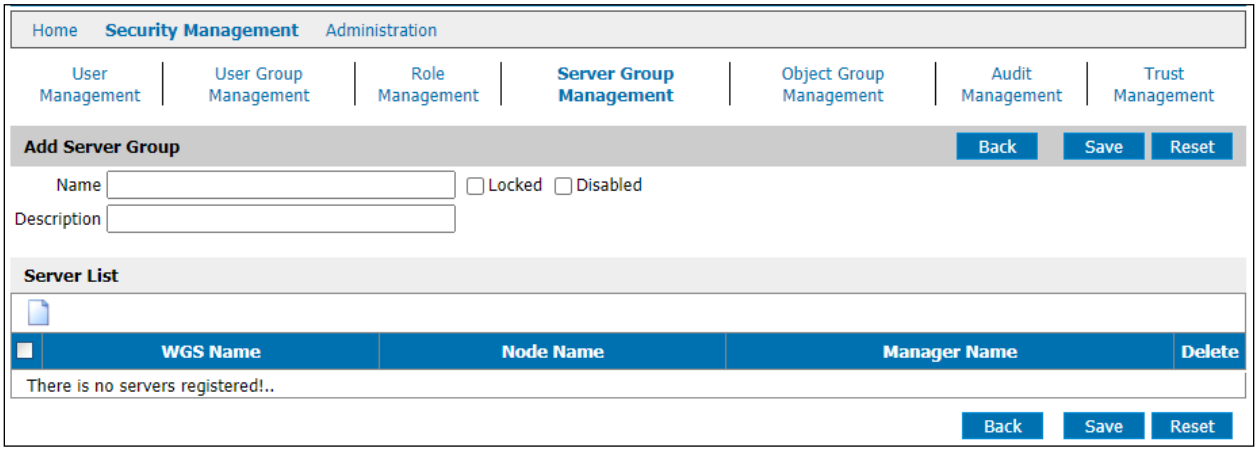

Figure 2-14. Add Server Group

2. Complete the following fields:
   - **Name** – server group name
   - **Description** – a description of the server group that is meaningful to you
   - **Locked** – Selecting this option and clicking **Save** prevents two users from working on the same record at the same time. Default records are locked to indicate they should not be changed.
   - **Disabled** – Disables the server group record and prevents any access to it. This can be used to set up server groups in advance. It can also be used to disable a server group rather than deleting it.
3. Then click the **Add** icon under **Server List** and complete the following fields which must be expressed as regex (regular expressions):
   - **WGS Name**
   - **Node Name**
   - **Queue Manager Name**
4. Click either **Save** button. You are returned to the *Group Server Management* screen where the new server is listed.
5. To delete a Server Group from the *Group Serve Management* screen, click the **Delete** icon . A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.

Other Controls:

- **Reset** – reverts to original settings

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- **Delete** – deletes the entry. A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.
- **Back** – Returns you to the previous page. A confirmation box is displayed. You can **Save** or **Discard** changes or **Cancel** to stay on this page.

2.6.2 Edit an Existing Server

1. Use the search field on the *Server Group Management* screen to locate a specific user:
   a. Enter the user name or partial name and click the **Search** icon .The search is case sensitive.
   b. Use the **Cleanup** icon to clear the search field and refresh the page.
2. Click the **Edit** icon to go to the *Edit Server Group* screen.

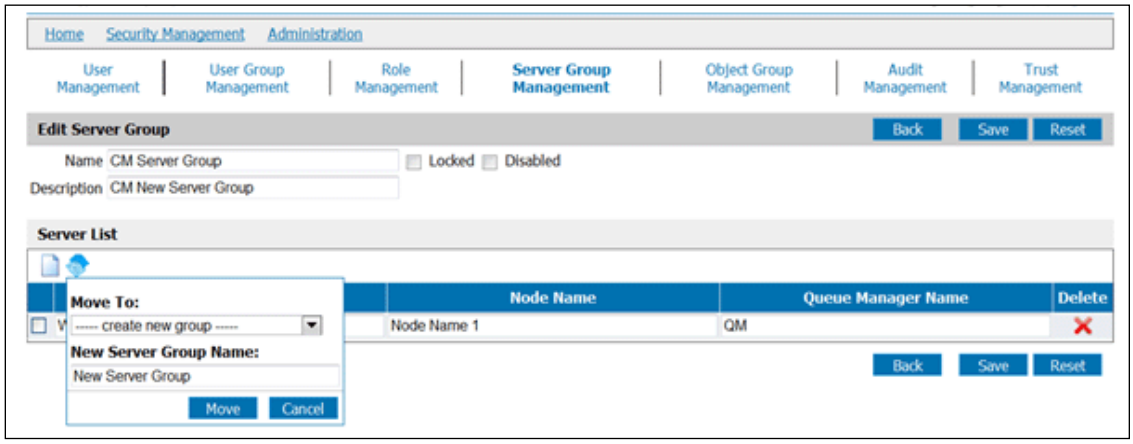

Figure 2-15. Edit Server Group

3. Change/add:
   - **Description**
   - **WGS Name**
   - **Node Name**
   - **Queue Manager Name**
4. Click **Save**. You are returned to the *Group Server Management* screen.
5. The **Move** icon provides the following functionality:
   a. Select the server, then click the **Move** icon.
   b. Move the server group by selecting from the drop-down list and clicking the **Move** button. This action cannot be undone by clicking **Reset**.
   c. Create a new server group by entering a name in the **New Server Group** input field.

Other Controls:

- **Reset** – reverts to original settings

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- **Delete** – deletes the entry. A confirmation dialog box displays; click **Yes** to delete or **Cancel** to abort.
- **Back** – Returns you to the previous page. A confirmation box is displayed. You can **Save** or **Discard** changes or **Cancel** to stay on this page.

2.7 Object Group Management

The term Object refers to IBM MQ, TIBCO EMS and Kafka objects. For generation of security configuration using permits statements, a fully qualified object specification is required. To add or edit an object, select the **Object Group Management** tab. A sample entry for All Objects and Nastel queues is listed.

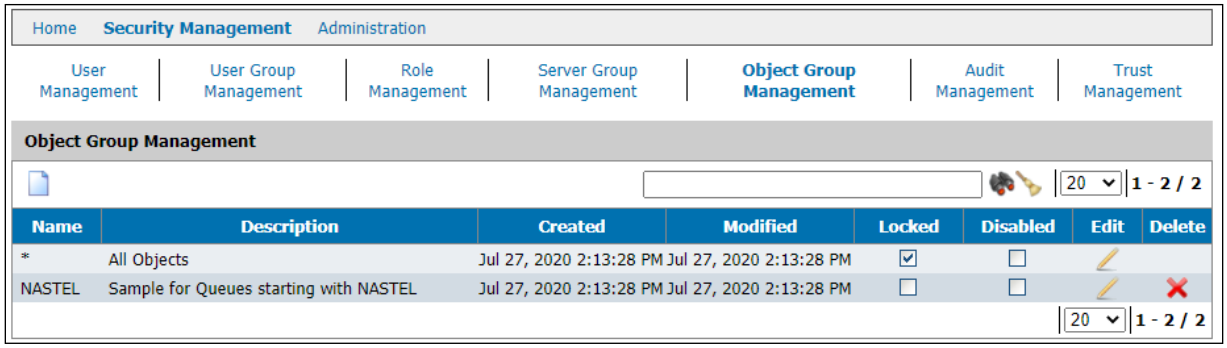

Figure 2-16. Object Group Management

2.7.1 Add a New Object Group

1. Click the **Add** icon to go to the *Add Object Group* screen.

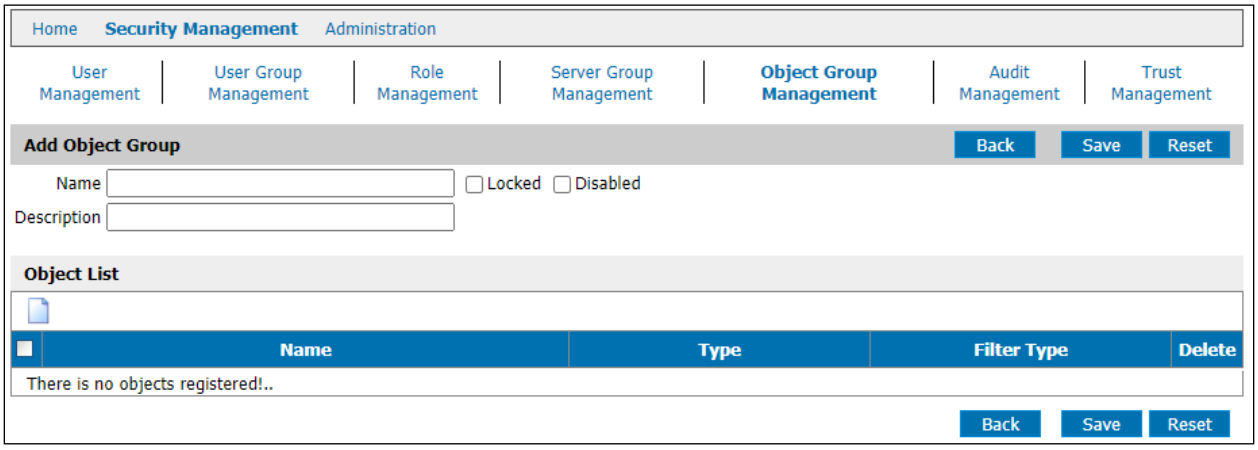

Figure 2-17. Add Object Group

2. Complete the following fields:
   - **Name** – Group name
   - **Description** – brief description of the group.
   - **Locked** – Selecting this option indicates to other users that the record is being worked on, thereby preventing two users from working on the same record at the same time. Default records are locked to indicate they should not be changed.

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- **Disabled** – Disables the object and prevents any access to it. This can be used to set up objects in advance. It can also be used to disable an object rather than deleting it.

3. Click the **Add** icon under **Object List** (see *Figure 2-18*) and complete the following fields:
   - **Name** – name of the object expressed as regex (regular expression)
   - **Type** – select the object type from the drop-down list.
   - **Filter Type** – Select **Include** or **Exclude** from the drop-down list to indicate if users are allowed to see this object.
4. Click either **Save** button. You are returned to the *Object Group Management* screen where the new object is listed.

When creating an object group for a queue, it is necessary to include the object in the queue type (to see it in a list) and in the specific type (local queue) to see its details.

Other Controls:

- **Reset** – reverts to original settings
- **Delete** – deletes the entry. A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.
- **Back** – Returns you to the previous page. A confirmation box is displayed. You can **Save** or **Discard** changes or **Cancel** to stay on this page.

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2.7.2 Edit an Existing Object Group

1. Use the search field on the *Object Group Management* screen to locate a specific user:

   a. Enter the user name or partial name and click the **Search** icon . The search is case sensitive.

   b. Use the **Cleanup** icon to clear the search field and refresh the page.

2. Click the **Edit** icon to go to the *Edit Object Group* screen.

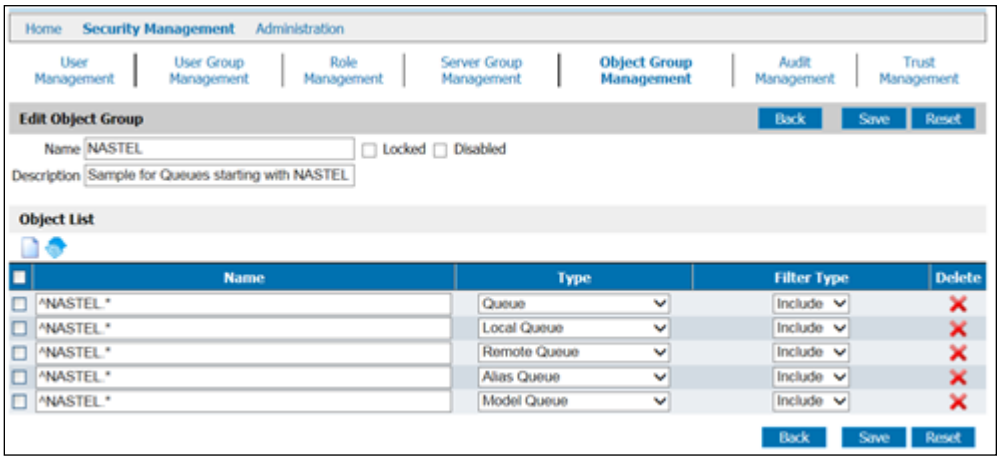

Figure 2-18. Edit Object Group

3. Change/add:
   - **Description**
   - **Object Name –** expressed as regex (regular expressions)
   - **Type –** select the object type from the drop-down list.
   - **Filter Type** – Select **Include** or **Exclude** from the drop-down list to indicate if users are allowed to see this object.
4. Click **Save**. You are returned to the *Object Group Management* screen.

Other Controls:

- **Reset** – reverts to original settings
- **Delete** – deletes the entry. A confirmation dialog box displays. Click **Yes** to delete or **Cancel** to abort the action.
- **Back** – Returns you to the previous page. A confirmation box is displayed. You can **Save** or **Discard** changes or **Cancel** to stay on this page.

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2.8 Audit Management

Audit Management is used to trace the granting or denying of rights. The defaults are provided to simplify activation.

NOTE

User Groups and Objects must be present to establish Audit Statements.

1. Click the *Audit Management tab* to display the following screen.

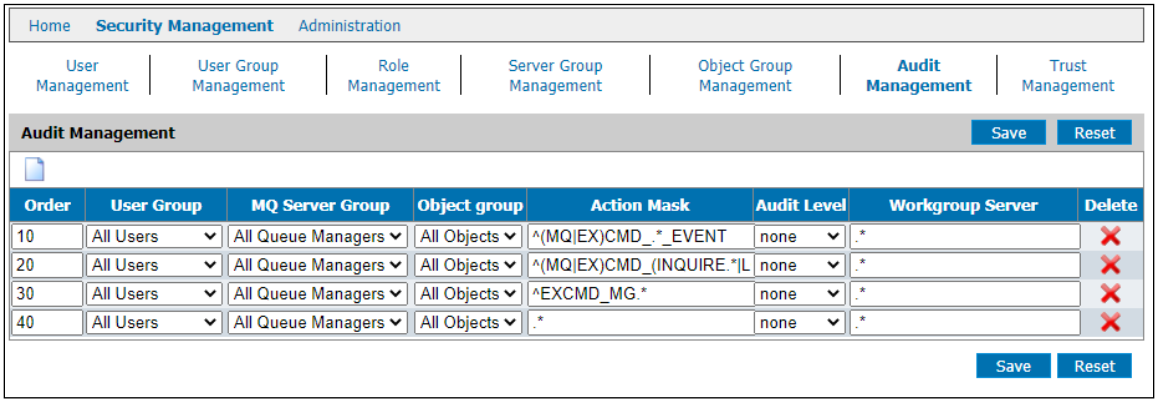

Figure 2-19. Audit Management

The four default entries are shipped with the **Audit Level** set to **none**. Set the **EXCMD_MG** mask to **all** to audit all message activity and the final entry to **denied** to audit all denied requests. The first two entries should not be turned on unless you are asked to by Nastel Support.

2. To create or edit an audit statement, click the **Add** icon . A new line is added to the table.

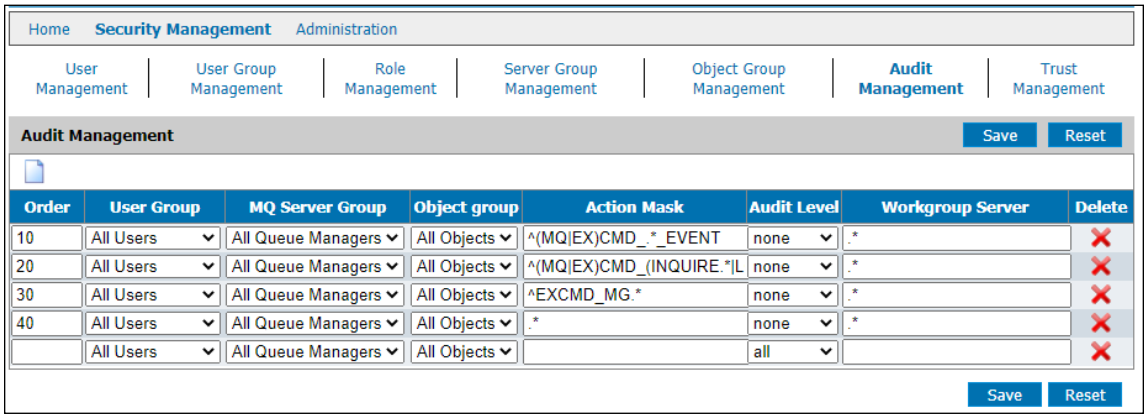

Figure 2-20. Add/Edit Audit Group

3. **Order** – The priority in which the audit records are read; that is the order of precedence.
4. User the drop-down lists to select a value for each of the following fields. Likewise, existing entries can be changed by using the drop-down lists.

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- **User Group –** The existing user group is selected from the submenu containing all listed groups individually, or a wildcard is used for all groups.
- **MQ Server Group** – The server group to be audited.
- **Object Group** – The object to be audited.
- **Action Mask** – A command mask.
- **Audit Level**
  - **all –** any usage
  - **denied** – deny requests
  - **granted –** request granted
  - **none** – no audit
- **Workgroup Server** – The workgroup server to be audited.

5. Click **Save**.
6. To remove an Audit Statement, click the **Delete** icon . A delete confirmation window is displayed. Click **OK** to delete. **Cancel** returns you to the *Audit Management* screen.

2.9 Trust Management

The Trust statement is used to enhance security by limiting the connections that can be made to the Workgroup server. Trusts are applied to specify which sources should and should not be trusted.

1. Click the *Trust Management* tab to display the following screen.

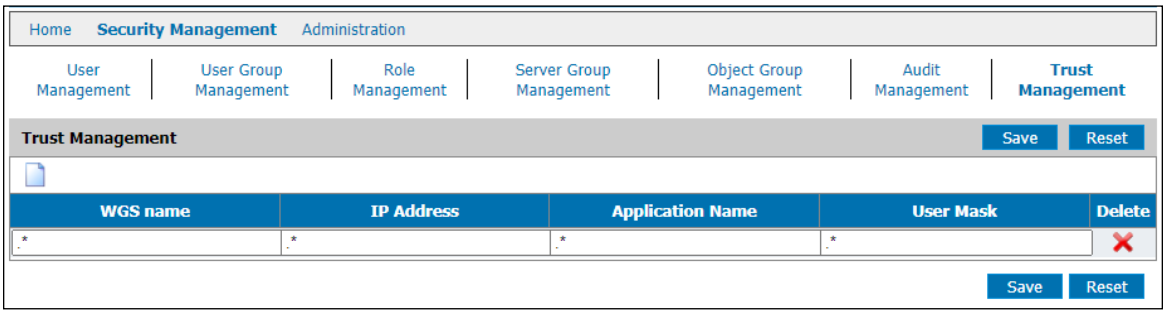

Figure 2-21. Trust Management

2. To create or edit an audit statement, click the **Add** icon . A new line is added to the table.

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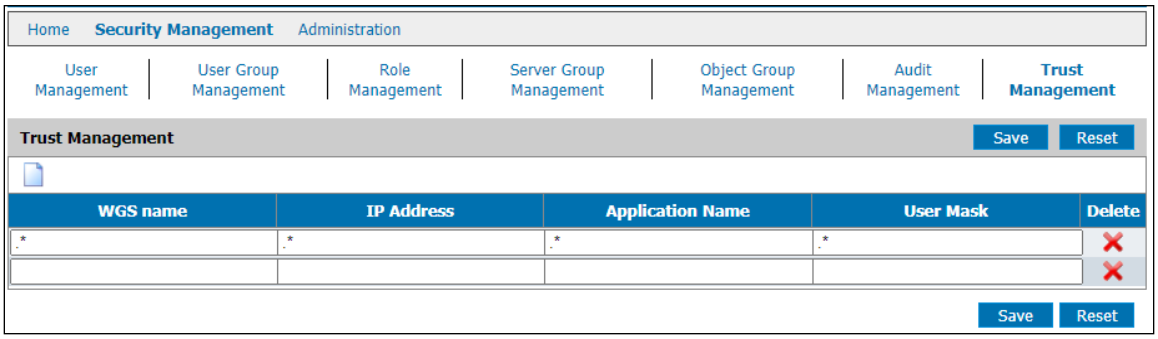

Figure 2-22. Add/Edit Audit Group

3. Complete the following fields:
   - **WGS name** – The existing user group or a regex for all groups.
   - **IP Address** – Identify a specific IP address or use a regex for all.
   - **Application Name** – Identify the specific application or a regex for all.
   - **User Mask –** Identify the mask or use a regex for all.
4. Click **Save**.
5. To remove a Trust Statement, click the **Delete** icon . A delete confirmation window is displayed. Click **OK** to delete. **Cancel** returns you to the *Trust Management* screen.

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2.10 Administration

2.10.1 Import File

For users with existing roles, this function can be used to reduce the effort to create new definitions. It can be used to import a list of users, user groups, servers, and application groups from a **`permits.ini`** file or another file format including JSON, xml, and BMC Middleware Management Products.

Contact Nastel Support for help in using this function. *(Refer to section 1.7.)*

1. Click **Administration** to display the *Import Data* screen.

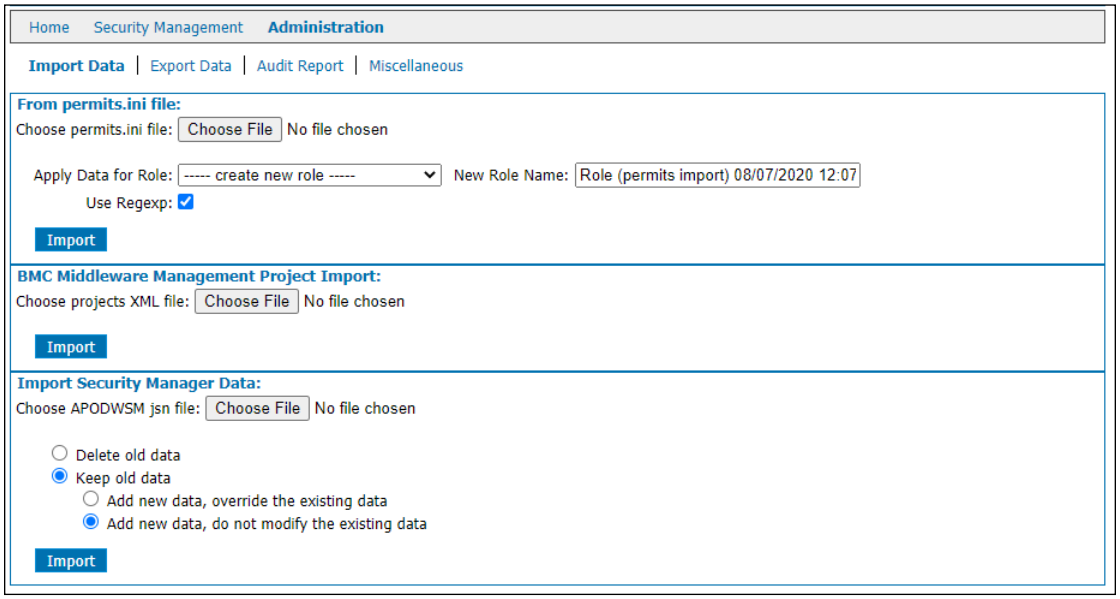

Figure 2-23. Import Data

2. Click **Browse** to select the file to be imported.
3. From the drop-down list, select the Role to apply the imported data.
4. **Use Regexp** – Default. This should NOT be deselected.
5. Click **Import**.

2.10.2 Export Data

This screen allows you to export the security definitions in json file format.

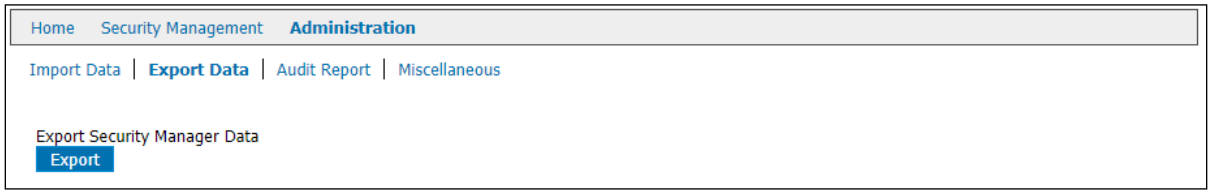

Figure 2-24. Export Data

1. Click the **Export Data** tab.
2. From the drop-down list, select either **Tree XML** or **Flat XML**.

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3. Click **Export**. You will be prompted to save or open the file.
4. Click **Save**.

2.10.3 Audit Report

The *Audit Report* screen displays audit records for actions performed in Security Manager. The audit history is displayed in chronological order starting with the oldest record.

On the **Audit Management** tab, you can filter the list by user, MQ manager, object type, object name, Access, and date range.

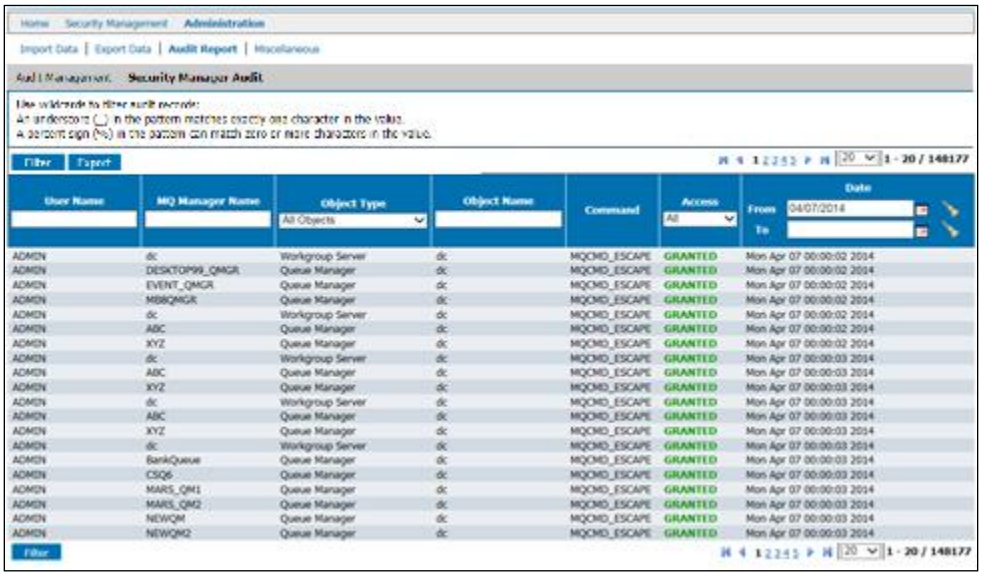

Figure 2-25. Audit Report

1. At the table header, enter one or more filter parameters. Parameters are case sensitive.
   - **User Name**
   - **MQ Manager Name**
   - **Object Type** – use the drop-down list
   - **Object Name** – use of wild card (*) and regex are supported
   - **Access** – use the drop-down list
   - **Date** – enter the **From** and **To** dates. The **From** date defaults to today. You can use the calendar widget to select a date and the broom icon to clear the field.
2. Click **Filter**.

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On the **Security Manager Audit** tab, view audit history for all database interactions. Just like above, enter filter parameters within the table headers to filter the audit history.

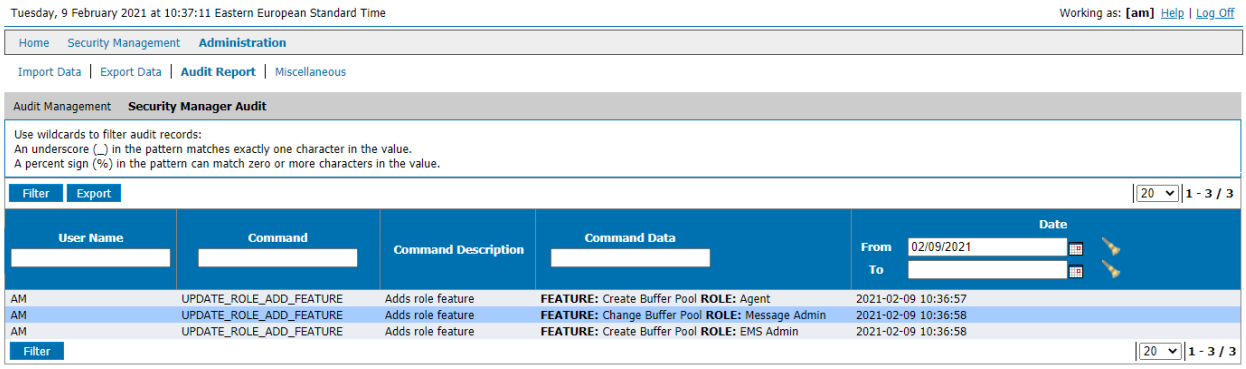

Figure 2-25-B. Audit Report

Please note that the database administrator will need to maintain the audit history.

2.10.4 Miscellaneous

When user permissions are changed, the change does not take effect until after the normal refresh interval in Workgroup Server. This function forces an immediate cache refresh.

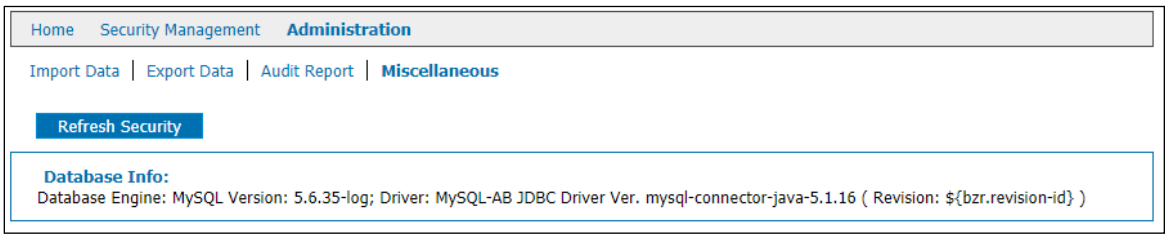

Figure 2-26. Miscellaneous

1. Click the **Miscellaneous** tab.
2. Click **Refresh Security**. A confirmation window displays. Click **OK** or **Cancel**.

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Appendix A: References

This appendix contains a list of reference material and documents relevant to the Security Manager.

A.1 Nastel Documentation

Table A-1. Nastel Documentation

Document Number (or higher)	Title
NAV/WGS 101.035	*Nastel Navigator Workgroup Server Expert V10 – Installation Guide*
NN10.019	*Nastel Navigator User's Guide*
NAV/COMP 101.017	*Nastel Navigator Components Installation Guide*
M6/MQ 10.002	*AutoPilot M6 Plug-in for IBM MQ*

A.2 Tomcat

http://tomcat.apache.org

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Appendix B: IBM MQ PCF Codes

Table B-1. IBM MQ PCF Codes				
Command Category	**Command Code Name**	**Value**	**Command Code Name**	**Value**
QMGRs	MQCMD_CHANGE_Q_MGR	1	MQCMD_INQUIRE_Q_MGR	2
	MQCMD_REFRESH_Q_MGR	16	MQCMD_RESET_Q_MGR	92
	MQCMD_PING_Q_MGR	40	MQCMD_Q_MGR_EVENT	44
	MQCMD_RESUME_Q_MGR	132	MQCMD_START_Q_MGR	139
	MQCMD_STOP_Q_MGR	144	MQCMD_SUSPEND_Q_MGR	146
	MQCMD_INQUIRE_Q_MGR_STATUS	161	MQCMD_INQUIRE_CMD_SERVER	117
	MQCMD_INQUIRE_QSG	119	MQCMD_START_CMD_SERVER	138
	MQCMD_STOP_CMD_SERVER	143		
Processes	MQCMD_CHANGE_PROCESS	3	MQCMD_COPY_PROCESS	4
	MQCMD_CREATE_PROCESS	5	MQCMD_DELETE_PROCESS	6
	MQCMD_INQUIRE_PROCESS	7	MQCMD_INQUIRE_PROCESS_NAMES	19
Queues	MQCMD_CHANGE_Q	8	MQCMD_CLEAR_Q	9
	MQCMD_COPY_Q	10	MQCMD_CREATE_Q	11
	MQCMD_DELETE_Q	12	MQCMD_INQUIRE_Q	13
	MQCMD_RESET_Q_STATS	17	MQCMD_INQUIRE_Q_STATUS	41
	MQCMD_INQUIRE_Q_NAMES	18	MQCMD_STATISTICS_Q	165
	MQCMD_ACCOUNTING_Q	168	MQCMD_MOVE_Q	127
	MQCMD_STATISTICS_MQI	164	MQCMD_ACCOUNTING_MQI	167
Channels	MQCMD_INQUIRE_CHANNEL_NAMES	20	MQCMD_CHANGE_CHANNEL	21
	MQCMD_COPY_CHANNEL	22	MQCMD_CREATE_CHANNEL	23
	MQCMD_DELETE_CHANNEL	24	MQCMD_INQUIRE_CHANNEL	25
	MQCMD_PING_CHANNEL	26	MQCMD_RESET_CHANNEL	27
	MQCMD_START_CHANNEL	28	MQCMD_STOP_CHANNEL	29
	MQCMD_RESOLVE_CHANNEL	39	MQCMD_INQUIRE_CHANNEL_STATUS	42
	MQCMD_START_CHANNEL_INIT	30	MQCMD_INQUIRE_CHANNEL_INIT	118
	MQCMD_STOP_CHANNEL_INIT	141	MQCMD_STATISTICS_CHANNEL	166
Topics	MQCMD_CHANGE_TOPIC	170	MQCMD_COPY_TOPIC	171
	MQCMD_CREATE_TOPIC	172	MQCMD_DELETE_TOPIC	173
	MQCMD_INQUIRE_TOPIC	174	MQCMD_INQUIRE_TOPIC_NAMES	175
	MQCMD_INQUIRE_TOPIC_STATUS	183	MQCMD_CLEAR_TOPIC_STRING	184
Subscriptions	MQCMD_INQUIRE_SUBSCRIPTION	176	MQCMD_CREATE_SUBSCRIPTION	177
	MQCMD_CHANGE_SUBSCRIPTION	178	MQCMD_DELETE_SUBSCRIPTION	179
	MQCMD_COPY_SUBSCRIPTION	181	MQCMD_INQUIRE_SUB_STATUS	182
	MQCMD_INQUIRE_PUBSUB_STATUS	185		
Namelists	MQCMD_CHANGE_NAMELIST	32	MQCMD_COPY_NAMELIST	33
	MQCMD_CREATE_NAMELIST	34	MQCMD_DELETE_NAMELIST	35

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Table B-1. IBM MQ PCF Codes

Command Category	Command Code Name	Value	Command Code Name	Value
	MQCMD_INQUIRE_NAMELIST	36	MQCMD_INQUIRE_NAMELIST_NAMES	37
Events	MQCMD_CONFIG_EVENT	43	MQCMD_PERFM_EVENT	45
	MQCMD_CHANNEL_EVENT	46	MQCMD_COMMAND_EVENT	99
Publish/ Subscribe	MQCMD_DELETE_PUBLICATION	60	MQCMD_DEREGISTER_PUBLISHER	61
	MQCMD_DEREGISTER_SUBSCRIBER	62	MQCMD_PUBLISH	63
	MQCMD_REGISTER_PUBLISHER	64	MQCMD_REGISTER_SUBSCRIBER	65
Clusters	MQCMD_INQUIRE_CLUSTER_Q_MGR	70	MQCMD_RESUME_Q_MGR_CLUSTER	71
	MQCMD_SUSPEND_Q_MGR_CLUSTER	72	MQCMD_REFRESH_CLUSTER	73
	MQCMD_RESET_CLUSTER	74		
Services	MQCMD_CHANGE_SERVICE	149	MQCMD_COPY_SERVICE	150
	MQCMD_CREATE_SERVICE	151	MQCMD_DELETE_SERVICE	152
	MQCMD_INQUIRE_SERVICE	153	MQCMD_START_SERVICE	155
	MQCMD_INQUIRE_SERVICE_STATUS	154		
	MQCMD_STOP_SERVICE	156		
Channel Listeners	MQCMD_CHANGE LISTENER	93	MQCMD_COPY_LISTENER	94
	MQCMD_CREATE_LISTENER	95	MQCMD_DELETE_LISTENER	96
	MQCMD_INQUIRE_LISTENER	97	MQCMD_START_CHANNEL_LISTENER	31
	MQCMD_INQUIRE_LISTENER_STATUS	98	MQCMD_STOP_CHANNEL_LISTENER	142
Security/ Authentication	MQCMD_REFRESH_SECURITY	78	MQCMD_CHANGE_AUTH_INFO	79
	MQCMD_COPY_AUTH_INFO	80	MQCMD_CREATE_AUTH_INFO	81
	MQCMD_DELETE_AUTH_INFO	82	MQCMD_INQUIRE_AUTH_INFO	83
	MQCMD_INQUIRE_AUTH_INFO_NAMES	84	MQCMD_CHANGE_SECURITY	100
	MQCMD_INQUIRE_SECURITY	121	MQCMD_REVERIFY_SECURITY	133
Miscellaneous	MQCMD_ESCAPE	38	MQCMD_REQUEST_UPDATE	66
	MQCMD_BROKER_INTERNAL	67	MQCMD_ACITIVITY_MSG	69
	MQCMD_TRACE_ROUTE	75	MQCMD_INQUIRE_CONNECTION	85
	MQCMD_STOP_CONNECTION	86	MQCMD_INQUIRE_AUTH_RECS	87
	MQCMD_INQUIRE_ENTITY_AUTH	88	MQCMD_DELETE_AUTH_REC	89
	MQCMD_SET_AUTH_REC	90	MQCMD_LOGGER_EVENT	91
	MQCMD_CHANGE_TRACE	103	MQCMD_ARCHIVE_LOG	104
	MQCMD_INQUIRE_ARCHIVE	114	MQCMD_INQUIRE_LOG	120
	MQCMD_INQUIRE_SYSTEM	123	MQCMD_INQUIRE_THREAD	124
	MQCMD_INQUIRE_TRACE	125	MQCMD_INQUIRE_USAGE	126
	MQCMD_RECOVER_BSDS	128	MQCMD_RESET_TPIPE	130
	MQCMD_RESOLVE_INDOUBT	131	MQCMD_SET_ARCHIVE	134
	MQCMD_SET_LOG	136	MQCMD_SET_SYSTEM	137
	MQCMD_START_TRACE	140	MQCMD_STOP_TRACE	145
	MQCMD_CREATE_LOG	162	MQCMD_INQUIRE_AUTH_SERVICE	169
	MQCMD_CHANGE_CF_STRUCT	101	MQCMD_BACKUP_CF_STRUCT	105

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Table B-1. IBM MQ PCF Codes

Command Category	Command Code Name	Value	Command Code Name	Value
CF Structs	MQCMD_CREATE_CF_STRUCT	108	MQCMD_COPY_CF_STRUCT	110
	MQCMD_DELETE_CF_STRUCT	112	MQCMD_INQUIRE_CF_STRUCT	115
	MQCMD_INQUIRE_CF_STRUCT_STATUS	116	MQCMD_RECOVER_CF_STRUCT	129
	MQCMD_INQUIRE_CF_STRUCT_NAMES	147		
Storage Classes	MQCMD_CHANGE_STG_CLASS	102	MQCMD_INQUIRE_ STG_CLASS_NAMES	148
	MQCMD_CREATE_ STG_CLASS	109	MQCMD_COPY_ STG_CLASS	111
	MQCMD_DELETE_ STG_CLASS	113	MQCMD_INQUIRE_ STG_CLASS	122
Buffer Pools	MQCMD_CREATE_BUFFER_POOL	106	MQCMD_DELETE_BUFFER_POOL	157
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Appendix C: Role Management Rights

See the table below for descriptions of the role management rights which appear on the **Role Management** tab in Nastel Navigator Security Manager.

Table C-1. Role Management Rights		
Right	**Feature Code**	**Explanation**
ACE APPLICATION		
Delete ACE Application	EXCMD_DELETE_ACE_APPLICATION	Allows users to remove ACE applications.
Setup ACE Application	EXCMD_SETUP_ACE_APPLICATION	Gives user the ability to configure ACE applications.
Show ACE Application	EXCMD_INQUIRE_ACE_APPLICATION	Allows users to view the details of a specific application.
Show ACE Application Status	EXCMD_INQUIRE_ACE_APPLICATION_STATUS	Users can view the status of ACE applications.
Show ACE Applications	EXCMD_INQUIRE_ACE_APPLICATION_NAMES	Allows users to view a list of the applications that exist.
Start ACE Application	EXCMD_START_ACE_APPLICATION	Gives users the ability to start ACE applications.
Stop ACE Application	EXCMD_STOP_ACE_APPLICATION	Gives users the ability to stop ACE applications.
Teardown ACE Application	EXCMD_TEARDOWN_ACE_APPLICATION	Allows user to access the Teardown option on the ACE Application viewlet action menu.
Validate ACE Application	EXCMD_VALIDATE_ACE_APPLICATION	Allows users to validate ACE applications.
ACE LIBRARY		
Setup ACE Library	EXCMD_SETUP_ACE_LIBRARY	Allows users to configure ACE libraries.
Show ACE Libraries	EXCMD_INQUIRE_ACE_LIBRARY_NAMES	Allows users to view a list of the libraries that exist.

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Show ACE Library	EXCMD_INQUIRE_ACE_LIBRARY	Allows users to view the details of a specific library.
Show ACE Library Status	EXCMD_INQUIRE_ACE_LIBRARY_STATUS	Users can view the status of ACE libraries.
Teardown ACE Library	EXCMD_TEARDOWN_ACE_LIBRARY	Allows users to teardown ACE libraries.
Validate ACE Library	EXCMD_VALIDATE_ACE_LIBRARY	Allows users to validate ACE libraries.
ACE LINK		
Show ACE Link	EXCMD_INQUIRE_ACE_LINK	Allows users to view the details of a specific ACE link.
Show ACE Links	EXCMD_INQUIRE_ACE_LINK_NAMES	Allows users to view a list of the ACE links that exist.
ACE MESSAGE FLOW		
Setup ACE Message Flow	EXCMD_SETUP_ACE_MESSAGE_FLOW	Allows users to configure ACE message flows.
Show ACE Message Flow	EXCMD_INQUIRE_ACE_MESSAGE_FLOW	Allows users to view the details of a specific ACE message flow.
Show ACE Message Flow Activity Log	EXCMD_INQUIRE_ACE_MESSAGE_FLOW_ACTIVITY_LOG	Allow users to view ACE message flow activity logs.
Show ACE Message Flow Status	EXCMD_INQUIRE_ACE_MESSAGE_FLOW_STATUS	Users can view the status of ACE message flows.
Show ACE Message Flows	EXCMD_INQUIRE_ACE_MESSAGE_FLOW_NAMES	Allows users to view a list of the ACE message flows that exist.
Start ACE Message Flow	EXCMD_START_ACE_MESSAGE_FLOW	Gives users the ability to start ACE message flows.
Stop ACE Message Flow	EXCMD_STOP_ACE_MESSAGE_FLOW	Gives users the ability to stop ACE message flows.
Teardown ACE Message Flow	EXCMD_TEARDOWN_ACE_MESSAGE_FLOW	Allows users to teardown ACE message flows.
Validate ACE Message Flow	EXCMD_VALIDATE_ACE_MESSAGE_FLOW	Allows users to validate ACE message flows.

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ACE NODE		
Show ACE Node	EXCMD_INQUIRE_ACE_NODE	Allows users to view the details of a specific ACE node.
Show ACE Node Admin Log	EXCMD_INQUIRE_ACE_NODE_ADMIN_LOG	Allows you to view ACE node admin logs.
Show ACE Nodes	EXCMD_INQUIRE_ACE_NODE_NAMES	Allows users to view a list of the ACE nodes that exist.
ACE RESOURCE		
Show ACE Resource	EXCMD_INQUIRE_ACE_RESOURCE	Allows users to view the details of a specific ACE resource.
Show ACE Resources	EXCMD_INQUIRE_ACE_RESOURCE_NAMES	Allows users to view a list of the ACE resources that exist.
ACE REST API		
Delete ACE Rest API	EXCMD_DELETE_ACE_REST_API	Gives users the ability to remove ACE Rest APIs.
Setup ACE Rest API	EXCMD_SETUP_ACE_REST_API	Gives users the ability to configure ACE REST APIs.
Show ACE Rest API	EXCMD_INQUIRE_ACE_REST_API	Allows users to view the details of a specific ACE REST API.
Show ACE Rest API Status	EXCMD_INQUIRE_ACE_REST_API_STATUS	Allows users to view the status of ACE Rest APIs.
Show ACE Rest APIs	EXCMD_INQUIRE_ACE_REST_API_NAMES	Allows users to view a list of the ACE REST APIs that exist.
Start ACE Rest API	EXCMD_START_ACE_REST_API	Gives users the ability to start ACE Rest APIs.
Stop ACE Rest API	EXCMD_STOP_ACE_REST_API	Gives users the ability to stop ACE REST APIs.
Teardown ACE Rest API	EXCMD_TEARDOWN_ACE_REST_API	Allows users to teardown ACE Rest APIs.
Validate ACE Rest API	EXCMD_VALIDATE_ACE_REST_API	Allows users to validate ACE REST APIs.
ACE SERVER		

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Create ACE Server	EXCMD_CREATE_ACE_SERVER	Allows users to create ACE servers.
Delete ACE Server	EXCMD_DELETE_ACE_SERVER	Gives users the ability to remove ACE servers.
Delete All Content On ACE Server	EXCMD_DELETE_ALL_CONTENT_ACE_SERVER	Gives users the ability to remove all deployed content on ACE servers.
Delete Content On ACE Server	EXCMD_DELETE_CONTENT_ACE_SERVER	Allows you to delete specific deployed content on ACE servers.
Deploy Content On ACE Server	EXCMD_DEPLOY_CONTENT_ACE_SERVER	Allows users to deploy content on ACE servers.
Reset Service Trace On ACE Server	EXCMD_RESET_SERVICE_TRACE_ACE_SERVER	Allows users to reset the service trace on ACE servers.
Reset User Trace On ACE Server	EXCMD_RESET_USER_TRACE_ACE_SERVER	Gives users the ability to reset users traces on ACE servers.
Show ACE Server	EXCMD_INQUIRE_ACE_SERVER	Allows users to view the details of a specific ACE server.
Show ACE Server Admin Log	EXCMD_INQUIRE_ACE_SERVER_ADMIN_LOG	Allows users to view ACE server admin logs.
Show ACE Server Status	EXCMD_INQUIRE_ACE_SERVER_STATUS	Allows users to view ACE server statuses.
Show ACE Servers	EXCMD_INQUIRE_ACE_SERVER_NAMES	Allows users to view a list of the ACE servers that exist.
Shutdown ACE Server	EXCMD_SHUTDOWN_ACE_SERVER	Gives users the ability to shutdown ACE servers.
Start ACE Server	EXCMD_START_ACE_SERVER	Gives users the ability to start ACE servers.
Start Flow Monitoring On ACE Server	EXCMD_START_FLOW_MON_ACE_SERVER	Gives users the ability to enable flow monitoring on ACE servers.
Start Flow Statistic On ACE Server	EXCMD_START_FLOW_STAT_ACE_SERVER	Gives users the ability to enable flow statistics on ACE servers.
Start Resource Statistic On ACE Server	EXCMD_START_RESOURCE_STAT_ACE_SERVER	Gives users the ability to enable resource statistics on ACE servers.

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Start Service Trace On ACE Server	EXCMD_START_SERVICE_TRACE_ACE_SERVER	Gives users the ability to enable service tracing on ACE servers.
Start User Trace On ACE Server	EXCMD_START_USER_TRACE_ACE_SERVER	Gives users the ability to enable user tracing on ACE servers.
Stop ACE Server	EXCMD_STOP_ACE_SERVER	Allows users to stop ACE servers.
Stop Flow Monitoring On ACE Server	EXCMD_STOP_FLOW_MON_ACE_SERVER	Allows users to stop ACE server flow monitoring.
Stop Flow Statistic On ACE Server	EXCMD_STOP_FLOW_STAT_ACE_SERVER	Allows users to stop flow statistics on ACE servers.
Stop Resource Statistic On ACE Server	EXCMD_STOP_RESOURCE_STAT_ACE_SERVER	Allows users to stop resource statistics on ACE servers.
Stop Service Trace On ACE Server	EXCMD_STOP_SERVICE_TRACE_ACE_SERVER	Gives users the ability to stop ACE server service tracing.
Stop User Trace On ACE Server	EXCMD_STOP_USER_TRACE_ACE_SERVER	Gives users the ability to stop user tracing on ACE servers.
ACE SERVICE		
Delete ACE Service	EXCMD_DELETE_ACE_SERVICE	Allows users to remove ACE services.
Setup ACE Service	EXCMD_SETUP_ACE_SERVICE	Allows users to configure ACE services.
Show ACE Service	EXCMD_INQUIRE_ACE_SERVICE	Allows users to view the details of a specific ACE service.
Show ACE Service Status	EXCMD_INQUIRE_ACE_SERVICE_STATUS	Allows users to view ACE Service statuses.
Show ACE Services	EXCMD_INQUIRE_ACE_SERVICE_NAMES	Allows users to view a list of the ACE services that exist.
Start ACE Service	EXCMD_START_ACE_SERVICE	Gives users the ability to start ACE services.
Stop ACE Service	EXCMD_STOP_ACE_SERVICE	Gives users the ability to disable ACE services.

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Teardown ACE Service	EXCMD_TEARDOWN_ACE_SERVICE	Gives users the ability to teardown ACE services.
Validate ACE Service	EXCMD_VALIDATE_ACE_SERVICE	Gives users the ability to validate ACE services.
ACE SHARED LIBRARY		
Delete ACE Shared Library	EXCMD_DELETE_ACE_SHARED_LIBRARY	Allows users to remove ACE shared libraries.
Setup ACE Shared Library	EXCMD_SETUP_ACE_SHARED_LIBRARY	Allows users to configure ACE shared libraries.
Show ACE Shared Libraries	EXCMD_INQUIRE_ACE_SHARED_LIBRARY_NAMES	Allows users to view a list of the ACE shared libraries that exist.
Show ACE Shared Library	EXCMD_INQUIRE_ACE_SHARED_LIBRARY	Allows users to view the details of a specific ACE shared library.
Show ACE Shared Library Status	EXCMD_INQUIRE_ACE_SHARED_LIBRARY_STATUS	Allows users to view the status of ACE shared libraries.
Teardown ACE Shared Library	EXCMD_TEARDOWN_ACE_SHARED_LIBRARY	Gives users the ability to teardown ACE shared libraries.
Validate ACE Shared Library	EXCMD_VALIDATE_ACE_SHARED_LIBRARY	Allow users to validate ACE shared libraries.
ACE SUB FLOW		
Show ACE Sub Flow	EXCMD_INQUIRE_ACE_SUB_FLOW	Allows users to view the details of a specific ACE sub flow.
Show ACE Sub Flows	EXCMD_INQUIRE_ACE_SUB_FLOW_NAMES	Allows users to view a list of the ACE sub flows that exist.
AUTHENTICATION INFORMATION		
Change Authentication Information	MQCMD_CHANGE_AUTH_INFO	Gives users the ability to change authentication information.
Copy Authentication Information	MQCMD_COPY_AUTH_INFO	Allows users to copy authentication information.

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Create Authentication Information	MQCMD_CREATE_AUTH_INFO	Allows users to create authentication information.
Delete Authentication Information	MQCMD_DELETE_AUTH_INFO	Allows users to remove authentication information.
Show Authentication Information	MQCMD_INQUIRE_AUTH_INFO_NAMES	Allows users to view authentication information.
Show Authentication Information Attributes	MQCMD_INQUIRE_AUTH_INFO	Allows users to view attributes of authentication information.
BUFFER POOL		
Change Buffer Pool	MQCMD_CHANGE_BUFFER_POOL	Allows users to update buffer pools.
Create Buffer Pool	MQCMD_CREATE_BUFFER_POOL	Allows users to create new buffer pools.
Delete Buffer Pool	MQCMD_DELETE_BUFFER_POOL	Gives users the ability to remove buffer pools.
CHANNEL (Where applicable, EMS and IBM channels use the same right)		
Change Channel	MQCMD_CHANGE_CHANNEL	Allows users to alter channels.
Copy Channel	MQCMD_COPY_CHANNEL	Gives users the ability to copy channels.
Create Channel	MQCMD_CREATE_CHANNEL	Gives users the ability to create channels.
Delete Channel	MQCMD_DELETE_CHANNEL	Gives users the ability to delete channels.
Ping Channel	MQCMD_PING_CHANNEL	Allows users to ping channels.
Reset Channel	MQCMD_RESET_CHANNEL	Allows users to reset channels.
Resolve Channel	MQCMD_RESOLVE_CHANNEL	Allows users to resolve channels.
Set Channel Authentication Records	MQCMD_SET_CHLAUTH_REC	Gives users the ability to set channel authentication records.
Show Channel Attributes	MQCMD_INQUIRE_CHANNEL	Allows users to view channel attributes.

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Show Channel Authentication Records	MQCMD_INQUIRE_CHLAUTH_RECS	Allows users to view channel authentication records.
Show Channel Status	MQCMD_INQUIRE_CHANNEL_STATUS	Allows users to view the status of channels.
Show Channels	MQCMD_INQUIRE_CHANNEL_NAMES	Allows users to view channels.
Start Channel	MQCMD_START_CHANNEL	Gives users the ability to start channels.
Start Channel Initiator	MQCMD_START_CHANNEL_INIT	Gives users the ability to start channel initiators.
Stop Channel	MQCMD_STOP_CHANNEL	Allows users to stop channels.
View Channel Authentication Profiles	EXCMD_INQUIRE_CHLAUTH_RECS_PROFILES	Allows Channel Authentication Profiles to be retrieved as part of the MQSC Snapshot feature.
CLUSTER QUEUE MANAGER		
Refresh Cluster	MQCMD_REFRESH_CLUSTER	Gives users the ability to refresh clusters.
Reset Cluster	MQCMD_RESET_CLUSTER	Gives users the ability to reset clusters.
Resume Cluster	MQCMD_RESUME_Q_MGR_CLUSTER	Gives users the ability to resume clusters.
Show Cluster Queue Manager Attributes	MQCMD_INQUIRE_CLUSTER_Q_MGR	Allows users to view cluster queue manager attributes.
Show Cluster Queue Managers	EXCMD_INQUIRE_CLUSQMGR_NAMES	Allow users to view cluster queue managers.
Suspend Cluster	MQCMD_SUSPEND_Q_MGR_CLUSTER	Gives users the ability to suspend clusters.
COMMUNICATION INFO		
Copy Communication Info	MQCMD_COPY_COMM_INFO	Allows users to copy communication info.
Create Communication Info	MQCMD_CREATE_COMM_INFO	Allows users to create communication info.

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Delete Communication Info	MQCMD_DELETE_COMM_INFO	Gives users the ability to delete communication info.
Edit Communication Info	MQCMD_CHANGE_COMM_INFO	Gives users the ability to update communication info.
Show Communication Info	EXCMD_INQUIRE_COMM_INFO_NAMES	Allows users to view communication info.
EMS Bridge		
Change Bridge Info	EXCMD_CHANGE_BRIDGE	Allows users to update bridge info.
Create Bridge Info	EXCMD_CREATE_BRIDGE	Allows users to create new bridge info.
Delete Bridge Info	EXCMD_DELETE_BRIDGE	Gives users the ability to delete bridge info.
Show Bridge Info	EXCMD_INQUIRE_BRIDGE	Allows users to view bridge info.
Show Bridge Info names	EXCMD_INQUIRE_BRIDGE_NAMES	Allows users to view the names of bridge info.
EMS Connection		
Destroy EMS Connection	EXCMD_DESTROY_EMS_CONNECTION	Allows users to destroy EMS connections.
Show EMS Connection Info	EXCMD_INQUIRE_EMS_CONNECTION	Allows users to view EMS connection info.
Show EMS Connection Info IDs	EXCMD_INQUIRE_EMS_CONNECTION_IDS	Allows users to view IDs of EMS connection info.
EMS CONSUMER		
Show EMS Consumer Info	EXCMD_INQUIRE_EMS_CONSUMER	Allows users to view EMS consumer info.
EMS DURABLES		
Create Durable Info	EXCMD_CREATE_DURABLE	Allows users to add new durable info.
Delete Durable Info	EXCMD_DELETE_DURABLE	Gives users the ability to remove durable info.

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Purge Durable Info	EXCMD_PURGE_DURABLE	Gives users the ability to remove durable info content.
Show Durable Info	EXCMD_INQUIRE_DURABLE	Allows users to view durable info.
Show Durable Info names	EXCMD_INQUIRE_DURABLE_NAMES	Allows users to view the names of durable info.
EMS JNDI Connection Factory		
Change EMS JNDI Connection Factory	EXCMD_CHANGE_EMS_JCF	Allows users to change EMS JNDI Connection Factories.
Create EMS JNDI Connection Factory	EXCMD_CREATE_EMS_JCF	Allows users to create EMS JNDI Connection Factories.
Delete EMS JNDI Connection Factory	EXCMD_DELETE_EMS_JCF	Allows users to remove EMS JNDI Connection Factories
Show EMS JNDI Connection Factory	EXCMD_INQUIRE_EMS_JCF	Allows users to view the details of a specific EMS JNDI Connection Factory.
Show EMS JNDI Connection Factories	EXCMD_INQUIRE_EMS_JCF_NAMES	Allows users to view a list of the EMS JNDI Connection Factories that exist.
EMS PRODUCER		
Show EMS Producer stats	EXCMD_INQUIRE_EMS_PRODUCER_STATS	Allows users to view EMS Producer statistics.
Show EMS Producer ids	EXCMD_INQUIRE_EMS_PRODUCER_IDS	Allows users to view IDs of EMS producers.
EMS ROUTE		
Change Route Info	EXCMD_CHANGE_ROUTE	Gives users the ability to update route info.
Create Route Info	EXCMD_CREATE_ROUTE	Gives users the ability to add new route info.
Delete Route Info	EXCMD_DELETE_ROUTE	Gives users the ability to remove route info.

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Show Route Info	EXCMD_INQUIRE_ROUTE	Allows users to view route info.
Show Route Info names	EXCMD_INQUIRE_ROUTE_NAMES	Allows users to view route info names.
Show Route Info statistics	EXCMD_INQUIRE_ROUTE_STATS	Allows users to view the statistics of route info.
EMS TRANSPORT		
Show Transport Info	EXCMD_INQUIRE_TRANSPORT	Displays the transport info for users.
Show Transport Info names	EXCMD_INQUIRE_TRANSPORT_NAMES	Allows users to view the names of transport info.
EVENTS		
Delete Alter Events	EXCMD_DELETE_ALTER_EVENT	Allows users to remove alter events.
Delete Bridge Events	EXCMD_DELETE_BRIDGE_EVENT	Allows users to remove bridge events.
Delete Channel Events	EXCMD_DELETE_CHANNEL_EVENT	Allows users to remove channel events.
Delete Command Events	EXCMD_DELETE_COMMAND_EVENT	Allows users to delete command events.
Delete Configure Events	EXCMD_DELETE_CONFIG_EVENT	Allows users to delete configure events.
Delete Logger Events	EXCMD_DELETE_LOGGER_EVENT	Not applicable.
Delete Manager Events	EXCMD_DELETE_MANAGER_EVENT	Allows users to delete manager events.
Delete Performance Events	EXCMD_DELETE_PERFM_EVENT	Not applicable.
Delete Queue Manager Events	EXCMD_DELETE_Q_MGR_EVENT	Allows users to delete queue manager events.
Delete Scheduler Events	EXCMD_DELETE_SCHEDULER_EVENT	Allows users to delete scheduler events.
Record Alter Events	EXCMD_ALTER_EVENT	Not applicable.

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Record Channel Events	MQCMD_CHANNEL_EVENT	Allows users to record channel events.
Record Configure Events	MQCMD_CONFIG_EVENT	Allows the workgroup server to store the configure event from MQ. If an agent is running as a user without this permission, then the workgroup server will not store the configure event.
Record Perform Events	MQCMD_PERFM_EVENT	Allows users to record perform events.
Record Queue Manager Events	MQCMD_Q_MGR_EVENT	Allows users to record queue manager events.
Record State Events	EXCMD_STATE_EVENT	Allows the workgroup server to store the state event. A state event indicates a change to the state of an object (such as a queue manager, node, listener, channel, or service). For example, the state of a queue manager might change from *Active* to *Stopped*, or from *Stopped* to *Unknown*..
Record Workgroup Server Events	EXCMD_MANAGER_EVENT	Not applicable.
Show Alter Events	EXCMD_INQUIRE_ALTER_EVENT	Allows users to view stored alter events.
Show Bridge Events	EXCMD_INQUIRE_BRIDGE_EVENT	Allows users to view bridge events.
Show Channel Events	EXCMD_INQUIRE_CHANNEL_EVENT	Allows users to view channel events.
Show Command Events	EXCMD_INQUIRE_COMMAND_EVENT	Allows users to view command events.
Show Configure Events	EXCMD_INQUIRE_CONFIG_EVENT	Allows users to view configure events.

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Show Logger Events	EXCMD_INQUIRE_LOGGER_EVENT	Allows users to view stored logger events.
Show Manager Events	EXCMD_INQUIRE_MANAGER_EVENT	Allows users to view manager events.
Show Performance Events	EXCMD_INQUIRE_PERFM_EVENT	Allows users to view stored performance events.
Show Queue Manager Events	EXCMD_INQUIRE_Q_MGR_EVENT	Allows users to view queue manager events.
Show Scheduler Events	EXCMD_INQUIRE_SCHEDULER_EVENT	Allows users to view scheduler events.
IIB APPLICATION		
Delete IIB Application	EXCMD_DELETE_IIB_APPLICATION	Gives users the ability to remove IIB applications.
Show IIB Application	EXCMD_INQUIRE_IIB_APPLICATION	Allows users to view the details of a specific IIB application.
Show IIB Application Status	EXCMD_INQUIRE_IIB_APPLICATION_STATUS	Allows users to view the status of IIB applications.
Show IIB Applications	EXCMD_INQUIRE_IIB_APPLICATION_NAMES	Allows users to view a list of the IIB applications that exist.
Start Flow Monitoring On IIB Application	EXCMD_START_FLOW_MONITORING_IIB_APPLICATION	Gives users the ability to start flow monitoring on IIB applications.
Stop Flow Monitoring On IIB Application	Stop Flow Monitoring On IIB Application	Gives users the ability to stop flow monitoring on IIB applications.
Start IIB Application	EXCMD_START_IIB_APPLICATION	Gives users the ability to start IIB applications.
Start Statistic On IIB Application	EXCMD_START_STATISTIC_IIB_APPLICATION	Gives users the ability to start statistics on IIB applications.
Stop IIB Application	EXCMD_STOP_IIB_APPLICATION	Allows users to stop IIB applications.
Stop Statistic On IIB Application	EXCMD_STOP_STATISTIC_IIB_APPLICATION	Allows users to stop statistics on IIB applications.

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IIB LIBRARY		
Delete IIB Library	EXCMD_DELETE_IIB_LIBRARY	Allows users to remove IIB libraries.
Show IIB Libraries	EXCMD_INQUIRE_IIB_LIBRARY_NAMES	Allows users to view a list of the IIB libraries that exist.
Show IIB Library	EXCMD_INQUIRE_IIB_LIBRARY	Allows users to view the details of a specific IIB library.
Show IIB Library Status	EXCMD_INQUIRE_IIB_LIBRARY_STATUS	Allows users to view the statues of IIB libraries.
Start Statistic On IIB Library	EXCMD_START_STATISTIC_IIB_LIBRARY	Allows users to start statistics on IIB libraries.
Stop Statistic On IIB Library	EXCMD_STOP_STATISTIC_IIB_LIBRARY	Allows users to stop statistics on IIB libraries.
IIB MESSAGE FLOW		
Delete IIB Message Flow	EXCMD_DELETE_IIB_MESSAGE_FLOW	Allows users to delete IIB message flows.
Show IIB Message Flow	EXCMD_INQUIRE_IIB_MESSAGE_FLOW	Allows users to view the details of a specific message flow.
Show IIB Message Flow Activity Log	EXCMD_INQUIRE_IIB_MESSAGE_FLOW_ACTIVITY_LOG	Allows users to view the activity logs of IIB message flows.
Show IIB Message Flow Status	EXCMD_INQUIRE_IIB_MESSAGE_FLOW_STATUS	Allow users to view the status of IIB message flows.
Show IIB Message Flows	EXCMD_INQUIRE_IIB_MESSAGE_FLOW_NAMES	Allows users to view a list of the IIB message flows that exist.
Start Flow Monitoring On IIB Message Flow	EXCMD_START_FLOW_MONITORING_IIB_MESSAGE_FLOW	Gives users the ability to start flow monitoring on IIB message flows.
Stop Flow Monitoring On IIB Message Flow	EXCMD_STOP_FLOW_MONITORING_IIB_MESSAGE_FLOW	Gives users the ability to stop flow monitoring on IIB message flows.
Start IIB Message Flow	EXCMD_START_IIB_MESSAGE_FLOW	Allows users to start IIB message flows.

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Start Statistic On IIB Message Flow	EXCMD_START_STATISTIC_IIB_MESSAGE_FLOW	Allows users to start statistics for IIB message flows.
Stop IIB Message Flow	EXCMD_STOP_IIB_MESSAGE_FLOW	Gives users the ability to stop IIB message flows.
Stop Recording On IIB Message Flow	Stop Recording On IIB Message Flow	Gives users the ability to stop recording IIB message flows.
Stop Statistic On IIB Message Flow	EXCMD_STOP_STATISTIC_IIB_MESSAGE_FLOW	Gives users the ability to stop statistics for IIB message flows.
IIB RESOURCE		
Delete IIB Resource	EXCMD_DELETE_IIB_RESOURCE	Allows users to remove IIB resources.
Show IIB Resource	EXCMD_INQUIRE_IIB_RESOURCE	Allows users to view the details of a specific IIB resource.
Show IIB Resources	EXCMD_INQUIRE_IIB_RESOURCE_NAMES	Allows users to view a list of the IIB resources that exist.
IIB REST API		
Delete IIB Rest API	EXCMD_DELETE_IIB_REST_API	Gives users the ability to remove IIB Rest APIs.
Show IIB Rest API	EXCMD_INQUIRE_IIB_REST_API	Allows users to view the details of a specific REST API.
Show IIB Rest API Status	EXCMD_INQUIRE_IIB_REST_API_STATUS	Allows users to view the status of IIB Rest APIs.
Show IIB Rest APIs	EXCMD_INQUIRE_IIB_REST_API_NAMES	Allows users to view a list of the REST APIs that exist.
Start Flow Monitoring On IIB Rest API	EXCMD_START_FLOW_MONITORING_IIB_REST_API	Gives users the ability to start flow monitoring on IIB Rest APIs.
Stop Flow Monitoring On IIB Rest API	EXCMD_STOP_FLOW_MONITORING_IIB_REST_API	Gives users the ability to stop flow monitoring on IIB REST APIs.
Start IIB Rest API	EXCMD_START_IIB_REST_API	Gives users the ability to start IIB Rest APIs.

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Start Statistic On IIB Rest API	EXCMD_START_STATISTIC_IIB_REST_API	Gives users the ability to start statistics on IIB REST APIs.
Stop IIB Rest API	EXCMD_STOP_IIB_REST_API	Gives users the ability to stop IIB Rest APIs.
Stop Statistic On IIB Rest API	EXCMD_STOP_STATISTIC_IIB_REST_API	Gives users the ability to stop statistics on IIB REST APIs.
IIB SERVER		
Create IIB Server	EXCMD_CREATE_IIB_SERVER	Allows users to create IIB servers.
Delete All Content On IIB Server	EXCMD_DELETE_ALL_CONTENT_IIB_SERVER	Gives users the ability to delete content on IIB servers.
Delete IIB Server	EXCMD_DELETE_IIB_SERVER	Gives users the ability to delete IIB servers.
Deploy Content On IIB Server	EXCMD_DEPLOY_CONTENT_IIB_SERVER	Gives users the ability to deploy content on IIB servers.
Show IIB Server	EXCMD_INQUIRE_IIB_SERVER	Allows users to view the details of a specific IIB server.
Show IIB Server Status	EXCMD_INQUIRE_IIB_SERVER_STATUS	Allows users to view the status of IIB servers.
Show IIB Servers	EXCMD_INQUIRE_IIB_SERVER_NAMES	Allows users to view a list of the IIB servers that exist.
Start All Apps On IIB Server	EXCMD_START_ALL_APP_TYPES_IIB_SERVER	Gives users the ability to start applications on IIB servers.
Start All Message Flows On IIB Server	EXCMD_START_ALL_MSG_FLOWS_IIB_SERVER	Gives users the ability to start all message flows on IIB servers.
Start All Resource Statistic On IIB Server	EXCMD_START_RESOURCE_STATISTIC_IIB_SERVER	Gives users the ability to start all resource statistics on IIB servers.
Start All Statistic On IIB Server	EXCMD_START_STATISTIC_IIB_SERVER	Allows user to access the Statistics On option on the IIB Servers viewlet action menu.

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Start IIB Server	EXCMD_START_IIB_SERVER	Allows users to start IIB servers (integration servers).
Stop All Apps On IIB Server	EXCMD_STOP_ALL_APP_TYPES_IIB_SERVER	Allows users to stop all applications on IIB servers.
Stop All Message Flows On IIB Server	EXCMD_STOP_ALL_ALL_MSG_FLOWS_IIB_SERVER	Allows users to stop all message flows on IIB servers.
Stop All Resource Statistic On IIB Server	EXCMD_STOP_RESOURCE_STATISTIC_IIB_SERVER	Allows users to stop all resource statistics on IIB servers.
Stop All Statistic On IIB Server	EXCMD_STOP_STATISTIC_IIB_SERVER	Allows users to stop all statistics on IIB servers.
Stop IIB Server	EXCMD_STOP_IIB_SERVER	Allows users to stop IIB servers.
IIB SERVICE		
Delete IIB Service	EXCMD_DELETE_IIB_SERVICE	Allows users to remove IIB services.
Show IIB Service	EXCMD_INQUIRE_IIB_SERVICE	Allows users to view the details of a specific IIB service.
Show IIB Service Status	EXCMD_INQUIRE_IIB_SERVICE_STATUS	Allows users to view the status of IIB services.
Show IIB Services	EXCMD_INQUIRE_IIB_SERVICE_NAMES	Allows users to view a list of the IIB services that exist.
Start Flow Monitoring On IIB Service	EXCMD_START_FLOW_MONITORING_IIB_SERVICE	Allows users to start flow monitoring on IIB services.
Stop Flow Monitoring On IIB Service	EXCMD_STOP_FLOW_MONITORING_IIB_SERVICE	Allows users to stop flow monitoring on IIB services.
Start IIB Service	EXCMD_START_IIB_SERVICE	Allows users to start IIB services.
Start Statistic On IIB Service	EXCMD_START_STATISTIC_IIB_SERVICE	Allows users to start statistics on IIB services.
Stop IIB Service	EXCMD_STOP_IIB_SERVICE	Allows users to stop IIB services.

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Stop Statistic On IIB Service	EXCMD_STOP_STATISTIC_IIB_SERVICE	Allows users to stop statistics on IIB services.
IIB SHARED LIBRARY		
Delete IIB Shared Library	EXCMD_DELETE_IIB_SHARED_LIBRARY	Allows users to remove IIB shared libraries.
Show IIB Shared Libraries	EXCMD_INQUIRE_IIB_SHARED_LIBRARY_NAMES	Allows users to view a list of the IIB shared libraries that exist.
Show IIB Shared Library	EXCMD_INQUIRE_IIB_SHARED_LIBRARY	Allows users to view the details of a specific IIB shared library.
Show IIB Shared Library Status	EXCMD_INQUIRE_IIB_SHARED_LIBRARY_STATUS	Allows users to view the status of IIB shared libraries.
IIB SUB FLOW		
Delete IIB Sub Flow	EXCMD_DELETE_IIB_SUB_FLOW	Allows users to remove IIB sub flows.
Show IIB Sub Flow	EXCMD_INQUIRE_IIB_SUB_FLOW	Allows users to view the details of a specific IIB sub flow.
Show IIB Sub Flow Status	EXCMD_INQUIRE_IIB_SUB_FLOW_STATUS	Allows users to view the status of IIB sub flows.
Show IIB Sub Flows	EXCMD_INQUIRE_IIB_SUB_FLOW_NAMES	Allows users to view a list of the IIB sub flows that exist.
KAFKA BROKER		
Change Kafka Broker	EXCMD_CHANGE_KAFKA_BROKER	Allows users to change Kafka brokers.
Show Kafka Broker Status	EXCMD_INQUIRE_KAFKA_BROKER_STATUS	Allows users to view the status of Kafka brokers.
Show Kafka Brokers	EXCMD_INQUIRE_KAFKA_BROKER_NAMES	Allows users to view Kafka brokers.
Show Kafka Broker	EXCMD_INQUIRE_KAFKA_BROKER	Allows users to view details of a Kafka broker.
KAFKA CONNECT		
Change Kafka Connect	EXCMD_CHANGE_KAFKA_CONNECT	Allows users to change Kafka connects.
Create Kafka Connect	EXCMD_CREATE_KAFKA_CONNECT	Allows users to create Kafka connects.

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Delete Kafka Connect	EXCMD_DELETE_KAFKA_CONNECT	Gives users the ability to delete Kafka connects.
Pause Kafka Connect	EXCMD_PAUSE_KAFKA_CONNECT	Allows users to pause Kafka connects.
Reset Kafka Connect Topics	EXCMD_RESET_KAFKA_CONNECT_TOPICS	Allows users to reset Kafka connect topics.
Restart Kafka Connect	EXCMD_RESTART_KAFKA_CONNECT	Allows users to restart Kafka connects.
Resume Kafka Connect	EXCMD_RESUME_KAFKA_CONNECT	Allows users to resume Kafka connects.
Show Kafka Connect	EXCMD_INQUIRE_KAFKA_CONNECT	Allows users to view the details of a specific Kafka connect.
Show Kafka Connect Status	EXCMD_INQUIRE_KAFKA_CONNECT_STATUS	Allows users to view the status of Kafka connects.
Show Kafka Connects	EXCMD_INQUIRE_KAFKA_CONNECT_NAMES	Allows users to view a list of the Kafka connects that exist.
KAFKA CONNECT INSTANCE		
Show Kafka Connect Instance	EXCMD_INQUIRE_KAFKA_CONNECT_INSTANCE	Allows users to view the details of a specific Kafka connect instance.
Show Kafka Connect Instances	EXCMD_INQUIRE_KAFKA_CONNECT_INSTANCE_NAMES	Allows users to view a list of the Kafka connect instances that exist.
KAFKA CONNECT PLUGIN		
Show Kafka Connect Plugin	EXCMD_INQUIRE_KAFKA_CONNECT_PLUGIN	Allows users to view the details of a specific Kafka connect plugin.
Show Kafka Connect Plugins	EXCMD_INQUIRE_KAFKA_CONNECT_PLUGIN_NAMES	Allows users to view a list of the Kafka connect plugins that exist.
Validate Kafka Connect Plugin	EXCMD_VALIDATE_KAFKA_CONNECT_PLUGIN	Gives users the ability to validate Kafka Connect plugins.
KAFKA CONNECT TASK		
Restart Kafka Connect Task	EXCMD_RESTART_KAFKA_CONNECT_TASK	Allows users to restart Kafka Connect tasks.

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Show Kafka Connect Task	EXCMD_INQUIRE_KAFKA_CONNECT_TASK	Allows users to view the details of a specific Kafka connect task.
Show Kafka Connect Task Status	EXCMD_INQUIRE_KAFKA_CONNECT_TASK_STATUS	Allows users to view the status of Kafka Connect tasks.
Show Kafka Connect Tasks	EXCMD_INQUIRE_KAFKA_CONNECT_TASK_NAMES	Allows users to view a list of the Kafka connect tasks that exist.
KAFKA CONSUMER		
Show Kafka Consumer	EXCMD_INQUIRE_KAFKA_CONSUMER	Allows users to view the details of a specific Kafka consumer.
Show Kafka Consumer Status	EXCMD_INQUIRE_KAFKA_CONSUMER_STATUS	Allow users to view the status of Kafka consumers.
Show Kafka Consumers	EXCMD_INQUIRE_KAFKA_CONSUMER_NAMES	Allows users to view a list of the Kafka consumers that exist.
KAFKA CONSUMER GROUP		
Create Kafka Consumer Group	EXCMD_CREATE_KAFKA_CONSUMER_GROUP	Allows users to create Kafka consumer groups.
Delete Kafka Consumer Group	EXCMD_DELETE_KAFKA_CONSUMER_GROUP	Allows users to remove Kafka consumer groups.
Delete Kafka Consumer Group Member	EXCMD_DELETE_KAFKA_CONSUMER_GROUP_MEMBER	Allows users to remove Kafka consumer group members.
Delete Kafka Consumer Group Offset	EXCMD_DELETE_KAFKA_CONSUMER_GROUP_OFFSET	Allows user to access the Delete Group Offset option on the Kafka Consumer viewlet action menu.
Show Kafka Consumer Groups	EXCMD_INQUIRE_KAFKA_CONSUMER_GROUP_NAMES	Allows users to view a list of the Kafka Consumer Groups that exist.
Show Kafka Consumer Group	EXCMD_INQUIRE_KAFKA_CONSUMER_GROUP	Allows users to view the details of a specific Kafka Consumer Group.

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Show Kafka Consumer Group Status	EXCMD_INQUIRE_KAFKA_CONSUMER_GROUP_STATUS	Allows users to view the status of Kafka Consumer Groups.
Show Kafka Consumer Group Offsets	EXCMD_INQUIRE_KAFKA_CONSUMER_GROUP_OFFSET	Allows users to view a list of the Kafka Consumer Group Offsets that exist.
Show Kafka Consumer Group Members	EXCMD_INQUIRE_KAFKA_CONSUMER_GROUP_MEMBER	Allows users to view a list of the Kafka Consumer Group Members that exist.
Kafka Ksql Instance		
Show Kafka Ksql Instances	EXCMD_INQUIRE_KAFKA_KSQL_INST_NAMES	Allows users to view a list of the Kafka Ksql instances that exist.
Show Kafka Ksql Instance	EXCMD_INQUIRE_KAFKA_KSQL_INST	Allows users to view the details of a specific Kafka Ksql Instance.
Execute Ksql On Kafka Ksql Instance	EXCMD_EXECUTE_KAFKA_KSQL_INST_KSQL	Allows users to execute Ksql on Kafka Ksql Instances.
Execute Query On Ksql Instance	EXCMD_EXECUTE_KAFKA_KSQL_INST_QUERY	Allows users to execute queries on Kafka Ksql Instances.
Show Kafka Ksql Instance Tables	EXCMD_INQUIRE_KAFKA_KSQL_INST_TABLES	Allows users to view a list of the Kafka Ksql instance tables that exist.
Show Kafka Ksql Instance Streams	EXCMD_INQUIRE_KAFKA_KSQL_INST_STREAMS	Allows users to view a list of the Kafka Ksql instance streams that exist.
Show Kafka Ksql Instance Queries	EXCMD_INQUIRE_KAFKA_KSQL_INST_QUERIES	Allows users to view a list of the Kafka Ksql instance queries that exist.
KAFKA PARTITION		
Change Kafka Partition	EXCMD_CHANGE_KAFKA_PARTITION	Allows users to change Kafka partitions.
Show Kafka Partition	EXCMD_INQUIRE_KAFKA_PARTITION	Allows users to view the details of a specific Kafka partition.

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Show Kafka Partition Status	EXCMD_INQUIRE_KAFKA_PARTITION_STATUS	Allows users to view the status of Kafka partitions.
Show Kafka Partitions	EXCMD_INQUIRE_KAFKA_PARTITION_NAMES	Allows users to view a list of the Kafka partitions that exist.
Kafka Replicator		
Show Kafka Replicators	EXCMD_INQUIRE_KAFKA_REPLICATOR_NAMES	Allows users to view a list of the Kafka replicators that exist.
Show Kafka Replicator	EXCMD_INQUIRE_KAFKA_REPLICATOR	Allows users to view the details of a specific Kafka replicator.
Show Kafka Replicator Workers	EXCMD_INQUIRE_KAFKA_REPLICATOR_WORKERS	Allows users to view a list of the Kafka replicator workers that exist.
Show Kafka Replicator Source Topics	EXCMD_INQUIRE_KAFKA_REPLICATOR_SRC_TOPICS	Allows users to view a list of the Kafka replicator source topics that exist.
Show Kafka Replicator Metrics	EXCMD_INQUIRE_KAFKA_REPLICATOR_METRICS	Allows users to see the Kafka replicator metrics.
Kafka Schema Registry		
Change Kafka Schema Registry	EXCMD_CHANGE_KAFKA_SCH_REG	Allows users to change Kafka schema registries.
Show Kafka Schema Registries	EXCMD_INQUIRE_KAFKA_SCH_REG_NAMES	Allows users to view a list of the Kafka schema registries that exist.
Show Kafka Schema Registry	EXCMD_INQUIRE_KAFKA_SCH_REG	Allows users to view the details of a specific Kafka schema registry.
Show Kafka Schema Registry Schema	EXCMD_INQUIRE_KAFKA_SCH_REG_SCHEMA	Allows users to view the details of a specific Kafka schema registry schema.

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Show Kafka Schema Registry Schema Subject Versions	EXCMD_INQUIRE_KAFKA_SCH_REG_SUBJECT_VERSIONS	Allows users to view a list of the Kafka Schema registry schema subject versions that exist.
Kafka Schema Registry Subject		
Change Kafka Schema Registry Subject	EXCMD_CHANGE_KAFKA_SCH_REG_SUBJ	Allows users to change Kafka schema registry subjects.
Check Schema Registered On Kafka Schema Registry Subject	EXCMD_CHECK_KAFKA_SCH_REG_SUBJ_REGISTERED_SCHEMA	Checks whether the schema has already been registered under the specified subject (REST API).
Delete Kafka Schema Registry Subject	EXCMD_DELETE_KAFKA_SCH_REG_SUBJ	Allows users to remove Kafka schema registry subjects.
Register Kafka Schema Registry Subject Schema	EXCMD_REGISTER_KAFKA_SCH_REG_SUBJ_SCHEMA	Allows users to register a Kafka schema registry subject schema.
Show Kafka Schema Registry Subject	EXCMD_INQUIRE_KAFKA_SCH_REG_SUBJ	Allows users to view the details of a specific Kafka schema registry subject.
Show Kafka Schema Registry Subjects	EXCMD_INQUIRE_KAFKA_SCH_REG_SUBJ_NAMES	Allows users to view a list of the Kafka schema registry subjects that exist.
Kafka Schema Registry Subject Versions		
Show Kafka Schema Registry Subject Versions	EXCMD_INQUIRE_KAFKA_SCH_REG_SUBJ_VER_NAMES	Allows users to view a list of the Kafka schema registry subject versions that exist.
Show Kafka Schema Registry Subject Version	EXCMD_INQUIRE_KAFKA_SCH_REG_SUBJ_VER	Allows users to view the details of a specific Kafka schema registry subject version.

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Delete Kafka Schema Registry Subject Version	EXCMD_DELETE_KAFKA_SCH_REG_SUBJ_VER	Allows users to remove Kafka schema registry subject versions.
Check Schema Compatible On Kafka Schema Registry Subject Version	EXCMD_CHECK_KAFKA_SCH_REG_SUBJ_VER_COMPATIBLE_SCHEMA	Checks whether the input schema is compatible with the version of the subject's schema (REST API).
KAFKA TOPIC		
Change Kafka Topic	EXCMD_CHANGE_KAFKA_TOPIC	Allows users to change Kafka topics.
Copy Kafka Topic	EXCMD_COPY_KAFKA_TOPIC	Allows users to copy Kafka topics.
Create Kafka Topic	EXCMD_CREATE_KAFKA_TOPIC	Allows users to create Kafka topics.
Delete Kafka Topic	EXCMD_DELETE_KAFKA_TOPIC	Allows users to remove Kafka topics.
Show Kafka Topic	EXCMD_INQUIRE_KAFKA_TOPIC	Allows users to view the details of a specific Kafka topic.
Show Kafka Topic Status	EXCMD_INQUIRE_KAFKA_TOPIC_STATUS	Allows users to view the status of Kafka topics.
Show Kafka Topics	EXCMD_INQUIRE_KAFKA_TOPIC_NAMES	Allows users to view a list of the Kafka topics that exist.
LISTENER		
Change Listeners	MQCMD_CHANGE_LISTENER	Allows users to change listeners.
Copy Listeners	MQCMD_COPY_LISTENER	Allows users to copy listeners.
Create Listeners	MQCMD_CREATE_LISTENER	Allows users to create listeners.
Delete Listeners	MQCMD_DELETE_LISTENER	Allows users to remove listeners.
Show Listener Attributes	MQCMD_INQUIRE_LISTENER	Allows users to view attributes of listeners.
Show Listeners	EXCMD_INQUIRE_LISTENER_NAMES	Allows users to view listeners.

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Show Listeners Status	MQCMD_INQUIRE_LISTENER_STATUS	Allows users to view the status of listeners.
Start Listeners	MQCMD_START_CHANNEL_LISTENER	Allows users to start listeners.
Stop Listener	MQCMD_STOP_CHANNEL_LISTENER	Allows users to stop listeners.
MESSAGES		
Change Folder	EXCMD_MG_CH_DIR	Allows users to change folders (deprecated)
Copy Messages	EXCMD_MG_COPY	Allows users to copy messages.
Create Messages	EXCMD_MG_NEW	Allows users to create messages.
Delete Messages	EXCMD_MG_DELETE	Allows users to remove messages.
Edit Messages	EXCMD_MG_MODIFY	Allows users to update messages.
Find Messages	EXCMD_MG_FIND	Allows users to find messages.
Load Messages	EXCMD_MG_LOAD	Allows users to load messages from a file.
Message Folder	EXCMD_MG_DIR	Deprecated
Move Messages	EXCMD_MG_MOVE	Allows users to move messages.
Requeue Messages	EXCMD_MG_REQUEUE	Not applicable.
Reroute Messages	EXCMD_MG_REROUTE	Allows users to reroute messages.
Save Messages	EXCMD_MG_SAVE	Allows users to save messages to a file.
Show Message Headers	EXCMD_MG_BROWSE_HDR	Allows users to view message headers only.
Show Messages	EXCMD_MG_BROWSE	Allows users to view messages including content.
Unload Messages	EXCMD_MG_UNLOAD	Not applicable.
NAMELIST		

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Change Namelist	MQCMD_CHANGE_NAMELIST	Allows users to change namelists.
Copy Namelist	MQCMD_COPY_NAMELIST	Allows users to copy namelists.
Create Namelist	MQCMD_CREATE_NAMELIST	Allows users to create namelists.
Delete Namelist	MQCMD_DELETE_NAMELIST	Allows users to delete namelists.
Show Namelist Attributes	MQCMD_INQUIRE_NAMELIST	Allows users to view namelist attributes.
Show Namelists	MQCMD_INQUIRE_NAMELIST_NAMES	Allows users to view namelists.
NAVIGATOR GUI FEATURES		
Add/Update/Delete Favorites (Recommended)	MANAGE_FAVORITES	Gives users the ability to add, update, or delete favorites viewlets.
Allow Force Attributes Refresh Option	FORCE_ATTRIBUTES_REFRESH	Gives users the ability to force attributes refresh (deprecated).
Allow Create Connection On Import	ALLOW_CONNECTION_CREATION_ON_IMPORT	When importing data, a user who has this permission can allow a new workgroup server connection to be added automatically at import, if needed. At dashboard import, the user can select the **Add if not found** option from the *Map Connections* dialog **User Connection** list. As a result, if none of the values for the user's existing connections (specifically, port and connection list) match the importing connections, new connections are added.
Show Navigator Statistics	SHOW_STATISTICS	Allows users to click the Statistics button on the toolbar to access the Statistics report.

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Allow Data Export To File	ALLOW_DATA_EXPORT	Allows users to export dashboard and viewlets to a file.
Allow Data Import From File	ALLOW_DATA_IMPORT	Allows users to import dashboards and viewlets from a file.
Configure Connections	CONFIGURE_CONNECTIONS	Allows a user to define a named mapping to the workgroup server (WGS) and make it available for usage. Users can then choose a descriptive connection name from a list without needing to understand the WGS configuration.
Copy All Messages	COPY_ALL_MESSAGES	Allows users to copy **all** messages.
Copy Extended MQ Object Attributes	EXTENDED_COPY	Allows users to copy extended IBM MQ object attributes (deprecated).
Create Queue Managers Cluster	CREATE_QM_CLUSTER	Allows users to create queue managers clusters.
Create Shared Favorites Folders	CREATE_SHARED_FAVORITES	Allows users to create shared favorites folders (deprecated).
Create Shared Searches	CREATE_SHARED_SEARCHES	Allows users to create shared dashboards.
Customize Browse Options	CUSTOMIZE_BROWSE_OPTIONS	Allows users to customize the Browse options in Settings (Message Commands tab).
Customize Channel Status Columns	CUSTOMIZE_CHANNEL_STATUS_COLUMNS	Not applicable.
Customize Load Messages Options	CUSTOMIZE_LOAD_MESSAGES_OPTIONS	Allows users to customize the Load Message options in Settings.
Customize Message Columns	CUSTOMIZE_MESSAGE_COLUMNS	Allows users to create custom schemas for messages.

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Customize Queue Status Columns	CUSTOMIZE_QUEUE_STATUS_COLUMNS	Not applicable.
Customize Save Messages Options	CUSTOMIZE_SAVE_MESSAGES_OPTIONS	Allows users to customize the Save Message options in Settings.
Customize Status Filters	CUSTOMIZE_STATUS_FILTERS	Deprecated
Delete All Messages	DELETE_ALL_MESSAGES	Allows users to remove **all** messages.
Delete Searches (Recommended)	DELETE_SEARCHES	Allows users to delete viewlets (all Nastel Navigator GUI users must have this enabled).
Display Security Authorizations	DISPLAY_AUTHORIZATIONS	Displays the Security Manager icon on the Nastel Navigator toolbar. The icon opens the Nastel Navigator Security Manager login page.
Edit Search Parameters (Recommended)	EDIT_SEARCHES	Allows users to change viewlets (all Nastel Navigator GUI users must have this enabled).
Make New Searches (Recommended)	PERFORM_SEARCHES	Allows users to create new viewlets (all Nastel Navigator GUI users must have this enabled).
Manage Administration	MANAGE_ADMINISTRATION	Allows users to edit Global settings.
Manage Custom Attributes	EXCMD_SET_CUSTOMPROPS	Allow users to add, modify, delete custom attribute filters.
Manage Dashboard Tags Data	MANAGE_DASH_TAGS_DATA	Allow users to add, edit, and delete dashboard tags.
Manage Environment Level	MANAGE_ENVIRONMENT_LEVEL	Allow users to create, edit, and delete custom formats for a label that indicates the current environment, and to turn the label on and off.

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Manage Global Attribute Filters	MANAGE_GLOBAL_ATTR_FILTERS	Allow users to add, edit, and delete global attribute filters.
Manage Global Message Criteria	MANAGE_GLOBAL_MSG_CRITERIA	Allow users to add, edit, and delete global message criteria records.
Manage Private Attribute Filters	MANAGE_PRIVATE_ATTR_FILTERS	Allow users to add, edit, and delete their own attribute filters.
Manage Private Message Criteria	MANAGE_PRIVATE_MSG_CRITERIA	Allow users to add, edit, and delete their own message criteria records.
Manage Shared Attribute Filters	MANAGE_SHARED_ATTR_FILTERS	Allow users to share the attribute filters they create with groups.
Manage Shared Message Criteria	MANAGE_SHARED_MSG_CRITERIA	Allow users to share the message criteria sets they create with groups.
Manage Tag Assignment To Dashboards	MANAGE_DASH_TO_TAGS	Allow users to assign tags to dashboards.
Move All Messages	MOVE_ALL_MESSAGES	Allows users to move **all** messages.
Save Searches (Recommended)	SAVE_SEARCHES	Allows users to save viewlets from session to session (all Nastel Navigator GUI users must have this enabled).
Set Security Authorizations	SET_AUTHORIZATIONS	Allows users to access the security authorization dialogues.
Show Actions	SHOW_ACTIONS	Deprecated.
Show All Groups For Shared Dashboards	MQPERMS_SHOW_ALL_GROUPS_FOR_SHARED_DASH	Allows users to share a dashboard with any defined group.

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Show Attributes	SHOW_ATTRIBUTES	Allows users to view the attributes dialogues. To view attributes, you must have this right enabled, as well as the rights for the specific object.
Show Client Connections	SHOW_CLNTCONNS	Deprecated
Show Custom Attributes	EXCMD_INQUIRE_CUSTOMPROPS_NAMES	Allows users to view custom attributes.
Show Events	SHOW_EVENTS	Allows users to see events generated.
Show Favorites (Recommended)	SHOW_FAVORITES	Allows users to see their Favorites folders.
Show Search Folder (Recommended)	SHOW_SEARCHES	Allows users to see viewlets (all Nastel Navigator GUI users must have this enabled).
Show Status	SHOW_STATUS	Allows users to view status dialogues. To view status, you must have this right enabled, as well as the rights for the specific object.
Show Telemetry Connections	SHOW_MQTT	Deprecated
Show Topology	SHOW_TOPOLOGY	Allows users to see topology diagrams.
Use Dashboard As Template	MQPERMS_USE_DASHBOARD_AS_TEMPLATE	Allows users to create dashboard templates.
Use Shared Favorites Folders (Recommended)	INCLUDE_SHARED_FAVORITES	Allows users to change favorites folders.
Use Shared Searches (Recommended)	INCLUDE_SHARED_SEARCHES	Allows users to use shared viewlets.
NODE (agent or connection manager)		

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Change Node	EXCMD_CHANGE_MQNODE	Allows users to change nodes.
Change Node Stats	EXCMD_CHANGE_MQNODE_STAT	Allows users to change node stats.
Create Node	EXCMD_CREATE_MQNODE	Allows users to create nodes.
Delete Node	EXCMD_DELETE_MQNODE	Allows users to remove nodes
Manage Node	EXCMD_MANAGE_MQNODE	Allows users to manage nodes.
Show Node Attributes	EXCMD_INQUIRE_MQNODE	Allows users to view node attributes.
Show Nodes (Required)	EXCMD_INQUIRE_MQNODE_NAMES	Allows users to view nodes.
Start All Node Objects	EXCMD_START_MQNODE	Allows users to start node objects.
Stop All Node Objects	EXCMD_STOP_MQNODE	Allows users to stop node objects.
UnManage Node	EXCMD_UNMANAGE_MQNODE	Allows users to unmanage nodes.
PAGE SET		
Change PageSet	MQCMD_CHANGE_PAGE_SET	Allows users to change PageSets.
Create PageSet	MQCMD_CREATE_PAGE_SET	Not applicable.
Delete PageSet	MQCMD_DELETE_PAGE_SET	Allows users to remove PageSets.
PROCESS		
Change Process	MQCMD_CHANGE_PROCESS	Allows users to change processes.
Copy Process	MQCMD_COPY_PROCESS	Allows users to copy processes.
Create Process	MQCMD_CREATE_PROCESS	Allows users to create processes.
Delete Process	MQCMD_DELETE_PROCESS	Allows users to remove processes.
Show Process Attributes	MQCMD_INQUIRE_PROCESS	Allows users to view the attributes of processes.
Show Processes	MQCMD_INQUIRE_PROCESS_NAMES	Allows users to view processes.

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Start Process	EXCMD_START_PROCESS	Allows users to start processes.
QUEUE (Where applicable, EMS and IBM queues use the same right)		
Change Queue	MQCMD_CHANGE_Q	Allows users to change queues.
Change Queue Extended	EXCMD_CHANGE_Q_EX	Allows users to enable or inhibit an MQ queue for get or put.
Clear Messages from Queue	MQCMD_CLEAR_Q	Allows users to clear MQ queue messages.
Copy Queue	MQCMD_COPY_Q	Allows users to copy queues.
Create Queue	MQCMD_CREATE_Q	Allows users to create queues.
Delete Queue	MQCMD_DELETE_Q	Allows users to remove queues.
Purge Queue	EXCMD_PURGE_Q	Not applicable.
Refresh Queue Runtime	EXCMD_INQUIRE_Q_RUNTIME	Allows users to create a new reroute template.
Reset Queue Statistics	MQCMD_RESET_Q_STATS	Not applicable.
Show Queue Attributes	MQCMD_INQUIRE_Q	Allows users to view queue attributes.
Show EMS Queue Stats	EXCMD_INQUIRE_Q_STATS	Allows users to view EMS queue statistics.
Show Queue Status	MQCMD_INQUIRE_Q_STATUS	Allows users to view the status of queues.
Show Queues	MQCMD_INQUIRE_Q_NAMES	Allows users to view queues.
QUEUE MANAGER (can apply to all manager types)		
Change EMS ACL Entry	EXCMD_CHANGE_EMS_ACL_ENTRY	Gives users the ability to change EMS ACL entries.
Change EMS Group	EXCMD_CHANGE_EMS_GROUP	Gives users the ability to change EMS groups.
Change EMS User	EXCMD_CHANGE_EMS_USER	Allows users to change EMS users.
Change Queue Manager	MQCMD_CHANGE_Q_MGR	Allows users to change managers.

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Change Queue Manager Stats	EXCMD_CHANGE_Q_MGR_STAT	Not applicable.
Compare managers	EXCMD_COMPARE_MANAGER	Allows user to use the "Compare" action from a Queue Manager viewlet when multiple queue managers are selected
Create EMS Group	EXCMD_CREATE_EMS_GROUP	Allows users to create EMS groups.
Create EMS User	EXCMD_CREATE_EMS_USER	Allows users to create EMS users.
Create Kafka ACL Entry	EXCMD_CREATE_KAFKA_ACL	Allows users to create Kafka ACL entries.
Create Queue Manager	EXCMD_CREATE_Q_MGR	Allows users to create queue managers.
Create Text File	EXCMD_CREATE_TEXT_FILE	Allows users to create text files (deprecated).
Delete Authentication Records	MQCMD_DELETE_AUTH_REC	Gives users the ability to delete MQ authentication records.
Delete EMS Group	EXCMD_DELETE_EMS_GROUP	Gives users the ability to remove EMS groups.
Delete EMS User	EXCMD_DELETE_EMS_USER	Gives users the ability to remove EMS users.
Delete Kafka ACL Entry	EXCMD_DELETE_KAFKA_ACL	Gives users the ability to remove Kafka ACL entries.
Delete Queue Manager	EXCMD_DELETE_Q_MGR	Gives users the ability to remove queue managers.
Execute MQSC command	MQCMD_ESCAPE	Allows users to execute all MQSC commands.
Execute Read-Only MQSC command	EXCMD_ESCAPE_VIEW	Allows users to execute read-only commands using the MQSC console (MQSC > Console). For MQ queue managers and EMS managers.
Inquire Connection	MQCMD_INQUIRE_CONNECTION	Allows users to inquire MQ connections.

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Join Cluster	JOIN_CLUSTER	Allows users to join a queue manager with a cluster.
Leave Cluster	LEAVE_CLUSTER	Allows users to remove a queue manager from a cluster.
Ping Queue Manager	MQCMD_PING_Q_MGR	Allows users to ping managers.
Refresh Security	MQCMD_REFRESH_SECURITY	Allows users to update the cached data in the workgroup server.
Set Authentication Records	MQCMD_SET_AUTH_REC	Gives users the ability to set authentication records.
Show Authentication Entity	MQCMD_INQUIRE_ENTITY_AUTH	Not applicable.
Show Authentication Records	MQCMD_INQUIRE_AUTH_RECS	Allows users to view authentication records.
Show EMS ACL Destination	EXCMD_INQUIRE_EMS_ACL_DESTINATION	Allows users to view EMS ACL destinations.
Show EMS ACL Entries	EXCMD_INQUIRE_EMS_ACL_ENTRIES	Allows users to view EMS ACL entries.
Show EMS ACL Principal	EXCMD_INQUIRE_EMS_ACL_PRINCIPAL	Allows users to view EMS ACL principals.
Show EMS Group	EXCMD_INQUIRE_EMS_GROUP	Allows users to view the details of a specific EMS group.
Show EMS Groups	EXCMD_INQUIRE_EMS_GROUP_NAMES	Allows users to view a list of the EMS groups that exist.
Show EMS Server Info	EXCMD_INQUIRE_EMS_SERVER	Allows users to view EMS server information.
Show EMS Server Info names	EXCMD_INQUIRE_EMS_SERVER_NAMES	Allows users to view EMS server information names.
Show EMS User	EXCMD_INQUIRE_EMS_USER	Allows users to view the details of a specific EMS user.

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Show EMS Users	EXCMD_INQUIRE_EMS_USER_NAMES	Allows users to view a list of the EMS users that exist.
Show IIB Node	EXCMD_INQUIRE_IIB_NODE	Allows users to view the details of a specific IIB node.
Show IIB Node Admin Log	EXCMD_INQUIRE_IIB_NODE_ADMIN_LOG	Allows users to access the IIB/ACE Admin log API.
Show IIB Nodes	EXCMD_INQUIRE_IIB_NODE_NAMES	Allows users to view a list of the IIB node that exist.
Show Kafka ACL Entries	EXCMD_INQUIRE_KAFKA_ACL_ALL	Allows users to view Kafka ACL entries.
Show Kafka Cluster	EXCMD_INQUIRE_KAFKA_CLUSTER	Allows users to view the details of a specific Kafka cluster.
Show Kafka Clusters	EXCMD_INQUIRE_KAFKA_CLUSTER_NAMES	Allows users to view a list of the Kafka clusters that exist.
Show Log File	EXCMD_INQUIRE_TEXT_FILE	Allows users to view log files.
Show Log File Names	EXCMD_INQUIRE_LOG_NAMES	Allows users to view log file names.
Show PubSub Status	MQCMD_INQUIRE_PUBSUB_STATUS	Allows users to view the status of PubSubs.
Show Queue Manager Attributes	MQCMD_INQUIRE_Q_MGR	Allows users to view the attributes of managers.
Show Queue Manager Status	MQCMD_INQUIRE_Q_MGR_STATUS	Allows users to view the status of queue managers.
Show Queue Managers (Required)	EXCMD_INQUIRE_Q_MGR_NAMES	Allows users to view managers.
Start Queue Manager	EXCMD_START_Q_MGR	Allows users to start managers.
Stop Connection	MQCMD_STOP_CONNECTION	Gives users the ability to stop connections.
Stop Queue Manager	EXCMD_STOP_Q_MGR	Gives users the ability to stop queue managers.

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Submit MQSC Script	EXCMD_MQSC_SCRIPT	Allows users to submit MQSC scripts.
Submit Read-Only MQSC Script	EXCMD_MQSC_SCRIPT_VIEW	Allows users to execute read-only commands using MQSC script (MQSC > Apply Script). For MQ queue managers and EMS managers.
Test Queue Manager	EXCMD_TEST_Q_MGR	Gives users the ability to test queue managers (deprecated).
SERVICE		
Change Service	MQCMD_CHANGE_SERVICE	Allow users to change services.
Copy Service	MQCMD_COPY_SERVICE	Allow users to copy services.
Create Service	MQCMD_CREATE_SERVICE	Allow users to create services.
Delete Service	MQCMD_DELETE_SERVICE	Allow users to remove services.
Show Service Attributes	MQCMD_INQUIRE_SERVICE	Allows users to view the attributes of services.
Show Service Status	MQCMD_INQUIRE_SERVICE_STATUS	Allows users to view the status of services.
Show Services	EXCMD_INQUIRE_SERVICE_NAMES	Allows users to view services.
Start Service	MQCMD_START_SERVICE	Allows users to start services.
Stop Service	MQCMD_STOP_SERVICE	Allows users to stop services.
SOLACE ACL PROFILE		
Add to favorites	MANAGE_FAVORITES	Allows users to add Solace ACL profiles to favorite viewlets.

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Browse Exceptions	At least one: EXCMD_INQUIRE_SOLACE_ACL_PROFILE_CLIENT_CONNECT_EXCEPTION, EXCMD_INQUIRE_SOLACE_ACL_PROFILE_PUBLISH_TOPIC_EXCEPTION, EXCMD_INQUIRE_SOLACE_ACL_PROFILE_SUBSCRIBE_TOPIC_EXCEPTION, EXCMD_INQUIRE_SOLACE_ACL_PROFILE_SUBSCRIBE_SHARE_NAME_EXCEPTION	Allows users to browse the exceptions of Solace ACL profile subobjects.
Commands → Delete	EXCMD_DELETE_SOLACE_ACL_PROFILE	Allows users to delete Solace ACL profiles.
Force Update	EXCMD_INQUIRE_SOLACE_ACL_PROFILE	Allows user to perform Force Update action on Solace ACL profiles.
Properties	EXCMD_INQUIRE_SOLACE_ACL_PROFILE, EXCMD_CHANGE_SOLACE_ACL_PROFILE	Allows users to change Solace ACL profiles.
Show Object Attributes	EXCMD_INQUIRE_SOLACE_ACL_PROFILE, SHOW_ATTRIBUTES	Allows users to view the attributes of Solace ACL profiles.
SOLACE BRIDGE		
Change Solace Bridge	EXCMD_INQUIRE_SOLACE_BRIDGE, EXCMD_CHANGE_SOLACE_BRIDGE	Allows users to change Solace bridges.
Change Solace Bridge Status	EXCMD_CHANGE_SOLACE_BRIDGE_STATUS	Allows users to change the status of (enable or disable) Solace bridges.
Clear Solace Bridge Event	EXCMD_CLEAR_SOLACE_BRIDGE_EVENT	Allows users to clear a specified Solace bridge event.
Clear Solace Bridge Statistics	EXCMD_INQUIRE_SOLACE_BRIDGE_STATISTICS	Allows users to clear the statistics of Solace bridges.
Create Solace Bridge	EXCMD_CREATE_SOLACE_BRIDGE	Allows users to create Solace bridges.
Create Solace Bridge Remote Subscription	EXCMD_CREATE_SOLACE_BRIDGE_REMOTE_SUBSCRIPTION	Allows users to create Solace bridge remote subscriptions.
Delete Solace Bridge	EXCMD_DELETE_SOLACE_BRIDGE	Allows users to remove Solace bridges.
Delete Solace Bridge Remote Subscription	EXCMD_DELETE_SOLACE_BRIDGE_REMOTE_SUBSCRIPTION	Allows users to remove Solace bridge remote subscriptions.

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Disconnect Solace Bridge	EXCMD_DISCONNECT_SOLACE_BRIDGE	Allows users to disconnect a Solace bridge.
Show Solace Bridge	EXCMD_INQUIRE_SOLACE_BRIDGE	Allows users to view the details of a specific bridge.
Show Solace Bridge Remote Subscription	EXCMD_INQUIRE_SOLACE_BRIDGE_REMOTE_SUBSCRIPTION	Allows users to view Solace bridge remote subscriptions.
Show Solace Bridge Statistics	EXCMD_INQUIRE_SOLACE_BRIDGE_STATISTICS	Allows users to view bridge statistics.
Show Solace Bridge Status	EXCMD_INQUIRE_SOLACE_BRIDGE_STATUS	Allows users to view the status of Solace bridges.
Show Solace Bridges	EXCMD_INQUIRE_SOLACE_BRIDGE_NAMES	Allows users to view a list of the bridges that exist.
SOLACE BROKER		
Add to favorites	MANAGE_FAVORITES	Allows users to add Solace bridges to favorite viewlets.
Events	EXCMD_INQUIRE_ALTER_EVENT	Allows users to view stored alter events.
Force Update	EXCMD_INQUIRE_SOLACE_BROKER	Allows user to perform Force Update action on Solace bridges.
Properties	EXCMD_CHANGE_SOLACE_BROKER	Allows users to change Solace brokers.
SEMP	EXCMD_MQSC_SCRIPT, EXCMD_MQSC_SCRIPT_VIEW	Allows users to perform SEMP commands.
Show Object Attributes	EXCMD_INQUIRE_SOLACE_BROKER, SHOW_ATTRIBUTES	Allows users to display the attributes of Solace brokers.
Statistics	EXCMD_INQUIRE_SOLACE_BROKER_STATISTICS	Allows users to view the statistics of Solace brokers.
SOLACE CACHE CLUSTER		
Change Solace Cache Cluster	EXCMD_CHANGE_SOLACE_CACHE_CLUSTER	Allows users to change Solace cache clusters.

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Change Solace Cache Cluster Status	EXCMD_CHANGE_SOLACE_CACHE_CLUSTER_STATUS	Allows users to change the status of (enable or disable) Solace cache clusters.
Clear Solace Cache Cluster Event	EXCMD_CLEAR_SOLACE_CACHE_CLUSTER_EVENT	Allows users to clear a specified Solace cache cluster event.
Create Solace Cache Cluster	EXCMD_CREATE_SOLACE_CACHE_CLUSTER	Allows users to create a Solace cache cluster.
Create Solace Cache Cluster Home Cache Cluster	EXCMD_CREATE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER	Allows users to create a Solace home cache cluster.
Create Solace Cache Cluster Home Cache Cluster Topic Prefix	EXCMD_CREATE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER_TOPIC	Allows users to create a Solace home cache cluster topic prefix.
Create Solace Cache Cluster Topic	EXCMD_CREATE_SOLACE_CACHE_CLUSTER_TOPIC	Allows users to create a Solace cache cluster topic.
Delete Solace Cache Cluster	EXCMD_DELETE_SOLACE_CACHE_CLUSTER	Allows users to delete Solace cache clusters.
Delete Solace Cache Cluster Home Cache Cluster	EXCMD_DELETE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER	Allows users to delete a Solace home cache cluster.
Delete Solace Cache Cluster Home Cache Cluster Topic Prefix	EXCMD_DELETE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER_TOPIC	Allows users to delete a Solace home cache cluster topic prefix.
Delete Solace Cache Cluster Messages	EXCMD_DELETE_SOLACE_CACHE_CLUSTER_MESSAGES	Allows users to delete Solace cache cluster messages.
Delete Solace Cache Cluster Topic	EXCMD_DELETE_SOLACE_CACHE_CLUSTER_TOPIC	Allows users to delete Solace cache cluster topics.
Show Solace Cache Cluster	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER	Allows users to view the details of a specific Solace cache cluster.

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Show Solace Cache Cluster Advanced	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_ADVANCED	Allows users to view advanced properties for Solace cache clusters by turning on the Advanced slider in the properties dialog.
Show Solace Cache Cluster Home Cache Cluster	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER	Allows users to view Solace home cache clusters.
Show Solace Cache Cluster Home Cache Cluster Topic Prefix	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_HOME_CACHE_CLUSTER_TOPIC	Allows users to view Solace home cache cluster topic prefixes.
Show Solace Cache Cluster Status	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_STATUS	Allows users to view the status of Solace cache clusters.
Show Solace Cache Cluster Topic	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_TOPIC	Allows users to view Solace cache cluster topics.
Show Solace Cache Clusters	EXCMD_INQUIRE_SOLACE_CACHE_CLUSTER_NAMES	Allows users to view a list of the Solace cache clusters that exist.
Start Solace Cache Cluster	EXCMD_START_SOLACE_CACHE_CLUSTER	Allows users to start a Solace cache cluster.
SOLACE CACHE INSTANCE		
Backup Solace Cache Instance Messages	EXCMD_BACKUP_SOLACE_CACHE_INSTANCE_MESSAGES	Allows users to back up Solace cache instance messages.
Cancel Solace Cache Instance Backup Messages	EXCMD_CANCEL_SOLACE_CACHE_INSTANCE_BACKUP_MESSAGES	Allows users to cancel an ongoing Solace cache instance message backup.
Cancel Solace Cache Instance Restore Messages	EXCMD_CANCEL_SOLACE_CACHE_INSTANCE_RESTORE_MESSAGES	Allows users to cancel an ongoing Solace cache instance message restore.
Change Solace Cache Instance	EXCMD_CHANGE_SOLACE_CACHE_INSTANCE	Allows users to change Solace cache instances.

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Change Solace Cache Instance Status	EXCMD_CHANGE_SOLACE_CACHE_INSTANCE_STATUS	Allows users to change the status of (enable or disable) Solar cache instances.
Clear Solace Cache Instance Event	EXCMD_CLEAR_SOLACE_CACHE_INSTANCE_EVENT	Allows users to clear a specified Solace cache instance event.
Clear Solace Cache Instance Statistics	EXCMD_CLEAR_SOLACE_CACHE_INSTANCE_STATS	Allows users to clear the statistics of Solace cache instances.
Create Solace Cache Instance	EXCMD_CREATE_SOLACE_CACHE_INSTANCE	Allows users to create Solace cache instances.
Delete Solace Cache Instance	EXCMD_DELETE_SOLACE_CACHE_INSTANCE	Allows users to remove Solace cache instances.
Delete Solace Cache Instance Messages	EXCMD_DELETE_SOLACE_CACHE_INSTANCE_MESSAGES	Allows users to remove Solace cache instance messages.
Restore Solace Cache Instance Messages	EXCMD_RESTORE_SOLACE_CACHE_INSTANCE_MESSAGES	Allows users to restore Solace cache instance messages.
Show Solace Cache Instance	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE	Allows users to view the details of a specific Solace cache instance.
Show Solace Cache Instance Remote Home Cache Cluster	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE_REMOTE_HOME_CACHE_CLUSTER	Allows users to view Solace cache instance remote home cache clusters.
Show Solace Cache Instance Remote Topic	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE_REMOTE_TOPIC	Allows users to view Solace cache instance remote topics.
Show Solace Cache Instance Statistics	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE_STATISTICS	Allows users to view the statistics of Solace cache instances.
Show Solace Cache Instance Status	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE_STATUS	Allows users to view the status of Solace cache instances.
Show Solace Cache Instances	EXCMD_INQUIRE_SOLACE_CACHE_INSTANCE_NAMES	Allows users to view a list of the Solace cache instances that exist.
Start Solace Cache Instance	EXCMD_START_SOLACE_CACHE_INSTANCE	Allows users to start Solace cache instances.
SOLACE CLIENT		

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Clear Solace Client Event	EXCMD_CLEAR_SOLACE_CLIENT_EVENT	Allows users to clear specified Solace client events.
Clear Solace Client Statistics	EXCMD_CLEAR_SOLACE_CLIENT_STATS	Allows users to clear the statistics of Solace clients.
Delete Solace Client Transacted Session	EXCMD_DELETE_SOLACE_CLIENT_TRANSACTED_SESSION	Allows users to remove Solace client transacted sessions.
Disconnect Solace Client	EXCMD_DISCONNECT_SOLACE_CLIENT	Allows users to disconnect Solace clients.
Show Solace Client	EXCMD_INQUIRE_SOLACE_CLIENT	Allows users to view the details of a specific Solace client.
Show Solace Client Connection	EXCMD_INQUIRE_SOLACE_CLIENT_CONNECTION	Allows users to view Solace client connections.
Show Solace Client Queue Statistics	EXCMD_INQUIRE_SOLACE_CLIENT_QUEUE_STATS	Allows users to view Solace client queue statistics.
Show Solace Client RX Flow	EXCMD_INQUIRE_SOLACE_CLIENT_RX_FLOW	Allows users to view Solace client RX flows.
Show Solace Client Statistics	EXCMD_INQUIRE_SOLACE_CLIENT_STATISTICS	Allows users to view the statistics of Solace clients.
Show Solace Client Subscription	EXCMD_INQUIRE_SOLACE_CLIENT_SUBSCRIPTION	Allows users to view Solace client subscriptions.
Show Solace Client Transacted Session	EXCMD_INQUIRE_SOLACE_CLIENT_TRANSACTED_SESSION	Allows users to view Solace client transacted sessions.
Show Solace Client TX Flow	EXCMD_INQUIRE_SOLACE_CLIENT_TX_FLOW	Allows users to view Solace client TX flows.
Show Solace Clients	EXCMD_INQUIRE_SOLACE_CLIENT_NAMES	Allows users to view a list of the Solace clients that exist.
SOLACE CLIENT CERTIFICATE AUTHORITY		

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Change Solace Client Certificate Authority	EXCMD_CHANGE_SOLACE_CLIENT_CERT_AUT	Allows users to change Solace client certificate authorities.
Create Solace Client Certificate Authority	EXCMD_CREATE_SOLACE_CLIENT_CERT_AUT	Allows users to create Solace client certificate authorities.
Create Solace Client Certificate Authority OCSP Trusted Common Name	EXCMD_CREATE_SOLACE_CLIENT_CERT_AUT_OCSP_TRUSTED_COMMON_NAME	Allows users to create Solace client certificate authority OCSP trusted common names.
Delete Solace Client Certificate Authority	EXCMD_DELETE_SOLACE_CLIENT_CERT_AUT	Allows users to remove Solace client certificate authorities.
Delete Solace Client Certificate Authority OCSP Trusted Common Name	EXCMD_DELETE_SOLACE_CLIENT_CERT_AUT_OCSP_TRUSTED_COMMON_NAME	Allows users to remove Solace client certificate authority OCSP trusted common names.
Refresh Solace Client Certificate Authority CRL	EXCMD_REFRESH_SOLACE_CLIENT_CERT_AUT_CRL	Allows users to refresh the Solace client certificate authority certificate revocation list.
Show Solace Client Certificate Authorities	EXCMD_INQUIRE_SOLACE_CLIENT_CERT_AUT_NAMES	Allows users to view a list of the Solace client certificate authorities that exist.
Show Solace Client Certificate Authority	EXCMD_INQUIRE_SOLACE_CLIENT_CERT_AUT	Allows users to view Solace client certificate authorities.
Show Solace Client Certificate Authority OCSP Trusted Common Name	EXCMD_INQUIRE_SOLACE_CLIENT_CERT_AUT_OCSP_TRUSTED_COMMON_NAME	Allows users to view Solace client certificate authority OCSP trusted names.

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Show Solace Client Certificate Authority Status	EXCMD_INQUIRE_SOLACE_CLIENT_CERT_AUT_STATUS	Allows users to view the status of Solace client certificate authorities.
SOLACE CLIENT PROFILE		
Change Solace Client Profile	EXCMD_CHANGE_SOLACE_CLIENT_PROFILE	Allows users to change Solace client profiles.
Create Solace Client Profile	EXCMD_CREATE_SOLACE_CLIENT_PROFILE	Allows users to create Solace client profiles.
Delete Solace Client Profile	EXCMD_DELETE_SOLACE_CLIENT_PROFILE	Allows users to delete Solace client profiles.
Show Solace Client Profile	EXCMD_INQUIRE_SOLACE_CLIENT_PROFILE	Allows users to view the details of a specific Solace client profile.
Show Solace Client Profile Advanced	EXCMD_INQUIRE_SOLACE_CLIENT_PROFILE_ADVANCED	Allows users to view advanced properties for Solace client profiles by turning on the Advanced slider in the properties dialog.
Show Solace Client Profile Status	EXCMD_INQUIRE_SOLACE_CLIENT_PROFILE_STATUS	Allows users to view the status of Solace client profiles.
Show Solace Client Profiles	EXCMD_INQUIRE_SOLACE_CLIENT_PROFILE_NAMES	Allows users to view a list of the Solace client profiles that exist.
SOLACE CLIENT USERNAME		
Change Solace Client Username	EXCMD_CHANGE_SOLACE_CLIENT_USERNAME	Allows users to change Solace client usernames.
Change Solace Client Username Status	EXCMD_CHANGE_SOLACE_CLIENT_USERNAME_STATUS	Allows users to change the status of (enable or disable) Solace client usernames.
Create Solace Client Username	EXCMD_CREATE_SOLACE_CLIENT_USERNAME	Allows users to create Solace client usernames.
Delete Solace Client Username	EXCMD_DELETE_SOLACE_CLIENT_USERNAME	Allows users to delete client usernames.

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Show Solace Client Username	EXCMD_INQUIRE_SOLACE_CLIENT_USERNAME	Allows users to view the details of a specific Solace client username.
Show Solace Client Username Status	EXCMD_INQUIRE_SOLACE_CLIENT_USERNAME_STATUS	Allows users to view the status of Solace client usernames.
Show Solace Client Usernames	EXCMD_INQUIRE_SOLACE_CLIENT_USERNAME_NAMES	Allows users to view a list of the Solace client usernames that exist.
SOLACE CSPF NEIGHBOR		
Change Solace CSPF Neighbor	EXCMD_CHANGE_SOLACE_CSPF_NEIGHBOR	Allows users to change Solace CSPF neighbors.
Create Solace CSPF Neighbor	EXCMD_CREATE_SOLACE_CSPF_NEIGHBOR	Allows users to create Solace CSPF neighbors.
Create Solace CSPF Neighbor TLS Trusted Common Name	EXCMD_CREATE_SOLACE_CSPF_NEIGHBOR_TLS_TRUSTED_COMMON_NAME	Allows users to create Solace CSPF neighbor TLS names.
Delete Solace CSPF Neighbor	EXCMD_DELETE_SOLACE_CSPF_NEIGHBOR	Allows users to delete Solace CSPF neighbors.
Delete Solace CSPF Neighbor TLS Trusted Common Name	EXCMD_DELETE_SOLACE_CSPF_NEIGHBOR_TLS_TRUSTED_COMMON_NAME	Allows users to delete Solace CSPF neighbor TLS names.
Show Solace CSPF Neighbor	EXCMD_INQUIRE_SOLACE_CSPF_NEIGHBOR	Allows users to view the details of a specific Solace CSPF neighbor.
Show Solace CSPF Neighbor Status	EXCMD_INQUIRE_SOLACE_CSPF_NEIGHBOR_STATUS	Allows users to view the status of Solace CSPF neighbors.
Show Solace CSPF Neighbor TLS Trusted Common Name	EXCMD_INQUIRE_SOLACE_CSPF_NEIGHBOR_TLS_TRUSTED_COMMON_NAME	Allows users to view Solace CSPF neighbor TLS names.
Show Solace CSPF Neighbor XML Connection	EXCMD_INQUIRE_SOLACE_CSPF_NEIGHBOR_XML_CONNECTION	Allows users to view Solace CSPF neighbor XML connections.

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SOLACE DISTRIBUTED CACHE		
Change Solace Distributed Cache	EXCMD_CHANGE_SOLACE_DISTRIBUTED_CACHE	Allows users to change Solace distributed caches.
Change Solace Distributed Cache Status	EXCMD_CHANGE_SOLACE_DISTRIBUTED_CACHE_STATUS	Allows users to change the status of (enable or disable) Solace distributed caches.
Clear Solace Distributed Cache Event	EXCMD_CLEAR_SOLACE_DISTRIBUTED_CACHE_EVENT	Allows users to clear a specified Solace distributed cache event.
Create Solace Distributed Cache	EXCMD_CREATE_SOLACE_DISTRIBUTED_CACHE	Allows users to create Solace distributed caches.
Delete Solace Distributed Cache	EXCMD_DELETE_SOLACE_DISTRIBUTED_CACHE	Allows users to remove Solace distributed caches.
Delete Solace Distributed Cache Messages	EXCMD_DELETE_SOLACE_DISTRIBUTED_CACHE_MESSAGES	Allows users to remove Solace distributed cache messages.
Show Solace Distributed Cache	EXCMD_INQUIRE_SOLACE_DISTRIBUTED_CACHE	Allows users to view the details of a specific Solace distributed cache.
Show Solace Distributed Cache Status	EXCMD_INQUIRE_SOLACE_DISTRIBUTED_CACHE_STATUS	Allows users to view the status of Solace distributed caches.
Show Solace Distributed Caches	EXCMD_INQUIRE_SOLACE_DISTRIBUTED_CACHE_NAMES	Allows users to view a list of the Solace distributed caches that exist.
Start Solace Distributed Cache	EXCMD_START_SOLACE_DISTRIBUTED_CACHE	Allows users to start Solace distributed caches.
SOLACE DMR CLUSTER		
Change Solace DMR Cluster	EXCMD_CHANGE_SOLACE_DMR_CLUSTER	Allows users to change Solace DMR clusters.
Change Solace DMR Cluster Link	EXCMD_CHANGE_SOLACE_DMR_CLUSTER_LINK	Allows users to change Solace DMR cluster links.
Create Solace DMR Cluster	EXCMD_CREATE_SOLACE_DMR_CLUSTER	Allows users to create Solace DMR clusters.

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Create Solace DMR Cluster Link	EXCMD_CREATE_SOLACE_DMR_CLUSTER_LINK	Allows users to create Solace DMR cluster links.
Create Solace DMR Cluster Link Remote Address	EXCMD_CREATE_SOLACE_DMR_CLUSTER_LINK_REMOTE_ADDRESS	Allows users to create a Remote Address on the Solace DMR Cluster Link Remote Address dialog.
Delete Solace DMR Cluster	EXCMD_DELETE_SOLACE_DMR_CLUSTER	Allows users to remove Solace DMR clusters.
Delete Solace DMR Cluster Link	EXCMD_DELETE_SOLACE_DMR_CLUSTER_LINK	Allows users to remove Solace DMR cluster links.
Delete Solace DMR Cluster Link Remote Address	EXCMD_DELETE_SOLACE_DMR_CLUSTER_LINK_REMOTE_ADDRESS	Allows users to remove Solace DMR cluster link remote addresses.
Show Solace DMR Cluster	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER	Allows users to view the details of a specific DMR cluster.
Show Solace DMR Cluster Link	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_LINK	Allows users to view Solace DMR cluster links.
Show Solace DMR Cluster Link Channel	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_LINK_CHANNEL	Allows users to browse the channels of a Solace DMR cluster link.
Show Solace DMR Cluster Link Remote Address	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_LINK_REMOTE_ADDRESS	Allows users to browse the remote addresses of a Solace DMR cluster link.
Show Solace DMR Cluster Link TLS Trusted Common Name	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_LINK_TLS_TRUSTED_COMMON_NAME	Allows users to browse the TLS trusted names of a Solace DMR cluster link.
Show Solace DMR Cluster Status	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_STATUS	Allows users to view the status of Solace DMR clusters.
Show Solace DMR Cluster Topology Issue	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_TOPOLOGY_ISSUE	Allows users to view Solace DMR cluster topology issues.
Show Solace DMR Clusters	EXCMD_INQUIRE_SOLACE_DMR_CLUSTER_NAMES	Allows users to view a list of the Solace DMR clusters that exist.

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SOLACE JNDI CONNECTION FACTORY		
Change Solace JNDI Connection Factory	EXCMD_CHANGE_SOLACE_JNDI_CONN_FACTORY	Allows users to change Solace JNDI connection factories.
Create Solace JNDI Connection Factory	EXCMD_CREATE_SOLACE_JNDI_CONN_FACTORY	Allows users to create Solace JNDI connection factories.
Delete Solace JNDI Connection Factory	EXCMD_DELETE_SOLACE_JNDI_CONN_FACTORY	Allows users to delete Solace JNDI connection factories.
Show Solace JNDI Connection Factories	EXCMD_INQUIRE_SOLACE_JNDI_CONN_FACTORY_NAMES	Allows users to view a list of the Solace JNDI connection factories that exist.
Show Solace JNDI Connection Factory	EXCMD_INQUIRE_SOLACE_JNDI_CONN_FACTORY	Allows users to view the details of a specific Solace JNDI connection factory.
SOLACE JNDI QUEUE		
Change Solace JNDI Queue	EXCMD_CHANGE_SOLACE_JNDI_QUEUE	Allows users to change Solace JNDI queues.
Create Solace JNDI Queue	EXCMD_CREATE_SOLACE_JNDI_QUEUE	Allows users to create Solace JNDI queues.
Delete Solace JNDI Queue	EXCMD_DELETE_SOLACE_JNDI_QUEUE	Allows users to delete Solace JNDI queues.
Show Solace JNDI Queue	EXCMD_INQUIRE_SOLACE_JNDI_QUEUE	Allows users to view the details of a specific Solace JNDI queue.
Show Solace JNDI Queues	EXCMD_INQUIRE_SOLACE_JNDI_QUEUE_NAMES	Allows users to view a list of the Solace JNDI queues that exist.
SOLACE JNDI TOPIC		
Change Solace JNDI Topic	EXCMD_CHANGE_SOLACE_JNDI_TOPIC	Allows users to change Solace JNDI topics.
Create Solace JNDI Topic	EXCMD_CREATE_SOLACE_JNDI_TOPIC	Allows users to create Solace JNDI topics.
Delete Solace JNDI Topic	EXCMD_DELETE_SOLACE_JNDI_TOPIC	Allows users to delete Solace JNDI topics.

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Show Solace JNDI Topic	EXCMD_INQUIRE_SOLACE_JNDI_TOPIC	Allows users to view the details of a specific Solace JNDI topic.
Show Solace JNDI Topics	EXCMD_INQUIRE_SOLACE_JNDI_TOPIC_NAMES	Allows users to view a list of the Solace JNDI topics that exist.
SOLACE MQTT SESSION		
Change Solace MQTT Session	EXCMD_CHANGE_SOLACE_MQTT_SESSION	Allows users to change Solace MQTT sessions.
Change Solace MQTT Session Status	EXCMD_CHANGE_SOLACE_MQTT_SESSION_STATUS	Allows users to change the status of (enable or disable) Solace MQTT sessions.
Clear Solace MQTT Session Statistics	EXCMD_CLEAR_SOLACE_MQTT_SESSION_STATS	Allows users to clear the statistics of Solace MQTT sessions.
Create Solace MQTT Session	EXCMD_CREATE_SOLACE_MQTT_SESSION	Allows users to create Solace MQTT sessions.
Create Solace MQTT Session Subscription	EXCMD_CREATE_SOLACE_MQTT_SESSION_SUBSCRIPTION	Allows users to create Solace MQTT session subscriptions.
Delete Solace MQTT Session	EXCMD_DELETE_SOLACE_MQTT_SESSION	Allows users to remove Solace MQTT sessions.
Delete Solace MQTT Session Subscription	EXCMD_DELETE_SOLACE_MQTT_SESSION_SUBSCRIPTION	Allows users to remove Solace MQTT session subscriptions.
Show Solace MQTT Session	EXCMD_INQUIRE_SOLACE_MQTT_SESSION	Allows users to view the details of a specific Solace MQTT session.
Show Solace MQTT Session Advanced	EXCMD_INQUIRE_SOLACE_MQTT_SESSION_ADVANCED	Allows users to view advanced properties for Solace MQTT sessions by turning on the Advanced slider in the properties dialog.
Show Solace MQTT Session Statistics	EXCMD_INQUIRE_SOLACE_MQTT_SESSION_STATISTICS	Allows users to view the statistics of Solace MQTT sessions.
Show Solace MQTT Session Status	EXCMD_INQUIRE_SOLACE_MQTT_SESSION_STATUS	Allows users to view the status of MQTT sessions.

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Show Solace MQTT Session Subscription	EXCMD_INQUIRE_SOLACE_MQTT_SESSION_SUBSCRIPTION	Allows users to view Solace MQTT session subscriptions.
Show Solace MQTT Sessions	EXCMD_INQUIRE_SOLACE_MQTT_SESSION_NAMES	Allows users to view a list of the Solace MQTT sessions that exist.
SOLACE MESSAGE VPN		
Change Solace Message VPN	EXCMD_CHANGE_SOLACE_MSG_VPN	Allows users to change Solace message VPNs.
Change Solace Message VPN DMR Status	EXCMD_CHANGE_SOLACE_MSG_VPN_DMR_STATUS	Allows users to change the status of (start or stop) Solace dynamic message routing.
Change Solace Message VPN Status	EXCMD_CHANGE_SOLACE_MSG_VPN_STATUS	Allows users to change the status of (start or stop) Solace message VPNs.
Change Solace MQTT Retain Cache	EXCMD_CHANGE_SOLACE_MQTT_RETAIN_CACHE	Allows users to change Solace MQTT retain caches.
Change Solace Replay Log	EXCMD_CHANGE_SOLACE_REPLAY_LOG	Allows users to change Solace replay logs.
Change Solace Replicated Topic	EXCMD_CHANGE_SOLACE_REPLICATED_TOPIC	Allows users to change Solace replicated topics.
Clear Solace Message VPN Guaranteed Messaging Statistics	EXCMD_CLEAR_SOLACE_MSG_VPN_MSG_SPOOL_STATS	Allows users to clear the guaranteed statistics of Solace message VPNs.
Clear Solace Message VPN Statistics	EXCMD_CLEAR_SOLACE_MSG_VPN_STATS	Allows users to clear the statistics of Solace message VPNs.
Create Solace Message VPN	EXCMD_CREATE_SOLACE_MSG_VPN	Allows users to create Solace message VPNs.
Create Solace MQTT Retain Cache	EXCMD_CREATE_SOLACE_MQTT_RETAIN_CACHE	Allows users to create Solace MQTT retain caches.
Create Solace Replay Log	EXCMD_CREATE_SOLACE_REPLAY_LOG	Allows users to create Solace replay logs.

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Create Solace Replicated Topic	EXCMD_CREATE_SOLACE_REPLICATED_TOPIC	Allows users to create Solace replicated topics.
Delete Solace Message VPN	EXCMD_DELETE_SOLACE_MSG_VPN	Allows users to remove Solace MQTT VPNs.
Delete Solace MQTT Retain Cache	EXCMD_DELETE_SOLACE_MQTT_RETAIN_CACHE	Allows users to remove Solace MQTT retain caches.
Delete Solace Replay Log	EXCMD_DELETE_SOLACE_REPLAY_LOG	Allows users to remove Solace replay logs.
Delete Solace Replicated Topic	EXCMD_DELETE_SOLACE_REPLICATED_TOPIC	Allows users to remove Solace replicated topics.
Show Solace Message VPN	EXCMD_INQUIRE_SOLACE_MSG_VPN	Allows users to view the details of a specific Solace message VPN.
Show Solace Message VPN Advanced	EXCMD_INQUIRE_SOLACE_MSG_VPN_ADVANCED	Allows users to view advanced properties for Solace Message VPNs by turning on the Advanced slider in the properties dialog.
Show Solace Message VPN Statistics	EXCMD_INQUIRE_SOLACE_MSG_VPN_STATISTICS	Allows users to view the statistics of Solace message VPNs.
Show Solace Message VPN Status	EXCMD_INQUIRE_SOLACE_MSG_VPN_STATUS	Allows users to view the status of Solace message VPNs.
Show Solace Message VPNs	EXCMD_INQUIRE_SOLACE_MSG_VPN_NAMES	Allows users to view a list of the Solace message VPNs that exist.
Show Solace MQTT Retain Cache	EXCMD_INQUIRE_SOLACE_MQTT_RETAIN_CACHE	Allows users to view a list of Solace MQTT retain caches in the console.
Show Solace Replay Log	EXCMD_INQUIRE_SOLACE_REPLAY_LOG	Allows users to view a list of Solace replay logs in the console.
Show Solace Replicated Topic	EXCMD_INQUIRE_SOLACE_REPLICATED_TOPIC	Allows users to view a list of Solace replicated topics in the console.

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Trim Solace Replay Log Messages	EXCMD_TRIM_SOLACE_REPLAY_LOG_MESSAGES	Not applicable.
SOLACE QUEUE		
Cancel Solace Queue Replay	EXCMD_CANCEL_SOLACE_QUEUE_REPLAY	Allows users to cancel message replay for a Solace queue.
Change Solace Queue	EXCMD_CHANGE_SOLACE_QUEUE	Allows users to change Solace queues.
Change Solace Queue Status	EXCMD_CHANGE_SOLACE_QUEUE_STATUS	Allows users to change the status of Solace queues (turn incoming or outgoing messages on or off).
Clear Solace Queue Statistics	EXCMD_CLEAR_SOLACE_QUEUE_STATS	Allows users to clear the statistics of Solace queues.
Create Solace Queue	EXCMD_CREATE_SOLACE_QUEUE	Allows users to create Solace queues.
Create Solace Queue Subscription	EXCMD_CREATE_SOLACE_QUEUE_SUBSCRIPTION	Allows users to create Solace queue subscriptions.
Delete Solace Queue	EXCMD_DELETE_SOLACE_QUEUE	Allows users to remove Solace queues.
Delete Solace Queue Subscription	EXCMD_DELETE_SOLACE_QUEUE_SUBSCRIPTION	Allows users to remove Solace queue descriptions.
Show Solace Queue	EXCMD_INQUIRE_SOLACE_QUEUE	Allows users to view the details of a specific Solace queue.
Show Solace Queue Advanced	EXCMD_INQUIRE_SOLACE_QUEUE_ADVANCED	Allows users to view advanced properties for Solace queues by turning on the Advanced slider in the properties dialog.
Show Solace Queue Priority Statistics	EXCMD_INQUIRE_SOLACE_QUEUE_PRIORITY_STATS	Allows users to view Solace queue priority statistics.
Show Solace Queue Statistics	EXCMD_INQUIRE_SOLACE_QUEUE_STATISTICS	Allows users to view the statistics of Solace queues.

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Show Solace Queue Status	EXCMD_INQUIRE_SOLACE_QUEUE_STATUS	Allows users to view the status of Solace queues.
Show Solace Queue Subscription	EXCMD_INQUIRE_SOLACE_QUEUE_SUBSCRIPTION	Allows users to view Solace queue subscriptions.
Show Solace Queue TX Flow	EXCMD_INQUIRE_SOLACE_QUEUE_TX_FLOW	Allows users to view Solace queue TX flows.
Show Solace Queues	EXCMD_INQUIRE_SOLACE_QUEUE_NAMES	Allows users to view a list of the Solace queues that exist.
Start Solace Queue Replay	EXCMD_START_SOLACE_QUEUE_REPLAY	Allows users to start message replay for a Solace queue.
SOLACE QUEUE TEMPLATE		
Change Solace Queue Template	EXCMD_CHANGE_SOLACE_QUEUE_TEMPLATE	Allows users to change Solace queue templates.
Create Solace Queue Template	EXCMD_CREATE_SOLACE_QUEUE_TEMPLATE	Allows users to create Solace queue templates.
Delete Solace Queue Template	EXCMD_DELETE_SOLACE_QUEUE_TEMPLATE	Allows users to remove Solace queue templates.
Show Solace Queue Template	EXCMD_INQUIRE_SOLACE_QUEUE_TEMPLATE	Allows users to view the details of a specific queue template.
Show Solace Queue Template Advanced	EXCMD_INQUIRE_SOLACE_QUEUE_TEMPLATE_ADVANCED	Allows users to view advanced properties for Solace queue templates by turning on the Advanced slider in the properties dialog.
Show Solace Queue Templates	EXCMD_INQUIRE_SOLACE_QUEUE_TEMPLATE_NAMES	Allows users to view a list of the Solace queue templates that exist.
SOLACE RDP		
Change Solace RDP	EXCMD_CHANGE_SOLACE_RDP	Allows users to change Solace RDPs.
Change Solace RDP Queue Binding	EXCMD_CHANGE_SOLACE_RDP_QUEUE_BINDING	Allows users to change Solace RDP queue bindings.

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Change Solace RDP Queue Binding Request Header	EXCMD_CHANGE_SOLACE_RDP_QUEUE_BINDING_REQUEST_HEADER	Allows users to edit the Request Header Name in the RDP Queue Binding Request Header properties.
Change Solace RDP Status	EXCMD_CHANGE_SOLACE_RDP_STATUS	Allows users to change the status of (enable or disable) Solace RDPs.
Create Solace RDP	EXCMD_CREATE_SOLACE_RDP	Allows users to create Solace RDPs.
Create Solace RDP Queue Binding	EXCMD_CREATE_SOLACE_RDP_QUEUE_BINDING	Allows users to create Solace RDP queue bindings.
Create Solace RDP Queue Binding Request Header	EXCMD_CREATE_SOLACE_RDP_QUEUE_BINDING_REQUEST_HEADER	Allows users to create Solace RDP queue binding request headers.
Delete Solace RDP	EXCMD_DELETE_SOLACE_RDP	Allows users to remove Solace RDPs.
Delete Solace RDP Queue Binding	EXCMD_DELETE_SOLACE_RDP_QUEUE_BINDING	Allows users to remove Solace RDP queue bindings.
Delete Solace RDP Queue Binding Request Header	EXCMD_DELETE_SOLACE_RDP_QUEUE_BINDING_REQUEST_HEADER	Allows users to remove Solace RDP queue binding request headers.
Show Solace RDP	EXCMD_INQUIRE_SOLACE_RDP	Allows users to view the details of a specific Solace RDP.
Show Solace RDP Queue Binding	EXCMD_INQUIRE_SOLACE_RDP_QUEUE_BINDING	Allows users to view Solace RDP queue bindings.
Show Solace RDP Queue Binding Request Header	EXCMD_INQUIRE_SOLACE_RDP_QUEUE_BINDING_REQUEST_HEADER	Allows users to browse request headers for Solace RDP queue bindings.
Show Solace RDP Status	EXCMD_INQUIRE_SOLACE_RDP_STATUS	Allows users to view the status of Solace RDPs.

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Show Solace RDP's	EXCMD_INQUIRE_SOLACE_RDP_NAMES	Allows users to view a list of the Solace RDPs that exist.
SOLACE REST CONSUMER		
Change Solace Rest Consumer	EXCMD_CHANGE_SOLACE_REST_CONSUMER	Allows users to change Solace Rest consumers.
Change Solace Rest Consumer Status	EXCMD_CHANGE_SOLACE_REST_CONSUMER_STATUS	Allows users to change the status of (enable or disable) Solace Rest consumers.
Clear Solace Rest Consumer Statistics	EXCMD_CLEAR_SOLACE_REST_CONSUMER_STATS	Not applicable.
Create Solace Rest Consumer	EXCMD_CREATE_SOLACE_REST_CONSUMER	Allows users to create Solace Rest consumers.
Create Solace Rest Consumer OAuth JWT Claim	EXCMD_CREATE_SOLACE_REST_CONSUMER_OAUTH_JWT_CLAIM	Allows users to create Solace Rest consumer OAuth JWT claims.
Delete Solace Rest Consumer	EXCMD_DELETE_SOLACE_REST_CONSUMER	Allows users to remove Solace Rest consumers.
Delete Solace Rest Consumer OAuth JWT Claim	EXCMD_DELETE_SOLACE_REST_CONSUMER_OAUTH_JWT_CLAIM	Allows users to remove Solace Rest consumer OAuth JWT claims.
Show Solace Rest Consumer	EXCMD_INQUIRE_SOLACE_REST_CONSUMER	Allows users to view the details of a specific Solace Rest consumer.
Show Solace Rest Consumer OAuth JWT Claim	EXCMD_INQUIRE_SOLACE_REST_CONSUMER_OAUTH_JWT_CLAIM	Allows user to view Solace Rest consumer OAuth options.
Show Solace Rest Consumer Statistics	EXCMD_INQUIRE_SOLACE_REST_CONSUMER_STATISTICS	Allows users to view the statistics of Solace Rest consumers.
Show Solace Rest Consumer Status	EXCMD_INQUIRE_SOLACE_REST_CONSUMER_STATUS	Allows users to view the status of Solace Rest consumers.

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Show Solace Rest Consumer TLS Trusted Common Name	EXCMD_INQUIRE_SOLACE_REST_CONSUMER_TLS_TRUSTED_COMMON_NAME	Allows users to view Solace Rest consumer TLS names.
Show Solace Rest Consumers	EXCMD_INQUIRE_SOLACE_REST_CONSUMER_NAMES	Allows users to view a list of the Solace Rest consumers that exist.
SOLACE TOPIC ENDPOINT		
Cancel Solace Topic Endpoint Replay	EXCMD_CANCEL_SOLACE_TOPIC_ENDPOINT_REPLAY	Allows users to cancel message replay for a Solace topic endpoint.
Change Solace Topic Endpoint	EXCMD_CHANGE_SOLACE_TOPIC_ENDPOINT	Allows users to change Solace topic endpoints.
Change Solace Topic Endpoint Status	EXCMD_CHANGE_SOLACE_TOPIC_ENDPOINT_STATUS	Allows users to change the status of Solace topic endpoints (turn incoming or outgoing message on or off).
Clear Solace Topic Endpoint Statistics	EXCMD_CLEAR_SOLACE_TOPIC_ENDPOINT_STATS	Allows users to clear the statistics of Solace topic endpoints.
Create Solace Topic Endpoint	EXCMD_CREATE_SOLACE_TOPIC_ENDPOINT	Allows users to create Solace topic endpoints.
Delete Solace Topic Endpoint	EXCMD_DELETE_SOLACE_TOPIC_ENDPOINT	Allows users to remove Solace topic endpoints.
Show Solace Topic Endpoint	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT	Allows users to view the details of a specific Solae topic endpoint.
Show Solace Topic Endpoint Advanced	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_ADVANCED	Allows users to view advanced properties for Solace topic endpoints by turning on the Advanced slider in the properties dialog.
Show Solace Topic Endpoint Priority Statistics	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_PRIORITY_STATS	Allows users to view Solace topic endpoint priority statistics.
Show Solace Topic Endpoint Statistics	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_STATISTICS	Allows users to view the statistics of Solace topic endpoints.

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Show Solace Topic Endpoint Status	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_STATUS	Allows users to view the status of Solace topic endpoints.
Show Solace Topic Endpoint TX Flow	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_TX_FLOW	Allows users to view a list of Solace topic endpoint TX flows in the console.
Show Solace Topic Endpoints	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_NAMES	Allows users to view a list of the Solace topic endpoints that exist.
Start Solace Topic Endpoint Replay	EXCMD_START_SOLACE_TOPIC_ENDPOINT_REPLAY	Allows users to start message replay for a Solace topic endpoint.
SOLACE TOPIC ENDPOINT TEMPLATE		
Change Solace Topic Endpoint Templates	EXCMD_CHANGE_SOLACE_TOPIC_ENDPOINT_TEMPLATE	Allows users to change Solace topic endpoint templates.
Create Solace Topic Endpoint Template	EXCMD_CREATE_SOLACE_TOPIC_ENDPOINT_TEMPLATE	Allows users to create Solace topic endpoint templates.
Delete Solace Topic Endpoint Template	EXCMD_DELETE_SOLACE_TOPIC_ENDPOINT_TEMPLATE	Allows users to remove Solace topic endpoint templates.
Show Solace Topic Endpoint Template	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_TEMPLATE	Allows users to view the details of a specific Solace topic endpoint template.
Show Solace Topic Endpoint Template Advanced	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_TEMPLATE_ADVANCED	Allows users to view advanced properties for Solace topic endpoint templates by turning on the Advanced slider in the properties dialog.
Show Solace Topic Endpoint Templates	EXCMD_INQUIRE_SOLACE_TOPIC_ENDPOINT_TEMPLATE_NAMES	Allows users to view a list of the Solace topic endpoint templates that exist.
STORAGE CLASS		
Change Storage Class	MQCMD_CHANGE_STG_CLASS	Not applicable.
Copy Storage Class	MQCMD_COPY_STG_CLASS	Allows users to copy storage classes.

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Create Storage Class	MQCMD_CREATE_STG_CLASS	Allows users to create storage classes.
Delete Storage Class	MQCMD_DELETE_STG_CLASS	Allows users to remove storage classes.
Show Storage Class Attributes	MQCMD_INQUIRE_STG_CLASS	Allows users to view the attributes of storage classes.
Show Storage Classes	MQCMD_INQUIRE_STG_CLASS_NAMES	Allows users to view storage classes.
SUBSCRIPTION		
Change Subscription	MQCMD_CHANGE_SUBSCRIPTION	Gives users the ability to change subscriptions.
Copy Subscription	MQCMD_COPY_SUBSCRIPTION	Allows users to copy subscriptions.
Create Subscription	MQCMD_CREATE_SUBSCRIPTION	Gives users the ability to create subscriptions.
Delete Subscription	MQCMD_DELETE_SUBSCRIPTION	Allows users to remove subscriptions.
Show Subscription Attributes	MQCMD_INQUIRE_SUBSCRIPTION	Allows users to view the attributes of subscriptions.
Show Subscription SubStatus	MQCMD_INQUIRE_SUB_STATUS	Allows users to view subscription SubStatuses.
Show Subscriptions	EXCMD_INQUIRE_SUBSCRIPTION_NAMES	Allows users to view subscriptions.
TOPIC (Where applicable, EMS and IBM topics use the same right)		
Change Topic	MQCMD_CHANGE_TOPIC	Allows users to change topics.
Clear Topic String	MQCMD_CLEAR_TOPIC_STRING	Not applicable.
Copy Topic	MQCMD_COPY_TOPIC	Gives users the ability to copy topics.
Create Topic	MQCMD_CREATE_TOPIC	Allows users to create topics.
Delete Topic	MQCMD_DELETE_TOPIC	Gives users the ability to delete topics.
Publish to the Topic	EXCMD_PUBLISH_TOPIC	Allows users to publish to topics.

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Purge Topic	EXCMD_PURGE_TOPIC	Allows user to purge all messages for all subscribers on the named topic.
Show Topic Attributes	MQCMD_INQUIRE_TOPIC	Allows users to view attributes of topics.
Show Topic Statistics	EXCMD_INQUIRE_TOPIC_STATS	Allows users to view the statistics of topics.
Show Topic Status	MQCMD_INQUIRE_TOPIC_STATUS	Allows users to view the status of topics.
Show Topics	MQCMD_INQUIRE_TOPIC_NAMES	Allows users to view topics.
WORKGROUP SERVER		
Access All Projects	PROJECTS_ACCESS_ALL	Allows users to select All from the Project list on the main screen of Nastel Navigator. When All is selected, users can view data from all User Groups that they belong to.
Add/Remove Default Connection	ADD_REMOVE_DEFAULT_CONNECTION	Gives users the ability to add or remove default connections.
Approve Scheduled Job	EXCMD_APPROVE_JOB	Gives users the ability to approve scheduled jobs.
Cancel Scheduled Job	EXCMD_CANCEL_JOB	Allows users to cancel scheduled jobs.
Change Remote ACE(IIB) Manager	EXCMD_CHANGE_ACE_RMT	Allows users to change remote ACE/IIB managers.
Change Remote EMS Manager	EXCMD_CHANGE_RMTEMS	Allows users to change remote EMS managers.
Change Remote Kafka Manager	EXCMD_CHANGE_KAFKA_RMT	Allows users to change remote Kafka managers.
Change Remote Queue Manager	EXCMD_CHANGE_RMTQMGR	Allows users to change remote queue managers.

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Change Workgroup Server	EXCMD_CHANGE_MANAGER	Allows users to change workgroup servers.
Change Workgroup Server Stats	EXCMD_CHANGE_MANAGER_STAT	Not applicable.
Connect (required)	EXCMD_OPEN_EVENT	Allows users to connect to the workgroup server.
Create Remote ACE(IIB) Manager	EXCMD_CREATE_ACE_RMT	Allows users to create remote ACE/IIB managers.
Create Remote EMS Manager	EXCMD_CREATE_RMTEMS	Allows users to create remote EMS managers.
Create Remote Kafka Manager	EXCMD_CREATE_KAFKA_RMT	Allows users to create remote Kafka managers.
Create Remote Queue Manager	EXCMD_CREATE_RMTQMGR	Allows users to create remote queue managers.
Delete Channel Statistics	EXCMD_DELETE_STAT_CHANNEL	Allows users to remove MQ channel statistics from the workgroup server.
Delete Communicatio n Session	EXCMD_DELETE_SESSION	Allows users to remove communication sessions.
Delete MQI Accounting	EXCMD_DELETE_ACCT_MQI	Allows users to remove MQI accounting from the workgroup server.
Delete MQI Statistics	EXCMD_INQUIRE_STAT_MQI	Allows users to remove MQI statistics from the workgroup server.
Delete Queue Accounting	EXCMD_DELETE_ACCT_Q	Allows users to remove MQ Queue Accounting from the workgroup server.
Delete Queue Statistics	EXCMD_DELETE_STAT_Q	Allows users to remove MQ Queue Statistics from the workgroup server.
Delete Remote ACE(IIB) Manager	EXCMD_DELETE_ACE_RMT	Allows users to remove remote ACE/IIB managers.

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Delete Remote EMS Manager	EXCMD_DELETE_RMTEMS	Allows users to remove remote EMS managers.
Delete Remote Kafka Managers	EXCMD_DELETE_KAFKA_RMT	Allows users to remove remote Kafka managers.
Delete Remote Queue Manager	EXCMD_DELETE_RMTQMGR	Allows users to remove remote queue managers.
Disconnect (required)	EXCMD_CLOSE_EVENT	Allows users to disconnect from the workgroup server.
Display Channel Statistics	EXCMD_INQUIRE_STAT_CHANNEL	Allows users to view the statistics of channels.
Display MQI Accounting	EXCMD_INQUIRE_ACCT_MQI	Allows user to view MQI Accounting data stored in the workgroup server.
Display MQI Statistics	EXCMD_INQUIRE_STAT_MQI	Allows user to view MQI Statistics data stored in the workgroup server.
Display Queue Accounting	EXCMD_INQUIRE_ACCT_Q	Allows users to view MQ queue accounting.
Display Queue Statistics	EXCMD_INQUIRE_STAT_Q	Allows users to view the statistics of MQ queues.
Execute MQSC Command Shell	EXCMD_EXECUTE_SHELL_CMD	Allows users to execute the command shell. Command shell is specific to running commands via the REST interface.
Find Object (Required)	EXCMD_LOCATE_OBJECT	Allows users to see objects.
Inquire Active Workgroup (required)	EXCMD_INQUIRE_ACTIVE_MANAGER	Allows users to see connection details for the workgroup server.
Inquire Communication Session Information	EXCMD_INQUIRE_SESSION	Allows the user to view a list of active workgroup server connections.
Inquire Job ServiceNow	EXCMD_INQUIRE_JOB_SERVICE_NOW_DATA	Allows users to inquire ServiceNow for job details.

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Inquire List of Scheduled Job	EXCMD_INQUIRE_JOB_LIST	Allows users to get a list of scheduled jobs.
Inquire Metrics	EXCMD_INQUIRE_METRICS	Allows users to see the workgroup server metrics, located on the Performance tab of WGS Properties. Only Administrators should have this right.
Inquire Remote EMS Manager	EXCMD_INQUIRE_RMTEMS	Allows users to view a remote ACE/IIB manager.
Inquire Remote EMS Manager Names	EXCMD_INQUIRE_RMTEMS_NAMES	Allows users to view a remote EMS manager.
Inquire Remote Queue Manager	EXCMD_INQUIRE_RMTQMGR	Allows users to view a remote manager.
Inquire Remote Queue Manager Names	EXCMD_INQUIRE_RMTQMGR_NAMES	Allows users to view a remote queue manager.
Inquire Scheduled Job	EXCMD_INQUIRE_JOB	Allows users to see the details for a specific scheduled job.
Node Registration	EXCMD_REGISTER_MQNODE	Allows the agent (user with the agent role) to register itself with the workgroup server at startup.
Reload Permits	EXCMD_RELOAD_PERMITS	Not applicable.
Schedule Job	EXCMD_SCHEDULE_JOB	Allows users to schedule jobs.
Show Remote ACE(IIB) Manager	EXCMD_INQUIRE_ACE_RMT	Allows users to view remote ACE/IIB managers.
Show Remote ACE(IIB) Managers	EXCMD_INQUIRE_ACE_RMT_NAMES	Allows users to view remote ACE/IIB managers.
Show Remote Kafka Manager	EXCMD_INQUIRE_KAFKA_RMT	Allows users to view remote EMS managers.

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Show Remote Kafka Managers	EXCMD_INQUIRE_KAFKA_RMT_NAMES	Allows users to view remote Kafka managers.
Show Workgroup Server Attributes	EXCMD_INQUIRE_MANAGER	Allows users to view workgroup server attributes. This is required for all users.
Shutdown Workgroup Server or Node	EXCMD_SHUTDOWN_MANAGER	Gives users the ability to shutdown workgroup servers or nodes.
Start All Workgroup Server Objects	EXCMD_START_MANAGER	Gives users the ability to start workgroup server objects.
Start Discovery	EXCMD_MQ_DISCOVER	Allows users to start a discovery cycle.
Stop All Workgroup Server Objects	EXCMD_STOP_MANAGER	Gives users the ability to stop workgroup server objects.
Subscribe to Channel Stats	MQCMD_STATISTICS_CHANNEL	Allows users to subscribe to channel status events.
Subscribe to MQI Accounting	MQCMD_ACCOUNTING_MQI	Allows user to turn on MQI under Accounting Data Collection on the queue manager properties Monitoring tab. If an agent is running as a user without this permission, then the workgroup server will not store the MQI accounting data.
Subscribe to MQI Stats	MQCMD_STATISTICS_MQI	Allows user to turn on MQI under Statistical Data Collection on the queue manager properties Monitoring tab. If an agent is running as a user without this permission, then the workgroup server will not store the MQI statistical data.

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Subscribe to Queue Accounting	MQCMD_ACCOUNTING_Q	Allows users to subscribe to Queue Accounting events.
Subscribe to Queue Stats	MQCMD_STATISTICS_Q	Allows users to subscribe to Queue Stats events.

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Glossary

This appendix contains a list of reference material and documents relevant to Nastel Navigator and other related Nastel products.

AutoPilot M6: Nastel Technologies' Enterprise Application Management Platform. AutoPilot M6 is designed to monitor and control distributed IT services such as application servers, middleware, user applications, workflow engines, brokers, Service Oriented Architecture (SOA) and ESB based applications and their impact on business services.

AutoPilot M6 Web: A browser-based interface that provides monitoring and operational control over managed resources and applications.

BSV: *see* Business Views.

Business View (BSV): A collection of rules that define a desired state of an *e*Business environment. Business Views can be tailored to presents information in the form most suited to a given user, as defined by the user.

Client: Any programming component that uses the AutoPilot M6 infrastructure; for example, the AutoPilot M6 Console.

Common Object Request Broker Architecture (CORBA): A Common Object Request Broker Architecture (CORBA) object can be invoked from a Web browser using CGI scripts or applets.

Console: The console acts as the graphical interface for AutoPilot M6.

Contacts: A subordinate to a given Manager or Expert.

CORBA: *see* Common Object Request Broker Architecture.

Data Source Name: A Data Source Name (DSN) is the logical name that is used by Open Database Connectivity (ODBC) to refer to the drive and other information that is required to access data. The name is use by Internet Information Services (IIS) for a connection to an ODBC data source, (Example: Microsoft SQL Server database). The ODBC tool in Control Panel is used to set the DSN. When ODBC DSN entries are used to store the connection string values externally, you simplify the information that is needed in the connection string. This makes changes to the data source completely transparent to the code itself.

Dependent IBM MQ Node: IBM MQ nodes that are not directly managed by Nastel Navigator. Because dependent nodes do not run an IBM MQ Nastel Navigator agent, they must be managed by proxy.

Deploy: To put to use, to position for use or action.

Domain Server: A specialized managed node that maintains the directory of managed nodes, experts, and so on. The domain server is also capable of hosting experts, managers, and so on.

DSN: *see* Data Source Name

EVT: Event Log file extension (e.g.: *sample.evt*),

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Event: An *Event* is something that happens to an object. Events are logged by AutoPilot M6 and are available for use by AutoPilot M6 Policies or the user.

Expert: Services that monitor specific applications such as an applications server, web-server, or specific components within the applications. (Example, channels in IBM MQ.) Experts generate facts.

Fact: Facts are single pieces of data that has a unique name and value. One or more facts are used to determine the health of the object, application, or server.

Graphical User Interface (GUI): A type of environment that represents programs, files, and options by means of icons, menus, and dialog boxes on the screen. The user can select and activate these options by pointing and clicking with a mouse or, often, with the keyboard. Because the graphical user interface provides standard software routines to handle these elements and report the user's actions (such as a mouse click on a particular icon or at a particular location in text, or a key press); applications call these routines with specific parameters rather than attempting to reproduce them from scratch.

GUI: *see* Graphical User Interface.

IBM MQ: IBM's message queuing product. Formally known as MQSeries and WebSphere MQ.

IBM MQ Commands: A command-line language used to configure IBM MQ.

Independent IBM MQ Node: An IBM MQ node that runs an IBM MQ agent and which is managed directly by a Workgroup server. Independent nodes can be used as proxy nodes for managing dependent nodes.

IIS: *See* Internet Information Services

> **Internet Information Services:** Microsoft's brand of Web server software, utilizing HTTP to deliver World Wide Web documents. It incorporates various functions for security, allows CGI programs, and also provides for Gopher and FTP services

JCL: *See* **Job Control Language**

Java: A platform-independent, object-oriented programming language developed and made available by Sun Microsystems

Java Developer's Kit (JDK): A set of software tools developed by Sun Microsystems, Inc., for writing Java applets or applications. The kit, which is distributed free, includes a Java compiler, interpreter, debugger, viewer for applets, and documentation.

JDBC: *See* Java Database Connectivity.

Java Database Connectivity (JDBC): The JDBC API provides universal data access from the Java programming language. Using the JDBC 2.0 API, you can access virtually any data source, from relational databases to spreadsheets and flat files. JDBC technology also provides a common base on which tools and alternate interfaces can be built. The JDBC *Test Tool* that was developed by Merant and Sun Microsystems may be used to test drivers, to demonstrate executing queries and getting results, and to teach programmers about the JDBC API.

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Java Server Pages (JSP): JSP technology enables rapid development of web-based applications that are platform independent. Java Server Pages technology separates the user interface from content generation enabling designers to change the overall page layout without altering the underlying dynamic content. Java Server Pages technology is an extension of the Java™ Servlet technology.

Java Virtual Machine (JVM): The "virtual" operating system that JAVA-written programs run. The JVM is a hardware- and operating system-independent abstract computing machine and execution environment. Java programs execute in the JVM where they are protected from malicious programs and have a small compiled footprint.

JDK: *See* Java Developer's Kit.

Job Control Language (JCL): Most commonly used in larger computer systems, JCL is any control language that controls the execution of applications. The syntax is usually strict and does not permit spaces or characters where they are not expected.

JRE: JAVA Run-time Environment. The minimum core JAVA required to run JAVA Programs.

JSP: *See* Java Server Pages

JVM: *see* JAVA Virtual Machine.

Managed Node: A container that can host any number of AutoPilot M6 services such as experts, managers, policies etc. Unlike managed nodes, it is a physical process.

Management Information Base (MIB): A specification that describes the properties and behavior of a network device. Network managers use MIBs to interact with SNMP-compatible devices. Each MIB is part of a directory structure that specifies where objects are found on the network.

Manager: Managers are the home or container for policies. All business views must reside on managers, and manager must be deployed prior to deploying a business view or policy.

Message Management Facility (MMF): Nastel's message management service.

Message Queue Interface: The Message Queue Interface (MQI) is part of IBM's Networking Blueprint. It is a method of program-to-program communication suitable for connecting independent and potentially non-concurrent distributed applications.

MIB: *see* Management Information Base

MMF: *see* Message Management Facility

MOM: *see* Message-Oriented Middleware.

MQI: *see* Message Queue Interface

MQSC: See IBM MQ Commands

MQSeries: IBM's message queuing product. Renamed by IBM as WebSphere MQ, then IBM MQ.

Naming Service: A common server records "names" of objects and associates them with references, locations, and properties

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Nastel Navigator: Nastel Technologies' middleware management solution. Re-designated as M6 for WMQ with release 6.0, prior releases retain the AP-WMQ or MQControl trademark.

ORB: Object Request Broker.

Orbix: CORBA product distributed by IONA Technologies.

Package Manager: The command line utility that allows users to list, install, uninstall, verify, and update AutoPilot M6 installation on any Managed Node

PCF: See Programmable Command Format

PKGMAN: *see* Package Manager

Policy/Business Views: Business views are a collection of one or more sensors. Business views are used to visually present the health and status of the different systems as well as automatically issue remedial actions.

Programmable Command Format (PCF): A set of programmable commands that Nastel Navigator uses to manage IBM MQ. PCF includes data definitions for items such as integers, strings, and lists. The commands can be submitted directly to a queue manager. PCF is comparable to MQSC, except for the fact that MQSC cannot be programmed.

Proxy Management: The indirect management of MQ objects by an intermediate entity. For example, a proxy queue manager might be used to handle another queue manager.

Sensor: A rule that is used to determine the health of an object or application based on one or more facts. Actions can then be issued, based on the health. Sensors are definable in business views by use of the sensor wizard

Simple Mail Transfer Protocol (SMTP): A TCP/IP protocol for sending messages from one computer to another on a network. This protocol is used on the Internet to route e-mail. *See also* communications protocol, TCP/IP. *Compare* CCITT X series, Post Office Protocol.

Simple Network Management Protocol (SNMP): A de facto standard for managing hardware and software devices on a network. Each device is associated with a Management Information Base (MIB) that describes its properties and behavior.

SMTP: *see* Simple Mail Transfer Protocol

SNMP: *see* Simple Network Management Protocol

SNMP Master Agent: An implementation of the SNMP protocol. It includes a definition of the standard MIB. The master agent routes SNMP requests from subagent to subagent.

SNMP Subagent: The implementation of an MIB for a particular device. The MIB describes the device's desired behavior; the SNMP subagent carries it out.

TCP/IP: *see* Transmission Control Protocol/Internet Protocol.

Transmission Control Protocol/Internet Protocol (TCP/IP): A protocol developed by the Department of Defense for communications between computers. It is built into the UNIX system and has become the de facto standard for data transmission over networks, including the Internet.

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Virtual Machine: Software that mimics the performance of a hardware device, such as a program that allows applications written for an Intel processor to be run on a Motorola chip. *Also See* Java Virtual Machine.

Websphere_MQ_Manager: A specialized manager capable of hosting one or more IBM MQ specific policies, apart from the regular policies.

Wireless Application Protocol (WAP): An open global specification that is used by most mobile telephone manufacturers. WAP determines how wireless devices utilize Internet content and other services. WAP enables devices to link diverse systems contents and controls.

z/OS: *see* Z Series Operating System.

Z Series Operating System: IBM architecture for mainframe computers and peripherals. The zSeries family of servers uses the z/Architecture. It is the successor to the S/390 and 9672 family of servers.

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