

**Job Management Partner 1 Version 10**

**Job Management Partner 1/Automatic  
Operation  
GUI and Command Reference**

## Relevant program products

P-242C-E1AL Job Management Partner 1/Automatic Operation 10-10 (for Windows Server 2008 R2, Windows Server 2012)

The above product includes the following:

- P-CC242C-EAAL Job Management Partner 1/Automatic Operation - Server 10-10 (for Windows Server 2008 R2, Windows Server 2012)
- P-CC242C-EBAL Job Management Partner 1/Automatic Operation - Contents 10-10 (for Windows Server 2008 R2, Windows Server 2012)

P-F242C-E1AL1 Job Management Partner 1/Automatic Operation Contents Set 10-10 (for Windows Server 2008 R2, Windows Server 2012)

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# Preface

This manual describes the Job Management Partner 1/Automatic Operation windows and commands.

In this manual, Job Management Partner 1 is abbreviated to *JP1*, and Job Management Partner 1/Automatic Operation is abbreviated to *JP1/AO*.

For reference information on JP1/AO manuals and a glossary, see the manual *Job Management Partner 1/Automatic Operation Overview and System Design Guide*.

- ☐ [Intended readers](#)
- ☐ [Microsoft product name abbreviations](#)
- ☐ [Conventions used in this manual](#)
- ☐ [Summary of amendments](#)

## Intended readers

This manual is intended:

- Users who want to learn about the JP1/AO windows
- Users who operate the JP1/AO windows
- Users of the JP1/AO commands

## Microsoft product name abbreviations

This manual uses the following abbreviations for Microsoft product names.

Abbreviation				Full name or meaning
.NET Framework	.NET Framework 3.5			Microsoft(R) .NET Framework 3.5
Active Directory				Microsoft(R) Active Directory
Hyper-V				Microsoft(R) Hyper-V(R)
Internet Explorer	Microsoft Internet Explorer			Microsoft(R) Internet Explorer(R)
	Windows Internet Explorer			Windows(R) Internet Explorer(R)
Windows	Windows 7			Microsoft(R) Windows(R) 7 Enterprise
				Microsoft(R) Windows(R) 7 Professional
				Microsoft(R) Windows(R) 7 Ultimate
	Windows Server 2003 <sup>#1</sup>	Windows Server 2003 <sup>#1</sup>		Microsoft(R) Windows Server(R) 2003, Enterprise Edition
				Microsoft(R) Windows Server(R) 2003, Standard Edition
		Windows Server 2003 (x64)		Microsoft(R) Windows Server(R) 2003, Enterprise x64 Edition
				Microsoft(R) Windows Server(R) 2003, Standard x64 Edition
		Windows Server 2003 R2 <sup>#2</sup>	Windows Server 2003 R2 <sup>#2</sup>	Microsoft(R) Windows Server(R) 2003 R2, Enterprise Edition
				Microsoft(R) Windows Server(R) 2003 R2, Standard Edition
			Windows Server 2003 R2 (x64)	Microsoft(R) Windows Server(R) 2003 R2, Enterprise x64 Edition
				Microsoft(R) Windows Server(R) 2003 R2, Standard x64 Edition
	Windows Server 2008	Windows Server 2008 R2	Windows Server 2008 R2 Datacenter	Microsoft(R) Windows Server(R) 2008 R2 Datacenter

Abbreviation				Full name or meaning	
			Windows Server 2008 R2 Enterprise	Microsoft(R) Windows Server(R) 2008 R2 Enterprise	
			Windows Server 2008 R2 Standard	Microsoft(R) Windows Server(R) 2008 R2 Standard	
		Windows Server 2008 x64	Windows Server 2008 Datacenter x64	Microsoft(R) Windows Server(R) 2008 Datacenter x64	
			Windows Server 2008 Enterprise x64	Microsoft(R) Windows Server(R) 2008 Enterprise x64	
			Windows Server 2008 Standard x64	Microsoft(R) Windows Server(R) 2008 Standard x64	
		Windows Server 2008 x86	Windows Server 2008 Datacenter x86	Microsoft(R) Windows Server(R) 2008 Datacenter x86	
			Windows Server 2008 Enterprise x86	Microsoft(R) Windows Server(R) 2008 Enterprise x86	
			Windows Server 2008 Standard x86	Microsoft(R) Windows Server(R) 2008 Standard x86	
		Windows Server 2012	Windows Server 2012 Datacenter		Microsoft(R) Windows Server(R) 2012 Datacenter
			Windows Server 2012 Standard		Microsoft(R) Windows Server(R) 2012 Standard
Windows Server Failover Cluster				Microsoft(R) Windows Server(R) Failover Cluster	
Windows Vista				Microsoft(R) Windows Vista(R) Business	
				Microsoft(R) Windows Vista(R) Enterprise	
				Microsoft(R) Windows Vista(R) Ultimate	
Windows XP				Microsoft(R) Windows(R) XP Professional Operating System	

#1

In descriptions, if Windows Server 2003 (x64) or Windows Server 2003 R2 is noted alongside Windows Server 2003, the description for Windows Server 2003 does not apply to Windows Server 2003 (x64) or Windows Server 2003 R2.

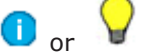

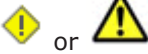



#2

In descriptions, if Windows Server 2003 R2 (x64) is noted alongside Windows Server 2003 R2, the description for Windows Server 2003 R2 does not apply to Windows Server 2003 R2 (x64).

## Conventions used in this manual

This section describes the conventions used in this manual.

### Icons used in this manual

Icon	Meaning
 or 	Indicates useful hints and supplementary information that are useful to know.
 or 	Indicates information about a problem that, if ignored, might cause operation or processing failure.
 or 	Indicates information about a problem that, if ignored, might cause serious adverse effects on your environment.

### Conventions in syntax explanations

Text formatting	Description
<i>Character string</i>	Italic characters indicate a variable. Example: A date is specified in <i>YYYYMMDD</i> format.
<b>Bold - Bold</b>	Indicates selecting menu items in succession. Example: Select <b>File</b> - <b>New</b> . This example means that you select <b>New</b> from the <b>File</b> menu.
<b>key + key</b>	Indicates pressing keys on the keyboard at the same time. Example: <b>Ctrl</b> + <b>Alt</b> + <b>Delete</b> means pressing the <b>Ctrl</b> , <b>Alt</b> , and <b>Delete</b> keys at the same time.

### Representation of JP1/AO-related installation folders

In this manual, the default installation folders are represented as follows:

JP1/AO installation folder:

*system-drive*\Program Files (x86)\Hitachi\JP1AO

Common Component installation folder:

*system-drive*\Program Files (x86)\Hitachi\HiCommand\Base

# Summary of amendments

The following table lists changes in this manual (3021-3-315-10(E)) and product changes related to this manual.

Changes	Location
New functionality allows the user to develop service templates and plug-ins in the <b>Editor</b> window.	<a href="#">List of windows on page 1-2</a> , <a href="#">Window transition on page 1-12</a> , <a href="#">Chapter 7, Editor Window on page 7-1</a> , <a href="#">List of limit values for JP1/AO windows on page A-2</a>
Notes on operating on windows in Windows Server 2012 were added.	<a href="#">Notes on operating windows on page 1-17</a>
<b>Configuration Type</b> was added as a display item of the following windows: <ul style="list-style-type: none"> <li>• <b>Waiting Task List</b> dialog box</li> <li>• <b>Waiting for Response Task List</b> dialog box</li> <li>• <b>In Progress Task List</b> dialog box</li> <li>• <b>Completed Task List</b> dialog box</li> <li>• <b>Failed Task List</b> dialog box</li> <li>• <b>Services</b> window</li> <li>• <b>Submit Service</b> dialog box</li> <li>• <b>Add Service</b> dialog box</li> <li>• <b>Service Definition</b> dialog box</li> <li>• <b>Tasks</b> view</li> <li>• <b>Task Details</b> dialog box</li> <li>• <b>Task Histories</b> view</li> </ul>	<a href="#">Waiting Task List</a> dialog box on page 3-7, <a href="#">Waiting for Response Task List</a> dialog box on page 3-9, <a href="#">In Progress Task List</a> dialog box on page 3-11, <a href="#">Completed Task List</a> dialog box on page 3-12, <a href="#">Failed Task List</a> dialog box on page 3-14, <a href="#">Services</a> window on page 4-2, <a href="#">Submit Service</a> dialog box on page 4-3, <a href="#">Add Service</a> dialog box on page 4-7, <a href="#">Service Definition</a> dialog box on page 4-10, <a href="#">Tasks</a> view on page 5-2, <a href="#">Task Details</a> dialog box on page 5-5, <a href="#">Task Histories</a> view on page 5-10
The following items of the Task Details dialog box were changed: <ul style="list-style-type: none"> <li>• <b>Jobnet Information</b> was changed to <b>Step Information</b>.</li> <li>• <b>Jobnet Details</b> was changed to <b>Step Details</b>.</li> <li>• <b>Root Jobnet Name</b> was deleted.</li> <li>• <b>Units</b> was changed to <b>Steps</b>.</li> <li>• <b>Unit Name</b> was changed to <b>Name</b>.</li> <li>• <b>Comment</b> was changed to <b>Description</b>.</li> </ul>	<a href="#">Task Details</a> dialog box on page 5-5
Telnet was added to the available protocols.	<a href="#">Create Connection Destination</a> dialog box on page 6-4, <a href="#">Edit Connection Destination</a> dialog box on page 6-6
Plug-in resource files for English, Chinese, and Japanese environments can now be selected.	<a href="#">Set the Plug-in Resources</a> dialog box on page 7-19
Service resource files for English, Chinese, and Japanese environments can now be selected.	<a href="#">Set the Service Resources</a> dialog box on page 7-53

Changes	Location
The limit on simultaneous execution was increased from 2 to 10 for both the <code>submittask</code> and <code>stoptask</code> commands.	<a href="#">Notes on using the commands on page 8-4</a>
New functionality allows the user to change the subject identification information output to the audit log.	<a href="#">Notes on using the commands on page 8-4</a>
A description that the <code>setupcluster</code> command is not available in Windows Server 2012 was added.	<a href="#">setupcluster (configuring a cluster environment) on page 8-13</a>
The Develop role was added to user permissions. It can be used to execute the following commands: <ul style="list-style-type: none"> <li><code>deleteservicetemplate</code> command</li> <li><code>importservicetemplate</code> command</li> <li><code>listservices</code> command</li> <li><code>listtasks</code> command</li> <li><code>stoptask</code> command</li> <li><code>submittask</code> command</li> </ul>	<a href="#">deleteservicetemplate (deleting a service template) on page 8-15</a> , <a href="#">importservicetemplate (importing one or more service templates) on page 8-24</a> , <a href="#">listservices (outputting the list of services or service templates) on page 8-26</a> , <a href="#">listtasks (outputting the list of tasks) on page 8-30</a> , <a href="#">stoptask (stopping a task) on page 8-34</a> , <a href="#">submittask (executing a service) on page 8-36</a>
Configuration Type was added to the output items of the <code>listservices</code> and <code>listtasks</code> commands.	<a href="#">listservices (outputting the list of services or service templates) on page 8-26</a> , <a href="#">listtasks (outputting the list of tasks) on page 8-30</a>
The following description was added: If you omit specifying the <code>/property</code> option in the <code>submittask</code> command, the values you entered in the <b>Service Definition</b> dialog box are set for the corresponding property keys.	<a href="#">submittask (executing a service) on page 8-36</a>
The <code>/wait</code> option, which is used to finish the command after outputting the execution results of the task, was added to the <code>submittask</code> command.	<a href="#">submittask (executing a service) on page 8-36</a>
The <code>/scheduledate</code> and <code>/scheduletime</code> options, which are used to specify when services are to be executed, were added to the <code>submittask</code> command.	<a href="#">submittask (executing a service) on page 8-36</a>
The description of JP1/Base services was deleted because these services automatically start when JP1/AO services start.	<a href="#">backupsystem (backing up the JP1/AO system) on page 8-41</a> , <a href="#">restoresystem (restoring the JP1/AO system) on page 8-53</a>
The limit values for the <b>Editor</b> window were added to the list of limit values.	<a href="#">List of limit values for JP1/AO windows on page A-2</a>
The list of limit values was modified.	<a href="#">List of limit values for JP1/AO windows on page A-2</a>
Items related to functionality in the list of limit values were moved to the Job Management Partner 1/Automatic	<a href="#">List of limit values for JP1/AO windows on page A-2</a>

Changes	Location
Operation Overview and System Design Guide as List of limit values of functions.	

In addition to the above changes, minor editorial corrections were made.





# Overview of windows

This chapter provides a list of windows used in JP1/AO, an overview of screen transitions, and notes on using each window.

- ☐ [List of windows](#)
- ☐ [Window transition](#)
- ☐ [Notes on operating windows](#)

## List of windows

In addition to its common function windows, JP1/AO provides extended functions through the **Services**, **Tasks**, **Administration**, and **Editor** windows. The following tables describe those windows, including the dialog boxes and views that are displayed from or in those windows.

**Table 1-1 List of JP1/AO windows (common)**

Window name	Description	See:
<b>Login</b> window	Window used to log in to JP1/AO	<a href="#">Login window on page 2-2</a>
Main window	Window used to execute services, check the progress of tasks, or perform various JP1/AO operations	<a href="#">Main window on page 3-2</a>
<b>About</b> dialog box	Dialog box used to check the JP1/AO version	<a href="#">About dialog box on page 3-4</a>
<b>Column Settings</b> dialog box	Dialog box used to select columns to be displayed in a list	<a href="#">Column Settings dialog box on page 3-6</a>
<b>Waiting Task List</b> dialog box	Dialog box used to display and check a list of user-executed tasks that are currently in a waiting state	<a href="#">Waiting Task List dialog box on page 3-7</a>
<b>Waiting for Response Task List</b> dialog box	Dialog box used to display and check a list of user-executed tasks that are currently waiting for a response	<a href="#">Waiting for Response Task List dialog box on page 3-9</a>
<b>In Progress Task List</b> dialog box	Dialog box used to display and check a list of user-executed tasks that are currently in progress	<a href="#">In Progress Task List</a>

Window name	Description	See:
		<a href="#">List dialog box on page 3-11</a>
<b>Completed Task List</b> dialog box	Dialog box used to display and check a list of user-executed tasks that have completed normally	<a href="#">Completed Task List dialog box on page 3-12</a>
<b>Failed Task List</b> dialog box	Dialog box used to display and check a list of user-executed tasks that have failed	<a href="#">Failed Task List dialog box on page 3-14</a>

**Table 1-2 List of JP1/AO windows (related to the Services window)**

Window name	Description	See:
<b>Services</b> window	Window used to check the services registered in JP1/AO or execute one of the services	<a href="#">Services window on page 4-2</a>
<b>Submit Service</b> dialog box	Dialog box used to check or execute a service registered in JP1/AO	<a href="#">Submit Service dialog box on page 4-3</a>
<b>Add Service</b> dialog box	Dialog box used to select a service to be added from the service templates that have been imported into JP1/AO and then assign that service to a resource group	<a href="#">Add Service dialog box on page 4-7</a>
<b>Service Definition</b> dialog box	Dialog box used to set property information for a service	<a href="#">Service Definition dialog box on</a>

Window name	Description	See:
		<a href="#">page 4-10</a>
<b>Delete Services</b> dialog box	Dialog box used to delete unnecessary services	<a href="#">Delete Services dialog box on page 4-12</a>

**Table 1-3 List of JP1/AO windows (related to the Tasks window)**

Window name	Description	See:
<b>Tasks</b> window	Window used to check the progress or history of tasks processed by JP1/AO	<a href="#">Tasks window on page 5-2</a>
<b>Tasks</b> view	View used to check a list or history of the tasks that were processed by JP1/AO, or to stop tasks that are being processed	<a href="#">Tasks view on page 5-2</a>
<b>Task Details</b> dialog box	Dialog box used to check the input and output properties or the progress of steps	<a href="#">Task Details dialog box on page 5-5</a>
<b>Respond</b> dialog box	Dialog box used to enter a user response for an in-progress task	<a href="#">Respond dialog box on page 5-9</a>
<b>Task Histories</b> view	View used to check the history entries of the tasks whose processing has finished (normally terminated, failed, or canceled)	<a href="#">Task Histories view on page 5-10</a>
<b>Delete Task Histories</b> dialog box	Dialog box used to delete history entries that are no longer necessary	<a href="#">Delete Task Histories dialog box on page 5-12</a>

**Table 1-4 List of JP1/AO windows (related to the Administration window)**

Window name	See:	See:
<b>Administration</b> window	Window used to specify JP1/AO settings for user management, resource group management, and other purposes	<a href="#">Admin istrati on window on page 6-2</a>
<b>Connection Destinations</b> view	View used to check the connection definition that is used for connection to a destination	<a href="#">Conne ction Destin ations view on page 6-3</a>
<b>Create Connection Destination</b> dialog box	Dialog box used to create the connection definition that is used for connection to a destination	<a href="#">Create Conne ction Destin ation dialog box on page 6-4</a>
<b>Edit Connection Destination</b> dialog box	Dialog box used to edit the connection definition that is used for connection to a destination	<a href="#">Edit Conne ction Destin ation dialog box on page 6-6</a>
<b>Delete Destinations</b> dialog box	Dialog box used to delete the connection definition that is used for connection to a destination	<a href="#">Delete Destin ations dialog box on page 6-8</a>
<b>Service Share Properties</b> view	View used to check the settings of the shared service properties (properties common to services) that are set in JP1/AO	<a href="#">Servic e Share Proper ties view on page 6-10</a>
<b>Set Service Share</b>	Dialog box used to change the settings of shared service properties that are set in JP1/AO	<a href="#">Set Servic</a>

Window name	See:	See:
<b>Property</b> dialog box		<a href="#">e Share Property dialog box on page 6-11</a>
<b>Users and Permissions</b> window	Window used to manage JP1/AO users' profiles and permissions	<a href="#">Users and Permissions window on page 6-12</a>
<b>User List</b> view	View used to list, add, or delete users	<a href="#">User List on page 6-14</a>
<b>Add Users</b> dialog box (Users and Permissions)	Dialog box used to add users to JP1/AO	<a href="#">Add User dialog box (Users and Permissions) on page 6-15</a>
<b>Lock Users</b> dialog box	Dialog box used to prevent specified users from logging in to JP1/AO	<a href="#">Lock Users dialog box on page 6-16</a>
<b>Unlock Users</b> dialog box	Dialog box used to unlock specified users	<a href="#">Unlock Users dialog box on page 6-17</a>
<b>Delete Users</b> dialog box	Dialog box used to delete users from JP1/AO	<a href="#">Delete Users dialog box on page 6-18</a>
<b>User Profile</b> view	View used to check or change a user profile	<a href="#">User Profile view</a>

Window name	See:	See:
		<a href="#">on page 6-19</a>
<b>Edit Profile</b> dialog box	Dialog box used to change a user profile	<a href="#">Edit Profile dialog box on page 6-21</a>
<b>Change Password</b> dialog box	Dialog box used to change the password of a user	<a href="#">Change Password dialog box on page 6-22</a>
<b>Change Permission</b> dialog box	Dialog box used to change the permission settings of a user	<a href="#">Change Permission dialog box on page 6-23</a>
<b>Permissions</b> view	View used to manage permissions	<a href="#">Permissions view on page 6-24</a>
<b>Authorized User List</b> view	View used to check authorized users	<a href="#">Authorized User List view on page 6-26</a>
<b>Authorized User and Group List</b> view	View used to check authorized users and groups	<a href="#">Authorized User and Group List view on page 6-27</a>
<b>User Groups</b> view ( <b>User Groups</b> tab)	View used to manage user groups	<a href="#">User Groups view (User Groups tab)</a>

Window name	See:	See:
		<a href="#">Groups tab) on page 6-28</a>
<b>Create User Group</b> dialog box	Dialog box used to create a user group, and then assign users and resource groups to that user group	<a href="#">Create User Group dialog box on page 6-29</a>
<b>Add Users</b> dialog box (User Groups)	Dialog box used to add users to a user group	<a href="#">Add Users dialog box (User Groups) on page 6-32</a>
<b>Add Resource Groups</b> dialog box	Dialog box used to add resource groups to a user group	<a href="#">Add Resource Groups dialog box on page 6-33</a>
<b>Edit Roles</b> dialog box	Dialog box used to select the role that is to be assigned to a resource group	<a href="#">Edit Roles dialog box on page 6-34</a>
<b>Edit User Group</b> dialog box	Dialog box used to edit the users and resource groups assigned to the selected user group	<a href="#">Edit User Group dialog box on page 6-36</a>
<b>Delete User Groups</b> dialog box	Dialog box used to delete user groups	<a href="#">Delete User Groups dialog box on page 6-38</a>



Window name	See:	See:
<b>User Groups</b> view ( <b>Users</b> tab)	View used to assign users to a user group or check the users assigned to a user group	<a href="#">User Groups view (Users tab) on page 6-39</a>
<b>Assign User Groups</b> dialog box	Dialog box used to assign users to a user group	<a href="#">Assign User Groups dialog box on page 6-41</a>
<b>Resource Groups</b> view	View used to manage resource groups	<a href="#">Resource Groups view on page 6-43</a>
<b>Create Resource Group</b> dialog box	Dialog box used to create a resource group	<a href="#">Create Resource Group dialog box on page 6-44</a>
<b>Edit Resource Group</b> dialog box	Dialog box used to change the name or description of a resource group	<a href="#">Edit Resource Group dialog box on page 6-45</a>
<b>Delete Resource Groups</b> dialog box	Dialog box used to delete resource groups	<a href="#">Delete Resource Groups dialog box on page 6-45</a>
<b>User Profile</b> window	Window used to check a user profile	<a href="#">User Profile window on page 6-46</a>

**Table 1-5 List of JP1/AO windows (related to the Editor window)**

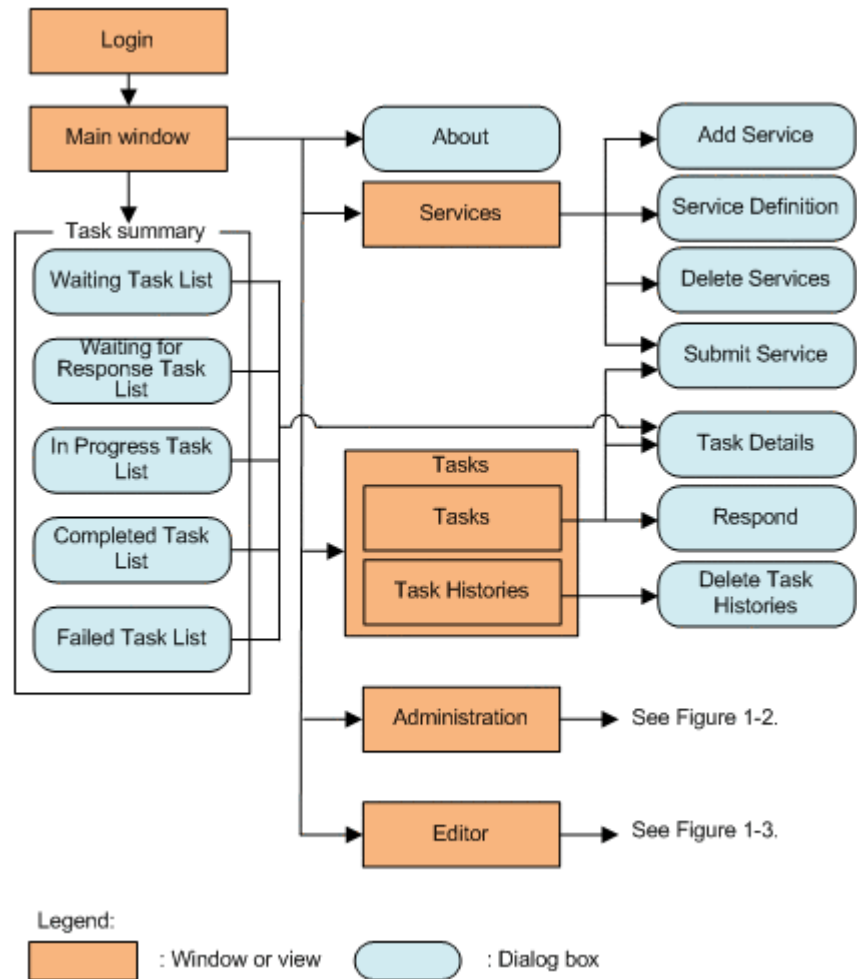
Window name	Description	See:
<b>Editor</b> window	Window used to develop service templates or plug-ins	<a href="#">Editor window on page 7-2</a>
<b>Plug-in</b> view	View used to list or develop plug-ins	<a href="#">Plug-in view on page 7-3</a>
<b>Plug-in</b> view ( <b>Basic</b> tab)	View used to create or edit a service template with basic plug-ins	<a href="#">Plug-in view (<b>Basic</b> tab) on page 7-5</a>
<b>Plug-in</b> view ( <b>Release</b> tab)	View used to create or edit a service template with release plug-ins	<a href="#">Plug-in view (<b>Release</b> tab) on page 7-6</a>
<b>Plug-in</b> view ( <b>Under Development</b> tab)	View used to create plug-ins or develop a service template with plug-ins previously created	<a href="#">Plug-in view (<b>Under Development</b> tab) on page 7-7</a>
<b>Copy Plug-in</b> dialog box	Dialog box used to copy plug-ins	<a href="#">Copy Plug-in dialog box on page 7-9</a>
<b>Create Plug-in</b> dialog box	Dialog box used to create plug-ins	<a href="#">Create Plug-in dialog box on page 7-11</a>
<b>Edit Plug-in</b> dialog box	Dialog box used to edit the definition information of a plug-in	<a href="#">Edit Plug-in dialog box on page 7-15</a>
<b>Set the Plug-in Resources</b> dialog box	Dialog box used to upload or download plug-in resource files	<a href="#">Set the Plug-in Resources dialog box on page 7-19</a>
<b>Create Input Property for Plug-in</b> dialog box	Dialog box used to add input properties to a plug-in	<a href="#">Create Input Property for Plug-in dialog box on page 7-20</a>
<b>Edit Input Property for Plug-in</b> dialog box	Dialog box used to edit the input properties that are defined for a plug-in	<a href="#">Edit Input Property for Plug-in dialog box on page 7-21</a>
<b>Create Output Property for Plug-in</b> dialog box	Dialog box used to add output properties to a plug-in	<a href="#">Create Output Property for Plug-in dialog box on page 7-22</a>
<b>Edit Output Property for Plug-in</b> dialog box	Dialog box used to edit the output properties that are defined for a plug-in	<a href="#">Edit Output Property for Plug-in dialog box on page 7-23</a>
<b>Edit Remote Command</b> dialog box	Dialog box used to set the remote command that will be executed by a plug-in	<a href="#">Edit Remote Command dialog box on page 7-24</a>
<b>Create Environment Variable</b> dialog box	Dialog box used to create the environment variables that are required to execute a remote command	<a href="#">Create Environment Variable dialog box on page 7-27</a>
<b>Edit Environment Variable</b> dialog box	Dialog box used to edit the environment variables that are	<a href="#">Edit Environment Variable dialog box on page 7-28</a>

Window name	Description	See:
	required to execute a remote command	
<b>Edit Output Filter</b> dialog box	Dialog box used to specify the output filter settings	<a href="#">Edit Output Filter</a> dialog box on page 7-28
<b>Service Template Editor Home View</b> view	View used to develop a service template	<a href="#">Service Template Editor Home</a> view on page 7-30
<b>Create Service Template</b> dialog box	Dialog box used to create a service template	<a href="#">Create Service Template</a> dialog box on page 7-31
<b>Service Template List</b> dialog box	Dialog box used to display a list of service templates and to select service templates to be edited, copied, viewed, or deleted	<a href="#">Service Template List</a> dialog box on page 7-32
<b>Copy Service Template</b> dialog box	Dialog box used to copy a service template	<a href="#">Copy Service Template</a> dialog box on page 7-35
Service template view dialog box	View used to display the definitions of a service template	<a href="#">Service template view</a> dialog box on page 7-36
<b>View Service Definition</b> dialog box	Dialog box used to view the definitions of a service	<a href="#">View Service Definition</a> dialog box on page 7-38
<b>View Input Property for Service</b> dialog box	Dialog box used to view the input properties of a service	<a href="#">View Input Property for Service</a> dialog box on page 7-42
<b>View Output Property for Service</b> dialog box	Dialog box used to view the output properties of a service	<a href="#">View Output Property for Service</a> dialog box on page 7-44
<b>View Variable</b> dialog box	Dialog box used to view the variables of a service	<a href="#">View Variable</a> dialog box on page 7-45
<b>View Step</b> dialog box	Dialog box used to view the step information about a service	<a href="#">View Step</a> dialog box on page 7-46
Service template editing view	View used to edit an existing service template or create a service template	<a href="#">Service template editing</a> view on page 7-49
<b>Set the Service Resources</b> dialog box	Dialog box used to upload or download service resource files	<a href="#">Set the Service Resources</a> dialog box on page 7-53
<b>Build / Release Result</b> dialog box	Dialog box used to check the result or progress of building or releasing a service template	<a href="#">Build / Release Result</a> dialog box on page 7-54
<b>Edit Service Definition</b> dialog box	Dialog box used to edit the definitions of a service	<a href="#">Edit Service Definition</a> dialog box on page 7-55
<b>Create Property Group</b> dialog box	Dialog box used to add a property group	<a href="#">Create Property Group</a> dialog box on page 7-60
<b>Edit Property Group</b> dialog box	Dialog box used to edit the definitions of a property group	<a href="#">Edit Property Group</a> dialog box on page 7-61

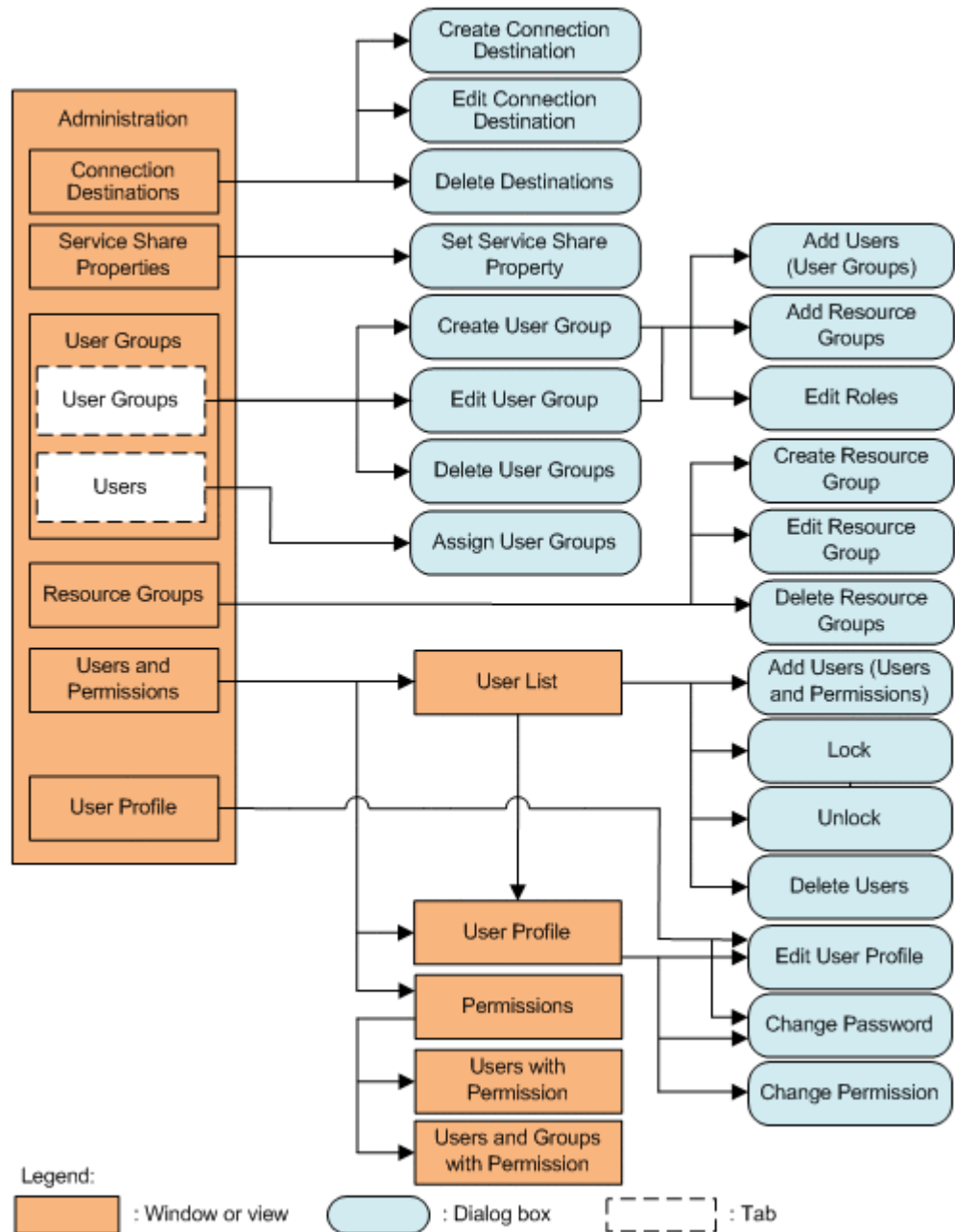
Window name	Description	See:
<b>Select Service Share Property</b> dialog box	Dialog box used to set shared service properties as input properties for a service	<a href="#"><b>Select Service Share Property</b> dialog box on page 7-62</a>
<b>Create Input Property for Service</b> dialog box	Dialog box used to add input properties to a service	<a href="#"><b>Create Input Property for Service</b> dialog box on page 7-63</a>
<b>Edit Input Property for Service</b> dialog box	Dialog box used to edit the input properties of a service	<a href="#"><b>Edit Input Property for Service</b> dialog box on page 7-67</a>
<b>Create Output Property for Service</b> dialog box	Dialog box used to add output properties to a service	<a href="#"><b>Create Output Property for Service</b> dialog box on page 7-71</a>
<b>Edit Output Property for Service</b> dialog box	Dialog box used to edit the output properties of a service	<a href="#"><b>Edit Output Property for Service</b> dialog box on page 7-73</a>
<b>Create Variable</b> dialog box	Dialog box used to create variables for a service	<a href="#"><b>Create Variable</b> dialog box on page 7-74</a>
<b>Edit Variable</b> dialog box	Dialog box used to edit the variables of a service	<a href="#"><b>Edit Variable</b> dialog box on page 7-75</a>
<b>Create Step</b> dialog box	Dialog box used to add steps to a service template	<a href="#"><b>Create Step</b> dialog box on page 7-76</a>
<b>Edit Step</b> dialog box	Dialog box used to edit the steps of a service template	<a href="#"><b>Edit Step</b> dialog box on page 7-80</a>
<b>Specify Plug-in Input Properties for Mapping</b> dialog box	Dialog box used to set mapping parameters for input properties	<a href="#"><b>Specify Plug-in Input Properties for Mapping</b> dialog box on page 7-84</a>
<b>Specify Plug-in Output Properties for Mapping</b> dialog box	Dialog box used to set mapping parameters for output properties	<a href="#"><b>Specify Plug-in Output Properties for Mapping</b> dialog box on page 7-86</a>

## Window transition

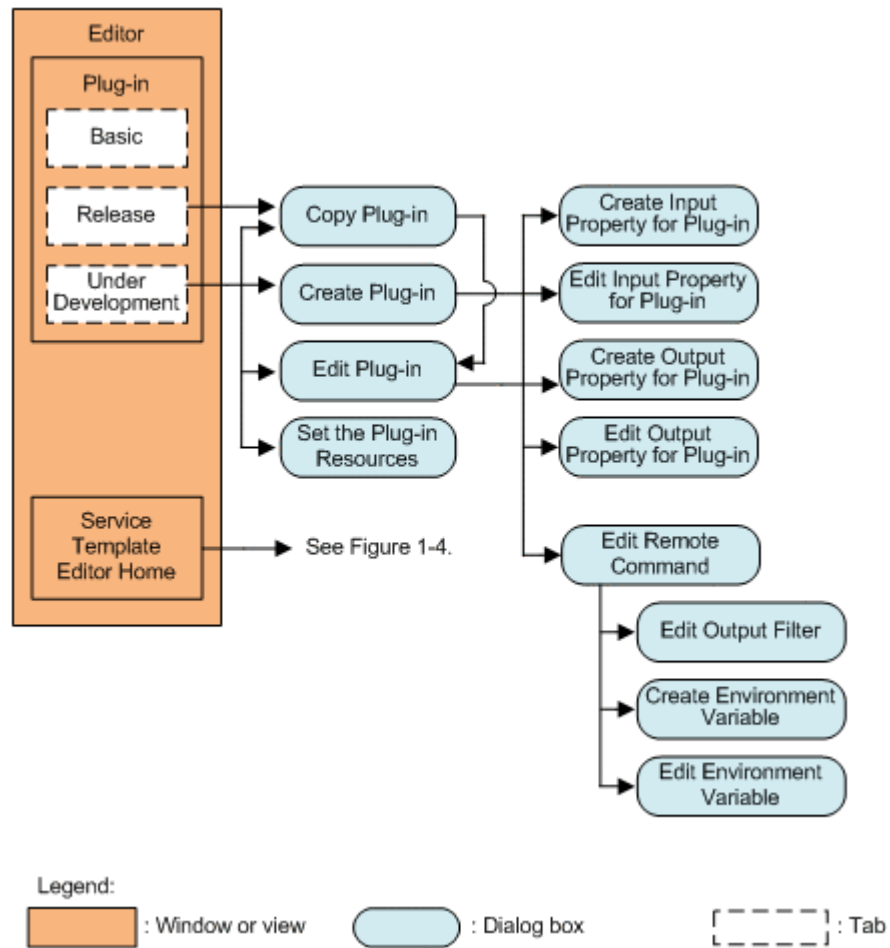
The following figures show the window transitions in JP1/AO.



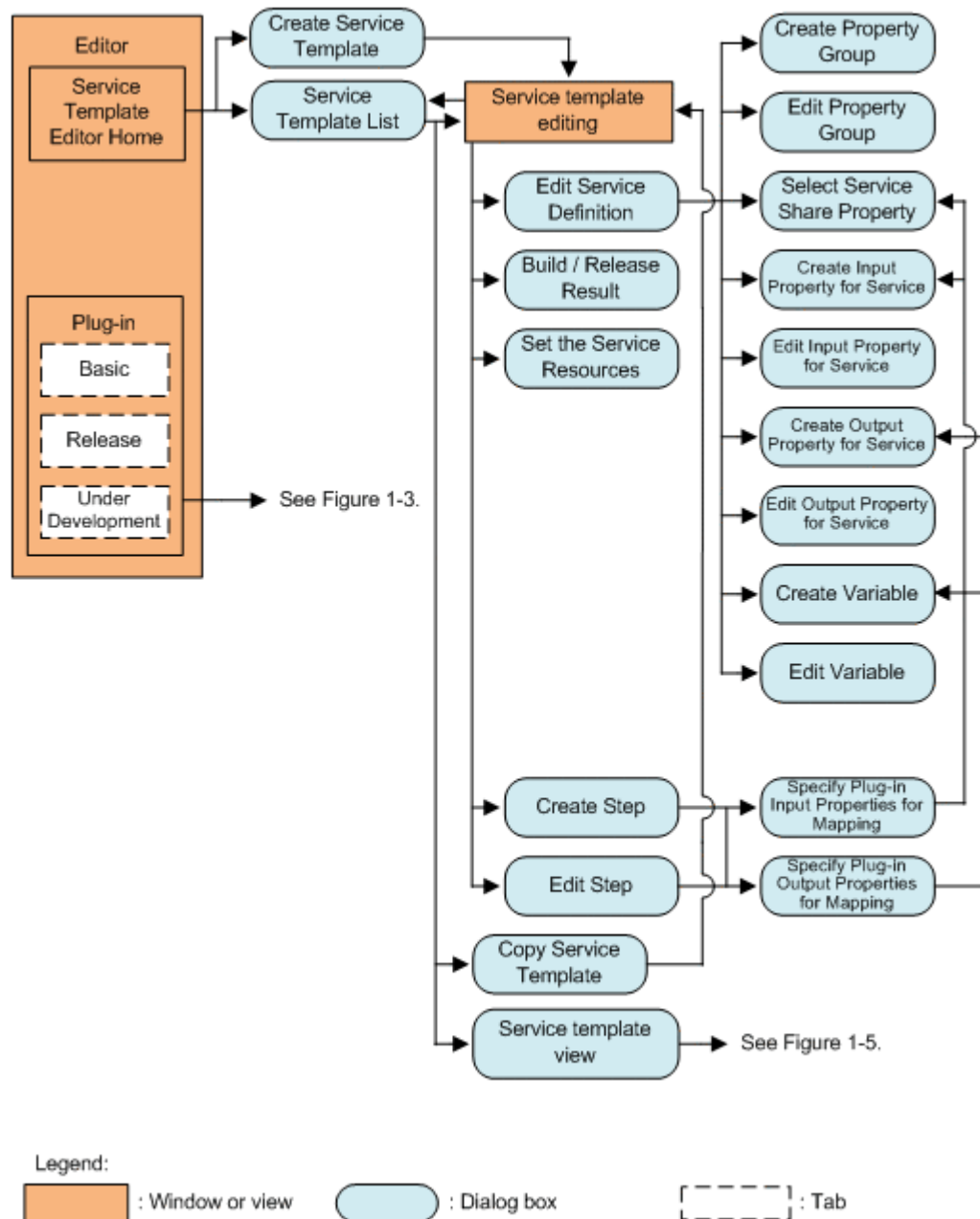
**Figure 1-1 JP1/AO window transition (from the main window)**



**Figure 1-2 JP1/AO window transition (from the Administration window)**

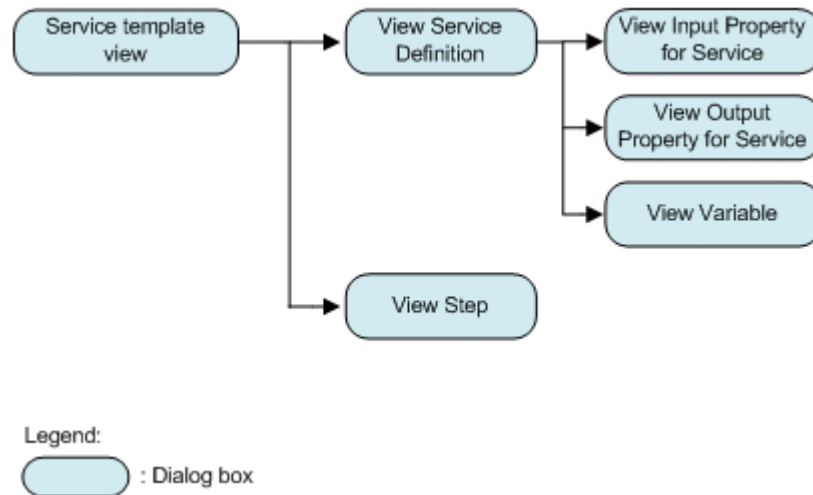


**Figure 1-3 JP1/AO window transition (from the Editor window) (1/3)**



**Figure 1-4 JP1/AO window transition (from the Editor window) (2/3)**





**Figure 1-5 JP1/AO window transition (from the Editor window) (3/3)**

## Notes on operating windows

This section provides notes on operating the JP1/AO windows:

- Do not change from one page displayed on the Web browser to another page, or use the **Back**, **Forward**, or **Refresh** button. If you do, JP1/AO might not work properly.
- The language used in the JP1/AO windows is determined by your Web browser's language setting. JP1/AO supports Japanese, English, and Chinese (Simplified) as the display languages. For this reason, set Japanese (ja), English (en), or Chinese (zh) as the display language for your Web browser. Unless you specifically set the language, several different display languages might appear in some of the operation windows. If Chinese messages contain placeholders, the placeholders might be replaced with character strings entered by users in English or some other language.
- To exit the Web browser, log out from JP1/AO before using the **Close** button to close the window. Clicking the **Close** button while you are still logged in can result in abnormal termination of the Web browser or occurrence of an error. If a problem occurs, try logging in again.
- Do not use **Internet Options** to make changes while an operation window is displayed. If you do, restart the Web browser and try logging in again.
- Make sure that you enable Adobe Flash Player on the Web browser. For details about enabling Adobe Flash Player, see the relevant Adobe Flash Player documentation.
- If you have enabled the pop-up block setting on the Web browser, a popup window might not appear even when you perform an operation that is supposed to cause a pop-up window to appear. You can solve this problem by using the pop-up block setting to add the JP1/AO address to the **Allowed sites** list on the Web browser.

- If you are using Windows Server 2003 or Windows Server 2008 as an operation terminal with the **Internet Explorer Enhanced Security Configuration** (IE ESC) enabled, an animation indicating the loading progress might appear frozen.
- Clicking the **Download Log File** button in the **Task Details** dialog box to open the download destination selection window and then proceeding to operate another JP1/AO window can result in an internal error or failure to perform subsequent window operations. Make sure that you close the download destination selection window before using another JP1/AO window.
- Strings entered in the Web browser operation window are converted to UTF-8.
- JP1/AO does not support the input of external characters or surrogate pair characters. The use of such characters can cause them to become garbled in an operation window or otherwise result in the characters not being processed as correct characters.
- If you are using Windows Server 2012 as an operation terminal, in **Server Manager**, from the **Manage** menu, select **Add Roles and Features**, and then install Desktop Experience.
- If Enhanced Protected Mode is enabled in Internet Explorer 10, you can only download a task log to the current folder. Before you download a task log, make sure that the operation window is registered as a trusted site.
- JP1/AO does not support Modern-style Internet Explorer 10.

## Login Window

This chapter provides information on a window used to log in to JP1/AO.

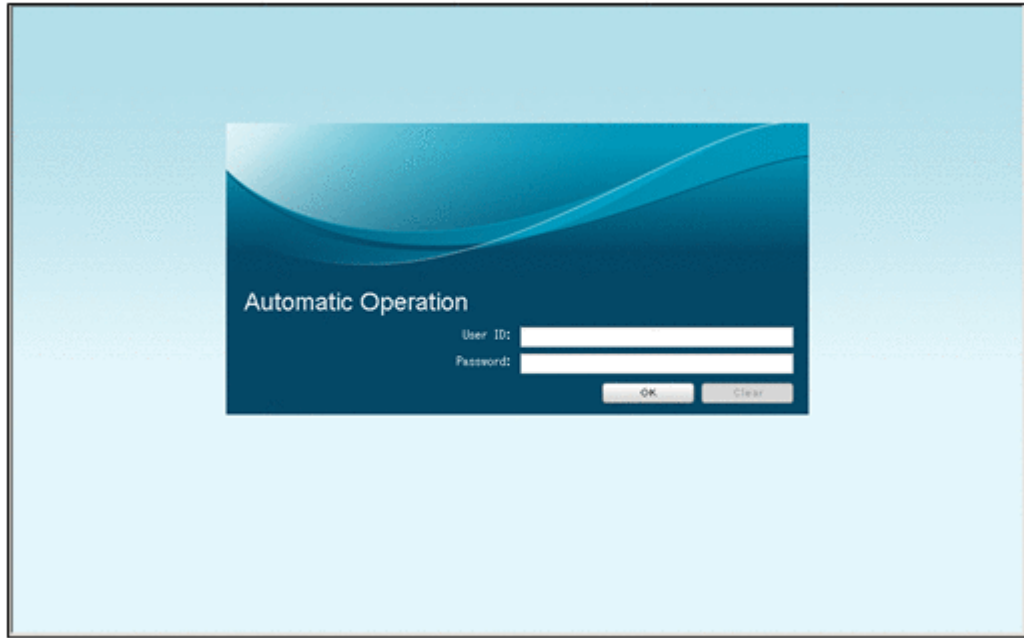
- [Login window](#)

## Login window

Use the **Login** window to log in to JP1/AO.

To display the **Login** window, specify the following URL:

`http://host-name-of-JP1/AO-server:HTTP-port-number/Automation/`



**Figure 2-1 Login window**

The following items are displayed in this window:

**User ID** text box

Enter the ID of the user logging in.

**Password** text box

Enter the password of the user logging in.

**OK** button

Enter the user ID and the password and then click this button to log in to JP1/AO. The **main** window appears.

**Clear** button

Click this button to clear the values you have entered in the **User ID** and **Password** text boxes.

## Main Window

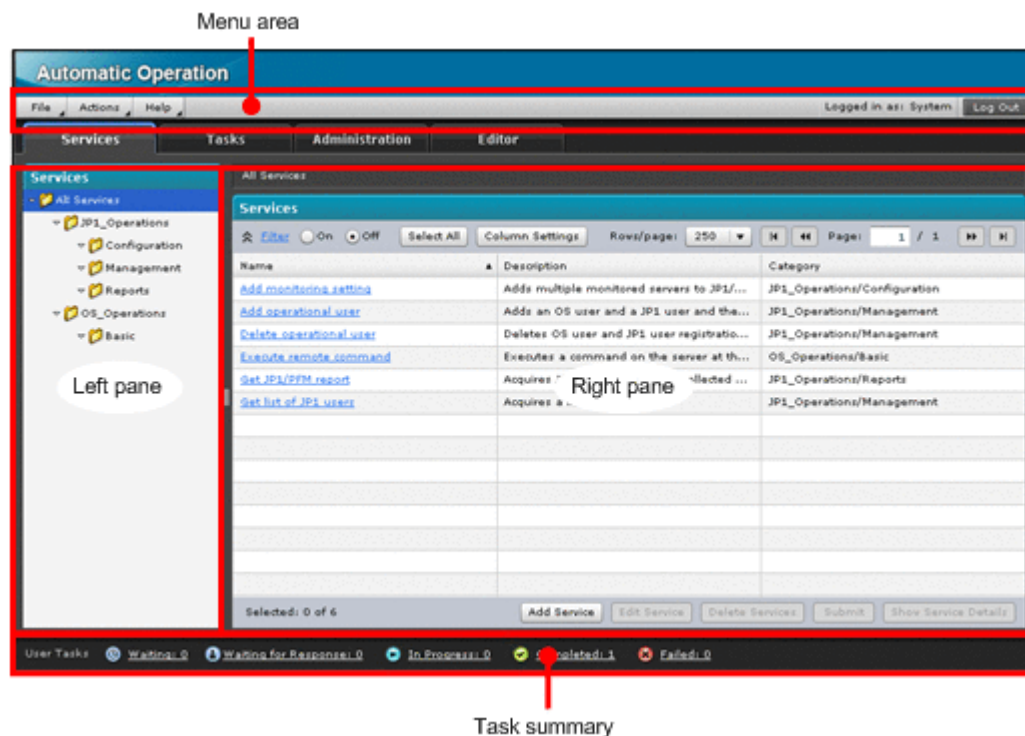
This chapter provides information on the main window used to operate JP1/AO.

□ [Main window](#)

## Main window

From the main window, you can perform various JP1/AO operations, including execution of services and confirmation of the progress of tasks.

As you log in to JP1/AO, the main window appears.



**Figure 3-1 Main window**

The following items are displayed in this window:

### Menu area

The main window menu and the ID of the current user logged in are displayed in this area.

### File menu

If you click this menu, the following submenu items appear:

- **Close**  
If you select this item, a confirmation dialog box appears. To close the main window, click the **OK** button.
- **Log Out**  
If you select this item, a confirmation dialog box appears. To log out from JP1/AO, click the **OK** button. The **Login** window appears.

### Actions menu

If you click this menu, the following submenu items appear:

- **Add Service**  
If you select this item, the **Add Service** dialog box appears.

### Tools menu

To start Hitachi Command Suite products with single sign-on, click this menu and select **Hitachi-Command-Suite-product-name**. This menu is displayed only when the Link & Launch function is enabled.

### Help menu

If you click this menu, the following submenu items appear:

- **Online Manual**  
If you select this item, the JP1/AO manuals appear.
- **About**  
If you select this item, the **About** dialog box appears.

### Logged in as

If you select this item, the ID of a logged-in user is displayed as follows:

- For JP1 users:  
The JP1 user name is displayed.
- For users other than JP1 users:  
The full name specified for the logged-in user is displayed. If the full name is not specified, the user ID specified upon login is displayed.

### Log Out button

If you select this item, a confirmation dialog box appears. To log out from JP1/AO, click the **OK** button. The **Login** window appears.

### Left pane

The items corresponding to the **Services**, **Tasks**, **Administration**, or **Editor** window are displayed, as follows:

- **Services** window  
A tree view of the categories to which services are registered is displayed.
- **Tasks** window  
The categories to which tasks are registered as well as a history node are displayed. The displayed categories correspond to the categories in the **Services** window.
- **Administration** window  
Menu items available in the **Administration** window are displayed, including **Users and Permissions** and **Connection Destinations**.
- **Editor** window  
A list of plug-ins that can be used to develop service templates is displayed.

### Right pane

A list is displayed for a menu item selected in the left pane, such as a list of services or a list of users. A filter area is provided at the top of the list,

so that you can filter the items in the list according to a specified condition.

#### Task summary

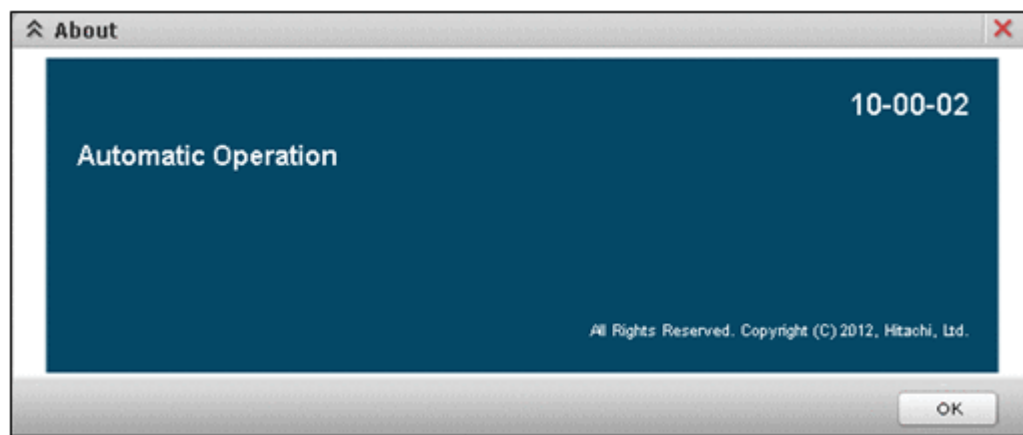
A summary of the status of and the number of tasks executed by a logged-in user is displayed.

- **Waiting**  
If you select this item, the **Waiting Task List** dialog box appears.
- **Waiting for Response**  
If you select this item, the **Waiting for Response Task List** dialog box appears.
- **In Progress**  
If you select this item, the **In Progress Task List** dialog box appears.
- **Completed**  
If you select this item, the **Completed Task List** dialog box appears.
- **Failed**  
If you select this item, the **Failed Task List** dialog box appears.

## About dialog box

Use the **About** dialog box to check the JP1/AO version.

To display the **About** dialog box, select the **Help** menu and then **About**.



**Figure 3-2 About dialog box (if the JP1/AO version is 10-00)**

## Filter area

Use the filter area to filter items in a list or to specify the columns to be displayed.

The filter area is provided at the top section of the right pane of the **Services**, **Tasks**, or **Administration** window, or a view or a dialog box that



is displayed from these windows. Note that the setting specified in the filter area is saved, which will be applied the next time you log in.



**Figure 3-3 Filter area**

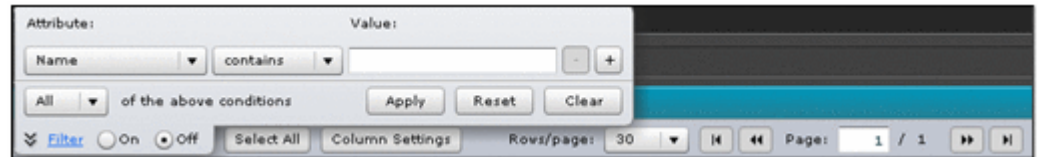
The following items are displayed in this area:

### **Filter**

Click this text to display the conditions setting area.

### **Conditions setting area**

Specify the conditions and click the **Apply** button. The items in the list are filtered according to the specified conditions.



**Figure 3-4 Conditions setting area**

### **Attribute** list box

Specify the column for which to set the filtering conditions.

### **Value** text box

Specify a value to set a filtering condition.

### **-** button

Click this button to delete the specified condition setting column.

### **+** button

Click this button to add a condition setting column. In this way you can specify multiple conditions.

### **All/Any** list box

If you have specified multiple conditions, select **All** or **Any** in this list box to specify whether to display items matching all conditions or items matching any condition.

### **Apply** button

Click this button to filter the items in the list according to the specified conditions.

### **Reset** button

Click this button to display the filtering conditions specified for the current list.

### **Clear** button

Click this button to delete the specified conditions.

### **On** radio button

Select this radio button to apply the specified conditions to the list.

Select this radio button to cancel the specified conditions.

Click this button to select all items displayed in the list.

Click this button to display the **Column Settings** dialog box.

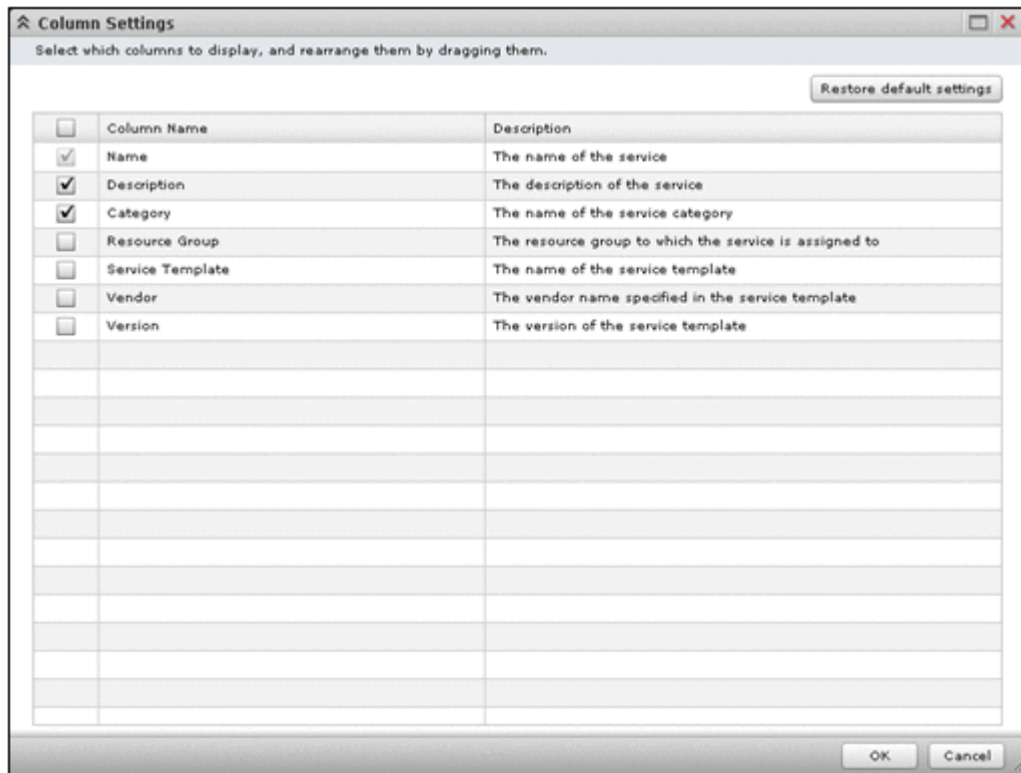
Select the number of rows to be displayed on each page of the list. The options available are **30, 50, 100, 250, and 500**.

Specify the number of pages to be displayed.

## Column Settings dialog box

Use the **Column Settings** dialog box to select the columns to be displayed in a list.

To display the **Column Settings** dialog box, click the **Column Settings** button in the filter area.



### Figure 3-5 Column Settings dialog box

The following items are displayed in this dialog box:

### Restore default settings button

Click this button to reset the column settings to the JP1/AO default. For details about the default column settings for each window, see the *Displayed by default* settings for each window, which are presented later in this manual.

#### Column Settings

You can select the items to be displayed in the list by selecting the show/hide check boxes. You can sort the list in ascending or descending order by clicking column titles. You can also re-arrange the order in which to display these items by dragging any given item to a desired position.

**Table 3-1 Items displayed in the column settings list (Column Settings dialog box)**

Display item	Description
Show/hide check box	To display a desired column in the list, select the corresponding show/hide check box.
Column Name	The name of each column is displayed here.
Description	A brief description of each column is provided here.

#### OK button

Click this button to apply the specified column settings.

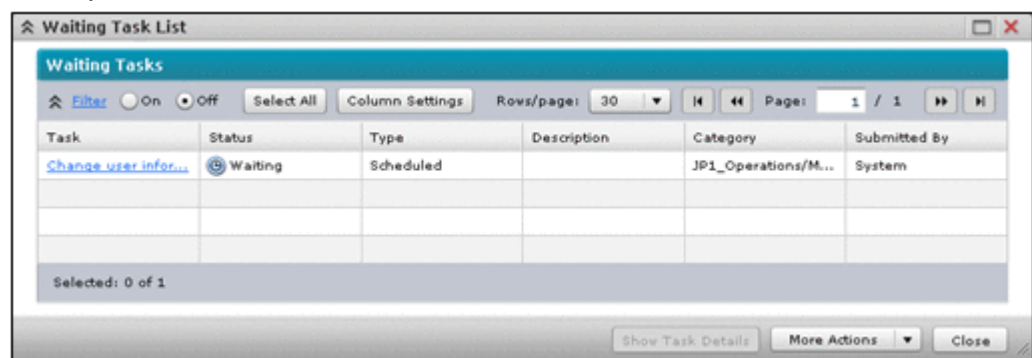
#### Cancel button

Click this button to close the **Column Settings** dialog box.

## Waiting Task List dialog box

Use the **Waiting Task List** dialog box to display and check a list showing the tasks executed by a user that are currently in a waiting state.

To display the **Waiting Task List** dialog box, select **Waiting** in the task summary.



**Figure 3-6 Waiting Task List dialog box**

The following items are displayed in this dialog box:

Waiting Tasks

Information on the tasks that are currently in a waiting state is displayed. You can sort the list in ascending or descending order by clicking column titles. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 3-2 Items displayed in "Waiting Tasks" (Waiting Task List dialog box)**

Display item	Displayed by default	Description
<b>Task</b>	Yes	Displays the name of each task. If you click <b>task</b> , the <b>Task Details</b> dialog box appears.
<b>Status</b>	Yes	Displays the current status of each task.
<b>Scheduled Time</b>	No	Displays the scheduled time for starting each task.
<b>Start Time</b>	No	Displays the date and time of starting each task.
<b>End Time</b>	No	Displays the date and time of ending each task.
<b>Type</b>	Yes	Displays the type of each task, such as an immediate task or a recurring task.
<b>ID</b>	No	Displays the ID of each task.
<b>Description</b>	Yes	Displays a brief description of each task.
<b>Service</b>	No	Displays the name of the service that generated the task.
<b>Resource Group</b>	No	Displays the resource group to which the task is registered.
<b>Category</b>	Yes	Displays the name of the category to which the service that generated the task belongs.
<b>Submitted By</b>	Yes	Displays the name of the individual who executed the service that generated the task.
<b>Submitted At</b>	No	Displays the date and time of service submission.
<b>Recurrence Pattern</b>	No	Displays the recurrence pattern.
<b>Recurrence Time</b>	No	Displays the recurrence time.
<b>Recurrence Start</b>	No	Displays the start date of recurrence.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Show Task Details** button

If you select a task and then click this button, the **Task Details** dialog box appears.

### More Actions menu

If you select a task and then click this menu, the items described below appear. You can select multiple tasks at a time.

- **Suspend Schedules**

If you click this item, the **Suspend Schedules** dialog box appears.

- **Resume Schedules**

If you click this item, the **Resume Schedules** dialog box appears.

- **Cancel Schedules**

If you click this item, the **Cancel Schedules** dialog box appears.

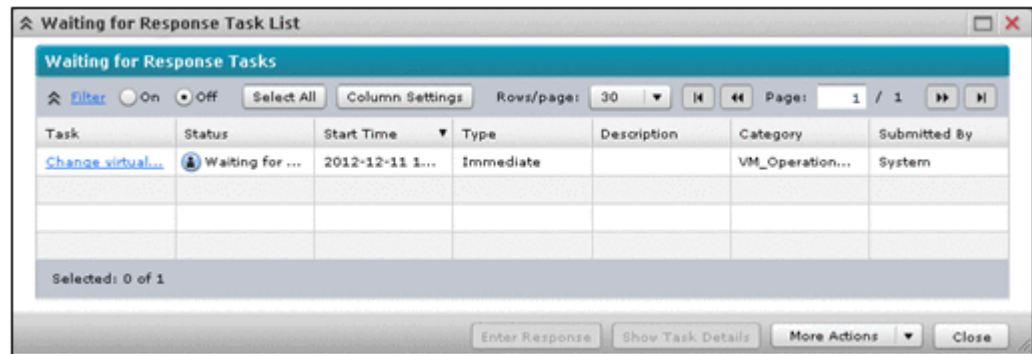
### Close button

To close the **Waiting Task List** dialog box, click this button.

## Waiting for Response Task List dialog box

Use the **Waiting for Response Task List** dialog box to display and check a list showing the tasks executed by a user that are currently waiting for a response.

To display the **Waiting for Response Task List** dialog box, select **Waiting for Response** in the task summary.



**Figure 3-7 Waiting for Response Task List dialog box**

The following items are displayed in this dialog box:

#### Waiting for Response Tasks

Information on the tasks that are currently waiting for a response is displayed. You can sort the list in ascending or descending order by clicking column titles. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 3-3 Items displayed in "Waiting for Response Tasks" (Waiting for Response Task List dialog box)**

Display item	Displayed by default	Description
<b>Task</b>	Yes	Displays the name of each task. If you click <b>task</b> , the <b>Task Details</b> dialog box appears.
<b>Status</b>	Yes	Displays the current status of each task.
<b>Scheduled Time</b>	No	Displays the scheduled time for starting each task.
<b>Start Time</b>	Yes	Displays the date and time of starting each task.
<b>End Time</b>	No	Displays the date and time of ending each task.
<b>Type</b>	Yes	Displays the type of each task, such as an immediate task or a recurring task.
<b>ID</b>	No	Displays the ID of each task.
<b>Description</b>	Yes	Displays a brief description of each task.
<b>Service</b>	No	Displays the name of the service that generated the task.
<b>Resource Group</b>	No	Displays the resource group to which the task is registered.
<b>Category</b>	Yes	Displays the name of the category to which the service that generated the task belongs.
<b>Submitted By</b>	Yes	Displays the name of the individual who executed the service that generated the task.
<b>Submitted At</b>	No	Displays the date and time of service submission.
<b>Recurrence Pattern</b>	No	Displays the recurrence pattern.
<b>Recurrence Time</b>	No	Displays the recurrence time.
<b>Recurrence Start</b>	No	Displays the start date of recurrence.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

**Enter Response** button

If you click this button, the **Respond** dialog box appears.

**Show Task Details** button

If you select a task and then click this button, the **Task Details** dialog box appears.

**More Actions** menu

If you select a task and then click this menu, the item described below appears. You can select multiple tasks at a time.

- **Stop Tasks**

If you click this item, the **Stop Tasks** dialog box appears.

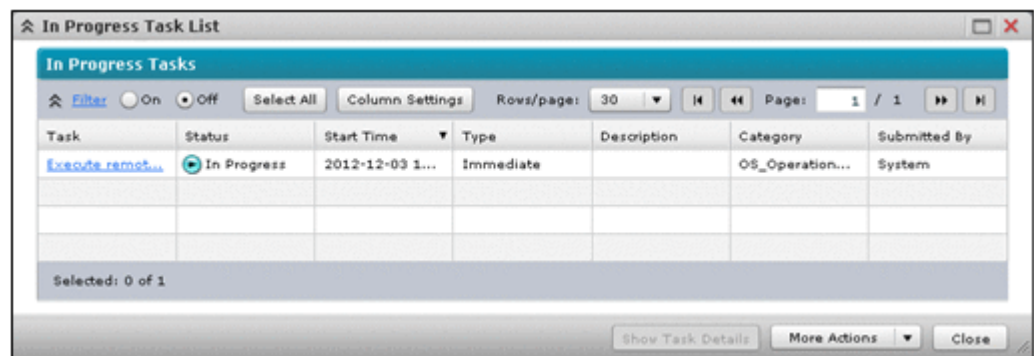
**Close** button

To close the **Waiting for Response Task List** dialog box, click this button.

## In Progress Task List dialog box

Use the **In Progress Task List** dialog box to display and check a list showing the tasks executed by a user that are currently in progress.

To display the **In Progress Task** List dialog box, select **In Progress** in the task summary.



**Figure 3-8 In Progress Task List dialog box**

The following items are displayed in this dialog box:

**In Progress Tasks**

Information on the tasks that are currently in progress is displayed. You can sort the list in ascending or descending order by clicking column titles. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 3-4 Items displayed in "In Progress Tasks" (In Progress Task List dialog box)**

Display item	Displayed by default	Description
<b>Task</b>	Yes	Displays the name of each task. If you click <b>task</b> , the <b>Task Details</b> dialog box appears.
<b>Status</b>	Yes	Displays the current status of each task.
<b>Scheduled Time</b>	No	Displays the scheduled time for starting each task.
<b>Start Time</b>	Yes	Displays the date and time of starting each task.

Display item	Displayed by default	Description
<b>End Time</b>	No	Displays the date and time of ending each task.
<b>Type</b>	Yes	Displays the type of each task, such as an immediate task or a recurring task.
<b>ID</b>	No	Displays the ID of each task.
<b>Description</b>	Yes	Displays a brief description of each task.
<b>Service</b>	No	Displays the name of the service that generated the task.
<b>Resource Group</b>	No	Displays the resource group to which the task is registered.
<b>Category</b>	Yes	Displays the name of the category to which the service that generated the task belongs.
<b>Submitted By</b>	Yes	Displays the name of the individual who executed the service that generated the task.
<b>Submitted At</b>	No	Displays the date and time of service submission.
<b>Recurrence Pattern</b>	No	Displays the recurrence pattern.
<b>Recurrence Time</b>	No	Displays the recurrence time.
<b>Recurrence Start</b>	No	Displays the start date of recurrence.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Show Task Details** button

If you select a task and then click this button, the **Task Details** dialog box appears.

#### **More Actions** menu

If you select a task and then click this menu, the item described below appears. You can select multiple tasks at a time.

- **Stop Tasks**

If you click this item, the **Stop Tasks** dialog box appears.

#### **Close** button

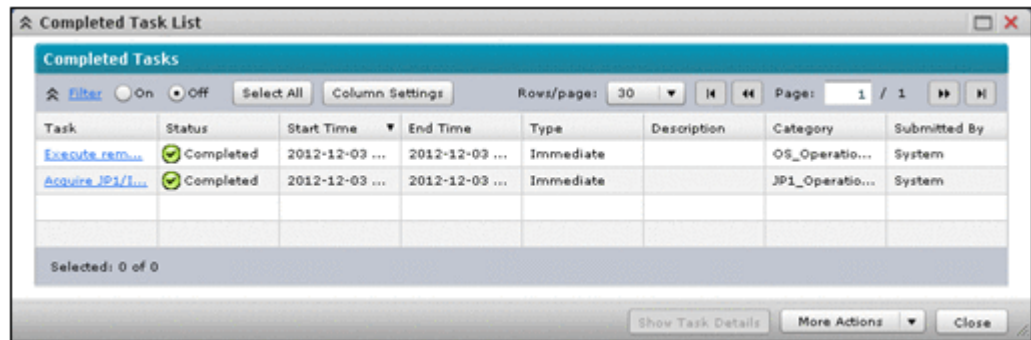
To close the **In Progress Task List** dialog box, click this button.

## **Completed Task List dialog box**

Use the **Completed Task List** dialog box to display and check a list of user-executed tasks that have finished normally.



To display the **Completed Task List** dialog box, select **Completed** in the task summary.



**Figure 3-9 Completed Task List dialog box**

The following items are displayed in this dialog box:

#### Completed Tasks

Information on the tasks that have been completed normally is displayed. You can sort the list in ascending or descending order by clicking column titles. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 3-5 Items displayed in "Completed Tasks" (Completed Task List dialog box)**

Display item	Displayed by default	Description
<b>Task</b>	Yes	Displays the name of each task. If you click <b>task</b> , the <b>Task Details</b> dialog box appears.
<b>Status</b>	Yes	Displays the current status of each task.
<b>Scheduled Time</b>	No	Displays the scheduled time for starting each task.
<b>Start Time</b>	Yes	Displays the date and time of starting each task.
<b>End Time</b>	Yes	Displays the date and time of ending each task.
<b>Type</b>	Yes	Displays the type of each task, such as an immediate task or a recurring task.
<b>ID</b>	No	Displays the ID of each task.
<b>Description</b>	Yes	Displays a brief description of each task.
<b>Service</b>	No	Displays the name of the service that generated the task.
<b>Resource Group</b>	No	Displays the resource group to which the task is registered.
<b>Category</b>	Yes	Displays the name of the category to which the service that generated the task belongs.
<b>Submitted By</b>	Yes	Displays the name of the individual who executed the service that generated the task.

Display item	Displayed by default	Description
<b>Submitted At</b>	No	Displays the date and time of service submission.
<b>Recurrence Pattern</b>	No	Displays the recurrence pattern.
<b>Recurrence Time</b>	No	Displays the recurrence time.
<b>Recurrence Start</b>	No	Displays the start date of recurrence.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Show Task Details** button

If you select a task and then click this button, the **Task Details** dialog box appears.

#### **More Actions** menu

If you select a task and then click this menu, the items described below appear. You can select multiple tasks at a time.

- **Resubmit**

If you click this item, the **Submit Service** dialog box appears.

- **Archive Tasks**

If you click this item, the **Archive Tasks** dialog box appears.

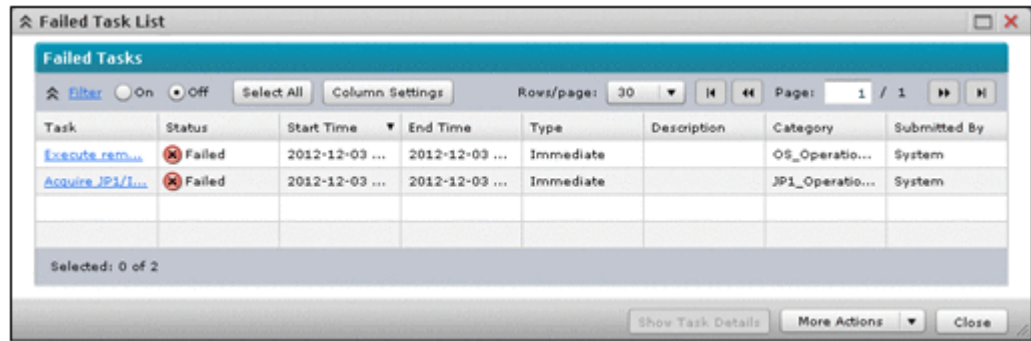
#### **Close** button

To close the **Completed Task List** dialog box, click this button.

## **Failed Task List dialog box**

Use the **Failed Task List** dialog box to display and check a list of user-executed tasks that have failed.

To display the **Failed Task List** dialog box, select **Failed** in the task summary.



**Figure 3-10 Failed Task List dialog box**

The following items are displayed in this dialog box:

#### Failed Tasks

Information on the tasks that have failed is displayed. You can sort the list in ascending or descending order by clicking column titles. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 3-6 Items displayed in "Failed Tasks" (Failed Task List dialog box)**

Display item	Displayed by default	Description
<b>Task</b>	Yes	Displays the name of each task. If you click <b>task</b> , the <b>Task Details</b> dialog box appears.
<b>Status</b>	Yes	Displays the current status of each task.
<b>Scheduled Time</b>	No	Displays the scheduled time for starting each task.
<b>Start Time</b>	Yes	Displays the date and time of starting each task.
<b>End Time</b>	Yes	Displays the date and time of ending each task.
<b>Type</b>	Yes	Displays the type of each task, such as an immediate task or a recurring task.
<b>ID</b>	No	Displays the ID of each task.
<b>Description</b>	Yes	Displays a brief description of each task.
<b>Service</b>	No	Displays the name of the service that generated the task.
<b>Resource Group</b>	No	Displays the resource group to which the task is registered.
<b>Category</b>	Yes	Displays the name of the category to which the service that generated the task belongs.
<b>Submitted By</b>	Yes	Displays the name of the individual who executed the service that generated the task.
<b>Submitted At</b>	No	Displays the date and time of service submission.

Display item	Displayed by default	Description
<b>Recurrence Pattern</b>	No	Displays the recurrence pattern.
<b>Recurrence Time</b>	No	Displays the recurrence time.
<b>Recurrence Start</b>	No	Displays the start date of recurrence.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Show Task Details** button

If you select a task and then click this button, the **Task Details** dialog box appears.

#### **More Actions** menu

If you select a task and then click this menu, the items described below appear. You can select multiple tasks at a time.

- **Resubmit**

If you click this item, the **Submit Service** dialog box appears.

- **Archive Tasks**

If you click this item, the **Archive Tasks** dialog box appears.

#### **Close** button

To close the **Failed Task List** dialog box, click this button.

## Services Window

This chapter provides information on the JP1/AO **Services** window.

- [Services window](#)

# Services window

Use the **Services** window to check or execute the services registered in JP1/AO.

To display the **Services** window, select the **Services** tab in the main window.

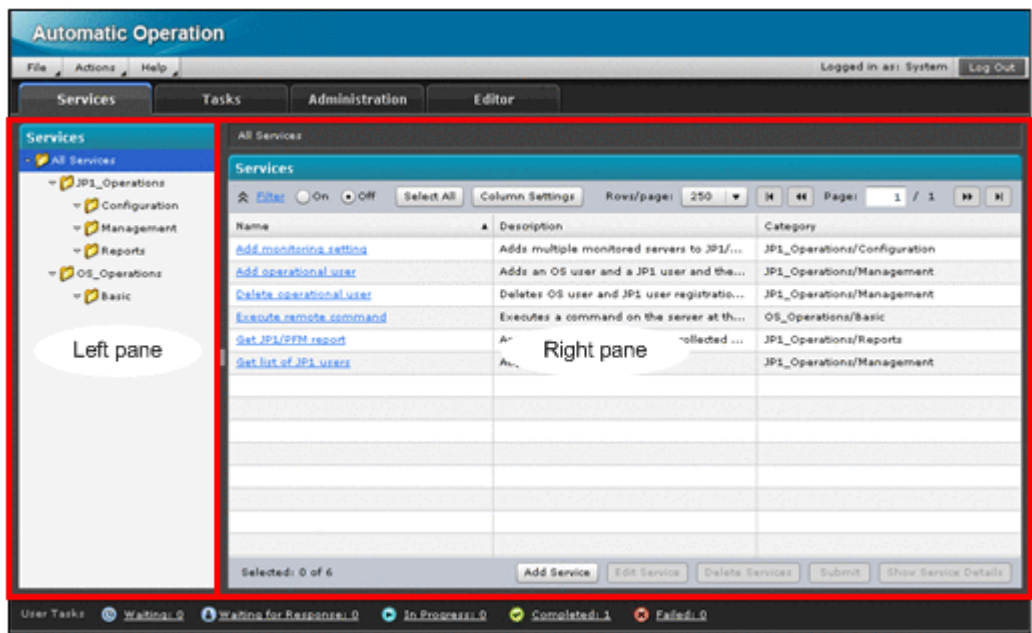


Figure 4-1 Services window

The following items are displayed in this window:

Left pane

**All Services** menu

A tree view of the categories to which services are registered is displayed.

Right pane

**Services**

The information on services belonging to the category selected in the left pane is displayed in list format. If you click the column title of a display item, the data will be sorted in ascending or descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

Table 4-1 Items displayed in Services (Services window)

Display item	Displayed by default	Description
Name	Yes	Displays the name of each service. If you click <i>Name</i> , the <b>Submit Service</b> dialog box appears.
Description	Yes	Displays a brief description of each service.

Display item	Displayed by default	Description
Category	Yes	Displays the category specified for each service.
Resource Group	No	Displays a resource group to which the service is registered.
Service Template	No	Displays the name of the service template on which the service is based.
Vendor	No	Displays the name of the vendor that created the service template.
Version	No	Displays the version of the service template on which the service is based.
Configuration Type	No	Displays the configuration type of the service template that is used for each service.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Add Service** button

If you click this button, the **Add Service** dialog box appears.

#### **Edit Service** button

If you select a service and then click this button, the **Service Definition** dialog box appears.

#### **Delete Services** button

If you select a service and then click this button, the **Delete Services** dialog box appears.

#### **Submit** button

Use this button to execute the selected service. If you click this button, the **Submit Service** dialog box appears.

#### **Show Service Details** button

If you click this button, a brief description of the selected service is displayed.

## **Submit Service dialog box**

Use the **Submit Service** dialog box to execute a service registered in JP1/AO.

To display the **Submit Service** dialog box, select a service in the **Services** window and then click the **Submit** button.

**Automatic Operation**

File Logged in as: System Close

---

**Submit Service**

**Services**

Name	Register JP1/AJS jobnet for execution
Description	Registers a JP1/AJS jobnet for execution.
Category	JP1_Operations/Management
Resource Group	All Resources
Configuration Type	Release

**Tasks**

Name: \* Register JP1/AJS jobnet for execution\_20131024173012

Description:

**Properties**

[Business system environment information](#)

Specify the environment information for the business server.

Name	Key	Value	Description
Host name of business se...	common.targetHost	<span style="color: red;">*</span> host1	Specifies the host name o...
JP1/AJS logical host name	jp1ajs.jp1ajsLHostName		Specify the logical host na...

[Business information](#)

Specify the information on the jobnet to be executed.

Name	Key	Value	Description
Macro variables for jobnet...	jp1ajs.ajsMacroParameter		Specify values for the mac...

**Schedule**

Schedule Type: Now

\* Required Show Plan Cancel Show Service Details

**Figure 4-2 Submit Service dialog box**

The following items are displayed in this dialog box:

#### Services

##### Name

The name of the service to be executed is displayed.

##### Description

A brief description of the service is displayed.

##### Category

The category to which the service to be executed belongs is displayed.

##### Resource Group

The resource group that the service to be executed is registered to is displayed

##### Configuration Type



The configuration type of the service template on which the service is based is displayed.

## Tasks

### **Name** text box

Enter a task name in this text box.

The text box allows a maximum of 128 characters. By default, *service-name\_YYYYMMDDhhmmss* is displayed.

### **Description** text box

Enter a brief description of the task. The text box allows a maximum of 256 characters.

## Properties

Property information is displayed for the selected service. If you click the column title of a display item, the data will be sorted in ascending or descending order. The properties vary depending on the service template used.

### *property-group*

Each property is displayed per group. This item will not be displayed when no property groups are set in the service template.

**Table 4-2 Items displayed in the list of properties (Submit Service dialog box)**

Display item	Description
Name	Displays the name of each property.
Key	Displays the name of each property key.
Value	Provides fields in which to enter a property value necessary to execute each service.
Description	Displays a brief description of each property.

## Schedule

Select the timing to execute the services.

### **Schedule Type** list box

Select the type of Schedule.

- Now  
Select this item to execute the services immediately.
- Later  
If you select this item, the **Schedule Starts On** text box and the **Schedule Time** spin box appear.  
If you want to execute the services at the specified date and time, select this item.

The 'Schedule' dialog box has a blue header. Below it, 'Schedule Type' is set to 'Later' in a dropdown menu. 'Schedule Starts On' is followed by a red asterisk, a text box, and a calendar icon. 'Schedule Time' is followed by a red asterisk, two spin boxes both set to '0', and a colon separator.

**Figure 4-3 Submit Service dialog box (when Later is selected)**

**Schedule Starts On** text box

Click the **Calendar** button. From the displayed calendar, select the date to specify the execution start date for the service.

**Schedule Time** spin box

Specify the execution start time (hour and minute) in 24-hour format.

- **Recurring**

If you select this item, the **Schedule Starts On** text box, the **Recurrence Pattern** list box, and the **Recurrence Time** spin box appear.

If you want to execute the services periodically at the specified date and time, select this item.

The 'Schedule' dialog box has a blue header. Below it, 'Schedule Type' is set to 'Recurring' in a dropdown menu. 'Schedule Starts On' is followed by a red asterisk, a text box, and a calendar icon. Below a horizontal line, 'Recurrence Pattern' is set to 'Daily' in a dropdown menu. 'Recurrence Time' is followed by a red asterisk, two spin boxes both set to '0', and a colon separator.

**Figure 4-4 Submit Service dialog box (when Recurring is selected)**

**Schedule Starts On** text box

Click the **Calendar** button. From the displayed calendar, select the date to specify the execution start date for the service.

**Recurrence Pattern** list box

Specify the recurrence pattern of the service. The options available are **Daily**, **Weekly**, and **Monthly**.

- **Daily**

Starting from the specified execution start date, the service is executed daily at the specified time.

- **Weekly**

If you select this option, the **Recurs On** check boxes appear. Select the day of the week on which to execute the service.

**Recurs On** check boxes

Specify the day of the week on which to periodically execute the service. You can select multiple days.

- **Monthly**

If you select this option, the **Recurrence Date** text box and the **Last day of the month** check box appear.

**Recurrence Date** text box

Enter the date on which to periodically execute the service. An integer value in the range from 1 to 31 can be entered. You can specify multiple dates. To specify multiple dates, delimit the dates with a comma (,). For example, if you want to execute the service on the 1st and 15th day of the month, enter 1,15.

If you specify 31, the service will not be executed in the months that have only 30 days. If you want to execute the service at every end of the month, select the **Last day of the month** check box.

**Last day of the month** check box

If you select this check box, the service is executed at every end of the month.

**Recurrence Time** spin box

Specify the start time (hour and minute) at which to periodically execute the service.

**Show Plan** button

If you click this button, the **Plan Summary** dialog box appears. Check the detailed plan for executing the service. To execute the service, click the **Submit** button in the **Plan Summary** dialog box.

**Cancel** button

If you click this button, the **Submit Service** dialog box closes.

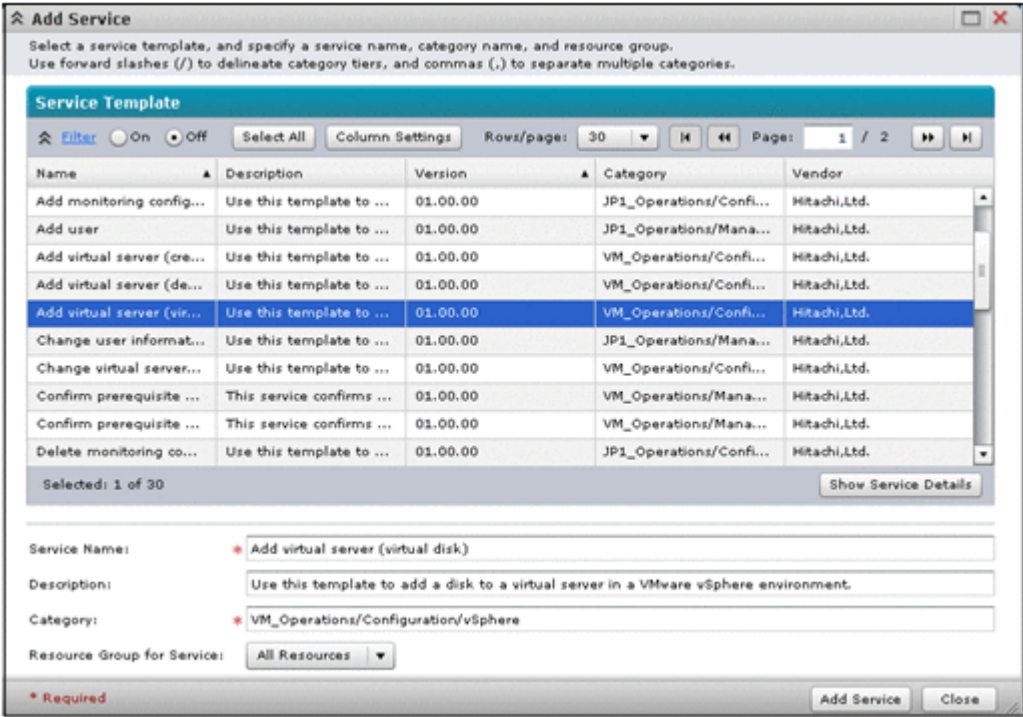
**Show Service Details** button

If you click this button, a brief description of the service appears.

## Add Service dialog box

Use the **Add Service** dialog box to select a service to be added from the service templates imported to JP1/AO and then assign that service to a resource group.

To display the **Add Service** dialog box, click the **Add Service** button in the **Services** window.



**Figure 4-5 Add Service dialog box**

The following items are displayed in this dialog box:

**Service Template**

A list of service templates imported to JP1/AO is displayed. If you click the column title of a display item, the data will be sorted in ascending or descending order. Select a service template to be used to create a service to be added. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 4-3 Items displayed in the list of service templates (Add Service dialog box)**

Display item	Displayed by default	Description
Name	Yes	Displays the name of each service template.
Description	Yes	Displays a brief description of each service template.
Version	Yes	Displays the version of each service template.
Category	Yes	Displays the category of each service template.
Vendor	Yes	Displays the name of the vendor that created the service template.

Display item	Displayed by default	Description
Configuration Type	No	Displays the configuration type of each service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Show Service Details** button

If you click this button, a detailed description of the service appears.

#### **Service Name** text box

The name of the service template you have selected in the list of service templates is automatically entered here. You can rename the service. The text box allows a maximum of 64 characters.

#### **Description** text box

A brief description of the service template you have selected in the list of service templates is automatically entered here. You can change this description. The text box allows a maximum of 256 characters.

#### **Category** text box

The name of the category of the service template you have selected in the list of service templates is automatically entered here. You can rename the category. The text box allows a maximum of 256 characters. To delineate category tiers, use forward slashes (/) to separate categories. You can have a maximum of 10 category tiers. To specify multiple categories for a service, use commas (,) to separate categories. Make sure that you enter values for all tiers of a category name.

#### **Resource Group for Service** list box

Select a resource group. The list box shows a list of resource groups for which the user is granted permissions to assume a Modify or higher role.

- All Resources  
This item refers to a resource group to which all resources are registered. By default, **All Resources** is displayed in the list box.
- *resource-groups-other-than-All-Resources*  
These items refer to the resource groups for which the user is granted permissions to assume a Modify role.

#### **Add Service** button

To add a service, click this button. The **Service Definition** dialog box appears. You can add a maximum of 1,000 services.

#### **Close** button

If you click this button, the **Add Service** dialog box closes.

# Service Definition dialog box

Use the **Service Definition** dialog box to set property information for a service.

To display the **Service Definition** dialog box, click the **Add Service** button in the **Add Service** dialog box, or select a service in the **Services** window and then click the **Edit Service** button.

Automatic Operation

File

Logged in as: System

Close

Service Definition

Specify a service name, category name, and property value.  
Use forward slashes (/) to delineate category tiers, and commas (,) to separate multiple categories.

Services

Name

Register JP1/AJS jobnet for execution

Description

Registers a JP1/AJS jobnet for execution.

Category

JP1\_Operations/Management

Resource Group

All Resources

Configuration Type

Release

Properties

Preset Properties

presetA

Apply

Business system environment information

Specify the environment information for the business server.

Key	Name	Value	Description	Scope
common.targetHost	Host name of busin...		Specifies the host n...	local
jp1ajs.jp1ajsLHostN...	JP1/AJS logical host...		Specify the logical h...	local

Business information

Specify the information on the jobnet to be executed.

Name	Key	Value	Description	Scope
Name of the JP1/AJ...	jp1ajs.ajsServiceName	AJSROOT1	Specify the service ...	local
Macro variables for j...	jp1ajs.ajsMacroPara...		Specify values for t...	local
Jobnet name	jp1ajs.ajsJobnetName	test	Specify the name a...	local
JP1 user for jobnet ...	jp1ajs.executeJP1U...		Specify the JP1 user...	local

\* Required

OK

Cancel

Show Service Details

Figure 4-6 Service Definition dialog box

The following items are displayed in this dialog box:

## Services

In this section of the dialog box, you can change the information specified at the time the service was added, including the service name and the category name.

## Name text box

The service name specified at the time the service was added is displayed here. You can rename the service. The text box allows a maximum of 64 characters.

**Description** text box

The service description specified at the time the service was added is displayed here. You can change this description. The text box allows a maximum of 256 characters.

**Category** text box

The category name specified at the time the service was added is displayed here. You can rename the category. The text box allows a maximum of 256 characters. To delineate category tiers, use forward slashes (/) to separate categories. You can have a maximum of 10 category tiers. To specify multiple categories for a service, use commas (,) to separate categories. Make sure that you enter values for all tiers of a category name.

Resource Group

The resource group specified at the time the service was added is displayed here.

Configuration Type

The configuration type of the service template on which the service is based is displayed here.

Properties

Lists showing the property information of the service are displayed here. If you click the column title of a display item, the data will be sorted in ascending or descending order. Enter property values as necessary. The properties vary depending on the service template used.

**Preset Properties** list box

This list box allows you to select the preset property you want to set for the service template. If no preset properties are set for the service template, the list box will not be displayed.

**Apply** button

Click this button to apply the selected preset property to the list of properties. If no preset properties are set for the service template, the button will not be displayed.

*property-group*

If you click this item, a list of properties included in the property group appears. This item will not be displayed when no property groups are set in the service template.

**Table 4-4 Items displayed in the list of properties (Service Definition dialog box)**

Display item	Description
Name	Displays the name of each property.
Key	Displays the name of each property key.
Value	Provides fields in which to enter a property value.
Description	Displays a brief description of each property.
Scope	Displays the scope of each property.

#### **OK** button

If you click this button, changes made to the service are applied.

#### **Cancel** button

If you click this button after entering all the mandatory items, the **Service Definition** dialog box closes. If you have not entered some of the mandatory items, a confirmation dialog box appears. To close the **Service Definition** dialog box, click the **OK** button.

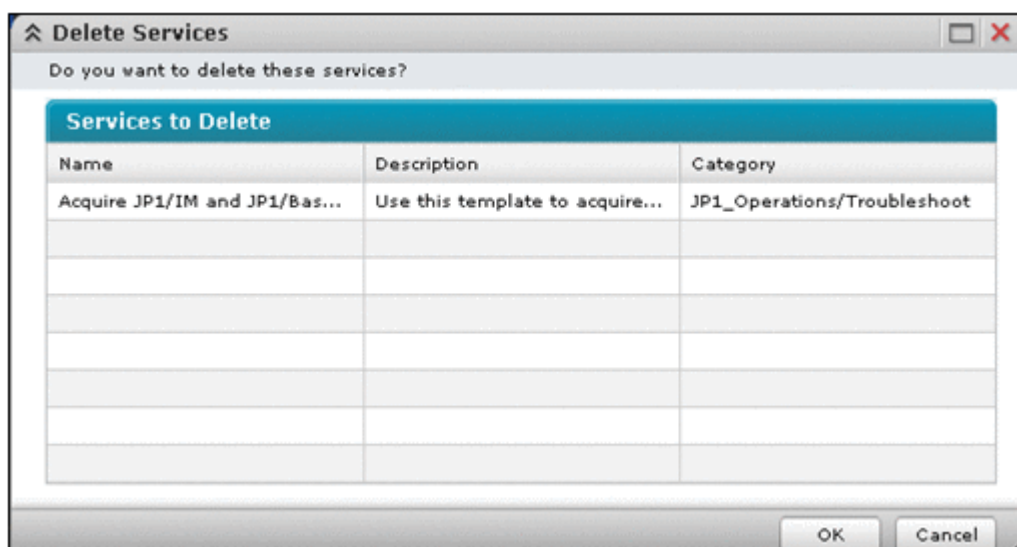
#### **Show Service Details** button

If you click this button, a brief description of the service appears.

## Delete Services dialog box

Use the **Delete Services** dialog box to delete unnecessary services.

To display the **Delete Services** dialog box, click a service in the **Services** window and then click the **Delete Services** button.



**Figure 4-7 Delete Services dialog box**

The following items are displayed in this dialog box:



## Services to Delete

A list of services to be deleted is displayed here. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 4-5 Items displayed in Services to Delete (Delete Services dialog box)**

Display item	Description
Name	Displays the name of each service.
Description	Displays a brief description of each service.
Category	Displays the name of each category.

### **OK** button

If you click this button, the services displayed in the list are deleted.

### **Cancel** button

If you click this button, the **Delete Services** dialog box closes.



## Tasks window

This chapter provides information on the JP1/AO **Tasks** window.

- ☐ [Tasks window](#)
- ☐ [Tasks view](#)
- ☐ [Task Histories view](#)

## Tasks window

Use the **Tasks** window to check the progress or histories of tasks processed by JP1/AO.

To display the **Tasks** window, select the **Tasks** tab in the main window.

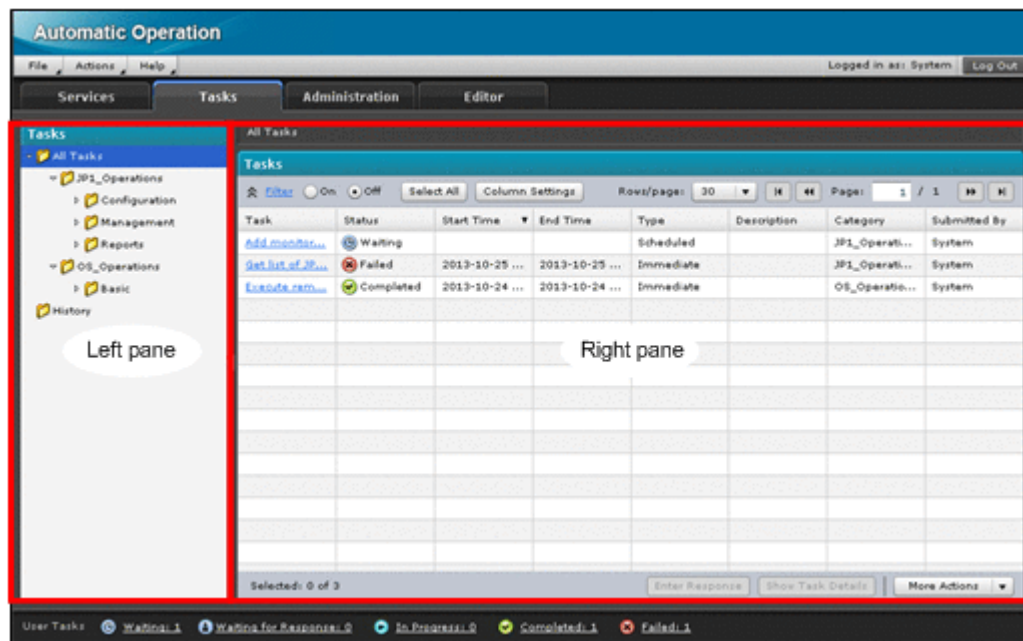


Figure 5-1 Tasks window

The following items are displayed in this window:

Left pane

### All Tasks menu

The information on tasks belonging to the selected category is displayed in list format. If you select this menu, the **Tasks** view is displayed in the right pane.

### History menu

If you select this menu, the **Task Histories** view is displayed in the right pane.

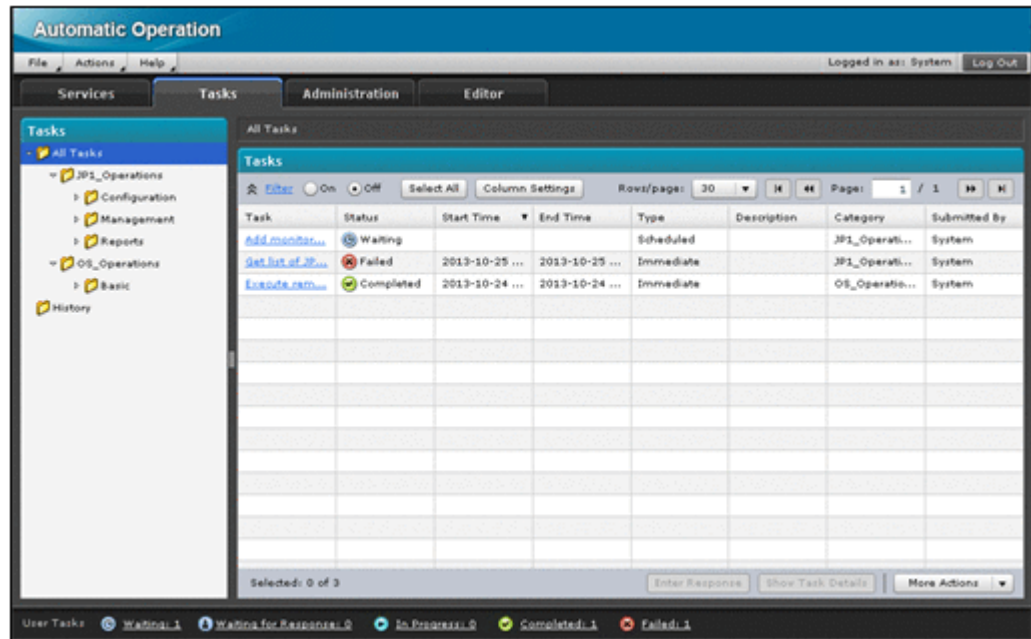
Right pane

The **Tasks** view or the **Task Histories** view is displayed here.

## Tasks view

Use the **Tasks** view to check the information on tasks processed by JP1/AO or to terminate the tasks.

To display the **Tasks** view, select the category of tasks in the left pane of the **Tasks** window.



**Figure 5-2 Tasks view**

The following items are displayed in this view:

#### Tasks

The information on tasks belonging to the category selected in the left pane is displayed in list format. The list can be sorted in ascending or descending order by clicking the title of an item (column). The items to be displayed can be selected by using the **Column Settings** dialog box. By default, a maximum of 5,000 tasks can be managed.

**Table 5-1 Items displayed in the Tasks list (Tasks view)**

Display item	Displayed by default	Description
Task	Yes	Displays the name of each task. If you click <i>task</i> , the <b>Task Details</b> dialog box appears.
Status	Yes	Displays the current status of each task.
Scheduled Time	No	Displays the scheduled time for starting each task.
Start Time	Yes	Displays the date and time of starting each task.
End Time	Yes	Displays the date and time of ending each task. For tasks that have been canceled due to a schedule cancellation or restoration operation, the date and time of this operation is displayed here.
Type	Yes	Displays the type of each task, such as an immediate task or a recurring task.
ID	No	Displays the ID of each task.

Display item	Displayed by default	Description
Description	Yes	Displays a brief description of each task.
Service	No	Displays the name of the service that generated the task.
Resource Group	No	Displays the resource group to which the task is registered.
Category	Yes	Displays the name of the category to which the service that generated the task belongs.
Submitted By	Yes	Displays the name of the individual who executed the service that generated the task.
Submitted At	No	Displays the date and time of service submission.
Recurrence Pattern	No	Displays the recurrence pattern.
Recurrence Time	No	Displays the recurrence time.
Recurrence Start	No	Displays the start date of recurrence.
Configuration Type	No	Displays the service template configuration type.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Enter Response** button

If you select a task waiting for a response and then click this button, the **Respond** dialog box appears.

#### **Show Task Details** button

If you select a task from **Tasks** and then click this button, the **Task Details** dialog box for the selected task appears.

#### **More Actions** menu

If you select a task from **Tasks** and then click this menu, the items described below appear. You can select multiple tasks at a time.

- Suspend Schedules  
If you select a scheduled task or a recurring task that is in a waiting state and then click this item, the **Suspend Schedules** dialog box appears. Clicking the **OK** button in the **Suspend Schedules** dialog box causes the selected task to be put on hold.
- Resume Schedules  
If you select a task on hold and then click this item, the **Resume Schedules** dialog box appears. Clicking the **OK** button in the **Resume Schedules** dialog box causes the selected task to enter a waiting state if it is not past the scheduled time for starting the task,

or to enter a canceled state if it is past the scheduled time for starting the task.

- **Cancel Schedules**

If you select a scheduled task or a recurring task in a waiting state or a task on hold and then click this item, the **Cancel Schedules** dialog box appears. Clicking the **OK** button in the **Cancel Schedules** dialog box causes the selected task to be canceled.

- **Stop Tasks**

If you select a task in progress, a task waiting for a response, or a task for which abnormality has been detected and then click this item, the **Stop Tasks** dialog box appears. Clicking the **OK** button in the **Stop Tasks** dialog box causes the selected task to enter a terminated state and then a failed state.

- **Resubmit**

If you select a task in a terminated, failed, or canceled state and then click this item, the **Submit Service** dialog box appears. You can only select one task at a time. Check the setting in the **Submit Service** dialog box and then click the **Show Plan** button. The **Plan Summary** dialog box appears. To create a new task according to the specified setting, click the **Submit** button in the **Plan Summary** dialog box.

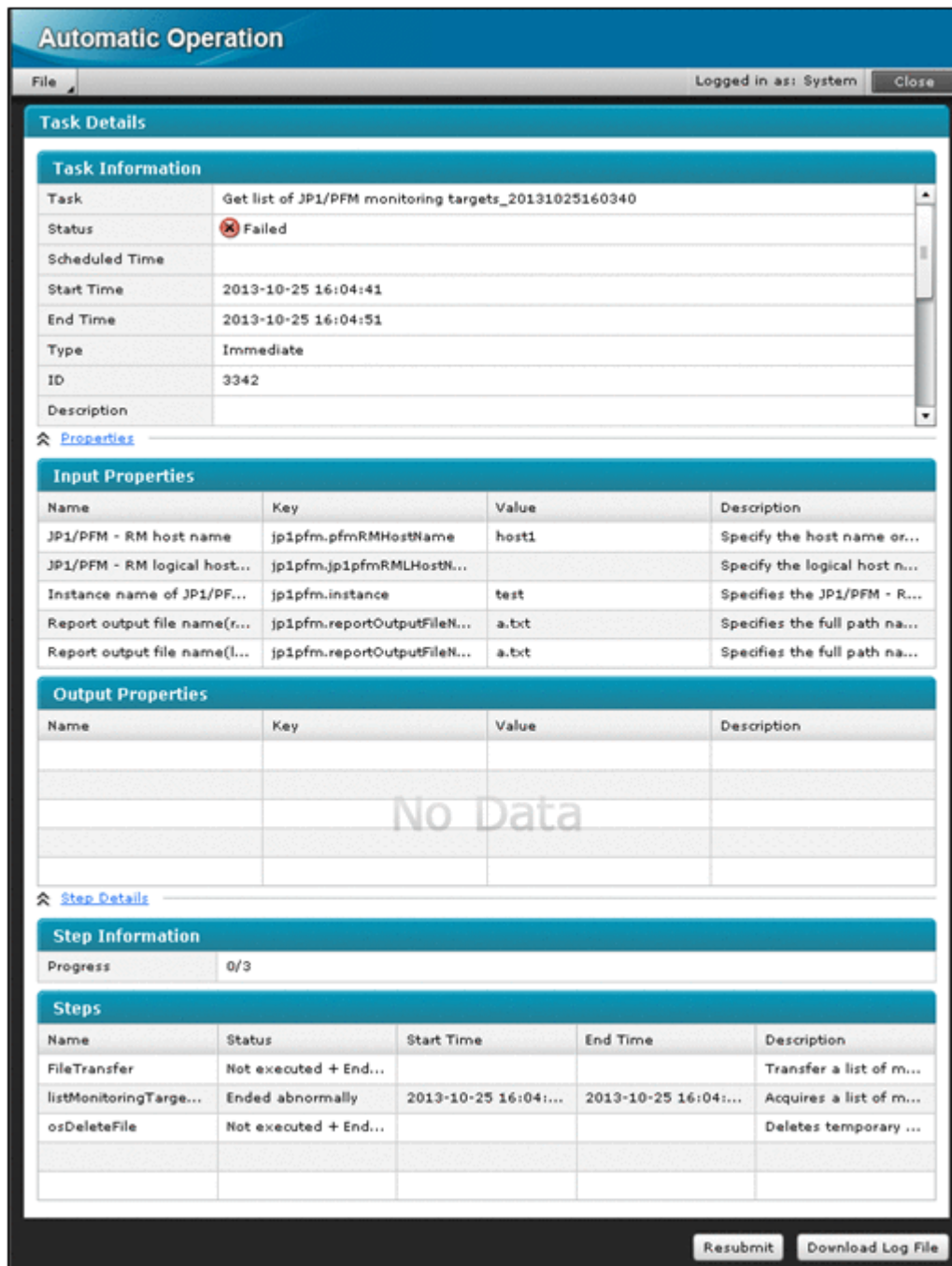
- **Archive Tasks**

If you select a task in a terminated, failed, or canceled state and then click this item, the **Archive Tasks** dialog box appears. Clicking the **OK** button in the **Archive Tasks** dialog box causes the selected task to be deleted from **Tasks**, which is then added to the list of histories as a task history.

## Task Details dialog box

Use the **Task Details** dialog box to check the input/output properties of tasks or the progress of jobs.

To display the **Task Details** dialog box, click a task name in the **Tasks** view. Alternatively, select a task in the **Tasks** view, and then click the **Show Task Details** button.



**Figure 5-3 Task Details dialog box**

The following items are displayed in this dialog box:

**Task Information**

Task information is displayed.

**Task**

The name of the task is displayed.

**Status**



The current status of the task is displayed.

Scheduled Time

The scheduled time for starting the task is displayed.

Start Time

The date and time of starting the task is displayed.

End Time

The date and time of ending the task is displayed. For tasks that have been canceled due to a schedule cancellation or restoration operation, the date and time of this operation is displayed here.

Type

The type of the task is displayed, such as an immediate task or a recurring task.

ID

The ID of the task is displayed.

Description

A brief description of the task is displayed.

Service

The name of the service that generated the task is displayed.

Resource Group

The resource group to which the task is registered is displayed.

Category

The name of the category to which the service that generated the task belongs is displayed.

Submitted By

The name of the individual who executed the service that generated the task is displayed.

Submitted At

The date and time of service submission is displayed.

Recurrence Pattern

The recurrence pattern is displayed.

Recurrence Time

The recurrence time is displayed.

Recurrence Start

The start date of recurrence is displayed.

Configuration Type

The service template configuration type is displayed.

## Properties

If you click this text, the input/output properties of the task are displayed.

### Input Properties

A list of input properties is displayed for the task. The list can be sorted in ascending or descending order by clicking the title of an item (column).

**Table 5-2 Items displayed in the Input Properties list (Task Details dialog box)**

Display item	Description
Name	Displays the name of each property.
Key	Displays the name of each property key.
Value	Displays the property value.
Description	Displays a brief description of each property.

### Output Properties

A list of output properties is displayed for the task. The list can be sorted in ascending or descending order by clicking the title of an item (column).

**Table 5-3 Items displayed in the Output Properties list (Task Details dialog box)**

Display item	Description
Name	Displays the name of each property.
Key	Displays the name of each property key.
Value	Displays the property value.
Description	Displays a brief description of each property.

### Step Details

If you click this text, the **Step Information** and **Steps** lists are displayed.

#### Step Information

Displays information about the highest-level flow.

#### Progress

Displays the progress of the highest-level flow.

#### Steps

Displays the list of jobs defined in the highest-level flow. The list can be sorted in ascending or descending order by clicking the title of an item (column).

**Table 5-4 Items displayed in the Steps list (Task Details dialog box)**

Display item	Description
Name	Displays the name of each step defined in the highest-level flow.

Display item	Description
Status	Displays the status of each step. This information is used to estimate the progress of the step.
Start Time	Displays the date and time of starting the step in <i>YYYY-MM-DD hh:mm:ss</i> format.
End Time	Displays the date and time of ending the step in <i>YYYY-MM-DD hh:mm:ss</i> format.
Description	Displays a brief description of the step.

#### **Enter Response** button

This button is displayed only when the task is currently waiting for a response. If you click this button, the **Respond** dialog box appears.

#### **Resubmit** button

This button is displayed when the task is in a terminated, failed, or canceled state. If you click this button, the **Submit Service** dialog box appears, with the original properties entered for the task.

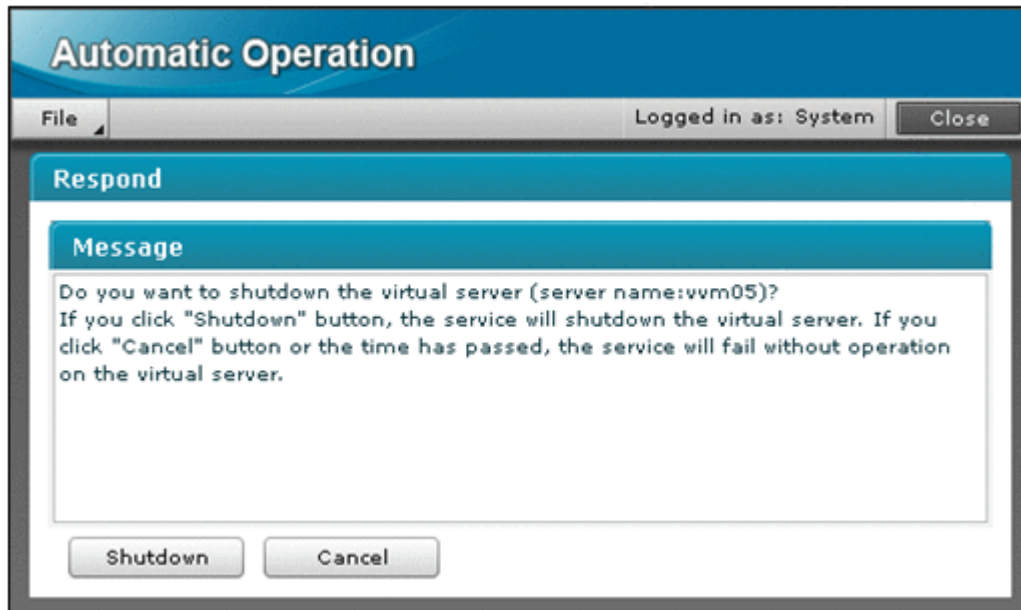
#### **Download Log File** button

This button is displayed when the task is in a state other than the waiting, on-hold, or canceled state. If you click this button, a download dialog box appears, which allows you to download a task log to a specified location, such as an operation terminal. The file name of a task log is displayed as `task_task-ID_1.log` by default. You can rename the file and save it.

## **Respond dialog box**

Use the **Respond** dialog box to enter a user response for an in-progress task.

To display the **Respond** dialog box, select a task that is currently waiting for a response in the **Tasks** view and then click the **Enter Response** button.



**Figure 5-4 Respond dialog box (for shutting down a virtual server)**

The following items are displayed in this dialog box:

**Message area**

A message containing information necessary for a user to enter a response is displayed here.

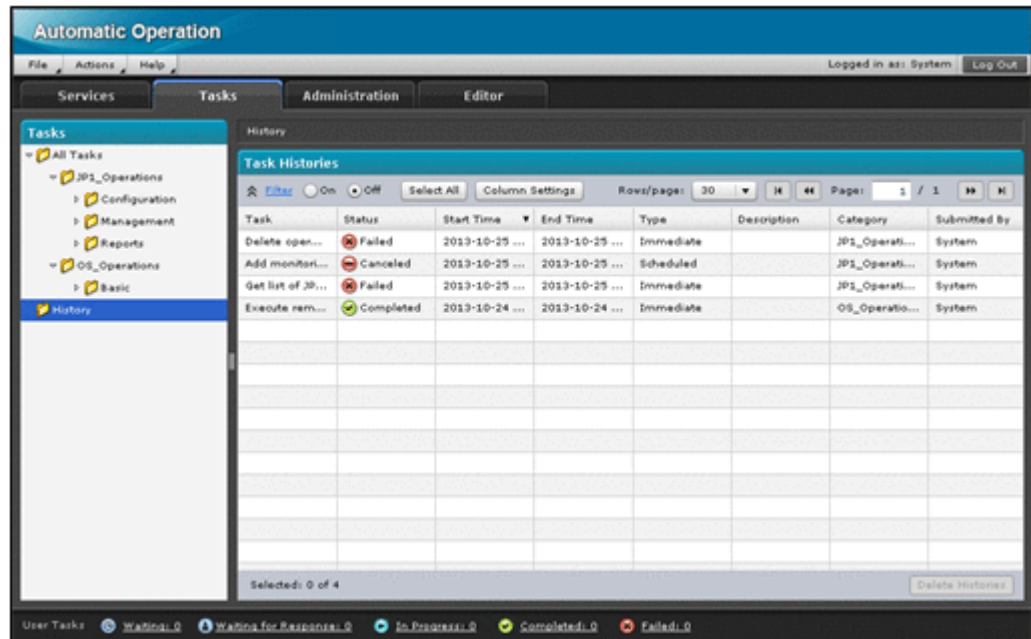
**Response button area**

Response buttons appropriate to the response content are displayed here. If you click a response button, a confirmation message appears. If you click the **OK** button, the processing is resumed or stopped according to the input response.

## Task Histories view

Use the **Task Histories** view to check the histories representing the tasks for which processing has been terminated (by normal completion, failure, or cancellation).

To display the **Task Histories** view, select the **History** menu in the left pane of the **Tasks** window.



**Figure 5-5 Task Histories view**

The following items are displayed in this view:

#### Task Histories

A list of task history entries is displayed here. The list can be sorted in ascending or descending order by clicking the title of an item (column). The items to be displayed in the list can be selected by using the **Column Settings** dialog box. By default, a maximum of 30,000 entries can be managed.

**Table 5-5 Items displayed in the task history list (Task Histories view)**

Display item	Displayed by default	Description
Task	Yes	Displays the name of each task.
Status	Yes	Displays the current status of each task.
Scheduled Time	No	Displays the scheduled time for starting each task.
Start Time	Yes	Displays the date and time of starting each task.
End Time	Yes	Displays the date and time of ending each task. For tasks that have been canceled due to a schedule cancellation or restoration operation, the date and time of this operation is displayed here.
Type	Yes	Displays the type of each task, such as an immediate task or a recurring task.
ID	No	Displays the ID of each task.
Description	Yes	Displays a brief description of each task.

Display item	Displayed by default	Description
Service	No	Displays the name of the service that generated the task.
Resource Group	No	Displays the resource group in which the task is registered.
Category	Yes	Displays the name of the category to which the service that generated the task belongs.
Submitted By	Yes	Displays the date and time of service submission.
Submitted At	No	Displays the date and time of service submission.
Recurrence Pattern	No	Displays the recurrence pattern.
Recurrence Time	No	Displays the recurrence time.
Recurrence Start	No	Displays the start date of recurrence.
Configuration Type	No	Displays the service template configuration type.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Delete Histories** button

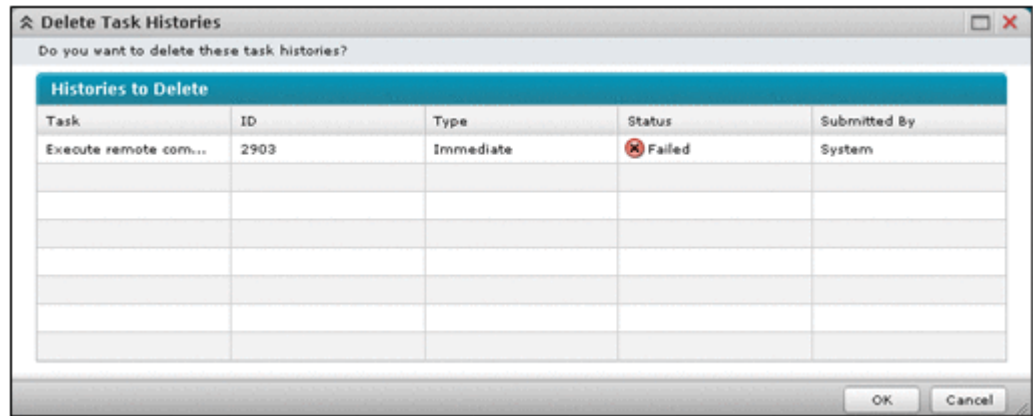
If you select a history entry and then click this button, the **Delete Task Histories** dialog box appears. You can also select multiple entries.

Clicking the **OK** button in the **Delete Task Histories** dialog box causes the selected history entries to be deleted.

## **Delete Task Histories dialog box**

Use the **Delete Task Histories** dialog box to delete unnecessary history entries.

To display the **Delete Task Histories** dialog box, select one or more history entries in the **Task Histories** view and then click the **Delete Histories** button.



**Figure 5-6 Delete Task Histories dialog box**

The following items are displayed in this dialog box:

#### Histories to Delete

A list of history entries to be deleted is displayed here. The list can be sorted in ascending or descending order by clicking the title of an item (column).

**Table 5-6 Items displayed in the Histories to Delete list (Delete Task Histories dialog box)**

Display item	Description
Task	Displays the name of each task.
ID	Displays the ID of each task.
Type	Displays the type of each task, such as an immediate task or a recurring task.
Status	Displays the status of each task.
Submitted By	Displays the name of the individual who executed the service that generated the task.

#### **OK** button

If you click this button, the history entries displayed in the list are deleted.

#### **Cancel** button

If you click this button, the **Delete Task Histories** dialog box closes.





# Administration Window

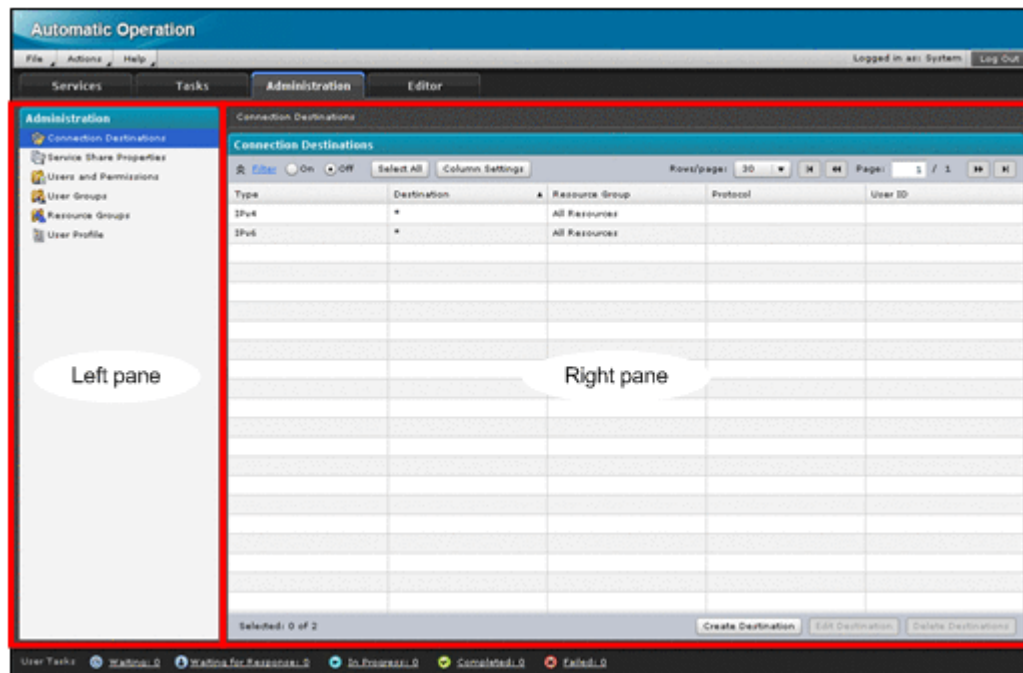
This chapter provides information on the JP1/AO **Administration** window.

- ☐ [\*\*Administration\*\* window](#)
- ☐ [\*\*Connection Destinations\*\* view](#)
- ☐ [\*\*Service Share Properties\*\* view](#)
- ☐ [\*\*Users and Permissions\*\* window](#)
- ☐ [\*\*User Profile\*\* view](#)
- ☐ [\*\*Permissions\*\* view](#)
- ☐ [\*\*User Groups\*\* view \(\*\*User Groups\*\* tab\)](#)
- ☐ [\*\*User Groups\*\* view \(\*\*Users\*\* tab\)](#)
- ☐ [\*\*Resource Groups\*\* view](#)
- ☐ [\*\*User Profile\*\* window](#)

## Administration window

Use the **Administration** window to specify the JP1/AO user management and resource group management settings.

To display the **Administration** window, select the **Administration** tab in the main window.



**Figure 6-1 Administration window**

The following items are displayed in this window:

Left pane

### **Connection Destinations** menu

If you select this menu, the **Connection Destinations** view is displayed in the right pane.

### **Service Share Properties** menu

If you select this menu, the **Service Share Properties** view is displayed in the right pane.

### **Users and Permissions** menu

If you select this menu, the **Users and Permissions** window appears.

### **User Groups** menu

If you select this menu, the **User Groups** view is displayed in the right pane.

### **Resource Groups** menu

If you select this menu, the **Resource Groups** view is displayed in the right pane.

## User Profile menu

If you select this menu, the **User Profile** window appears.

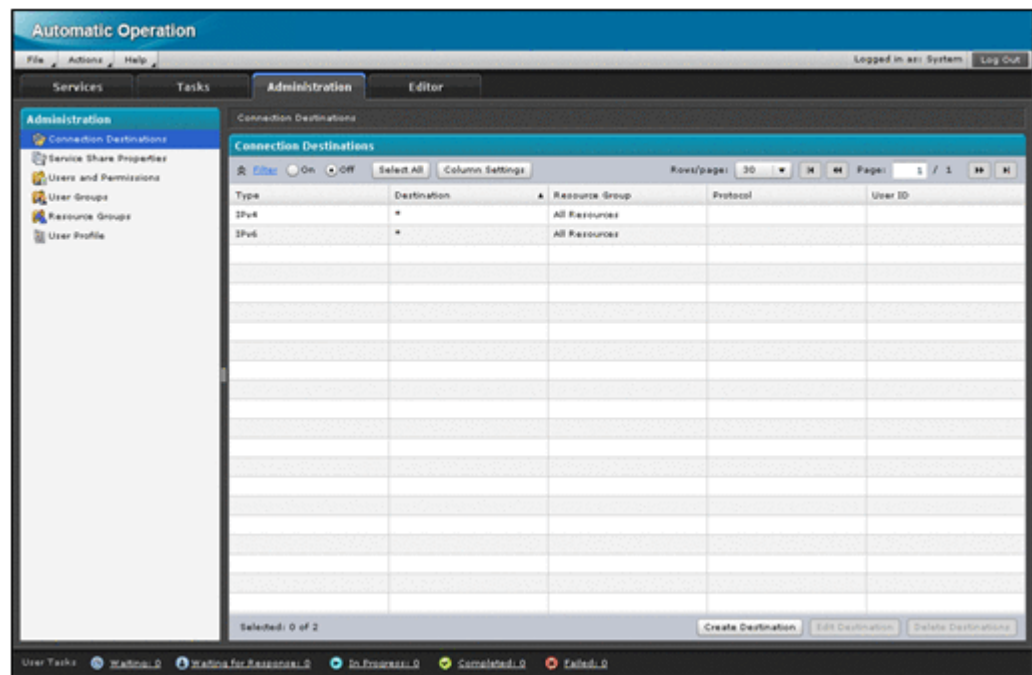
## Right pane

A window corresponding to the menu selected in the left pane is displayed here.

# Connection Destinations view

Use the **Connection Destinations** view to check the connection destination definition used for connecting to the connection destination.

To display the **Connection Destinations** view, select the **Connection Destinations** menu in the left pane of the **Administration** window.



**Figure 6-2 Connection Destinations view**

The following items are displayed in this view:

## Connection Destinations

A list of connection destinations is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box. You can register a maximum of 10,000 connection destinations.

**Table 6-1 Items displayed in the list of connection destination definitions (Connection Destinations view)**

Display item	Displayed by default	Description
Type	Yes	Displays the type of connection destination (host name, IPv4, or IPv6).
Destination	Yes	Displays the name or IP address of the host at the connection destination.
Resource Group	Yes	Displays the name of the resource group.
Protocol	Yes	Displays the protocol for connecting to the connection destination.
User ID	Yes	Displays the user ID for connecting to the connection destination.

Legend:

Yes: Displayed by default

**Create Destination** button

If you click this button, the **Create Destination** dialog box appears.

**Edit Destination** button

If you select a connection destination and then click this button, the **Edit Connection Destination** dialog box appears.

**Delete Destinations** button

If you select a connection destination and then click this button, the **Delete Destinations** dialog box appears. You can select multiple connection destinations at a time.

## Create Connection Destination dialog box

Use the **Create Connection Destination** dialog box to create the connection destination definition used for connecting to the connection destination.

To display the **Create Connection Destination** dialog box, click the **Create Destination** button in the **Connection Destinations** view.

**Figure 6-3 Create Connection Destination dialog box**

The following items are displayed in this dialog box:

**Type** list box

Select the type of connection destination.

- Host Name  
Select this item to specify a host name.
- IPv4  
Select this item to specify an IPv4 address.
- IPv6  
Select this item to specify an IPv6 address.

**Destination** text box

Enter the name or IP address of the host at the connection destination.  
The text box allows a maximum of 1,024 characters.

**Resource Group** list box

Select a resource group to be assigned to the connection destination definition. By default, **All Resources** is displayed in this list box.

**Authentication Information** list box

Specify whether to set authentication information.

- Set  
Select this item to set authentication information. If you select this item, the **Protocol** radio button, the **User ID** text box, and the **Password** text box appear.

**Protocol** radio button

Select WMI, SSH, or Telnet as the protocol to be used for communication with the host at the connection destination.

- WMI

Select this radio button to establish a connection using WMI.

- **SSH**

Set this radio button to establish a connection using SSH. If you select this radio button, the **Superuser Password** text box appears.

**Superuser Password** text box

Make sure that you specify a password when you execute a service that uses a general command plug-in for connection, file-forwarding plug-in, or content plug-in. Specify the password for the superuser at the connection destination.

- **Telnet**

Set this radio button to establish a connection using Telnet. If you select this radio button, the **Superuser Password** text box appears.

**Superuser Password** text box

If you use Telnet to establish a connection, specify the password for the superuser at the connection destination.

**User ID** text box

Specify the ID of the user logging in to the connection destination. In the case of a domain user, specify the ID as either *domain-name\user-name* or *user-name@domain-name*.

**Password** text box

Specify the password of the user logging in to the connection destination.

- **Do not Set**

Select this item to omit authentication information.

**OK** button

To add the connection destination definition, click this button.

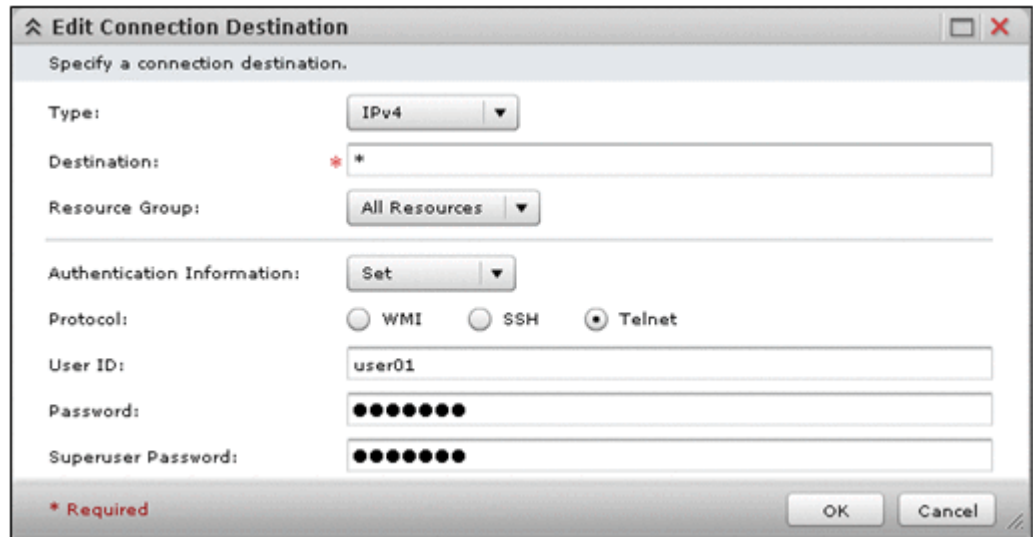
**Cancel** button

To close the **Create Connection Destination** dialog box, click this button.

## Edit Connection Destination dialog box

Use the **Edit Connection Destination** dialog box to edit the connection destination definition used for connecting to the connection destination.

To display the **Edit Connection Destination** dialog box, select a connection destination in the **Connection Destinations** view and then click the **Edit Destination** button.



**Figure 6-4 Edit Connection Destination dialog box**

The following items are displayed in this dialog box:

**Type** list box

Select the type of connection destination.

- Host Name  
Select this item to specify a host name.
- IPv4  
Select this item to specify an IPv4 address.
- IPv6  
Select this item to specify an IPv6 address.

**Destination** text box

Enter the name or IP address of the host at the connection destination.  
The text box allows a maximum of 1,024 characters.

**Resource Group** list box

Select a resource group to be assigned to the connection destination definition.

**Authentication Information** list box

Specify whether to set authentication information.

- Set  
Select this item to set authentication information. If you select this item, the **Protocol** radio button, the **User ID** text box, and the **Password** text box appear.

**Protocol** radio button

Select WMI, SSH, or Telnet as the protocol to be used for communication with the host at the connection destination.

- WMI

Select this radio button to establish a connection using WMI.

- **SSH**

Select this radio button to establish a connection using SSH. If you select this radio button, the **Superuser Password** text box appears.

**Superuser Password** text box

Make sure that you specify a password when you execute a service that uses a general command plug-in for connection, file-forwarding plug-in, or content plug-in. Specify the password for the superuser at the connection destination.

- **Telnet**

Select this radio button to establish a connection using Telnet. If you select this radio button, the **Superuser Password** text box appears.

**Superuser Password** text box

If you use Telnet to establish a connection, specify the password for the superuser at the connection destination.

**User ID** text box

Specify the ID of the user logging in to the connection destination. In the case of a domain user, specify the ID as either *domain-name\user-name* or *user-name@domain-name*.

**Password** text box

Specify the password of the user logging in to the connection destination.

- **Do not Set**

Select this item to omit authentication information.

**OK** button

To apply the changes made to the connection destination definition, click this button.

**Cancel** button

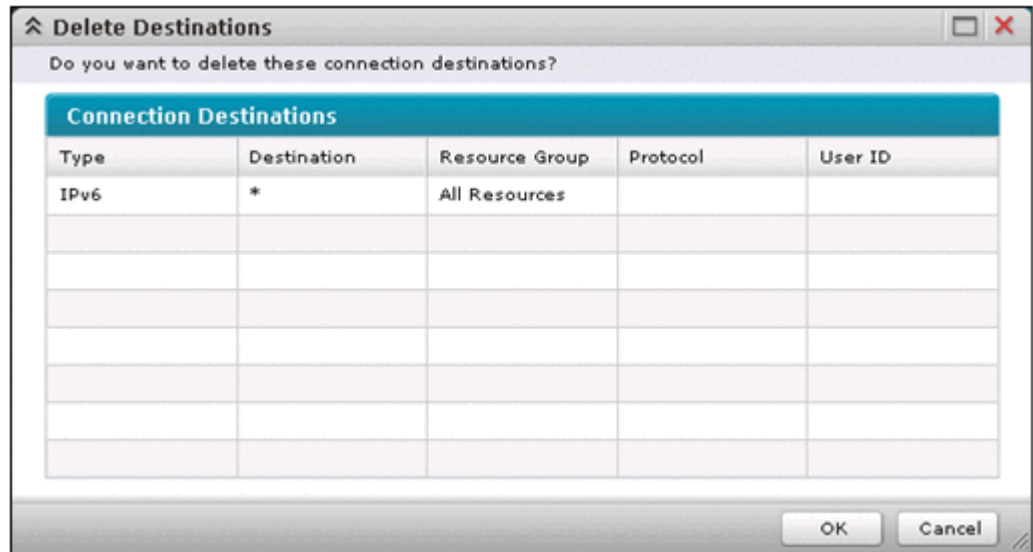
To close the **Edit Connection Destination** dialog box, click this button.

## Delete Destinations dialog box

Use the **Delete Destinations** dialog box to delete a connection destination definition used for connecting to a connection destination.

To display the **Delete Destinations** dialog box, select a connection destination in the **Connection Destinations** view and then click the **Delete Destinations** button.





**Figure 6-5 Delete Destinations dialog box**

The following items are displayed in this dialog box.

#### Connection Destinations

A list of connection destinations to be deleted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-2 Items displayed in the list of connection destination definitions (Delete Destinations dialog box)**

Display item	Description
Type	Displays the type of connection (host name, IPv4, or IPv6).
Destination	Displays the name or IP address of the host at the connection destination.
Resource Group	Displays the name of the resource group.
Protocol	Displays the protocol of the connection destination.
User ID	Displays the ID of the user at the connection destination.

#### **OK** button

To delete the connection destinations displayed in the list, click this button.

#### **Cancel** button

To close the **Delete Destinations** dialog box, click this button.

# Service Share Properties view

Use the **Service Share Properties** view to check the settings of properties that are shared among services set in JP1/AO (service share properties).

To display the **Service Share Properties** view, select the **Service Share Properties** menu in the **Administration** window.

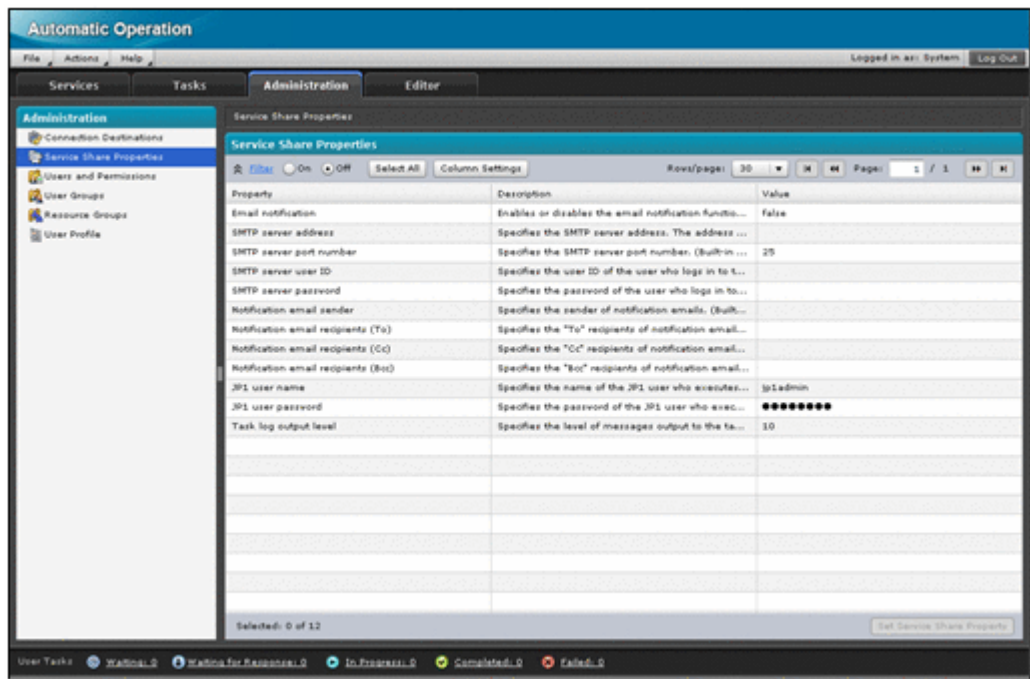


Figure 6-6 Service Share Properties view

The following items are displayed in this view:

## Service Share Properties

A list showing service share property information is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be display in this list, use the **Column Settings** dialog box.

Table 6-3 Items displayed in the list of service share properties (Service Share Properties view)

Display item	Displayed by default	Description
Property	Yes	Displays the name of each service share property.
Description	Yes	Displays a brief description of each service share property.
Value	Yes	Displays the value of each service share property.
Key	No	Displays the key of each service share property.

Display item	Displayed by default	Description
#	No	Displays the order in which each property is displayed in the <b>Service Share Properties</b> view.

Legend:

Yes: Displayed by default, No: Hidden by default

### Set Service Share Property button

If you select a service share property and then click this button, the **Set Service Share Property** dialog box appears.

## Set Service Share Property dialog box

Use the **Set Service Share Property** dialog box to change the settings of service share properties that are set in JP1/AO.

To display the **Set Service Share Property** dialog box, select a service share property in the in the **Service Share Properties** view and then click the **Set Service Share Property** button.

**Figure 6-7 Set Service Share Property dialog box (setting the log output level for tasks)**

The following items are displayed in this dialog box:

#### Property

The name of the service share property to be set is displayed.

#### Description

A brief description of the service share property is displayed. If **Built-in shared service property** is displayed in here, the property is provided by JP1/AO.

## Value

Set the value of the service share property. The value to be entered here varies depending on the type of properties.

## Services

If you click this text, a list of services that define the selected service share property is displayed.

### Defined Services

A list of services that define the selected service share property is displayed. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-4 Items displayed in Defined Services (Set Service Share Property dialog box)**

Display item	Displayed by default	Description
Name	Yes	Displays the name of each service.
Description	Yes	Displays a brief description of each service.
Category	Yes	Displays the category of each service.
Resource Group	No	Displays a resource group to which the service is assigned.
Service Template	No	Displays the name of each service template.
Vendor	No	Displays the display name of the service template vendor.
Version	No	Displays the version of each service template.
<b>Configuration Type</b>	No	Displays the configuration type of the service template.

Legend:

Yes: Displayed by default, No: Hidden by default

### **OK** button

To apply the change made to the service share property value, click this button.

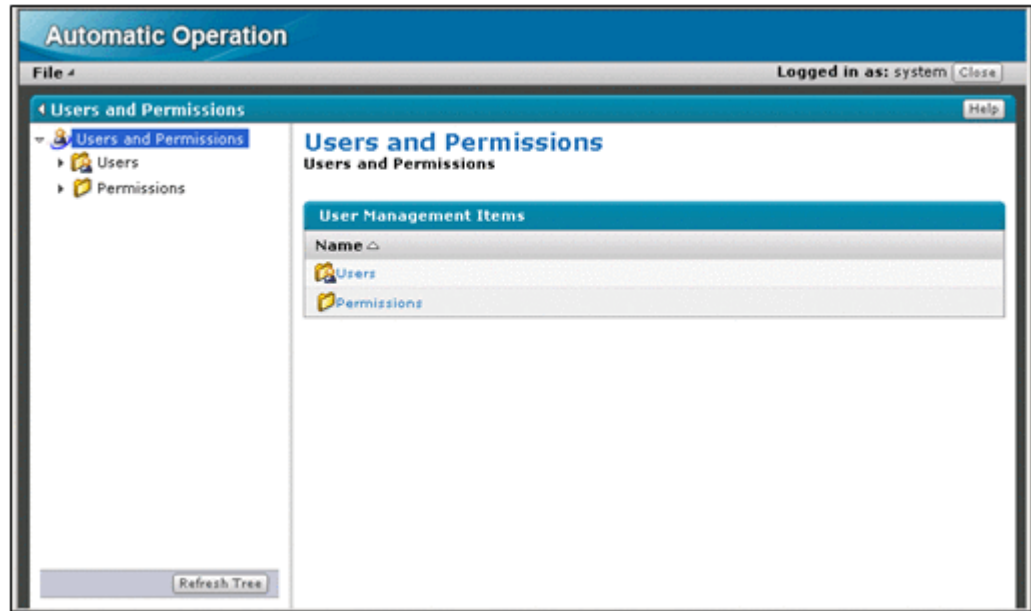
### **Cancel** button

To close the **Set Service Share Property** dialog box, click this button.

## Users and Permissions window

Use the **Users and Permissions** window to manage the profiles of, and permissions granted for, JP1/AO users.

To display the **Users and Permissions** window, select the **Users and Permissions** menu in the left pane of the **Administration** window.



**Figure 6-8 Users and Permissions window**

The following items are displayed in this window:

#### Left pane

A tree view of users and permissions is displayed here.

#### **Users and Permissions** menu

If you select this menu, a list of users and permissions is displayed in the right pane.

#### **Users** menu

If you select this menu, the **User** List is displayed in the right pane. If you select *user-ID* under the tree, the **User Profile** view is displayed for the selected user.

#### **Permissions** menu

If you select this menu, the **Permissions** view is displayed in the right pane. If you select *permission-name* under the tree, the **Authorized User List** view is displayed for the selected permission.

#### **Refresh Tree** button

If you click this button, the tree is updated to reflect the current status.

#### Right pane

A window corresponding to the menu selected in the left pane is displayed here.

# User List

Use the **User** List to display a list of users, and to add or remove users.

To display the **User** List, select the **Users** menu in the **Users and Permissions** window.

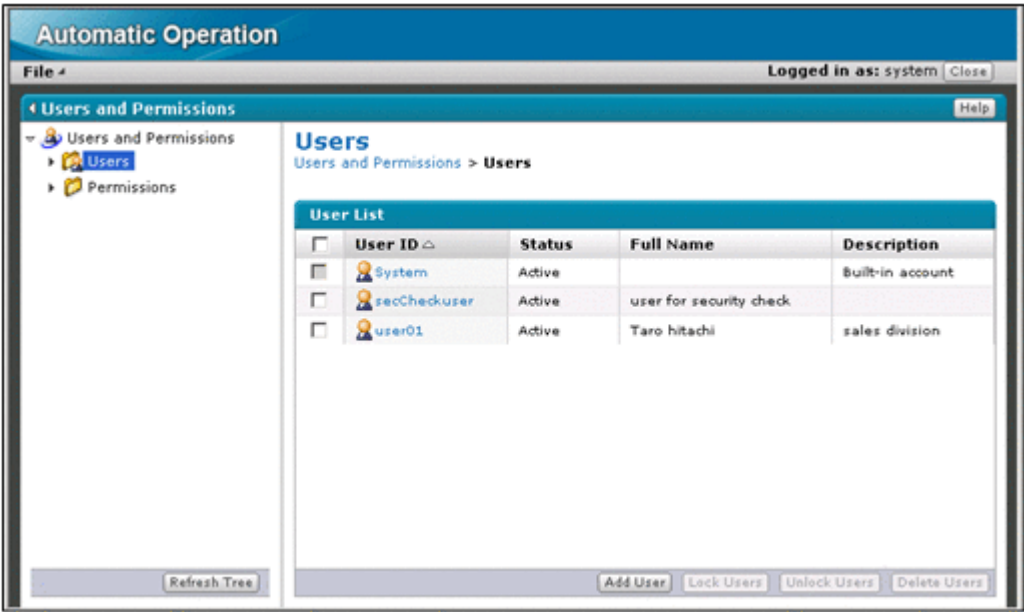


Figure 6-9 User List

The following items are displayed in this view:

Users

A list of users registered in JP1/AO is displayed. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

Table 6-5 Items displayed in Users (User List)

Display item	Description
User selection check boxes	Allows you to select the users to be removed or locked.
User ID	Displays the user ID. If you click <i>user-ID</i> , the <b>User Profile</b> view is displayed for the selected user.
Status	Displays the status (enable or locked) of each user.
Full Name	Displays the full name of each user.
Description	Displays a brief description of each user.

Add User button

If you click this button, the **Add User** dialog box (Users and Permissions) appears.

Lock Users button

If you select a user selection check box and then click this button, the **Lock Users** dialog box appears. You can select multiple users at a time.

#### **Unlock Users** button

If you select a user selection check box and then click this button, the **Unlock Users** dialog box appears. You can select multiple users at a time.

#### **Delete Users** button

If you select a user selection check box and then click this button, the **Delete Users** dialog box appears. You can select multiple users at a time.

## **Add User dialog box (Users and Permissions)**

Use the **Add User** dialog box (Users and Permissions) to add users to JP1/AO.

To display the **Add User** dialog box (Users and Permissions), click the **Add User** button in the **User List**.

The screenshot shows a dialog box titled "Automatic Operation" with a sub-tab "Add User". Inside, there's a "User Profile" section with the instruction "Please enter a value into each field." Below this are several input fields: "\*User ID:" with the text "user02", "\*Password:" with masked characters, "\*Verify Password:" with masked characters, "Full Name:", "E-mail:", and "Description:". A legend at the bottom left states "\*Required field". At the bottom right are "OK" and "Cancel" buttons, and a "Help" button is located near the top right of the "Add User" tab.

**Figure 6-10 Add User dialog box (Users and Permissions)**

The following items are displayed in this dialog box:

#### **User Profile**

Enter user profile information.

#### **User ID** text box

Enter the ID of the user to be added. The text box allows a maximum of 256 characters.

**Password** text box

Enter the password of the user to be added. The text box allows a maximum of 256 characters.

**Verify Password** text box

Enter the same text you have entered in **Password**.

**Full Name** text box

Enter the full name of the user to be added. The text box allows a maximum of 80 characters.

**E-mail** text box

Enter the email address of the user to be added. The text box allows a maximum of 255 bytes of characters.

**Description** text box

Enter the description of the user to be added. The text box allows a maximum of 80 characters.

**OK** button

To add a user, click this button.

**Cancel** button

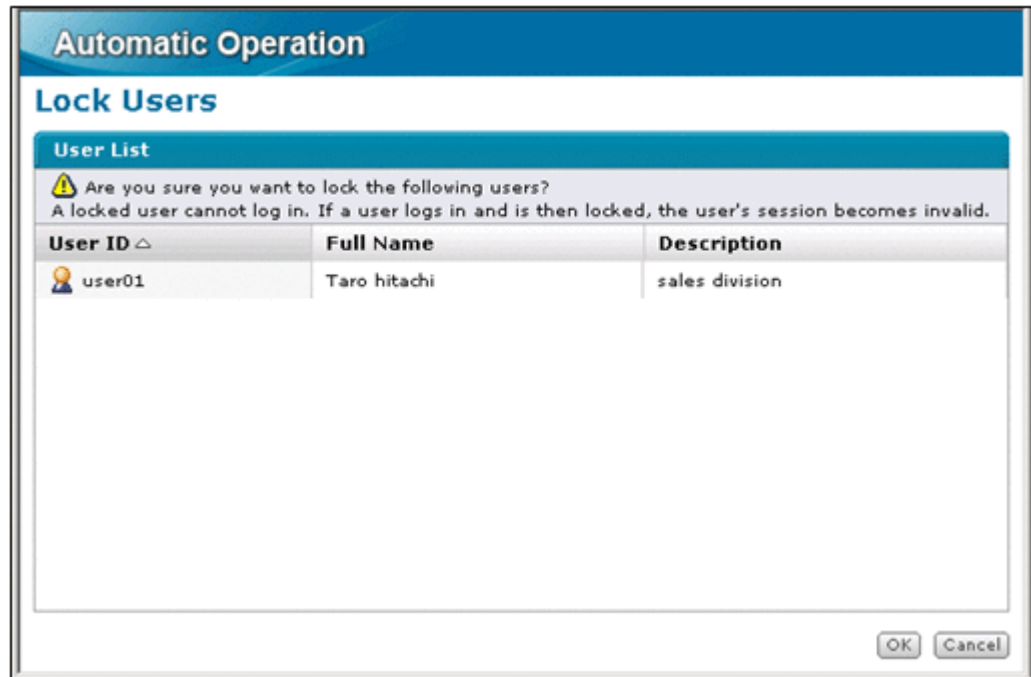
To close the **Add User** dialog box (Users and Permissions), click this button.

## Lock Users dialog box

Use the **Lock Users** dialog box to prevent specified users from logging in to JP1/AO.

To display the **Lock Users** dialog box, select one or more user selection boxes in the **User List** and then click the **Lock Users** button.





**Figure 6-11 Lock Users dialog box**

The following items are displayed in this dialog box:

#### User List

A list of users to be locked is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order

**Table 6-6 Items displayed in User List (Lock Users dialog box)**

Display item	Description
User ID	Displays the user ID.
Full Name	Displays the full name of each user.
Description	Displays a brief description of each user.

#### OK button

If you click this button, the selected users are locked. This means that the users can no longer log in to JP1/AO.

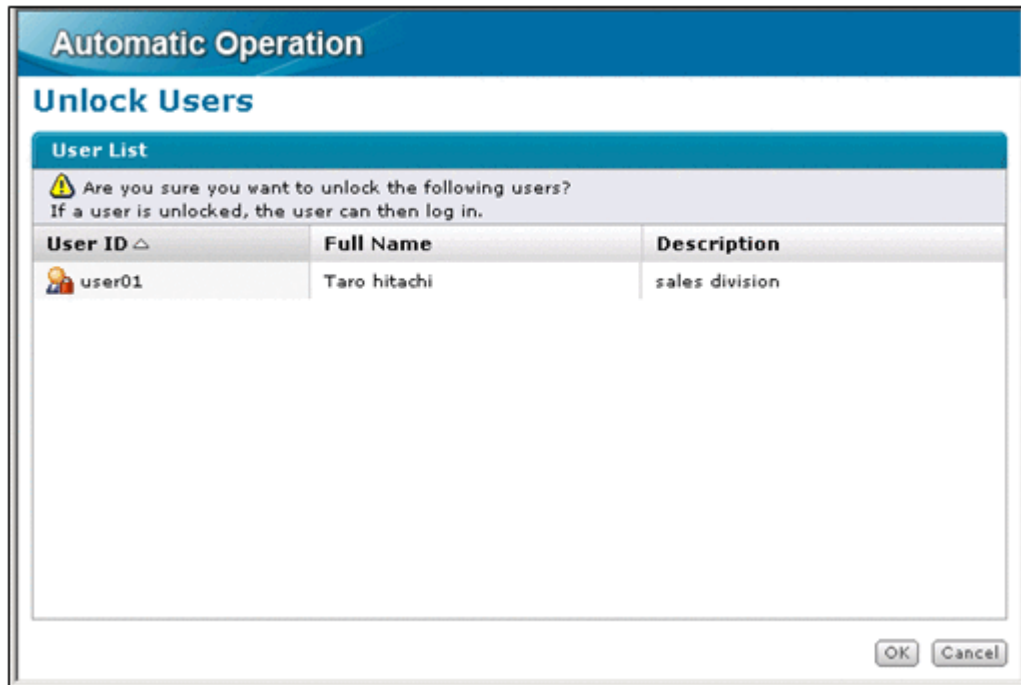
#### Cancel button

If you click this button, the **Lock Users** dialog box closes.

## Unlock Users dialog box

Use the **Unlock Users** dialog box to unlock specified users.

To display the **Unlock Users** dialog box, select one or more user selection check boxes in the **User List** and then click the **Unlock Users** button.



**Figure 6-12 Unlock Users dialog box**

The following items are displayed in this dialog box:

#### User List

A list of users to be unlocked is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-7 Items displayed in User List (Unlock Users dialog box)**

Display item	Description
User ID	Displays the user ID.
Full Name	Displays the full name of each user.
Description	Displays a brief description of each user.

#### OK button

If you click this button, the selected users are unlocked. This means that the users can now log in to JP1/AO again.

#### Cancel button

If you click this button, the **Unlock Users** dialog box closes.

## Delete Users dialog box

Use the **Delete Users** dialog box to delete users that have been added to JP1/AO.

To display the **Delete Users** dialog box, select one or more user selection check boxes in the **User List** and then click the **Delete Users** button.



**Figure 6-13 Delete Users dialog box**

The following items are displayed in this dialog box:

**User List**

A list of users to be deleted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-8 Items displayed in User List (Delete Users dialog box)**

Display item	Description
User ID	Displays the user ID.
Full Name	Displays the full name of each user.
Description	Displays a brief description of each user.

**OK button**

If you click this button, the selected users are deleted.

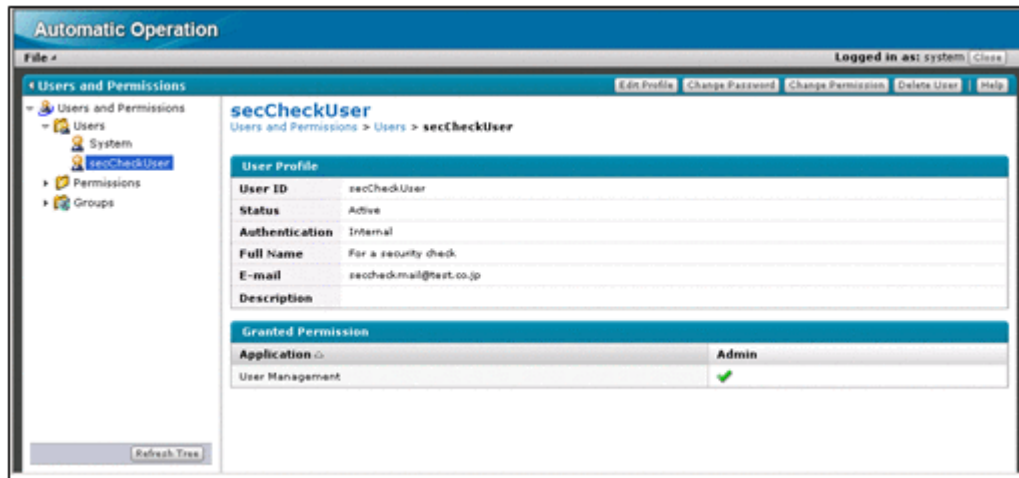
**Cancel button**

If you click this button, the **Delete Users** dialog box closes.

## User Profile view

Use the **User Profile** view to check or change user profiles.

To display the **User Profile** view, click *user-ID* in the **User** List.



**Figure 6-14 User Profile view (when external authentication linkage is enabled)**

The following items are displayed in this view:

#### User Profile

The user profile information is displayed.

#### User ID

The user ID is displayed.

#### Status

The status (enabled or locked) of the user is displayed.

#### Authentication

The authentication method is displayed for the user. This item is displayed only when external authentication linkage is enabled.

#### Full Name

The full name of the user is displayed.

#### E-mail

The email address of the user is displayed.

#### Description

A brief description of the user is displayed.

#### Granted Permission

A list of permissions granted to the user is displayed. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-9 Items displayed in Granted Permission (User Profile view)**

Display item	Description
Application	Displays the name of the permission specified for the user.
Admin	Displays whether the user is granted User Management permission.

**Edit Profile** button

If you click this button, the **Edit Profile** dialog box appears.

**Change Password** button

If you click this button, the **Change Password** dialog box appears.

**Change Permission** button

If you click this button, the **Change Password** dialog box appears. This button is not displayed if you have selected a logged-in user or a System account.

**Delete Users** button

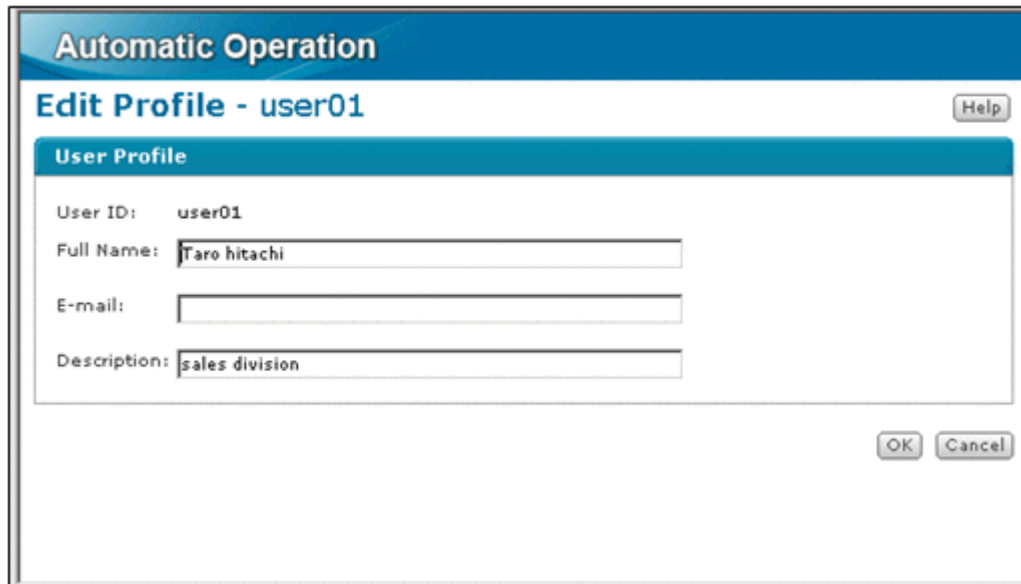
If you click this button, a message dialog box prompting you to confirm whether to delete the user appears. To remove the user, click the **OK** button. The **Delete Users** button is not displayed if you have selected a logged-in user or a System account.

## Edit Profile dialog box

Use the **Edit Profile** dialog box to change user profile information.

To display the **Edit Profile** dialog box, perform one of the following operations:

- Click the **Edit Profile** button in the **User Profile** view.
- Click the **Edit Profile** button in the **User Profile** window.



**Figure 6-15 Edit Profile dialog box**

The following items are displayed in this dialog box:

**User Profile**

Use this section to change user profile information.

**User ID**

The user ID is displayed. You cannot change the user ID.

**Full Name** text box

The full name specified at the time the user was added is displayed here. You can change the full name. The text box allows a maximum of 80 characters.

**E-mail** text box

The email address specified at the time the user was added is displayed here. You can change the email address. The text box allows a maximum of 255 bytes of characters.

**Description** text box

The description specified at the time the user was added is displayed here. You can change this description. The text box allows a maximum of 80 characters.

**OK** button

To change the profile information, click this button.

**Cancel** button

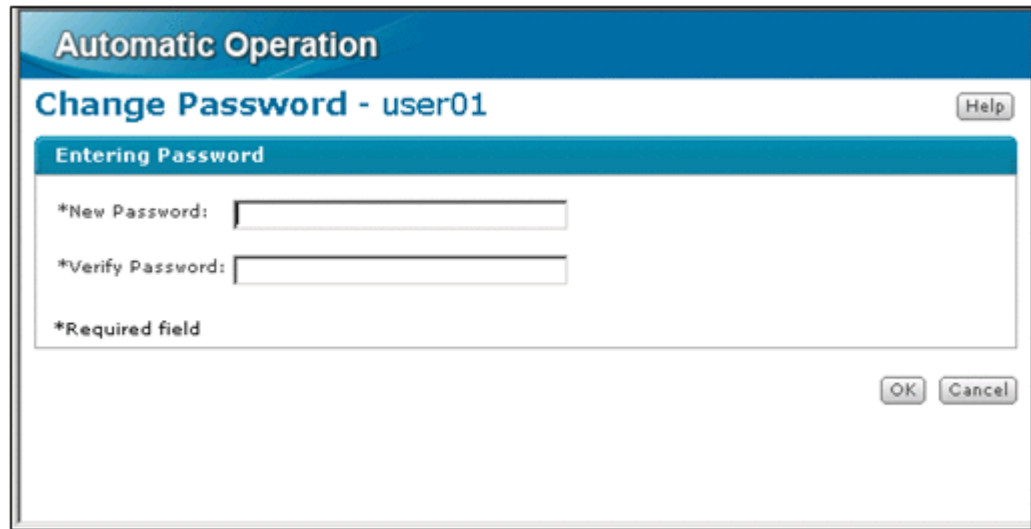
To close the **Edit Profile** dialog box, click this button.

## Change Password dialog box

Use the **Change Password** dialog box to change the password of a user.

To display the **Change Password** dialog box, perform one of the following operations:

- Click the **Change Password** button in the **User Profile** view.
- Click the **Change Password** button in the **User Profile** window.

The image shows a software dialog box titled "Automatic Operation" with a subtitle "Change Password - user01". Inside the dialog, there is a section titled "Entering Password" which contains three text input fields. The first field is labeled "\*New Password:", the second is labeled "\*Verify Password:", and the third is labeled "\*Required field". At the bottom right of the dialog are "OK" and "Cancel" buttons. A "Help" button is located at the top right of the dialog box.

**Figure 6-16 Change Password dialog box (when accessed from the User Profile view)**

The following items are displayed in this dialog box:

**Entering Password**

Use this section to set a new password for a user.

**Old Password** text box

Enter the current password. This text box is displayed only when the **Change Password** dialog box is displayed from the **User Profile** window.

**New Password** text box

Enter a new password. The text box allows a maximum of 256 characters.

**Verify Password** text box

Enter the same text you have entered in **New Password**.

**OK** button

To change the password of the user, click this button.

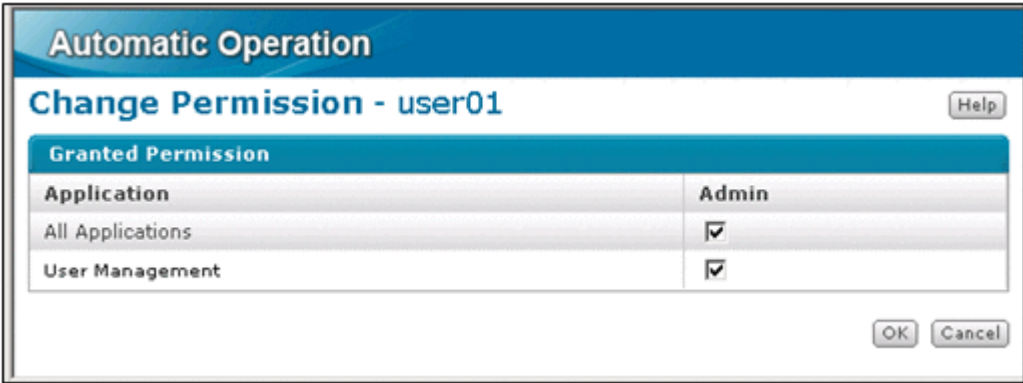
**Cancel** button

To close the **Change Password** dialog box, click this button.

## Change Permission dialog box

Use the **Change Permission** dialog box to change the permissions granted to a user.

To display the **Change Permission** dialog box, click the **Change Permission** button in the **User Profile** view.



**Figure 6-17 Change Permission dialog box**

The following items are displayed in this dialog box:

**Granted Permission**

A list of permissions granted to the user is displayed.

**Table 6-10 Items displayed in Granted Permission (Change Permission dialog box)**

Display item	Description
Application	Displays the name of each permission.
Admin	Allows you to set User Management permission for the user.

**OK** button

To apply the change made to the permissions granted to the user, click this button.

**Cancel** button

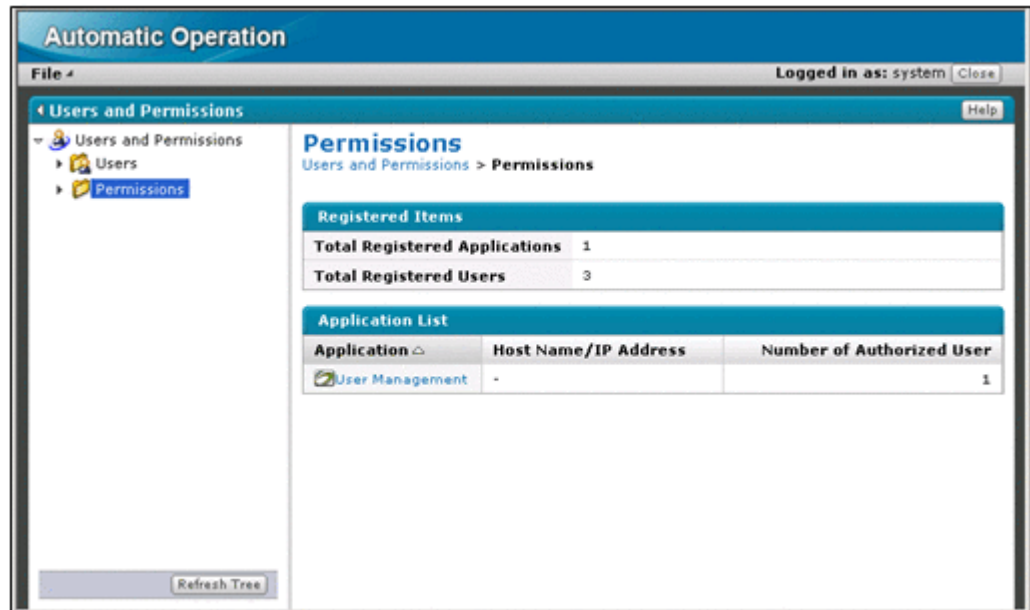
To close the **Change Permission** dialog box, click this button.

**Permissions view**

Use the **Permissions** view to manage permissions.

To display the **Permissions** view, select the **Permissions** menu in the **Users and Permissions** window.





**Figure 6-18 Permissions view**

The following items are displayed in this view:

#### Registered Items

The registration status regarding permissions is displayed here.

#### Total Registered Applications

The number of granted permissions is displayed.

#### Total Registered Users

The number of users registered to permissions is displayed. If external authentication linkage is enabled, the total number of registered users and groups is displayed here. This, however, does not include JP1 users or JP1 resource groups registered in JP1/Base.

#### Application List

A list of permissions is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-11 Items displayed in Application List (Permissions view)**

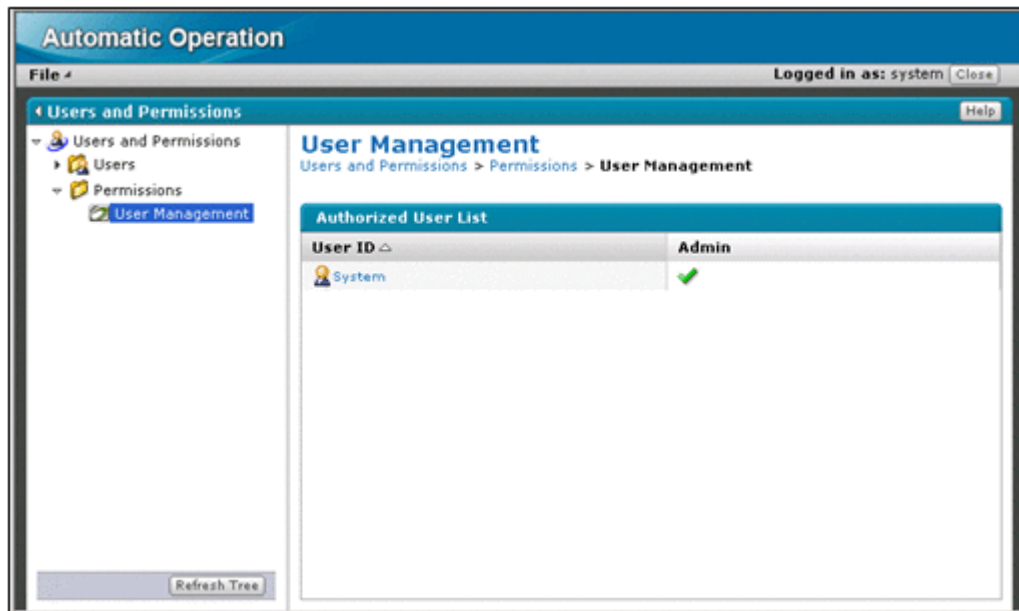
Display item	Description
Application	Displays the name of each permission. If you click <i>permission-name</i> when external authentication linkage is disabled, the <b>Authorized User List</b> view is displayed for the selected permission. When external authentication linkage is enabled, the <b>Authorized User and Group List</b> view is displayed for the selected permission.
Host Name/IP Address	Displays the host name or the IP address.

Display item	Description
Number of Authorized User	Displays the number of users to whom each permission is granted. If external authentication linkage is enabled, the total number of users and groups to which each permission is granted is displayed here. This, however, does not include JP1 users or JP1 resource groups registered in JP1/Base.

## Authorized User List view

Use the **Authorized User List** view to check the users to whom each permission is granted. The **Authorized User List** view is displayed when external authentication linkage is disabled.

To display the **Authorized User List** view, click *permission-name* in the **Permissions** view.



**Figure 6-19 Authorized User List view**

The following items are displayed in this view:

### Authorized User List

A list of users to whom the permission is granted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

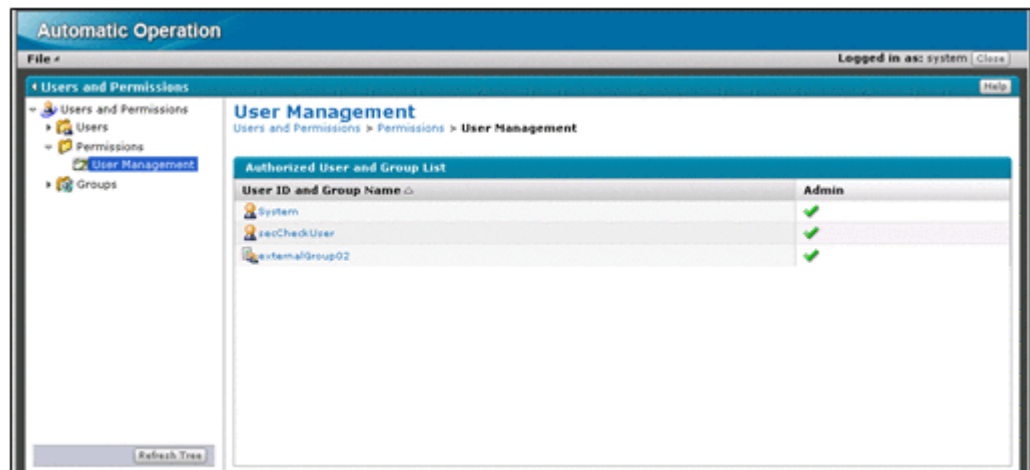
**Table 6-12 Items displayed in Authorized User List (User Management view)**

Display item	Description
User ID	Displays the ID of each user to whom the permission is granted. If you click <i>user-ID</i> , the <b>User Profile</b> view is displayed for the selected user.
Admin	Displays a check mark for a user to whom User Management permission is granted.

## Authorized User and Group List view

Use the **Authorized User and Group List** view to check the users and groups to which each permission is granted. The **Authorized User and Group List** view is displayed when external authentication linkage is enabled.

To display the **Authorized User and Group List** view, click *permission-name* in the **Permissions** view.



**Figure 6-20 Authorized User and Group List view**

The following items are displayed in this view:

### Authorized User and Group List

A list of users and groups to which the permission is granted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. However, JP1 users or JP1 resource groups registered in JP1/Base are not displayed here.

**Table 6-13 Items displayed in Authorized User and Group List (User Management view)**

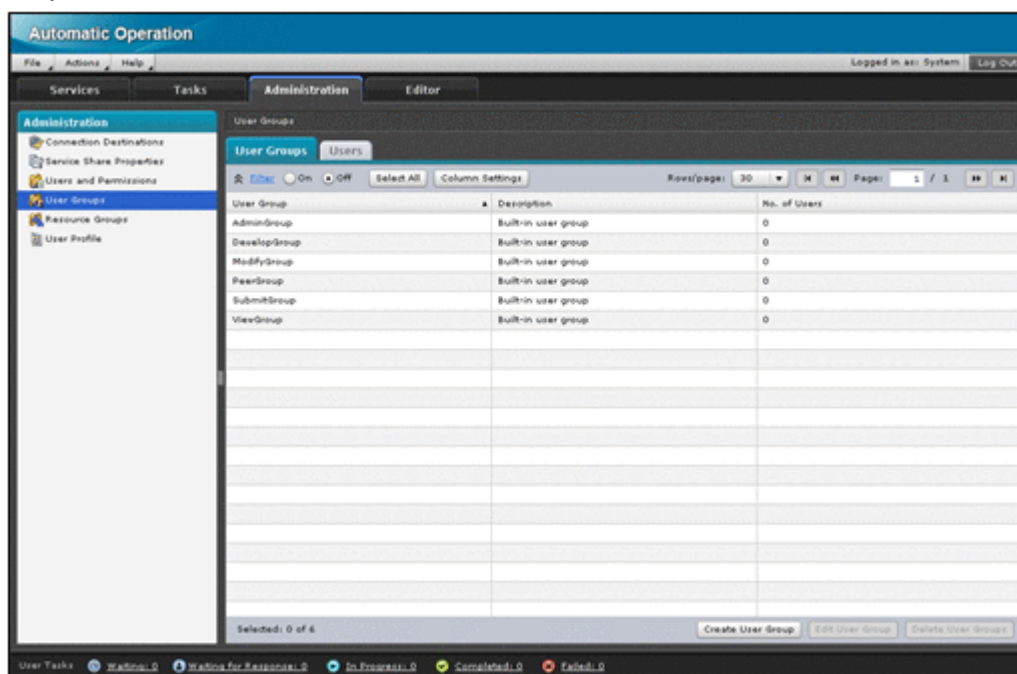
Display item	Description
User ID and Group Name	Displays the user ID and group name of each user to whom the permission is granted. If you click <i>user-ID</i> , the <b>User Profile</b> view is displayed for the selected user.
Admin	Displays a check mark for a user and group to which User Management permission is granted.

## User Groups view (User Groups tab)

Use the **User Groups** view (**User Groups** tab) to manage user groups.

To display the **User Groups** view (**User Groups** tab), select the **User Groups** in the **Administration** window.

The **User Groups** view (**User Groups** tab) and windows accessed from this view display user groups and users that are shared with Hitachi Command Suite products.



**Figure 6-21 User Groups view (User Groups tab)**

The following items are displayed in this view:

### User Groups

A list of user groups is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To

select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-14 Items displayed in the list of user groups (User Groups view (User Groups tab))**

Display item	Displayed by default	Description
User Group	Yes	Displays the name of each user group.
Description	Yes	Displays a brief description of each user group. In the case of a built-in user group, <b>Built-in user group</b> is displayed here.
No. of Users	Yes	Displays the number of users registered to each user group.
Distinguished Name	No	Displays the external authentication group ID.

Legend:

Yes: Displayed by default, No: Hidden by default

**Create User Group** button

If you click this button, the **Create User Group** dialog box appears.

**Edit User Group** button

If you select a user group and then click this button, the **Edit User Group** dialog box appears. This button is hidden when the logged-in user assumes either a Modify or Submit role and a user group linked with external authentication is selected.

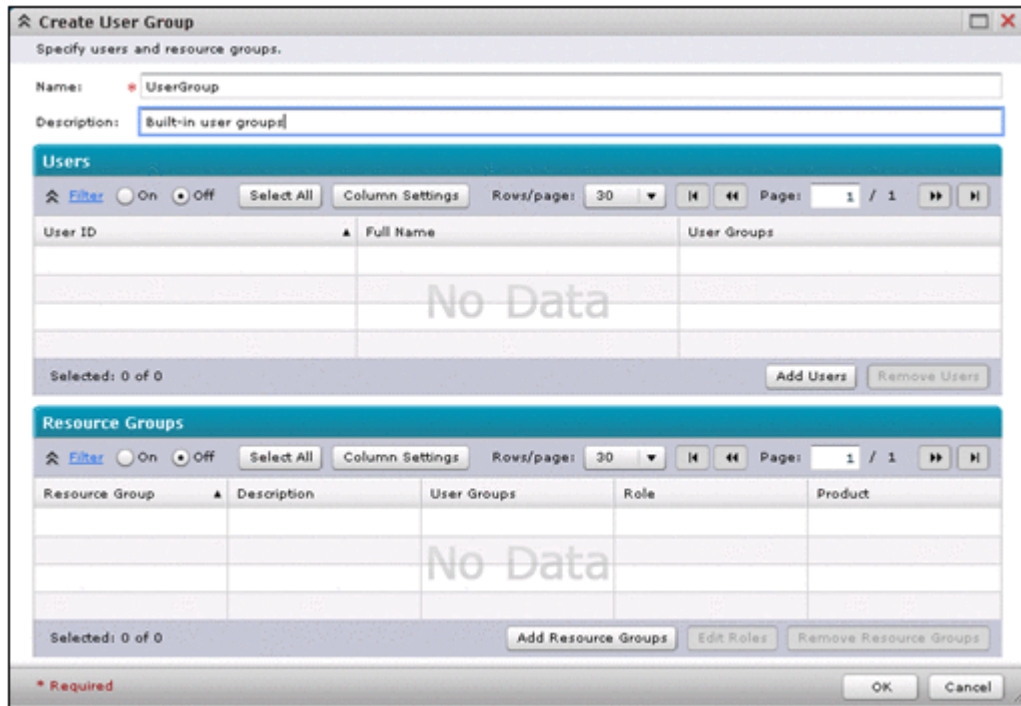
**Delete User Groups** button

If you select a user group and then click this button, the **Delete User Groups** dialog box appears. You can select multiple user groups at a time.

## Create User Group dialog box

Use the **Create User Group** dialog box to create a user group to which to assign users and resource groups. The created user groups are shared with Hitachi Command Suite products.

To display the **Create User Group** dialog box, click the **Create User Group** button in the **User Groups** view (**User Groups** tab).



**Figure 6-22 Create User Group dialog box**

The following items are displayed in this dialog box:

**Name** text box

Enter the name of the user group. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the user group. The text box allows a maximum of 80 characters.

**Users**

A list of users to be added to the user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-15 Items displayed in the list of users (Create User Group dialog box)**

Display item	Displayed by default	Description
User ID	Yes	Displays the user ID.
Full Name	Yes	Displays the full name of each user.
User Groups	Yes	Displays the user group to which the user currently belongs.

Legend:

Yes: Displayed by default

**Add Users** button

If you click this button, the **Add Users** dialog box (User Groups) appears.

**Remove Users** button

If you select a user and then click this button, the selected user is deleted from the list. You can select multiple users at a time.

Resource Groups

A list of JP1/AO resource groups to be assigned to the user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. This list is displayed only when the logged-in user has both the User Management permission and the Admin role.

To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-16 Items displayed in the list of resource groups (Create User Group dialog box)**

Display item	Displayed by default	Description
Resource Group	Yes	Displays the name of each resource group.
Description	Yes	Displays a brief description of each resource group. In the case of a built-in resource group, <b>default resource groups which contains all resources</b> is displayed here.
User Groups	Yes	Displays a user group that is currently assigned to the resource group.
Role	Yes	Displays the role of the selected resource group.
Product	Yes	Displays the name of the product that manages the resource group. In the case of a JP1/AO resource group, <b>Automation</b> is displayed here.

Legend:

Yes: Displayed by default

**Add Resource Groups** button

If you click this button, the **Add Resource Groups** dialog box appears.

**Edit Roles** button

If you click this button, the **Edit Roles** dialog box appears. You can select multiple resource groups at a time.

**Remove Resource Groups** button

If you select a resource group and then click this button, the selected resource group is removed from the list. You can select multiple resource groups at a time.

**OK** button

To create a user group, click this button.

**Cancel** button

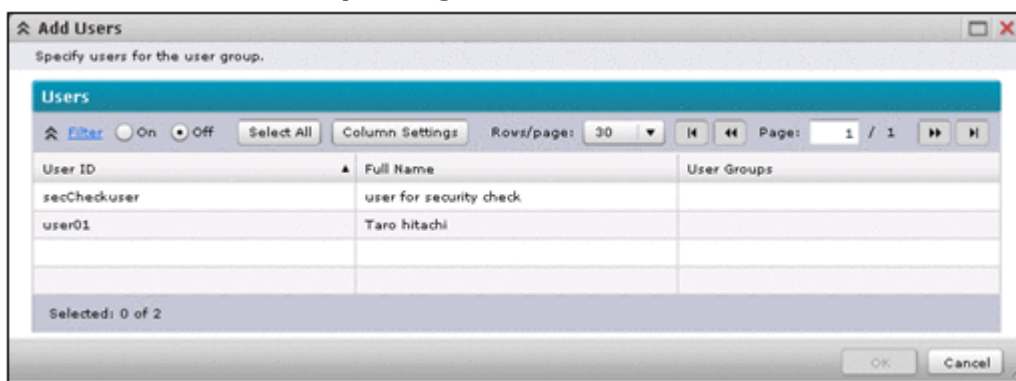
To close the **Create User Group** dialog box, click this button.

## Add Users dialog box (User Groups)

Use the **Add Users** dialog box (User Groups) to add users to a user group.

To display the **Add Users** dialog box (User Groups), perform one of the following operations:

- In the **Create User Group** dialog box, click the **Add Users** button.
- In the **Edit User Group** dialog box, click the **Add Users** button.



**Figure 6-23 Add Users dialog box (User Groups)**

The following items are displayed in this dialog box:

**Users**

A list of available users is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-17 Items displayed in the list of users (Add Users dialog box (User Groups))**

Display item	Displayed by default	Description
User ID	Yes	Displays the user ID.
Full Name	Yes	Displays the full name of each user.



Display item	Displayed by default	Description
User Groups	Yes	Displays the user group to which the user currently belongs.

Legend:

Yes: Displayed by default

#### **OK** button

If you select a user and then click this button, the selected user is displayed in the list of users in the **Create User Group** dialog box. You can select multiple users at a time.

#### **Cancel** button

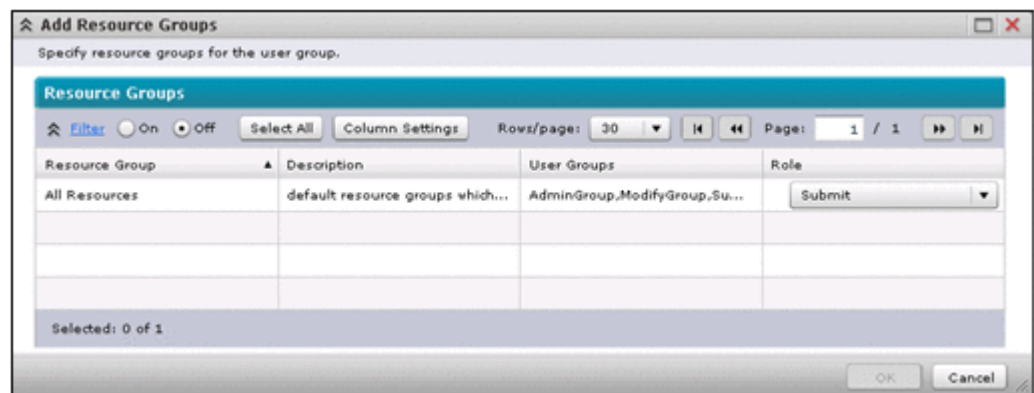
If you click this button, the **Add Users** dialog box (User Groups) closes.

## Add Resource Groups dialog box

Use the **Add Resource Groups** dialog box to add resource groups to a user group.

To display the **Add Resource Groups** dialog box, perform one of the following operations:

- In the **Create User Group** dialog box, click the **Add Resource Groups** button.
- In the **Edit User Group** dialog box, click the **Add Resource Groups** button.



**Figure 6-24 Add Resource Groups dialog box**

The following items are displayed in this dialog box:

#### Resource Groups

A list of resource groups that can be added to a user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box. Note that

resource groups created by Hitachi Command Suite products are not displayed here even when Hitachi Command Suite products are already installed.

**Table 6-18 Items displayed in the list of resource groups (Add Resource Groups dialog box)**

Display item	Displayed by default	Description
Resource Group	Yes	Displays the name of each resource group.
Description	Yes	Displays a brief description of each resource group. In the case of a built-in resource group, <b>default resource groups which contains all resources</b> is displayed here.
User Groups	Yes	Displays a user group that is currently assigned to the resource group.
Role	Yes	Provides a list box for selecting the role of the selected resource group.

Legend:

Yes: Displayed by default

**OK** button

If you select a resource group and then click this button, the selected resource group is displayed in the list of resource groups in the **Create User Group** dialog box. You can select multiple resource groups at a time.

**Cancel** button

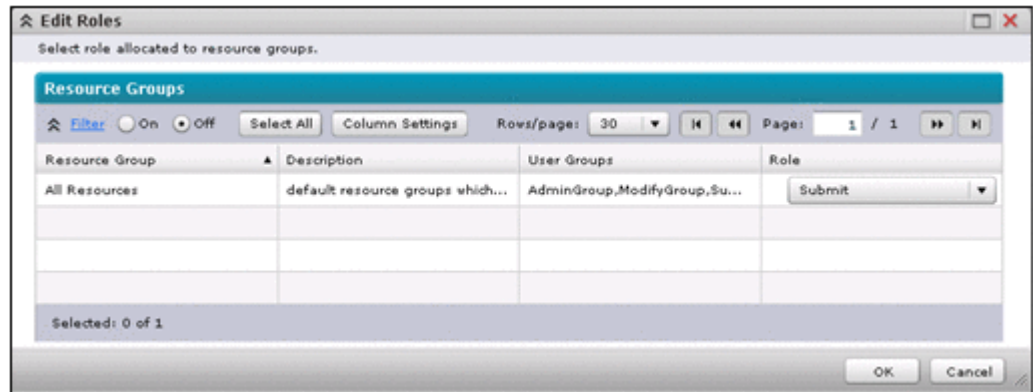
If you click this button, the **Add Resource Groups** dialog box closes.

## Edit Roles dialog box

Use the **Edit Roles** dialog box to select a role to be assigned to a resource group.

To display the **Edit Roles** dialog box, perform one of the following operations:

- In the **Create User Group** dialog box, click the **Edit Roles** button.
- In the **Edit User Group** dialog box, click the **Edit Roles** button.



**Figure 6-25 Edit Roles dialog box**

The following items are displayed in this dialog box:

#### Resource Groups

A list of resource groups for which to select roles is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-19 Items displayed in the list of resource groups (Edit Roles dialog box)**

Display item	Displayed by default	Description
Resource Group	Yes	Displays the name of each resource group.
Description	Yes	Displays a brief description of each resource group. In the case of a built-in resource group, <b>default resource groups which contains all resources</b> is displayed here.
User Groups	Yes	Displays a user group that is currently assigned to the resource group.
Role	Yes	Provides a list box for selecting the role of the selected resource group.

Legend:

Yes: Displayed by default

#### **OK** button

To apply the change made to the role, click this button.

#### **Cancel** button

To close the **Edit Roles** dialog box, click this button.

## Edit User Group dialog box

Use the **Edit User Group** dialog box to edit a selected user group to which to assign users and resource groups.

To display the **Edit User Group** dialog box, select a user group in the **User Groups** view (**User Groups** tab) and then click the **Edit User Group** button.

**Edit User Group**

Specify users and resource groups.

Name:

Description:

**Users**

☐ On ☒ Off   Rows/page: 30 Page: 1 / 1

User ID	Full Name	User Groups
user01		

Selected: 1 of 1

**Resource Groups**

☐ On ☒ Off   Rows/page: 30 Page: 1 / 1

Resource Group	Description	User Groups	Role	Product
All Resources	default resource group...	AdminGroup,ModifyGr...	Submit	Automation

Selected: 0 of 1

\* Required

**Figure 6-26 Edit User Group dialog box**

The following items are displayed in this dialog box:

### **Name** text box

The name of the user group is displayed here. Enter a new name for the user group. The text box allows a maximum of 64 characters. Note that you cannot change the name of a built-in user group.

### **Description** text box

A brief description of the user group is displayed here. Enter a new description for the user group. The text box allows a maximum of 80 characters. Note that you cannot change the description of a built-in user group.

### **Users**

A list of users added to the user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-20 Items displayed in the list of users (Edit User Group dialog box)**

Display item	Displayed by default	Description
User ID	Yes	Displays the user ID.
Full Name	Yes	Displays the full name of each user.
User Groups	Yes	Displays the user group to which the user currently belongs.

Legend:

Yes: Displayed by default

#### **Add Users** button

If you click this button, the **Add Users** dialog box (User Groups) appears.

#### **Remove Users** button

If you select a user and then click this button, the selected user is deleted from the list. You can select multiple users at a time.

#### Resource Groups

A list of resource groups to be assigned to the user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

To select the items to be displayed in this list, use the **Column Settings** dialog box. If Hitachi Command Suite products are already installed, the list also shows the resource groups created by Hitachi Command Suite products. Note, however, that you cannot edit roles of or remove the resource groups created by Hitachi Command Suite products.

**Table 6-21 Items displayed in the list of resource groups (Edit User Group dialog box)**

Display item	Displayed by default	Description
Resource Group	Yes	Displays the name of each resource group.
Description	Yes	Displays a brief description of each resource group. In the case of a built-in resource group, <b>default resource groups which contains all resources</b> is displayed here.
User Groups	Yes	Displays a user group that is currently assigned to the resource group.
Role	Yes	Displays the role of the selected resource group.

Display item	Displayed by default	Description
Product	Yes	Displays the name of the product that manages the resource group. In the case of a JP1/AO resource group, <b>Automation</b> is displayed here.

Legend:

Yes: Displayed by default

#### **Add Resource Groups** button

If you click this button, the **Add Resource Groups** dialog box appears. This button is displayed only when the logged-in user has both the User Management permission and the Admin role. This button, however, is not displayed when a built-in user group is selected.

#### **Edit Roles** button

If you select a resource group and then click this button, the **Edit Roles** dialog box appears. You can select multiple resource groups at a time. This button is displayed only when the logged-in user has both the User Management permission and the Admin role. This button, however, is not displayed when a built-in user group is selected, or when a resource group created by Hitachi Command Suite products is selected.

#### **Remove Resource Groups** button

If you select a resource group and then click this button, the selected resource group is removed from the list. You can select multiple resource groups at a time. This button is displayed only when the logged-in user has both the User Management permission and the Admin role. This button, however, is not displayed when a built-in user group is selected, or when a resource group created by Hitachi Command Suite products is selected.

#### **OK** button

To apply the changes made to the user group, click this button.

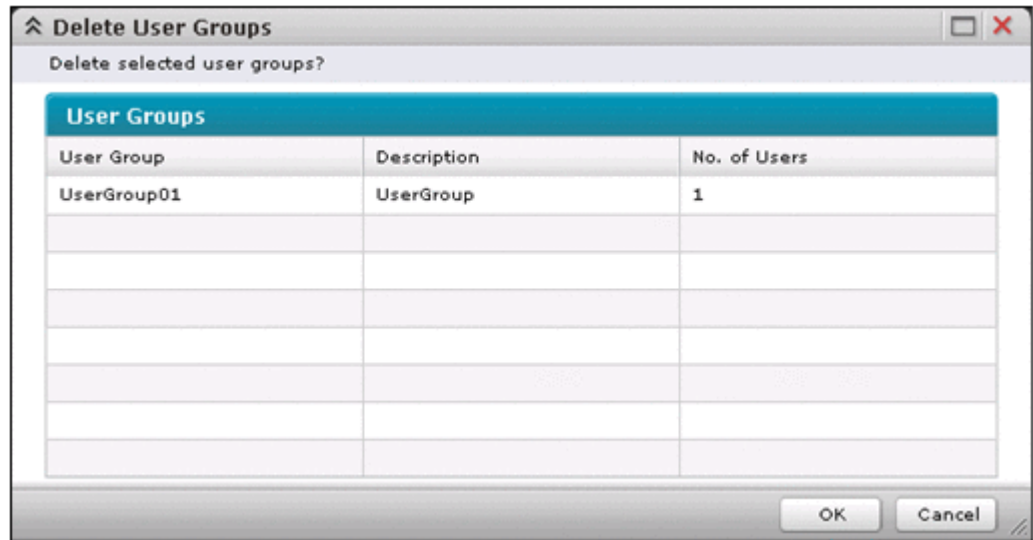
#### **Cancel** button

To close the **Edit User Group** dialog box, click this button.

## Delete User Groups dialog box

Use the **Delete User Groups** dialog box to delete user groups.

To display the **Delete User Groups** dialog box, select a user group in the **User Groups** view (**User Groups** tab) and then click the **Delete User Groups** button.



**Figure 6-27 Delete User Groups dialog box**

The following items are displayed in this dialog box:

#### User Groups

A list of user groups to be deleted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-22 Items displayed in the list of user groups (Delete User Groups dialog box)**

Display item	Description
User Group	Displays the name of each user group.
Description	Displays a brief description of each user group.
No. of Users	Displays the number of users belonging to each user group.

#### OK button

To delete the user groups displayed in the list, click this button. If the list includes any user groups to which a resource group created by Hitachi Command Suite products is assigned, an error occurs as you click this button to delete user groups.

#### Cancel button

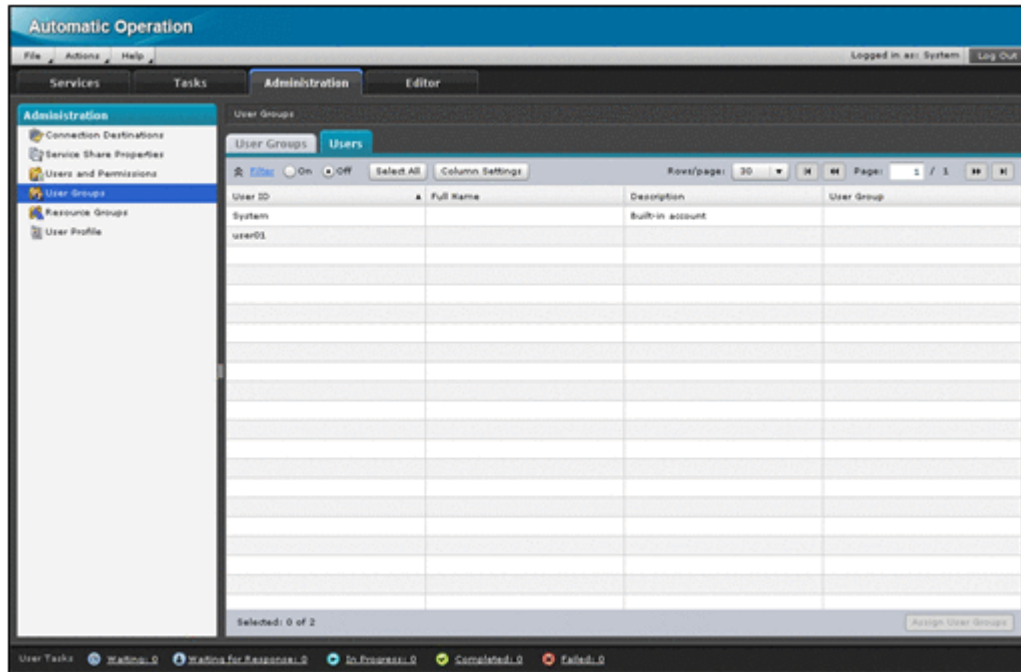
To close the **Delete User Groups** dialog box, click this button.

## User Groups view (Users tab)

Use the **User Groups** view (**Users** tab) to check the users assigned to a user group or to assign users to a user group.

To display the **User Groups** view (**Users** tab), select the **User Groups** menu in the **Administration** window and then select the **Users** tab.

The **User Groups** view (**Users** tab) and windows accessed from this view display user groups and users that are shared with Hitachi Command Suite products. These windows also allow you to assign users to user groups created by Hitachi Command Suite products.



**Figure 6-28 User Groups view (Users tab)**

The following items are displayed in this view:

#### Users

A list of users to be assigned to the user group is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-23 Items displayed in the list of users (User Groups view (Users tab))**

Display item	Displayed by default	Description
User ID	Yes	Displays the user ID.
Full Name	Yes	Displays the full name of each user.
Description	Yes	Displays a brief description of each user.
User Group	Yes	Displays the user group to which the user belongs.

Legend:



Yes: Displayed by default

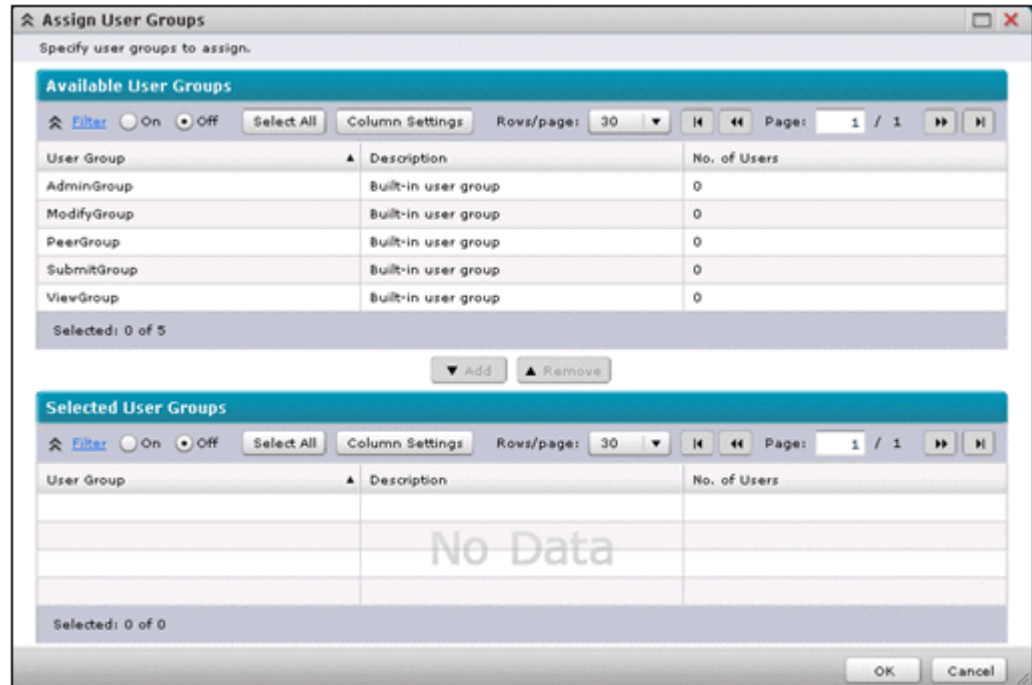
### Assign User Groups button

If you select a user and then click this button, the **Assign User Groups** dialog box appears.

## Assign User Groups dialog box

Use the **Assign User Groups** dialog box to assign users to a user group.

To display the **Assign User Groups** dialog box, select a user in the **User Groups** view (**Users** tab) and then click the **Assign User Groups** button.



**Figure 6-29 Assign User Groups dialog box**

The following items are displayed in this dialog box:

#### Available User Groups

A list of available user groups is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box. If Hitachi Command Suite products are already installed, the user groups created by Hitachi Command Suite products are also available for selection.

**Table 6-24 Items displayed in the list of available user groups (Assign User Groups dialog box)**

Display item	Displayed by default	Description
User Group	Yes	Displays the name of each user group.
Description	Yes	Displays a brief description of each user group. In the case of a built-in user group, <b>Built-in user group</b> is displayed here.
No. of Users	Yes	Displays the number of users belonging to each user group.

Legend:

Yes: Displayed by default

#### **Add** button

If you select one of the available user groups and then click this button, the selected user group appears under **Selected User Groups**. You can select multiple user groups at a time.

#### **Remove** button

If you select one of the selected user groups and then click this button, the selected user group is removed from **Selected User Groups**. You can select multiple user groups at a time.

#### Selected User Groups

A list of user groups to be assigned to the user is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-25 Items displayed in the list of selected user groups (Assign User Groups dialog box)**

Display item	Displayed by default	Description
User Group	Yes	Displays the name of each user group.
Description	Yes	Displays a brief description of each user group. In the case of a built-in user group, <b>Built-in user group</b> is displayed here.
No. of Users	Yes	Displays the number of users belonging to each user group.

Legend:

Yes: Displayed by default

#### **OK** button

To assign a user group to the user, click this button.

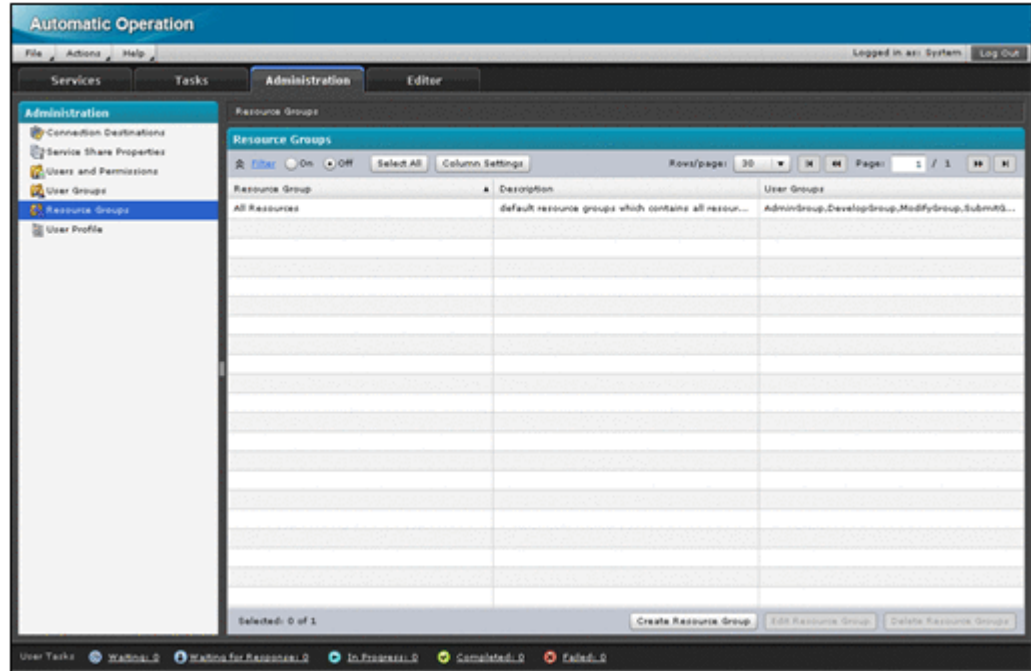
**Cancel** button

To close the **Assign User Groups** dialog box, click this button.

## Resource Groups view

Use the **Resource Groups** view to manage resource groups.

To display the **Resource Groups** view, select the **Resource Groups** menu in the **Administration** window.



**Figure 6-30 Resource Groups view**

The following items are displayed in this view:

### Resource Groups

A list of resource groups is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 6-26 Items displayed in the list of resource groups (Resource Groups view)**

Display item	Displayed by default	Description
Resource Group	Yes	Displays the name of each resource group.
Description	Yes	Displays a brief description of each resource group. In the case of a built-in resource group, <b>default resource</b>

Display item	Displayed by default	Description
		<b>groups which contains all resources</b> is displayed here.
User Groups	Yes	Displays a user group to which the resource group is assigned.

Legend:

Yes: Displayed by default

#### **Create Resource Group** button

If you click this button, the **Create Resource Group** dialog box appears.

#### **Edit Resource Group** button

If you select a resource group and then click this button, the **Edit Resource Group** dialog box appears.

#### **Delete Resource Groups** button

If you select a resource group and then click this button, the **Delete Resource Groups** dialog box appears. You can select multiple resource groups at a time.

## Create Resource Group dialog box

Use the **Create Resource Group** dialog box to create a resource group.

To display the **Create Resource Group** dialog box, click the **Create Resource Group** button in the **Resource Groups** view.

**Figure 6-31 Create Resource Group dialog box**

The following items are displayed in this dialog box:

#### **Name** text box

Enter the name of a resource group. The text box allows a maximum of 63 characters.

#### **Description** text box

Enter a brief description of the resource group. The text box allows a maximum of 80 characters.

#### **OK** button

To create a resource group, click this button.

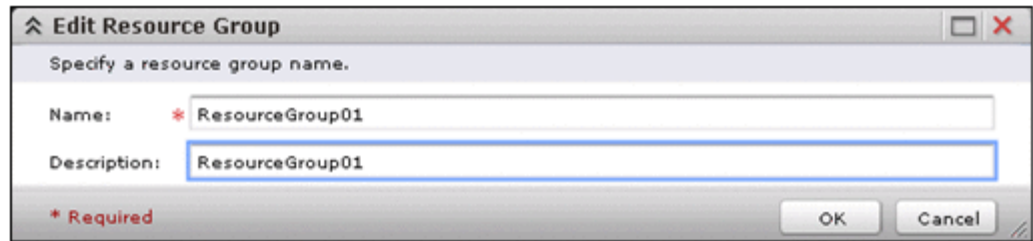
### Cancel button

To close the **Create Resource Group** dialog box, click this button.

## Edit Resource Group dialog box

Use the **Edit Resource Group** dialog box to edit the name and description of a resource group.

To display the **Edit Resource Group** dialog box, select a resource group in the **Resource Groups** view and then click the **Edit Resource Group** button.



**Figure 6-32 Edit Resource Group dialog box**

The following items are displayed in this dialog box:

### Name text box

The name of the resource group is displayed here. Enter a new name for the resource group. The text box allows a maximum of 63 characters.

### Description text box

A brief description of the resource group is displayed here. Enter a new description for the resource group. The text box allows a maximum of 80 characters.

### OK button

To apply the changes made to the resource group, click this button.

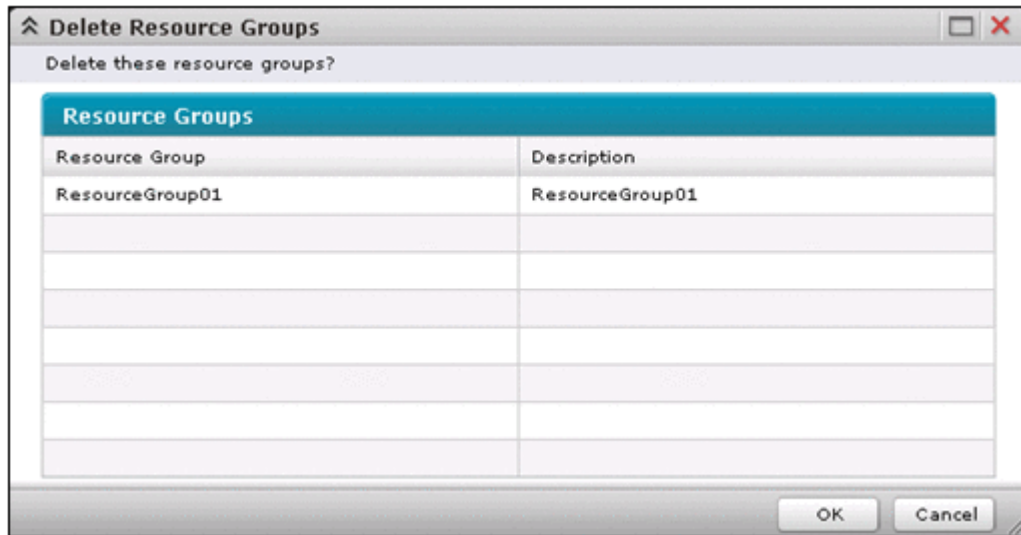
### Cancel button

To close the **Edit Resource Group** dialog box, click this button.

## Delete Resource Groups dialog box

Use the **Delete Resource Groups** dialog box to delete resource groups.

To display the **Delete Resource Groups** dialog box, select one or more resource groups in the **Resource Groups** view and then click the **Delete Resource Groups** button.



**Figure 6-33 Delete Resource Groups dialog box**

The following items are displayed in this dialog box:

**Resource Groups**

A list of resource groups to be deleted is displayed here. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-27 Items displayed in the list of resource groups (Delete Resource Groups dialog box)**

Display item	Description
Resource Group	Displays the name of each resource group.
Description	Displays a brief description of each resource group.

**OK button**

To delete the resource groups, click this button.

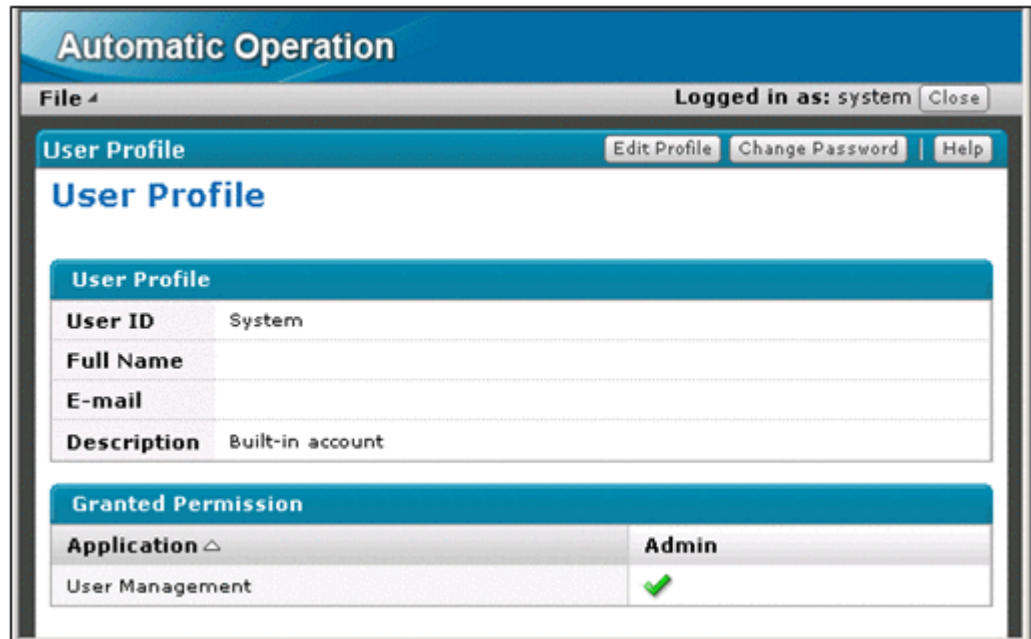
**Cancel button**

To close the **Delete Resource Groups** dialog box, click this button.

## User Profile window

Use the **User Profile** window to check user profile information.

To display the **User Profile** window, select the **User Profile** menu in the **Administration** window.



**Figure 6-34 User Profile window**

The following items are displayed in this window:

**User Profile**

The user profile information is displayed.

**User ID**

The user ID is displayed.

**Full Name**

The full name of the user is displayed.

**E-mail**

The email address of the user is displayed.

**Description**

A brief description of the user is displayed.

**Granted Permission**

A list of permissions granted to the user is displayed. If you click the title of a display item, the data will be sorted in ascending order or in descending order.

**Table 6-28 Items displayed in Granted Permission (User Profile window)**

Display item	Description
Application	Displays the name of the permission specified for the user.
Admin	Displays a check mark if the user is granted User Management permission.

**Edit Profile** button

If you click this button, the **Edit Profile** dialog box appears.

**Change Password** button

If you click this button, the **Change Password** dialog box appears.



# Editor Window

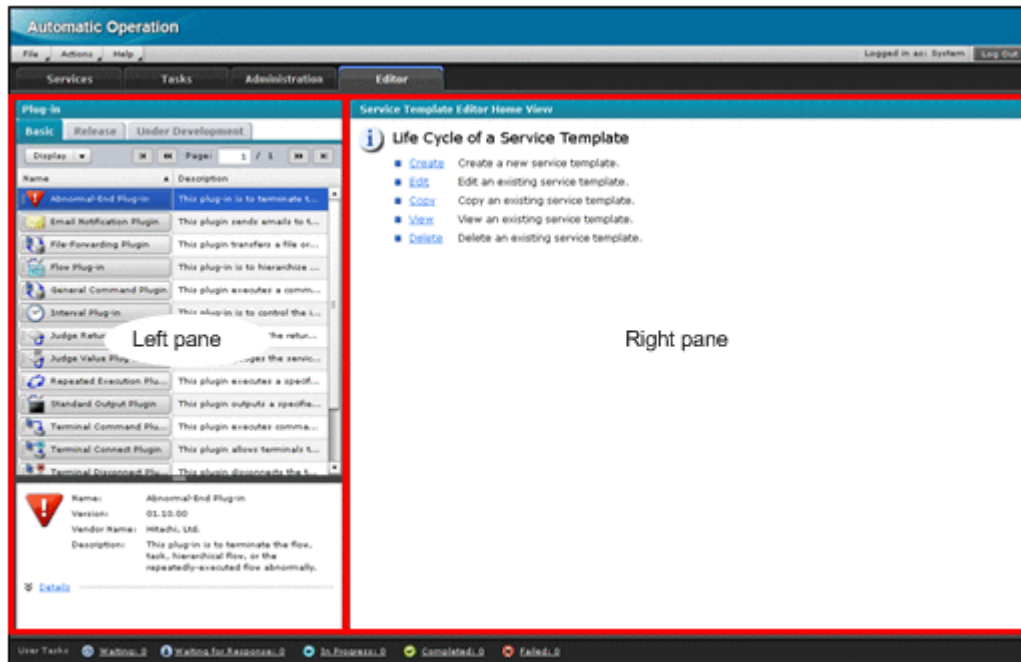
This chapter provides information on the JP1/AO **Editor** window.

- ☐ [Editor window](#)
- ☐ [Plug-in view](#)
- ☐ [Service Template Editor Home view](#)
- ☐ [Service template editing view](#)

## Editor window

Use the **Editor** window to develop service templates and plug-ins.

To display the **Editor** window, select the **Editor** tab in the main window.



**Figure 7-1 Editor window (when the Service Template Editor Home view is displayed in the right pane)**

The following items are displayed in this window:

### Left pane

#### Plug-in view

Use this view to display a list of plug-ins or to develop plug-ins. You can create, edit, copy, or delete plug-ins here.

### Right pane

Either of the following views is displayed depending on your operation:

#### Service Template Editor Home view

Use this view to develop service templates. You can create, edit, copy, view, or delete service templates here. If you click an item, a corresponding window appears.

#### Service template editing view

Use this view to edit a service template. You can add, edit, or delete steps, or you can build or release a service template here. To display the service template editing view, click the **Edit** button in the **Service Template List** dialog box, or click the **Save** button in the **Create**

**Service Template** dialog box or the **Copy Service Template** dialog box.

## Plug-in view

Use the **Plug-in** view to display a list of plug-ins that can be used to edit service templates, or use it to develop plug-ins. To display the **Plug-in** view, select the **Editor** tab in the main window. The **Plug-in** view appears in the left pane of the **Editor** window.



**Figure 7-2 Plug-in view**

The following items are displayed in this view:

### Plug-in type selection area

The plug-in type selection area is composed of the following tabs:

- **Basic** tab  
Displays a list of basic plug-ins.
- **Release** tab  
Displays a list of release plug-ins.
- **Under Development** tab  
Displays a list of development plug-ins.

### Plug-in details display area

This area displays the items below. The plug-in details display area displays detailed information about the plug-in selected in the plug-in type selection area.

**Name**

The name of the plug-in

**Version**

The version of the plug-in

**Vendor Name**

The vendor name of the plug-in

**Description**

A description of the plug-in

**Details**

If you click this, the following information is displayed:

**ID**

The ID of the plug-in

**Vendor ID**

The vendor ID of the plug-in

**Category**

The category of the plug-in

**Credential Type**

The credential type of the plug-in. The credential type is displayed when you select a plug-in in the **Plug-in** view (**Release** tab) or the **Plug-in** view (**Under Development** tab).

**Character Set Auto Judgment (SSH)**

Shows whether character set auto judgment (for SSH) is enabled for the plug-in. **Character Set Auto Judgment (SSH)** is displayed when you select a plug-in in the **Plug-in** view (**Release** tab) or in the **Plug-in** view (**Under Development** tab).

**Input Properties**

Shows the number of input properties defined for the plug-in that was selected in the list of plug-ins.

**Output Properties**

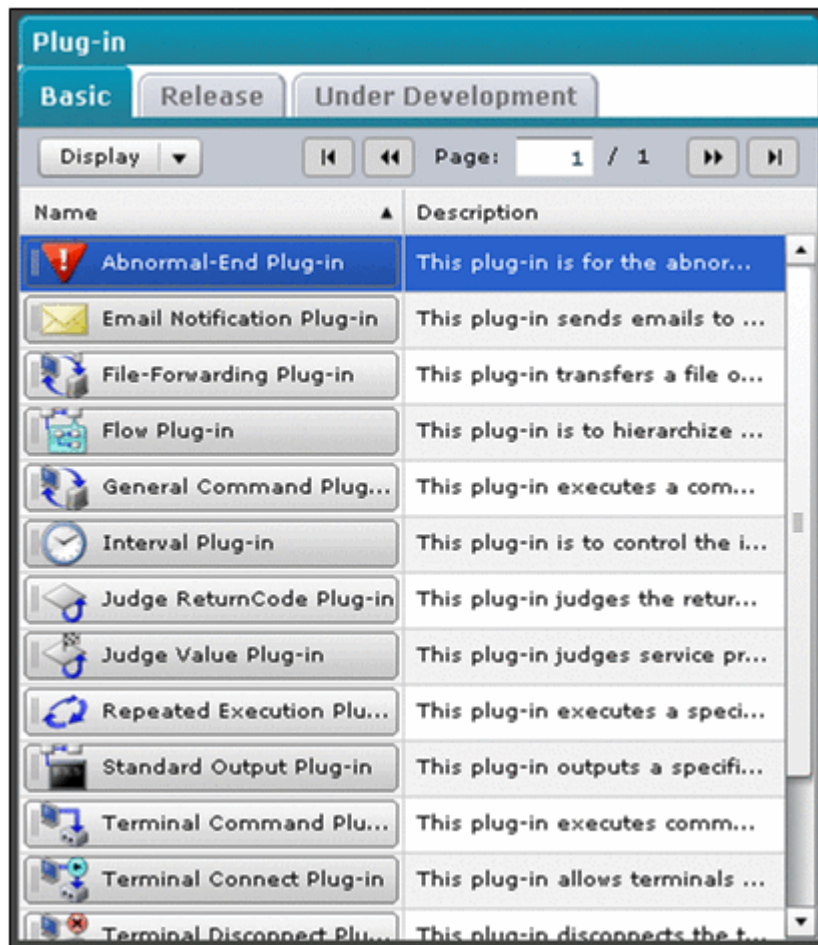
Shows the number of output properties defined for the plug-in that was selected in the list of plug-ins.

**Platform**

Shows the OS running on the device on which the command or script set for the plug-in is to be executed. **Platform** is displayed when you select a plug-in in the **Plug-in** view (**Release** tab) or in the **Plug-in** view (**Under Development** tab).

## Plug-in view (Basic tab)

Use the **Plug-in** view (**Basic** tab) to create or edit service templates by using basic plug-ins. If you select the **Basic** tab, a list of basic plug-ins is displayed.



**Figure 7-3 Plug-in view (Basic tab)**

The following items are displayed in this view:

### **Display** list box

Select how to display a list of plug-ins.

- **Display Latest Version**

If you select this check box, only the latest versions of individual plug-ins are displayed. If you deselect this check box, all plug-ins are displayed.

- **Display *number-of-rows* Rows Per Page**

Select the number of rows displayed per page. For *number-of-rows*, you can select **30**, **50**, **100**, **250**, or **500**.

### List of plug-ins

A list of basic plug-ins is displayed. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-1 Items displayed in the list of plug-ins (Plug-in view (Basic tab))**

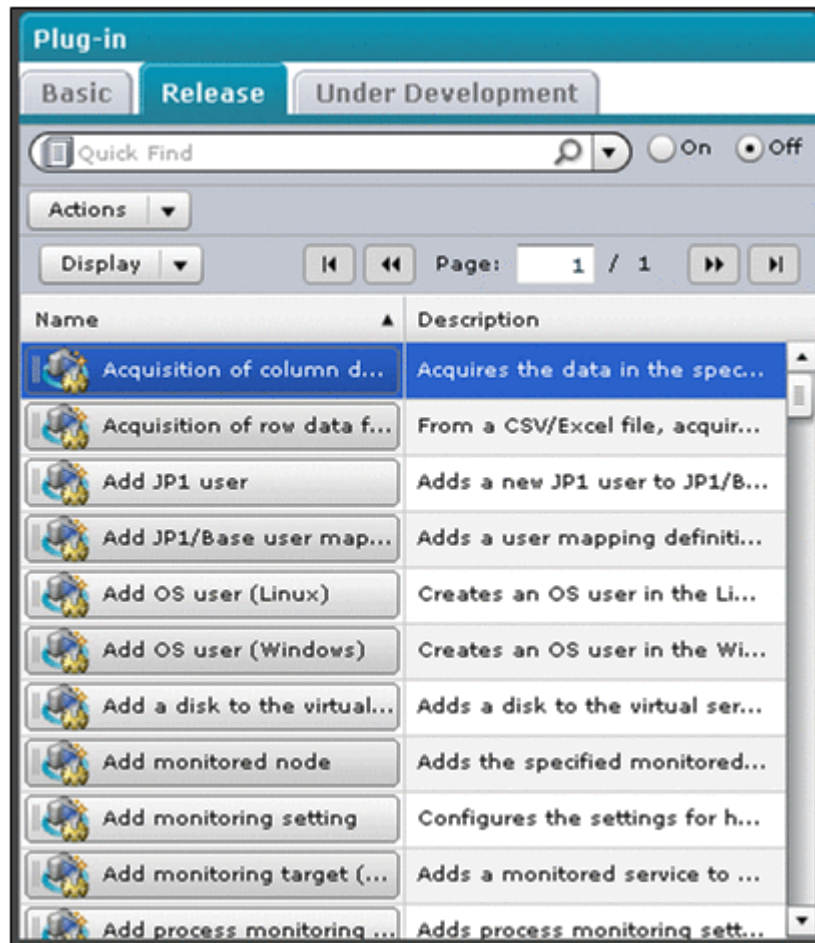
Display item	Description
<b>Name</b>	Displays the name of each plug-in.
<b>Version<sup>#</sup></b>	Displays the version of each plug-in.
<b>Description</b>	Displays a brief description of each plug-in.

#

**Version** is displayed only when the **Display Latest Version** check box is not selected in the **Display** list box.

## Plug-in view (Release tab)

Use the **Plug-in** view (**Release** tab) to create or edit service templates by using release plug-ins. If you select the **Release** tab, a list of release plug-ins is displayed.



**Figure 7-4 Plug-in view (Release tab)**

The following items are displayed in this view:

**Quick Find text box**

Enter a search term. You can enter a maximum of 256 characters.

**On** radio button

If you select this radio button, the search result is applied to the list.

**Off** radio button

If you select this radio button, the search result is not applied to the list, and all plug-ins are displayed.

**Actions** list box

Specify an operation you want to perform for the plug-in.

- **Copy**

To copy the selected plug-in, select this option. If you select this option, the **Copy Plug-in** dialog box appears.

**Display** list box

Select how to display a list of plug-ins.

- **Display Latest Version**

If you select this check box, only the latest versions of individual plug-ins are displayed. If you deselect this check box, all plug-ins are displayed.

- **Display *number-of-rows* Rows Per Page**

Select the number of rows displayed per page. For *number-of-rows*, you can select **30**, **50**, **100**, **250**, or **500**.

List of plug-ins

A list of release plug-ins is displayed. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-2 Items displayed in the list of plug-ins (Plug-in view (Release tab))**

Display item	Description
<b>Name</b>	Displays the name of each plug-in.
<b>Version<sup>#</sup></b>	Displays the version of each plug-in.
<b>Description</b>	Displays a brief description of each plug-in.

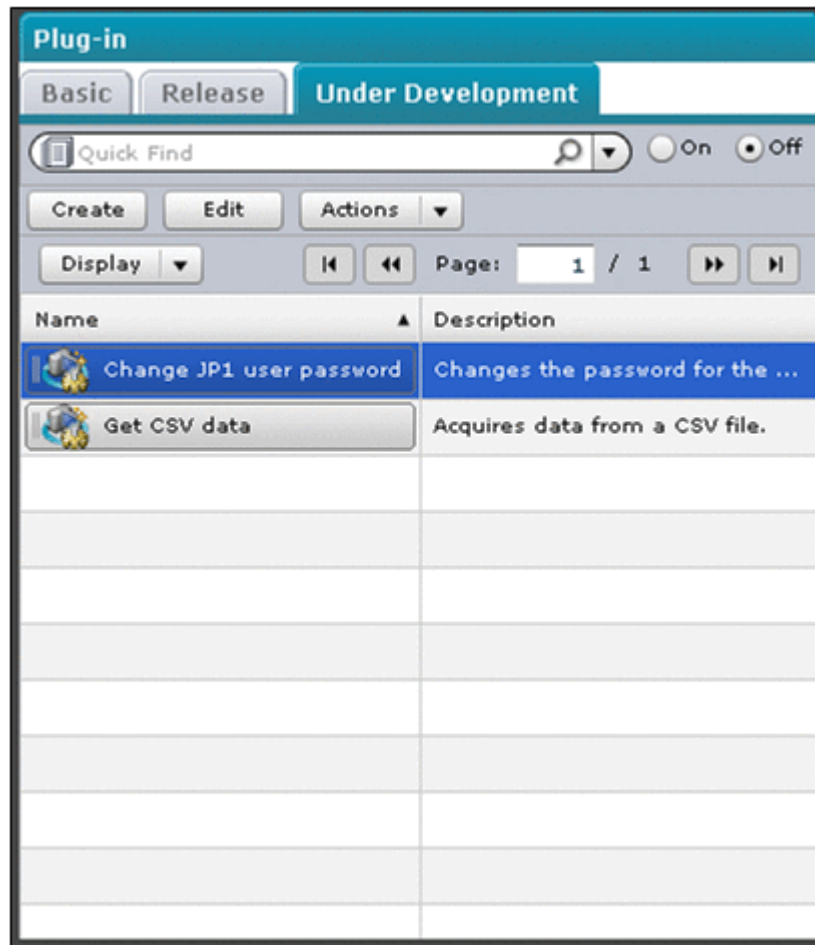
<sup>#</sup>

**Version** is displayed only when the **Display Latest Version** check box is not selected in the **Display** list box.

## Plug-in view (Under Development tab)

Use the **Plug-in** view (**Under Development** tab) to create plug-ins, or to create or edit service templates by using the plug-ins you created. If you

select the **Under Development** tab, a list of development plug-ins is displayed.



**Figure 7-5 Plug-in view (Under Development tab)**

The following items are displayed in this view:

Quick Find text box

Enter a search term. You can enter a maximum of 256 characters.

**On** radio button

If you select this radio button, the search result is applied to the list.

**Off** radio button

If you select this radio button, the search result is not applied to the list, and all plug-ins are displayed.

**Create** button

To create a plug-in, click this button. If you click this button, the **Create Plug-in** dialog box appears.

**Edit** button

To edit a plug-in, click this button. If you click this button, the **Edit Plug-in** dialog box appears.



### Actions list box

Specify an operation you want to perform on the plug-in.

- **Set Resources**  
To specify a resource file for the selected plug-in, select this option. If you select this option, the **Set the Plug-in Resources** dialog box appears.
- **Copy**  
To copy the selected plug-in, select this option. If you select this option, the **Copy Plug-in** dialog box appears.
- **Delete**  
To delete the selected plug-in, select this option. If you select this option, a confirmation dialog box appears. If you click the **OK** button, the plug-in is deleted.

### Display list box

Select how to display a list of plug-ins.

- **Display Latest Version**  
If you select this check box, only the latest versions of individual plug-ins are displayed. If you deselect this check box, all plug-ins are displayed.
- **Display *number-of-rows* Rows Per Page**  
Select the number of rows displayed per page. For *number-of-rows*, you can select **30**, **50**, **100**, **250**, or **500**.

### List of plug-ins

A list of development plug-ins is displayed. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-3 Items displayed in the list of plug-ins (Plug-in view (Under Development tab))**

Display item	Description
<b>Name</b>	Displays the name of each plug-in.
<b>Version<sup>#</sup></b>	Displays the version of each plug-in.
<b>Description</b>	Displays a brief description of each plug-in.

<sup>#</sup>

**Version** is displayed only when the **Display Latest Version** check box is not selected in the **Display** list box.

## Copy Plug-in dialog box

Use the **Copy Plug-in** dialog box to copy the selected plug-in. To display the **Copy Plug-in** dialog box, in the **Plug-in** view (**Release** tab) or in the **Plug-in** view (**Under Development** tab), select **Copy** in the **Actions** list box.

**Figure 7-6 Copy Plug-in dialog box**

The following items are displayed in this dialog box:

**ID** text box

Enter the ID of the plug-in. The text box allows a maximum of 64 characters. Specify the ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 115.

**Version** text box

Enter the version number of the plug-in as *major-version-number.minor-version-number.revision-number*. Specify each of the numbers in the range from 00 to 99.

**Vendor ID** text box

Enter the vendor ID of the plug-in. The text box allows a maximum of 64 characters. Specify the vendor ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 115.

**Name** text box

Enter the name of the plug-in. The text box allows a maximum of 64 characters.

**Vendor Name** text box

Enter the name of the plug-in's vendor. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the plug-in. The text box allows a maximum of 256 characters.

**Category** text box

Enter the category name of the plug-in. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use maximum of 10 layers for a category name. If you want to enter the plug-in in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

**Save** button

If you click this button, the selected plug-in is copied and the **Edit Plug-in** dialog box appears.

**Cancel** button

Click this button to close the **Copy Plug-in** dialog box.



**Caution:** You cannot copy the selected plug-in unless you change **ID**, **Version**, or **Vendor ID**.

---

## Create Plug-in dialog box

Use the **Create Plug-in** dialog box to create a plug-in. To display the **Create Plug-in** dialog box, click the **Create** button in the **Plug-in** view (**Under Development** tab).

Create Plug-in

Specify a definition information for the plug-in. The remote command setting information is required. Drag and drop one or more rows to change the alignment sequence of input and output properties.

Plug-in

ID

Version

Vendor ID

Name

Vendor Name

Description


Category

Plug-in Icon

Credential Type

Character Set Auto Judgment (SSH)

01.00.00



Destination

Property

Enabled

Back to the Default

Change

Input Properties

Key	Name	Description
plugin.destinationHost	Destination host	For this property, specify the IPv4 addre...

Add

Edit

Remove

Output Properties

Key	Name	Description

Add

Edit

Remove

Remote Command

Windows	Do not Submit	<div>Edit</div>
Linux	Do not Submit	<div>Edit</div>

\* Required

Save

Cancel

**Figure 7-7 Create Plug-in dialog box**

The following items are displayed in this dialog box:

### Plug-in

Use this section to specify definition information of a plug-in.

#### ID text box

Enter the ID of the plug-in. The text box allows a maximum of 64 characters. Specify the ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 115.

#### Version text box

Enter the version number of the plug-in as *major-version-number.minor-version-number.revision-number*. Specify each of the numbers in the range from 00 to 99.

**Vendor ID** text box

Enter the vendor ID of the plug-in. The text box allows a maximum of 64 characters. Specify the vendor ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 115.

**Name** text box

Enter the name of the plug-in. The text box allows a maximum of 64 characters.

**Vendor Name** text box

Enter the name of the plug-in's vendor. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the plug-in. The text box allows a maximum of 256 characters.

**Category** text box

Enter the category name of the plug-in. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use maximum of 10 layers for a category name. If you want to enter the plug-in in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

**Plug-in Icon**

Displays the icon specified for the plug-in.

**Back to the Default** button

If you click this button, the icon set for the plug-in changes back to the default.

**Change** button

If you click this button, a dialog box used to select a plug-in icon file to be uploaded appears. In this dialog box, you can change the icon for the plug-in. You can select a png file for the plug-in icon.

**Credential Type** radio button

Select one of the following credential types for the plug-in:

- **Destination**

Select this option if you want to use the credential information set in the **Connection Destinations** view when the service is executed.

- **Property**

Select this option if you want to specify the credential information as an input property.

### Character Set Auto Judgment (SSH) check box

If you select this check box, character set auto judgment (for SSH) will be enabled. For details about character set auto judgement, see *Locale set for operation target devices during plug-in execution* in the *Job Management Partner 1/Automatic Operation Service Template Developer's Guide*.

### Input Properties

Click this to display a list of input properties.

### Input Properties

This section displays a list of input properties for the plug-in.

**Table 7-4 Items displayed in Input Properties (Create Plug-in dialog box)**

Display item	Description
<b>Key</b>	Displays the property key for each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.

### Add button

To create an input property, click this button. If you click this button, the **Create Input Property for Plug-in** dialog box appears.

### Edit button

To edit the selected input property, click this button. If you click this button, the **Edit Input Property for Plug-in** dialog box appears.

### Remove button

To delete the selected input property, click this button. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the property is deleted.

### Output Properties

Click this to display a list of output properties.

### Output Properties

This section lists the output properties of the plug-in.

**Table 7-5 Items displayed in Output Properties (Create Plug-in dialog box)**

Display item	Description
<b>Key</b>	Displays the property key for each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.

**Add** button

To create an output property, click this button. If you click this button, the **Create Output Property for Plug-in** dialog box appears.

**Edit** button

To edit the selected output property, click this button. If you click this button, the **Edit Output Property for Plug-in** dialog box appears.

**Remove** button

To delete the selected output property, click this button. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the property is deleted.

**Remote Command**

Use this section to set the execution mode of the remote command for each OS on the target devices.

**Windows**

Displays the execution mode of the remote command for Windows.

**Edit** button

To edit the remote command for Windows, click this button. If you click this button, the **Edit Remote Command** dialog box for Windows appears.

**Linux**

Displays the execution mode of the remote command for Linux.

**Edit** button

To edit the remote command for Linux, click this button. If you click this button, the **Edit Remote Command** dialog box for Linux appears.

**Save** button

Click this button to create the plug-in.

**Cancel** button

Click this button to close the **Create Plug-in** dialog box.


## Edit Plug-in dialog box

Use the **Edit Plug-in** dialog box to edit the definition information of a plug-in. To display the **Edit Plug-in** dialog box, click the **Edit** button in the **Plug-in** view (**Under Development** tab), or click the **Save** button in the **Copy Plug-in** dialog box.

Edit Plug-in

Specify a definition information for the plug-in. The remote command setting information is required. Drag and drop one or more rows to change the alignment sequence of input and output properties.

Plug-in

ID	osReadSpreadSheet
Version	01.02.02
Vendor ID	test
Name	* Get CSV data
Vendor Name	
Description	Acquires data from a CSV file.
Category	* OperatingSystem/Windows/Basic
Plug-in Icon	 <div>Back to the DefaultChange</div>
Credential Type	<input checked="" type="radio"/> Destination <input type="radio"/> Property
Character Set Auto Judgment (SSH)	<input type="checkbox"/> Enabled

Input Properties

Key	Name	Description
plugin.destinationHost	Host name of the execution target server	Specify the host name or IP address of...
common.fileName	File name	Specify the file name.
odbc.Column1	Column number 1	Specifies the column number of the da...
odbc.Column2	Column number 2	Specifies the column number of the da...
odbc.Column3	Column number 3	Specifies the column number of the da...
odbc.Column4	Column number 4	Specifies the column number of the da...

AddEditRemove

Output Properties

Key	Name	Description
odbc.OutputValue1	Data 1	Specifies the acquired data.
odbc.OutputValue2	Data 2	Specifies the acquired data.
odbc.OutputValue3	Data 3	Specifies the acquired data.
odbc.OutputValue4	Data 4	Specifies the acquired data.
odbc.OutputValue5	Data 5	Specifies the acquired data.
common.returnValue	Return value for the plugin	The return value of this plugin stored.

AddEditRemove

Remote Command

Windows	Script	Edit
Linux	Do not Submit	Edit

\* Required

SaveCancel

**Figure 7-8 Edit Plug-in dialog box**

The following items are displayed in this dialog box:

### Plug-in

Use this section to specify the definition information of the plug-in you are editing.

#### ID

Shows the ID of the plug-in.

#### Version

Shows the version number of the plug-in.

#### Vendor ID



Shows the vendor ID of the plug-in.

**Name** text box

Enter the name of the plug-in. The text box allows a maximum of 64 characters.

**Vendor Name** text box

Enter the name of the plug-in's vendor. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the plug-in. The text box allows a maximum of 256 characters.

**Category** text box

Enter the category name of the plug-in. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use maximum of 10 layers for a category name. If you want to enter a plug-in in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

**Plug-in Icon**

The icon specified for the plug-in is displayed.

**Back to the Default** button

If you click this button, the icon set for the plug-in changes back to the default.

**Change** button

If you click this button, a dialog box used to select a plug-in icon file to be uploaded appears. In this dialog box, you can change the icon for the plug-in. You can select a png file for the plug-in icon.

**Credential Type** radio button

Select one of the following credential types:

- **Destination**  
Select this option if you want to use the credential information set in the **Connection Destinations** view when the service is executed.
- **Property**  
Select this option if you want to specify the credential information as an input property.

**Character Set Auto Judgment (SSH)** check box

If you select this check box, character set auto judgment (for SSH) will be enabled. For details about character set auto judgement, see *Locale set for operation target devices during plug-in execution* in the *Job Management Partner 1/Automatic Operation Service Template Developer's Guide*.

## Input Properties

Click this to display a list of input properties.

## Input Properties

This section lists the input properties of the plug-in.

**Table 7-6 Items displayed in Input Properties (Edit Plug-in dialog box)**

Display item	Description
<b>Key</b>	Displays the property key for each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.

### Add button

To create an input property, click this button. If you click this button, the **Create Input Property for Plug-in** dialog box appears.

### Edit button

To edit the selected input property, click this button. If you click this button, the **Edit Input Property for Plug-in** dialog box appears.

### Remove button

To delete the selected input property, click this button. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the property is deleted.

## Output Properties

Click this to display a list of output properties.

## Output Properties

This section lists the output properties of the plug-in.

**Table 7-7 Items displayed in Output Properties (Edit Plug-in dialog box)**

Display item	Description
<b>Key</b>	Displays the property key for each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.

### Add button

To create an output property, click this button. If you click this button, the **Create Output Property for Plug-in** dialog box appears.

### Edit button

To edit the selected output property, click this button. If you click this button, the **Edit Output Property for Plug-in** dialog box appears.

### Remove button

To delete the selected output property, click this button. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the property is deleted.

## Remote Command

This section displays execution mode for each OS running on the target devices of the remote command.

### Windows

Displays the execution mode of the remote command for Windows.

#### Edit button

To edit the remote command for Windows, click this button. If you click this button, the **Edit Remote Command** dialog box for Windows appears.

### Linux

Displays the execution mode of the remote command for Linux.

#### Edit button

To edit the remote command for Linux, click this button. If you click this button, the **Edit Remote Command** dialog box for Linux appears.

#### Save button

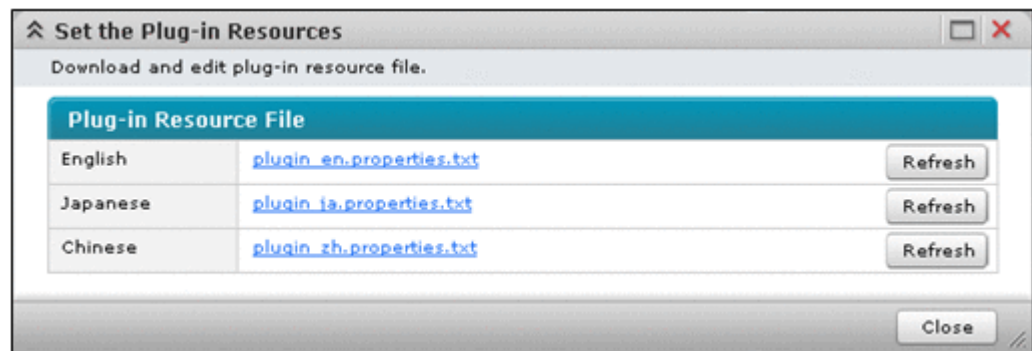
Click this button to apply the changes.

#### Cancel button

Click this button to close the **Edit Plug-in** dialog box.

## Set the Plug-in Resources dialog box

Use the **Set the Plug-in Resources** dialog box to upload or download a plug-in resource file. To display the **Set the Plug-in Resources** dialog box, in the **Plug-in** view (**Under Development** tab), select **Set Resources** in the **Actions** list box.



**Figure 7-9 Set the Plug-in Resources dialog box**

This dialog box displays the following items:

## Plug-in Resource File

The plug-in resource file is displayed and applied when the plug-in is displayed in each language environment.

### Japanese

The name of the plug-in resource file is displayed and applied when the plug-in is displayed in a Japanese environment. The file can be downloaded by clicking the file name.

### English

The name of the plug-in resource file is displayed and applied when the plug-in is displayed in an English environment. The file can be downloaded by clicking the file name.

### Chinese

The name of the plug-in resource file is displayed and applied when the plug-in is displayed in a Chinese environment. The file can be downloaded by clicking the file name.

### Refresh button

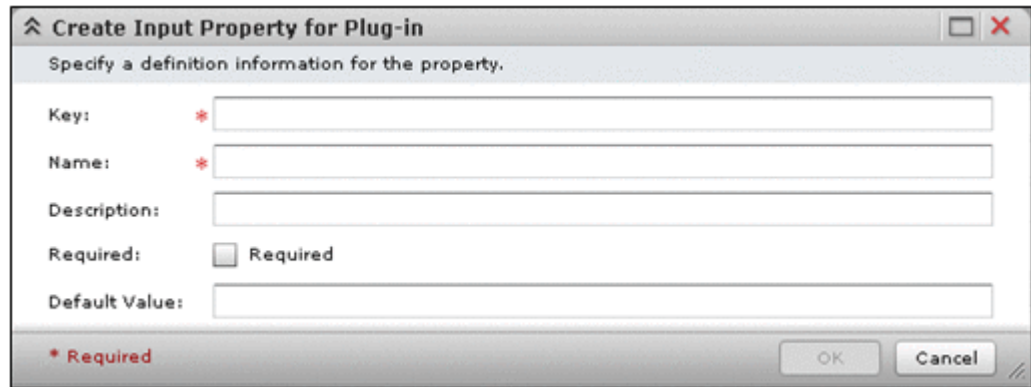
If you click this button, a dialog box used to upload an edited plug-in resource file is displayed. In this dialog box, if you select a file and click the **Open** button, a message dialog box appears confirming whether you want to update the file. If you click the **OK** button, the file is updated. The only name that can be registered for a plug-in resource file is "plugin\_ja.properties.txt" in a Japanese environment, "plugin\_en.properties.txt" in an English environment, or "plugin\_zh.properties.txt" in a Chinese environment.

### Close button

Click this button to close the **Set the Plug-in Resources** dialog box.

## Create Input Property for Plug-in dialog box

Use the **Create Input Property for Plug-in** dialog box to add an input property to the plug-in. To display the **Create Input Property for Plug-in** dialog box, in the **Create Plug-in** dialog box or in the **Edit Plug-in** dialog box, click the **Add** button in the **Input Properties** section.



**Figure 7-10 Create Input Property for Plug-in dialog box**

This dialog box displays the following items:

**Key** text box

Enter a property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Required** check box

Sets whether a value must be entered for the property. Select this check box to require a value to be entered for the property.

**Default Value** text box

Enter the default value for the property. The text box allows a maximum of 1,024 characters.

**OK** button

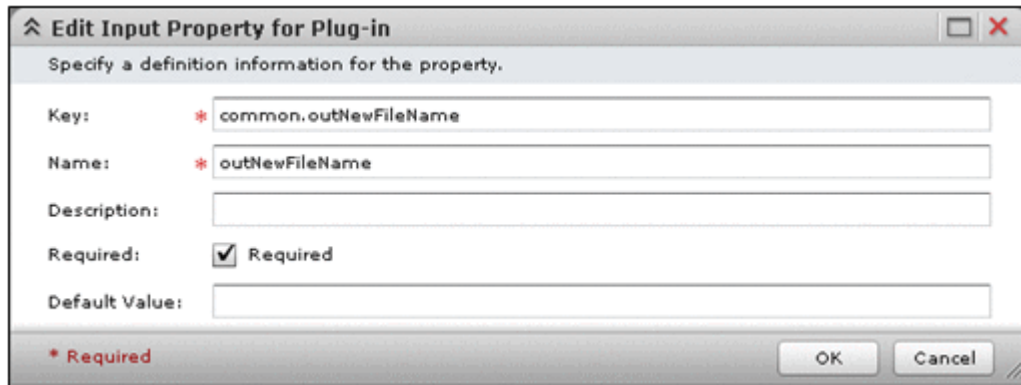
Click this button to add the input property.

**Cancel** button

Click this button to close the **Create Input Property for Plug-in** dialog box.

## **Edit Input Property for Plug-in dialog box**

Use the **Edit Input Property for Plug-in** dialog box to edit an input property defined for the plug-in. To display the **Edit Input Property for Plug-in** dialog box, in the **Create Plug-in** dialog box or in the **Edit Plug-in** dialog box, click the **Edit** button in the **Input Properties** section.



**Figure 7-11 Edit Input Property for Plug-in dialog box**

This dialog box displays the following items:

**Key** text box

Enter a property key. The text box allows a maximum of 128 characters. If you select a reserved plug-in property, you cannot edit the **Key** text box.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Required** check box

Sets whether a value must be entered for the property. Select this check box to require a value to be entered for the property. If you select a reserved plug-in property, you cannot select the **Required** check box.

**Default Value** text box

Enter the default value for the property. The text box allows a maximum of 1,024 characters.

**OK** button

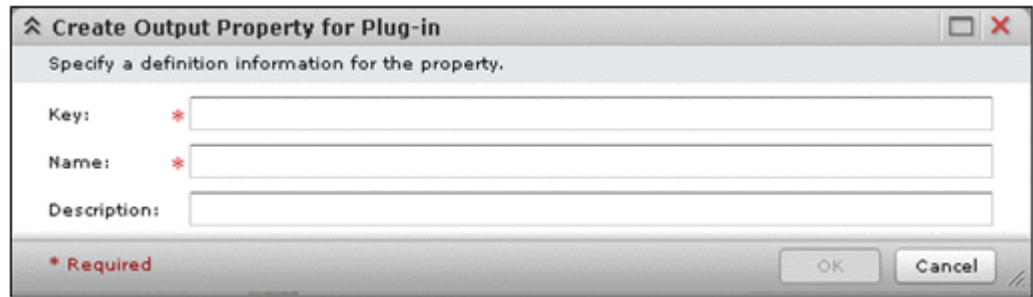
Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Input Property for Plug-in** dialog box.

## Create Output Property for Plug-in dialog box

Use the **Create Output Property for Plug-in** dialog box to add an output property to the plug-in. To display the **Create Output Property for Plug-in** dialog box, in the **Create Plug-in** dialog box or in the **Edit Plug-in** dialog box, click the **Add** button in the **Output Properties** section.



**Figure 7-12 Create Output Property for Plug-in dialog box**

This dialog box displays the following items:

**Key** text box

Enter a property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**OK** button

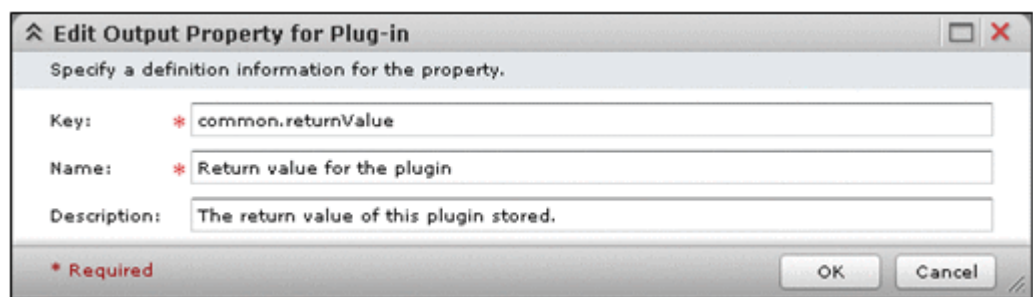
Click this button to add the output property to the plug-in.

**Cancel** button

Click this button to close the **Create Output Property for Plug-in** dialog box.

## Edit Output Property for Plug-in dialog box

Use the **Edit Output Property for Plug-in** dialog box to edit an output property defined for the plug-in. To display the **Edit Output Property for Plug-in** dialog box, in the **Create Plug-in** dialog box or in the **Edit Plug-in** dialog box, click the **Edit** button in the **Output Properties** section.



**Figure 7-13 Edit Output Property for Plug-in dialog box**

This dialog box displays the following items:

**Key** text box

Enter a property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**OK** button

Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Output Property for Plug-in** dialog box.

## Edit Remote Command dialog box

Use the **Edit Remote Command** dialog box to set the remote command that the plug-in will execute. To display the **Edit Remote Command** dialog box, in the **Create Plug-in** dialog box or in the **Edit Plug-in** dialog box, click the **Edit** button in the Remote Command section.

Specify a definition information for the remote command. Standard output and standard error output will be stored in the output property. When you store only a part, set an output filter.

Platform: Windows

Execution Mode: ☒ Script ☐ Command ☐ Do not Submit

Command line: \* osReadSpreadSheet.bat "%dna\_common.fileName%" "%dna\_odbc.Column1%" "%dr" [Insert All Input Properties](#)

Setting the Scripts: ☒ Attachment ☐ Direct Input

File: \* windows.zip [Select](#)

Key	Name	Description	Output Filter
odbc.OutputValue1	Data 1	Specifies the acquired data.	Column1:(.*)
odbc.OutputValue2	Data 2	Specifies the acquired data.	Column2:(.*)
odbc.OutputValue3	Data 3	Specifies the acquired data.	Column3:(.*)

[Specify the Details](#)

Execution Directory:

Name	Value
No Data	

[Add](#) [Edit](#) [Remove](#)

\* Required

[OK](#) [Cancel](#)

**Figure 7-14 Edit Remote Command dialog box (when Script is selected for Execution Mode and Attachment is selected for Setting the Scripts)**

This dialog box displays the following items:



## Platform

Shows the OS on the target devices of the remote command.

## Execution Mode radio button

Select the execution mode of the remote command.

- **Script**  
To select a script created by a user, select this option.
- **Command**  
To select a command stored on the operation-target device, select this option.
- **Do not Submit**  
Not to execute a remote command, select this option.

## Command line text box

Enter a command line. The text box allows a maximum of 8,192 characters. The **Command line** text box is displayed when you select either **Script** or **Command** for the **Execution Mode** radio button.

## Insert All Input Properties button

If you click this button, all input properties defined for the plug-in are input to the **Command line** text box in the format of `?dna_property-key-1? ?dna_property-key-2?...`. The **Insert All Input Properties** button is displayed when you select **Script** or **Command** for the **Execution Mode** radio button.

## Setting the Scripts radio button

Select how to set the script. The **Setting the Scripts** radio button is displayed when you select **Script** for the **Execution Mode** radio button.

- **Attachment**  
To attach a script, select this option.
- **Direct Input**  
To directly enter the script, select this option.

## File

Shows the file name of the script to be attached.

If the script file has already been uploaded, you can download the file by clicking the file name. **File** is displayed when you select **Attachment** for the **Setting the Scripts** radio button.

## Select button

If you click this button, a dialog box appears that is used to select a script file to be attached. Specify a script file with a name that has no more than 90 characters. (If you specify a zip file, the relative path to the script file in the zip file must have no more than 90 characters.) Also, the total number of characters entered in the **ID**, **Vendor ID**, and **File Name** text boxes must be no more than 123. (If you specify a zip file, the relative path to the script file in the zip file must be assumed as the file name. Then the total must be no more than 123 characters.)

The **Select** button is displayed when you select **Attachment** for the **Setting the Scripts** radio button.

#### **File Name** text box

Enter the file name of the script that you entered in the **Script** text box. The file name must have no more than 90 characters. Also, the total number of characters entered in the **ID**, **Vendor ID**, and **File Name** text boxes must be no more than 123. The script whose name you entered in the **Script** text box will be uploaded with the file name set in the **File Name** text box. The **File Name** text box is displayed when you select **Direct Input** for the **Setting the Scripts** radio button.

#### **Script** text box

Enter the name of a script you want to execute on the operation-target device. The text box allows a maximum of 5,000 characters. The script whose name you entered in the **Script** text box will be uploaded with the file name set in the **File Name** text box. The **Script** text box is displayed when you select **Direct Input** for the **Setting the Scripts** radio button.

#### **Mapping Definition of Output Properties**

This section lists the mapping definitions of output properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-8 Items displayed in Mapping Definition of Output Properties (Edit Remote Command dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays the description of each output property.
<b>Output Filter</b>	Displays the output filter for each output property.

#### **Edit** button

To edit the output filter for the selected output property, click this button. If you click this button, the **Edit Output Filter** dialog box appears.

#### **Specify the Details**

If you click this, the **Execution Directory** text box and a list of environment variables are displayed.

#### **Execution Directory** text box

Enter a directory on the operation-target device. The specified command or script will be executed, targeted to that directory. The text box allows a maximum of 256 characters.

#### **Environment Variable**

This section lists the environment variables required when a command or script is executed. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-9 Items displayed in Environment Variable (Edit Remote Command dialog box)**

Display item	Description
<b>Name</b>	Displays the name of each environment variable.
<b>Value</b>	Displays the variable set for each environment variable.

**Add** button

To create an environment variable, click this button. If you click this button, the **Create Environment Variable** dialog box appears.

**Edit** button

To edit the selected environment variable, click this button. If you click this button, the **Create Environment Variable** dialog box appears.

**Remove** button

To delete the selected environment variable, click this button. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the environment variable is deleted.

**OK** button

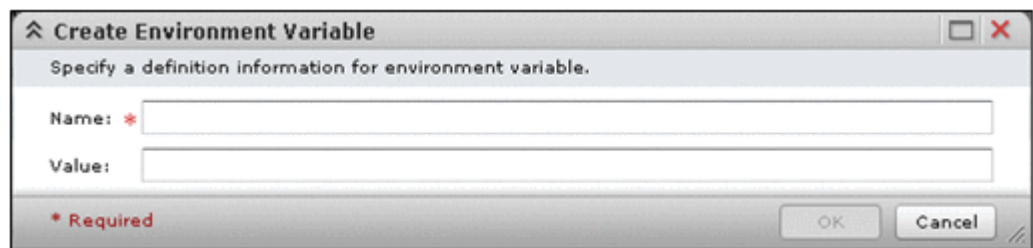
Click this button to apply the changes are applied.

**Cancel** button

Click this button to close the **Edit Remote Command** dialog box.

## Create Environment Variable dialog box

Use the **Create Environment Variable** dialog box to create an environment variable required when the remote command is executed. To display the **Create Environment Variable** dialog box, in **Edit Remote Command** dialog box, click the **Add** button in the Environment Variable section.



**Figure 7-15 Create Environment Variable dialog box**

This dialog box displays the following items:

**Name** text box

Enter the name of the environment variable you are creating. The text box allows a maximum of 256 characters.

**Value** text box

Enter the value of the environment variable you are creating. The text box allows a maximum of 2,048 characters.

**OK** button

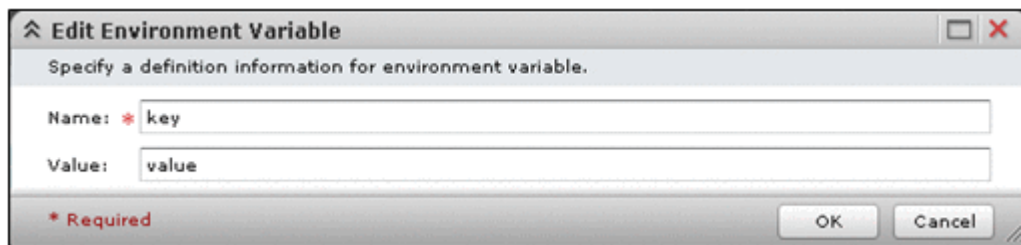
Click this button to add the environment variable.

**Cancel** button

Click this button to close the **Create Environment Variable** dialog box.

## Edit Environment Variable dialog box

Use the **Edit Environment Variable** dialog box to edit an environment variable required when the remote command is executed. To display the **Edit Environment Variable** dialog box, in the **Edit Remote Command** dialog box, click the **Edit** button in the Environment Variable section.



**Figure 7-16 Edit Environment Variable dialog box**

This dialog box displays the following items.

**Name** text box

Enter the name of the environment variable you are editing. The text box allows a maximum of 256 characters.

**Value** text box

Enter the value of the environment variable you are editing. The text box allows a maximum of 2,048 characters.

**OK** button

Click this button to apply the changes.

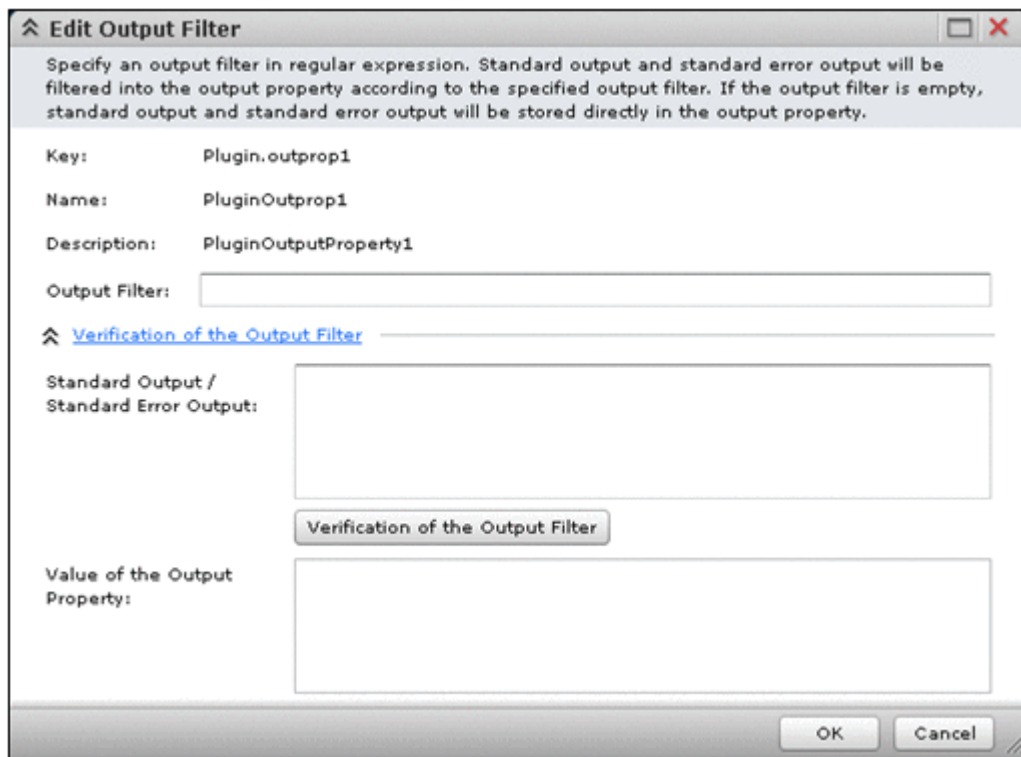
**Cancel** button

Click this button to close the **Edit Environment Variable** dialog box.

## Edit Output Filter dialog box

Use the **Edit Output Filter** dialog box to set an output filter. An output filter is a regular expression used to extract the value to be set as an output property from the standard output value or the standard error output value. To display the **Edit Output Filter** dialog box, in the **Edit Remote Command**

dialog box, click the **Edit** button in the **Mapping Definition of Output Properties** section.



**Figure 7-17 Edit Output Filter dialog box**

This dialog box displays the following items:

**Key**

Shows the property key of the output property.

**Name**

Shows the name of the output property.

**Description**

Shows a brief description of the output property.

**Output Filter** text box

Enter an output filter. The text box allows a maximum of 1,024 characters. Specify a regular expression that conforms to PCRE.

**Verification of the Output Filter**

If you click this, the **Standard Output / Standard Error Output** text box, the **Verification of the Output Filter** button, and the **Value of the Output Property** display area are displayed.

**Standard Output / Standard Error Output** text box

Enter test data to be used for verification of the specified output filter. The text box allows a maximum of 500,000 characters.

**Verification of the Output Filter** button

If you click this button, verification of the output filter starts, using the data entered in the **Standard Output / Standard Error Output** text box.

**Value of the Output Property** display area

Displays the result of verification of the output filter.

**OK** button

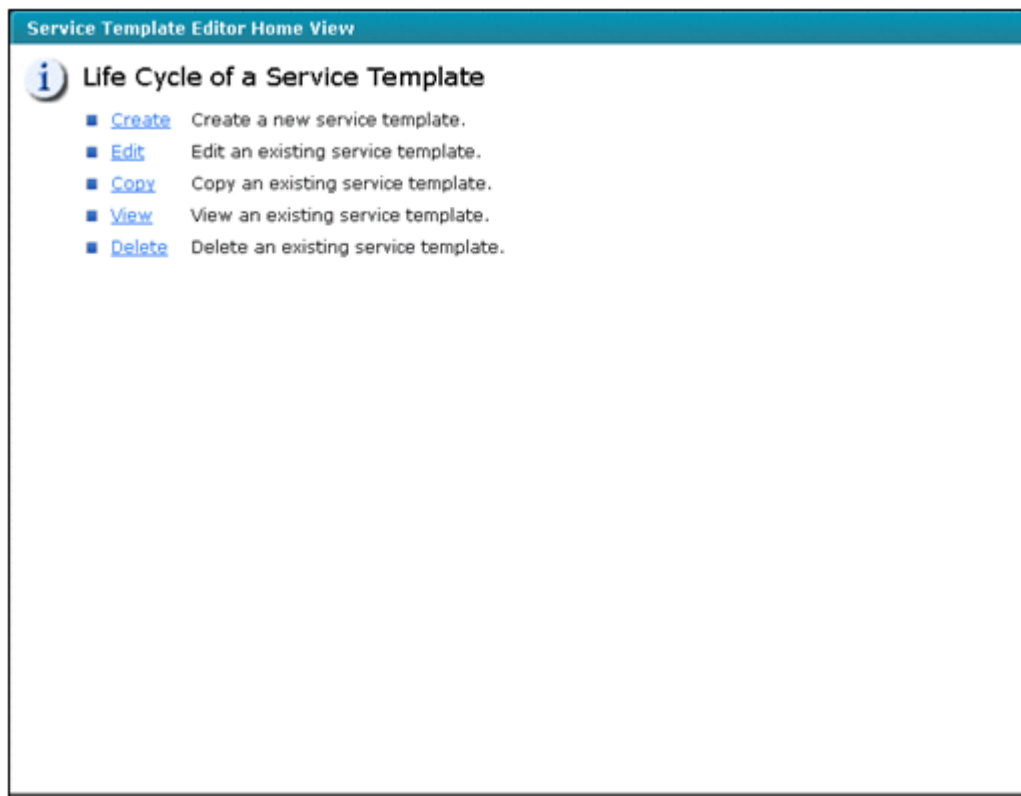
Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Output Filter** dialog box.

## Service Template Editor Home view

Use the **Service Template Editor Home** view to develop service templates. To display the **Service Template Editor Home** view, select the **Editor** tab in the main window. The **Service Template Editor Home** view appears in the right pane of the **Editor** window.



**Figure 7-18 Service Template Editor Home view**

This view displays the following items:

**Create**

To create a service template, click this button. If you click this button, the **Create Service Template** dialog box appears.

### Edit

To edit an existing service template, click this button. If you click this button, the **Service Template List** dialog box appears.

### Copy

To copy an existing service template, click this button. If you click this button, the **Service Template List** dialog box appears.

### View

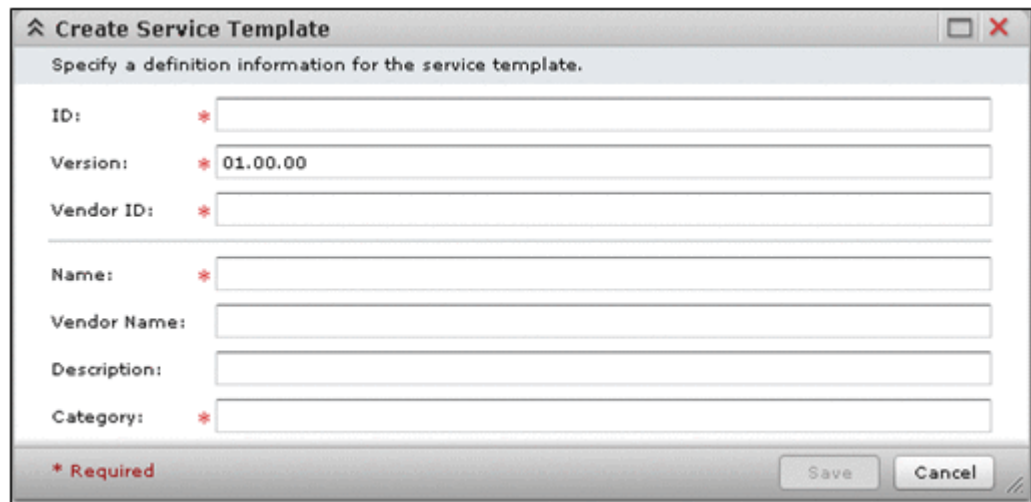
To view an existing service template, click this button. If you click this button, the **Service Template List** dialog box appears.

### Delete

To delete an existing service template, click this button. If you click this button, the **Service Template List** dialog box appears.

## Create Service Template dialog box

Use the **Create Service Template** dialog box to create a service template. To display the **Create Service Template** dialog box, click **Create** in the **Service Template Editor Home** view.



**Figure 7-19 Create Service Template dialog box**

This dialog box displays the following items:

#### ID text box

Enter a service template ID. The text box allows a maximum of 64 characters. Specify the ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 112.

#### Version text box

Enter the version of the service template as *major-version-number.minor-version-number.revision-number*. Specify each of the numbers in the range from 00 to 99.

**Vendor ID** text box

Enter the vendor ID of the service template. The text box allows a maximum of 64 characters. Specify the vendor ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 112.

**Name** text box

Enter the name of the service template. The text box allows a maximum of 64 characters.

**Vendor Name** text box

Enter the name of the service template's vendor. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the service template. The text box allows a maximum of 256 characters.

**Category** text box

Enter the category name of the service template. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use a maximum of 10 layers for a category name. If you want to enter a service template in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

**Save** button

Click this button to create the service template. The service template editing view appears in the right pane of the **Editor** window.

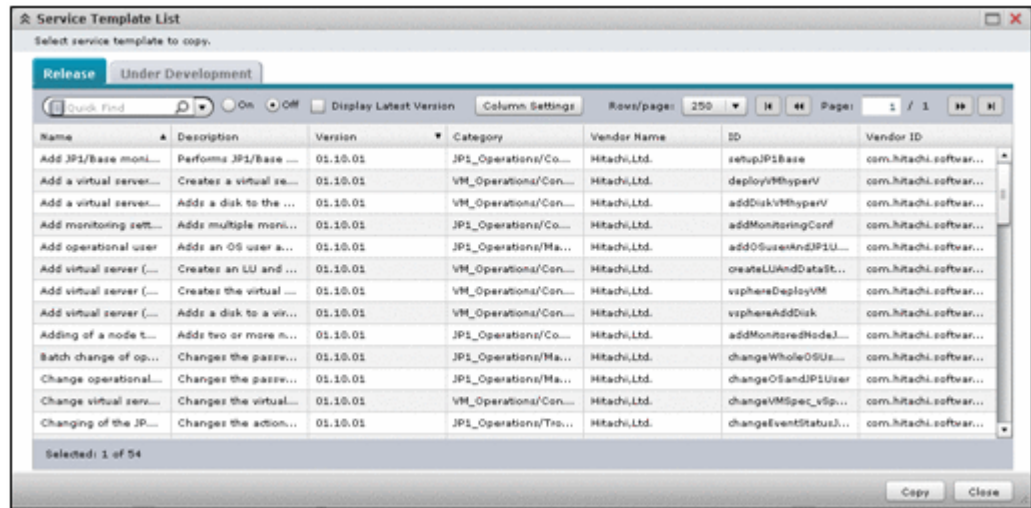
**Cancel** button

Click this button to close the **Create Service Template** dialog box.

## Service Template List dialog box

Use the **Service Template List** dialog box to display a list of service templates, and to select a service template to be edited, copied, viewed, or deleted. To display the **Service Template List** dialog box, in the **Service Template Editor Home** view, click **Create**, **Copy**, **View**, or **Delete**, or in the service template editing view, select **View** in the **Actions** list box.





**Figure 7-20 Service Template List dialog box (when displayed by clicking Copy in the Service Template Editor Home view)**

This dialog box displays the following items:

#### **Release** tab

If you click this tab, a list of release service templates is displayed. To display the **Release** tab, in the **Service Template Editor Home** view, click **Copy** or **View**, or in the service template editing view, select **View** in the **Actions** list box.

#### **Under Development** tab

If you click this tab, a list of development service templates is displayed.

#### **Quick Find** text box

Enter a search term. The text box allows a maximum of 256 characters.

#### **On** radio button

If you select this radio button, the search result is applied to the list.

#### **Off** radio button

If you select this radio button, the search result is not applied to the list, and all service templates are displayed.

#### **Display Latest Version** check box

If you select this check box, only the latest versions of individual service templates are displayed. If you deselect this check box, all service templates are displayed.

#### **Column Settings** button

To select the items to be displayed in the list, click this button. If you click this button, the **Column Settings** dialog box appears.

#### **Rows/page** list box

Select the number of rows (**30**, **50**, **100**, **250**, or **500**) to be displayed per page in the list.

#### **Service Template List**

A list of service templates is displayed. If you click the column title of a display item, the data will be sorted in ascending or descending order. To select the items to be displayed in this list, use the **Column Settings** dialog box.

**Table 7-10 Items displayed in Service Template List (Service Template List dialog box)**

Display item	Displayed by default	Description
<b>Name</b>	Yes	Displays the name of each service template.
<b>Description</b>	Yes	Displays a brief description of each service template.
<b>Version</b>	Yes	Displays the version of each service template.
<b>Category</b>	Yes	Displays the category name of each service template.
<b>Vendor Name</b>	Yes	Displays the vendor name of each service template.
<b>ID</b>	No	Displays the ID of each service template.
<b>Vendor ID</b>	No	Displays the vendor ID of each service template.

Legend:

Yes: Displayed by default, No: Hidden by default

#### **Edit** button

To edit the selected service template, click this button. If you click this button, the **Service Template List** dialog box closes, and the **service template editing** view appears in the right pane of the **Editor** window. The **Edit** button is displayed when the **Service Template List** dialog box is displayed after you click **Edit** in the **Service Template Editor Home** view.

#### **Copy** button

To copy the selected service template, click this button. If you click this button, the **Copy Service Template** dialog box appears. The **Copy** button is displayed when the **Service Template List** dialog box is displayed after you click **Copy** in the **Service Template Editor Home** view.

#### **View** button

To view the selected service template, click this button. If you click this button, the **Service Template List** dialog box closes, and the service template view dialog box appears. The **View** button is displayed when you click **View** in the **Service Template Editor Home** view, or when you click **View** in the **Actions** list box in the service template editing view.

#### **Delete** button

Click this button to delete the selected service template. If you click this button, a confirmation dialog box appears. If you click the **OK** button, the service template is deleted. The **Delete** button is displayed when the **Service Template List** dialog box is displayed after you click **Delete** in the **Service Template Editor Home** view.

#### Close button

Click this button to close the **Service Template List** dialog box.

## Copy Service Template dialog box

Use the **Copy Service Template** dialog box to copy a service template. To display the **Copy Service Template** dialog box, click the **Copy** button in the **Service Template List** dialog box.

**Copy Service Template**

**Information:** The vendor ID and vendor name were deleted because Service Template on the copy source is using the reserved vendor ID. (KNAE00403-I)

Specify a definition information for the service template. You should change at least service template ID or service template version or vendor ID.

ID: \* JP1AJSoutputSchedule

Version: \* 01.10.01

Vendor ID: \*

Name: \* JP1/AJS jobnet scheduled execution results output

Vendor Name:

Description: Outputs the scheduled execution results of a JP1/AJS jobnet to a file.

Category: \* JP1\_Operations/Management

\* Required

Save Cancel

**Figure 7-21 Copy Service Template dialog box**

This dialog box displays the following items:

#### ID text box

Enter the ID of a service template. The text box allows a maximum of 64 characters. Specify the ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 112.

#### Version text box

Enter the version of the service template as *major-version-number.minor-version-number.revision-number*. Specify each of the numbers in the range from 00 to 99.

#### Vendor ID text box

Enter the vendor ID of the service template. The text box allows a maximum of 64 characters. Specify the vendor ID, however, so that the total number of characters entered in the **ID** and **Vendor ID** text boxes is no more than 112.

**Name** text box

Enter the name of the service template. The text box allows a maximum of 64 characters.

**Vendor Name** text box

Enter the name of the service template's vendor. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the service template. The text box allows a maximum of 256 characters.

**Category** text box

Enter the category name of the service template. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use a maximum of 10 layers for a category name. If you want to enter a service template in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

**Save** button

Click this button to copy the service template. The service template editing view appears on the right pane of the **Editor** window.

**Cancel** button

Click this button to close the **Copy Service Template** dialog box.

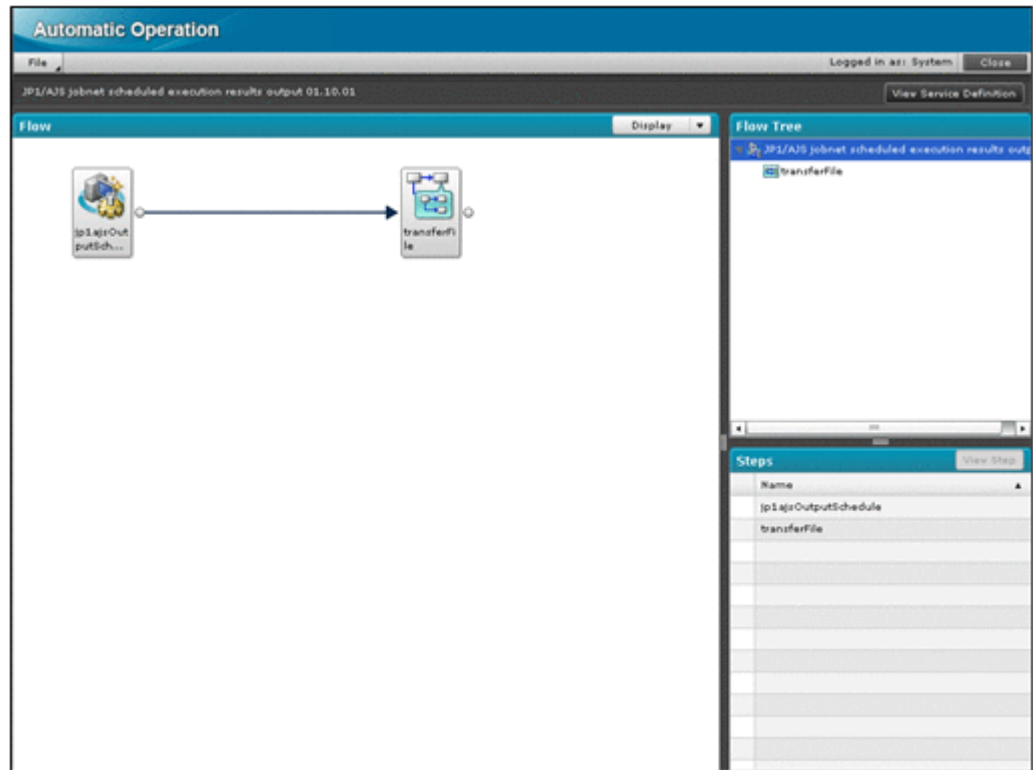


**Caution:** You cannot copy the selected service template unless you change **ID**, **Version**, or **Vendor ID**.

---

## Service template view dialog box

Use the service template view dialog box to view the definitions of a service template. To display the service template view dialog box, click the **View** button in the **Service Template List** dialog box.



**Figure 7-22 Service template view dialog box**

This dialog box displays the following items:




**Tip:** The service template view dialog box is read only. You cannot change the settings here.

#### **View Service Definition** button

Click this button to view the definition information of a service. The **View Service Definition** dialog box appears.

#### **Flow** view

Displays the order of execution steps. If you double-click a step that uses a **flow plug-in** or a **repeated execution plug-in**, the underlying flow is displayed. If you double-click another type of step, the **View Step** dialog box appears. You can select multiple step icons. If there is a step for which no mapping parameter value has been input for an input property that requires the mapping parameter setting,  is displayed on the corresponding step icon.

#### **Display** list box

Select the display magnification of the **Flow** view (**25%**, **50%**, **75%**, or **100%**).


If you right-click a step icon, you can select one of the following operations:

- **View**

If you select this item, the **View Step** dialog box appears.

- **Copy**  
Select this item to copy the selected step and relational line. The copied step and relational line will be pasted in the **Flow** view of the service template editing view.  
If you right-click any place other than step icons, you can select the following operation:
- **Select All**  
If you select this item, all the displayed steps and relational lines are selected. If there is a step that uses a **flow plug-in** or a **repeated execution plug-in**, the underlying steps and relational lines are also selected.

### Flow Tree view

Displays a hierarchical view of the flow names of the service template. If you click a flow name, the underlying flows are displayed in the **Flow** view. If a flow contains a step for which no mapping parameter value has been input for an input property that requires a mapping parameter setting,  is displayed on the corresponding icon.


### Steps view

Displays a list of steps for the service template. If you select a step, the corresponding step icon in the **Flow** view is also selected. You can select multiple steps. If you click the column title of a display item, the data will be sorted in ascending or descending order.

### View Step button

Click this button to view the selected step. The **View Step** dialog box appears.

**Table 7-11 Items displayed in the Steps view (service template view dialog box)**

Display item	Description
Input warning icon	If no mapping parameter value has been input for an input property that requires a mapping parameter setting,  is displayed.
<b>Name</b>	Displays the name of the step.

## View Service Definition dialog box

Use the **View Service Definition** dialog box to view the definition information of a service. To display the **View Service Definition** dialog box, click the **View Service Definition** button in the service template view dialog box.

**View Service Definition**

Display the definition information of the service.

Service	
ID	JP1AJSoutputSchedule
Version	01.10.01
Vendor ID	com.hitachi.software.dna.cts.jp1
Name	JP1/AJS jobnet scheduled execution results output
Vendor Name	Hitachi, Ltd.
Description	Outputs the scheduled execution results of a JP1/AJS jobnet to a file.
Category	JP1_Operations/Management
Custom Files	JP1AJSoutputSchedule.html

Select Delete

**Property Groups**

ID	Name	Description	Initial Status
basic	Application system environment i...	Specify the environment informat...	Open
jobnet_info	Jobnet output information	Specify the information of the job...	Open

**Input Properties**

Key	Name	Description	Property Group Name
common.targetHost	Job server host name	Specifies the host name or IP a...	Application system environment ...
jp1ajs.jp1ajsServiceName	Name of the JP1/AJS service for ...	Specify the service name of the ...	Application system environment ...
jp1ajs.jp1ajsLHostName	JP1/AJS logical host name	Specify the logical host name of ...	Application system environment ...
jp1ajs.targetJobnetName	Jobnet name where schedules a...	Specifies the complete name of ...	Jobnet output information
jp1ajs.outputStartDate	Jobnet scheduled execution resu...	The scheduled execution results...	Jobnet output information
jp1ajs.outputEndDate	Jobnet scheduled execution resu...	The scheduled execution results...	Jobnet output information

View

Figure 7-23 View Service Definition dialog box (1/2)

**Output Properties**

Key	Name	Description
No Data		

View

**Variables**

Key	Name	Description
No Data		

View

Close

Figure 7-24 View Service Definition dialog box (2/2)

This dialog box displays the following items:



**Tip:** The **View Service Definition** dialog box is read only. You cannot change the settings here.



## Service

Shows the definition information of the service.

### ID

Shows the ID of the service template.

### Version

Shows the version of the service template.

### Vendor ID

Shows the ID of the service template's vendor.

### Name text box

Shows the name of the service template.

### Vendor Name text box

Shows the name of the service template's vendor.

### Description text box

Shows a brief description of the service template.

### Category text box

Shows the category of the service template.

### Custom Files

Shows the custom file set for the service template.

### Custom File Name for Service Details Dialog text box

Shows the relative path to the Service Details window file in the zip file. The **Custom File Name for Service Details Dialog** text box is displayed when you specify a zip file as the custom file.

## Property Groups

Click this to list property groups.

## Property Groups

Displays a list of property groups.

**Table 7-12 Items displayed in Property Groups (View Service Definition dialog box)**

Display item	Description
<b>ID</b>	Displays the ID of each property group.
<b>Name</b>	Displays the name of each property group.
<b>Description</b>	Displays a brief description of each property group.
<b>Initial Status</b>	Displays the initial display status of each property group.

## Input Properties

Click this to list input properties.

## Input Properties



Displays a list of input properties.

**Table 7-13 Items displayed in Input Properties (View Service Definition dialog box)**

Display item	Description
<b>Key</b>	Displays the property key for each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.
<b>Property Group Name</b>	Displays the property group name for each input property.

**View** button

Click this button to view the selected input property. The **View Input Property for Service** dialog box appears.

### Output Properties

Click this button to display a list of output properties.

### Output Properties

Displays a list of output properties.

**Table 7-14 Items displayed in Output Properties (View Service Definition dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.

**View** button

Click this button to view the selected output property. The **View Output Property for Service** dialog box appears.

### Variables

Click this to display a list of variables.

### Variables

Displays a list of variables.

**Table 7-15 Items displayed in Variables (View Service Definition dialog box)**

Display item	Description
Key	Displays the property key of each property.
Name	Displays the name of each property.
Description	Displays a brief description of each variable.

### **View** button

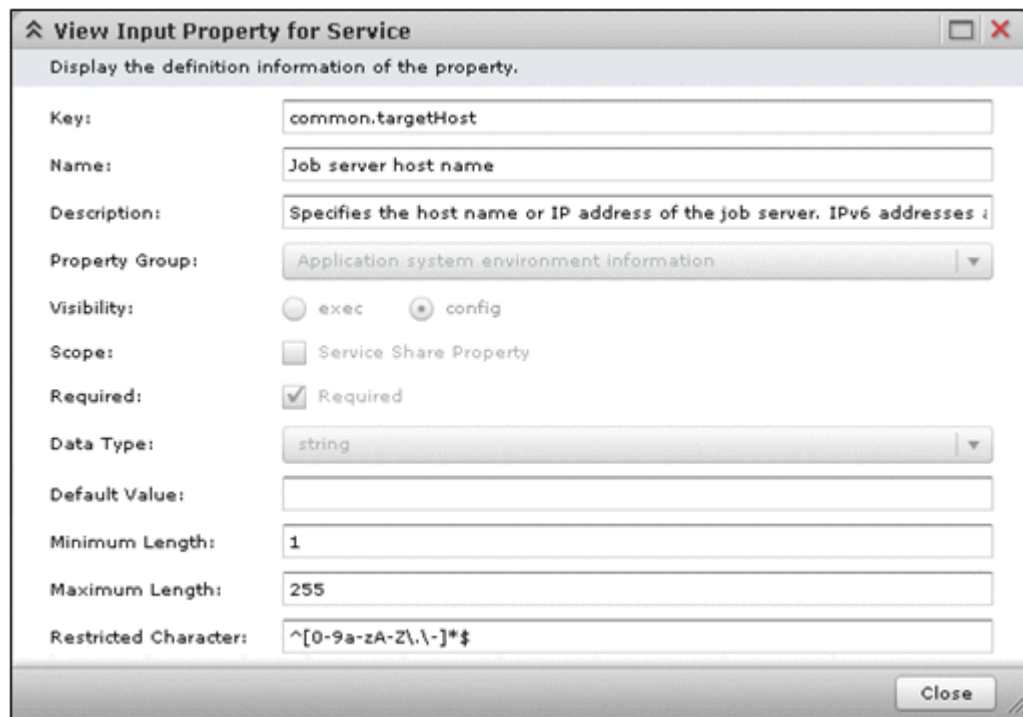
Click this button to view the selected variable. The **View Variable** dialog box appears.

### **Close** button

Click this button to close the **View Service Definition** dialog box.

## **View Input Property for Service dialog box**

Use the **View Input Property for Service** dialog box to view an input property for a service. To display the **View Input Property for Service** dialog box, click the **View** button in the **Input Properties** section of the **View Service Definition** dialog box.



**Figure 7-25 View Input Property for Service dialog box**

This dialog box displays the following items:



**Tip:** The **View Input Property for Service** dialog box is read only. You cannot change the settings here.

### **Key** text box

Shows the property key of the input property.

### **Name** text box

Shows the name of the input property.

### **Description** text box

Shows a brief description of the input property.

**Property Group** list box

Shows the property groups that the input property belongs to.

**Visibility** radio button

Shows the visibility of the input property.

- **exec**  
If this option is selected, you can set the property value when you edit or execute the service.
- **config**  
If this option is selected, you can set the property value when you edit the service.

**Scope** check box

Shows the scope of the input property. If this check box is selected, the input property is set to a service share property.

**Required** check box

Shows whether a value must be entered for the property. If this check box is selected, a value must be entered for the property.

**Data Type** list box

Shows the data type of the input property.

- **string**  
If this option is selected, the data type has been set to string.
- **boolean**  
If this option is selected, the data type has been set to boolean.
- **integer**  
If this option is selected, the data type has been set to integer.
- **double**  
If this option is selected, the data type has been set to double.
- **date**  
If this option is selected, the data type has been set to date.
- **password**  
If this option is selected, the data type has been set to password.
- **list**  
If this option is selected, the data type has been set to list.

**Default Value** text box

Shows the default value of the input property

**Minimum Length** text box

This text box is displayed when **string** or **password** is set for the data type. It shows the minimum length of the character string that can be entered for the input property.

**Maximum Length** text box

This text box is displayed when **string** or **password** is set for the data type. It shows the maximum length of the character string that can be entered for the input property.

#### **Restricted Character** text box

This text box is displayed when **string** or **password** is set for the data type. It shows the restrictions on the characters that can be entered for the input property.

#### **Minimum Value** text box

This text box is displayed when **integer**, **double**, or **date** is set for the data type. It shows the minimum value of the input property.

#### **Maximum Value** text box

This text box is displayed when **integer**, **double**, or **date** is set for the data type. It shows the maximum value of the input property.

#### **Specify List Items** text box

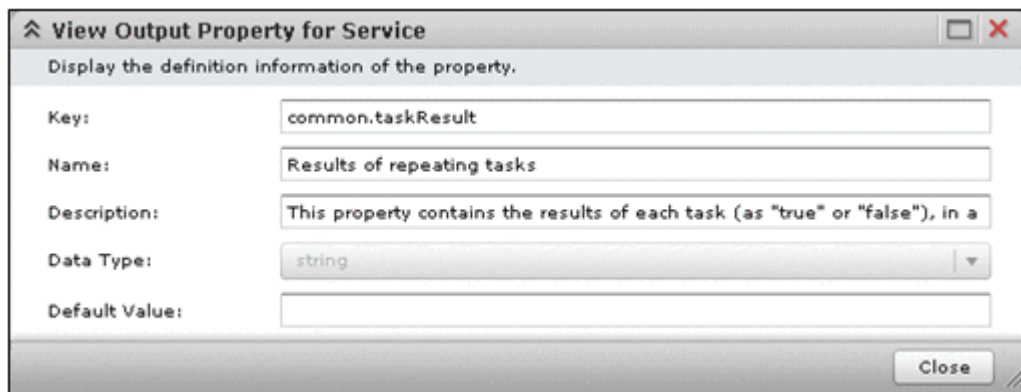
Shows the list items defined for the input property. The **Specify List Items** text box is displayed when **list** is set for the data type.

#### **Close** button

Click this button to close the **View Input Property for Service** dialog box.

## **View Output Property for Service dialog box**

Use the **View Output Property for Service** dialog box to view an output property for a service. To display the **View Output Property for Service** dialog box, in the **View Service Definition** dialog box, click the **View** button in the **Output Properties** section.



**Figure 7-26 View Output Property for Service dialog box**

This dialog box displays the following items:



**Tip:** The **View Output Property for Service** dialog box is read only. You cannot change the settings here.

#### **Key** text box

Shows the property key of the output property.

**Name** text box

Shows the name of the output property.

**Description** text box

Shows a brief description of the output property.

**Data Type** list box

Shows the data type of the output property.

- **string**  
If this option is selected, the data type has been set to string.
- **password**  
If this option is selected, the data type has been set to password.

**Default Value** text box

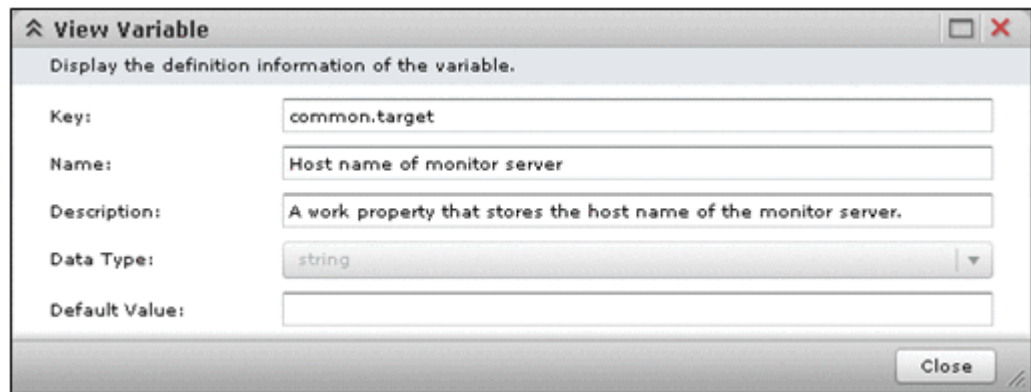
Shows the default value of the output property.

**Close** button

Click this button to close the **View Output Property for Service** dialog box.

## View Variable dialog box

Use the **View Variable** dialog box to view a variable for a service. To display the **View Variable** dialog box, in the **View Service Definition** dialog box, click the **View** button in the **Variables** section.



**Figure 7-27 View Variable dialog box**

This dialog box displays the following items:



**Tip:** The **View Variable** dialog box is read only. You cannot change the settings here.

**Key** text box

Shows the property key of the variable.

**Name** text box

Shows the name of the variable.

**Description** text box

Shows a brief description of the variable.

**Data Type** list box

Shows the data type of the variable.

- **string**

If this option is selected, the data type has been set to string.

- **password**

If this option is selected, the data type has been set to password.

**Default Value** text box

Shows the default value of the variable.

**Close** button

Click this button to close the **View Variable** dialog box.

## View Step dialog box

Use the **View Step** dialog box to view information about a step of a service template. Do one of the following to display the **View Step** dialog box:

- In the service template view dialog box, click the **View Step** button in the **Steps** view.
- In the service template view dialog box, right-click a step icon displayed in the **Flow** view, and then select **View**.
- In the service template view dialog box, double-click a step icon displayed in the **Flow** view.

The screenshot shows the 'View Step' dialog box with the following sections:

- Step**: A table with fields ID (jp1ajsOutputSchedule), Name (jp1ajsOutputSchedule), and Description (Outputs the scheduled execution results of JP1/AJS jobnet to a file).
- Plugin**: A table with fields Name (JP1/AJS jobnet scheduled execution results output), Version (01.10.01), Vendor Name (Hitachi, Ltd.), Description (Outputs the scheduled execution results of jobnet to a file.), ID (jp1ajsOutputSchedule), and Vendor ID (com.hitachi.software.dna.cts.jp1).
- Subsequent Step Conditions**: A section with a dropdown menu for 'Condition' (set to 'When the return value of the plugin is judgment level or less, execute subsequent steps...'), a 'Judgment Level' input field (set to 0), a 'Warning Settings' checkbox (checked), and a 'Warning Level' input field.

**Figure 7-28 View Step dialog box (1/2)**

Specify Plug-in Input Properties for Mapping

Key	Name	Description	Mapping Parameter
plugin.destinationHost	Host name of the execution targ...	Specify the host name or IP add...	common.targetHost
JP1.logicalHostName	Logical host name for the execu...	Specify the JP1 logical host nam...	jp1ajs.jp1ajsHost...
JP1AJS.serviceName	JP1/AJS service name	Specify the service name of the ...	jp1ajs.ajsServiceN...
JP1AJS.entryJobnetName	Jobnet name	Specifies the name of the jobnet...	jp1ajs.targetJobn...
JP1AJS.executeJP1UserName	JP1 user name that executes th...	Specifies the JP1 user name use...	jp1ajs.readJP1Use...
JP1AJS.outputStartDate	Jobnet scheduled execution resu...	The output start date of the sch...	jp1ajs.outputStart...

Specify Plug-in Output Properties for Mapping

Key	Name	Description	Mapping Parameter
common.returnValue	Return value for the plugin	The return value of this component l...	(Not Set)

Close

**Figure 7-29 View Step dialog box (2/2)**

This dialog box displays the following items:



**Tip:** The **View Step** dialog box is read only. You cannot change the settings here.

#### Step

Shows the definition information of the step.

#### ID text box

Shows the ID of the step.

#### Name text box

Shows the name of the step.

#### Description text box

Shows a brief description of the step.

#### Plug-in

Click this to display the definition information of the plug-in.

#### Plug-in

Shows the definition information of the plug-in.

#### Name

Shows the name of the plug-in.

#### Version

Shows the version of the plug-in.

#### Vendor Name

Shows the name of the plug-in's vendor.

**Description**

Shows a brief description of the plug-in.

**ID**

Shows the ID of the plug-in.

**Vendor ID**

Shows the ID of the plug-in's vendor.

**Subsequent Step Conditions**

Click this to display the condition for executing the subsequent steps.

**Subsequent Step Conditions**

Shows the condition for executing the subsequent steps.

**Condition** list box

Shows the condition for executing the subsequent steps.

- **When the return value of the plug-in is judgment level or less, execute subsequent steps**
- **Always execute subsequent steps**
- **Never execute subsequent steps**

**Judgment Level** text box

Shows the judgment level. This value and the return value of the plug-in are used to judge whether the condition for executing the subsequent steps is satisfied. The **Judgment Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

**Warning Setting** check box

If this check box is selected, the step's status changes to the warning status when the return value of the plug-in is equal to or higher than the warning level and equal to or less than the judgment level. The **Warning Setting** check box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

**Warning Level** text box

Shows the warning level. This value and the return value of the plug-in are used to judge whether the condition for executing the subsequent steps is satisfied. The **Warning Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

**Specify Plug-in Input Properties for Mapping**


Click this to display a list of input properties.

**Input Properties**



Displays a list of input properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-16 Items displayed in Input Properties (View Step dialog box)**

Display item	Description
Input warning icon	If no mapping parameter value has been input for an input property that requires the mapping parameter setting,  is displayed.
<b>Key</b>	Displays the property key for the input property.
<b>Name</b>	Displays the name of the input property.
<b>Description</b>	Displays a brief description of the input property.
<b>Mapping Parameter</b>	Displays the mapping parameter for the input property.

### Specify Plug-in Output Properties for Mapping

Click this to display a list of output properties.

### Output Properties

Displays a list of output properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-17 Items displayed in Output Properties (View Step dialog box)**

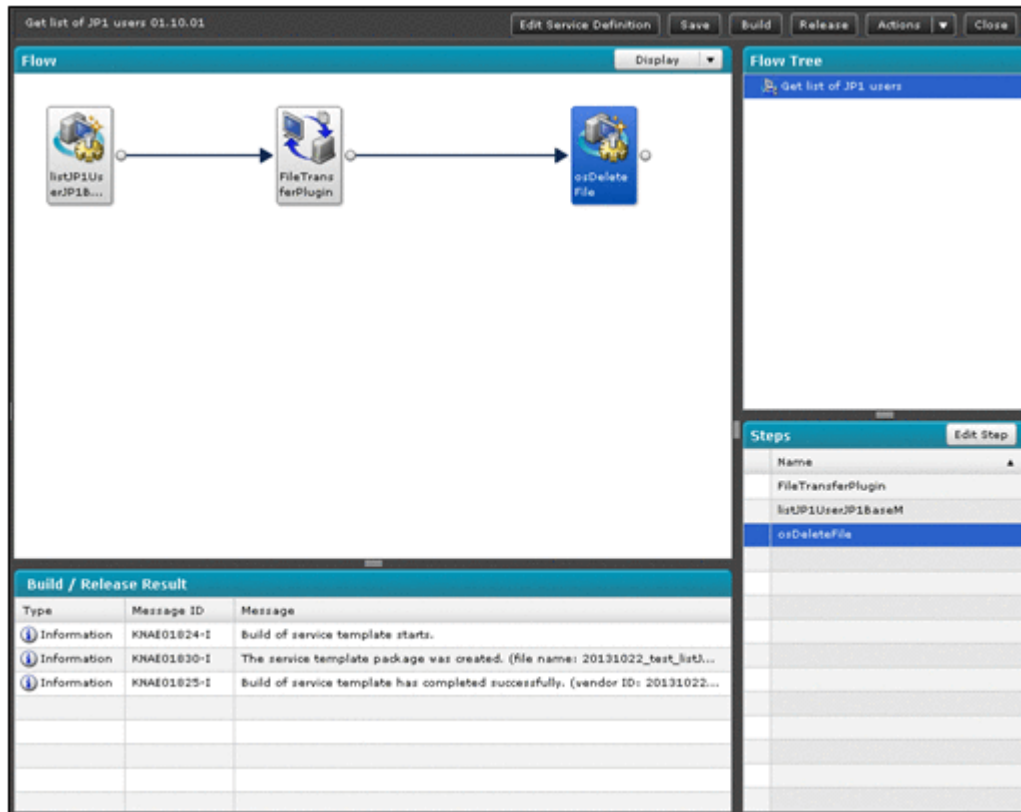
Display item	Description
<b>Key</b>	Displays the property key of each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.
<b>Mapping Parameter</b>	Displays the mapping parameter for each output property.

### Close button

Click this button to close the **View Step** dialog.

## Service template editing view

Use the service template editing view to edit existing service templates and to develop new service templates. To display this view, click the **Edit** button in the **Service Template List** dialog box, or click the **Save** button in the **Create Service Template** dialog box or in the **Copy Service Template** dialog box. The view is displayed in the right pane of the **Editor** window.



**Figure 7-30 Service template editing view**

This view displays the following items:

**Edit Service Definition** button

Click this button to edit the definition information of a service. The **Edit Service Definition** dialog box appears.

**Save** button

Click this button to apply the changes.

**Build** button

Click this button to build the service template. A message dialog box appears confirming whether you want to build the service template. If you click the **OK** button, the build processing starts. The execution results of the build processing are displayed in the **Build / Release Result** dialog box and in the **Build / Release Result** view.

**Release** button

Click this button to release the service template. A confirmation dialog box appears. If you click the **OK** button, release processing starts. The results of the release processing are displayed in the **Build / Release Result** dialog box and in the **Build / Release Result** view.

**Actions** list box

Specify an operation you want to perform on the service template.

- **View**

Select this option to view the definition information of another service template. The **Service Template List** dialog box appears.

- **Set Resources**


Select this option to set a service resource file. The **Set the Service Resources** dialog box appears.

**Close** button

Click this button to return to the **Service Template Editor Home** view.

**Flow** view

Shows the step execution order. If you drag and drop a plug-in from the **Plug-in** view, the **Create Step** dialog box appears. You can use this dialog box to add steps. If you double-click a step that uses a **flow plug-in** or a **repeated execution plug-in**, the underlying flow is displayed. If you double-click another type of step icon, the **Edit Step** dialog box appears. You can select multiple step icons. If there is a step for which no mapping parameter value has been input for an input property that

requires a mapping parameter setting,  is displayed on the corresponding step icon.

**Display** list box

Select the display magnification of the **Flow** view (**25%**, **50%**, **75%**, or **100%**).

If you right-click a step icon, you can select one of the following operations:

- **Edit**

Displays the **Edit Step** dialog box.

- **Cut**

Cuts the selected step and relational line.

- **Copy**

Copies the selected step and relational line.

- **Delete**

Deletes the selected step and relational line.

If you right-click any place other than step icons, you can select either of the following operations:

- **Paste**


Pastes the step and relational line that you cut or copied.

- **Select All**

Selects all the displayed steps and relational lines. If there is a step that uses a **flow plug-in** or a **repeated execution plug-in**, the underlying steps and relational lines are also selected.

**Flow Tree** view

Displays a hierarchical view of the flow names of the service template. If you click a flow name, the underlying flows are displayed in the **Flow** view. If a flow contains a step for which no mapping parameter value has

been input for an input property that requires a mapping parameter setting,  is displayed on the corresponding icon.

### **Build / Release Result** view

Displays a list of messages output when you built or released the service template.

**Table 7-18 Items displayed in the Build / Release Result view (service template editing view)**

Display item	Description
<b>Type</b>	Displays the type of each message. <ul style="list-style-type: none"><li>• Error Indicates that an error message was output when you built or released the service template.</li><li>• Warning Indicates that a warning message was output when you built or released the service template.</li><li>• Information Indicates that an information message was output when you built or released the service template.</li></ul>
<b>Message ID</b>	Displays the ID of each message.
<b>Message</b>	Displays the contents of each message.


### **Steps** view

Lists the steps of the service template. If you select a step, the corresponding step icon in the **Flow** view is also selected. You can select multiple steps. If you click the column title of a display item, the data will be sorted in ascending or descending order.

#### **Edit Step** button

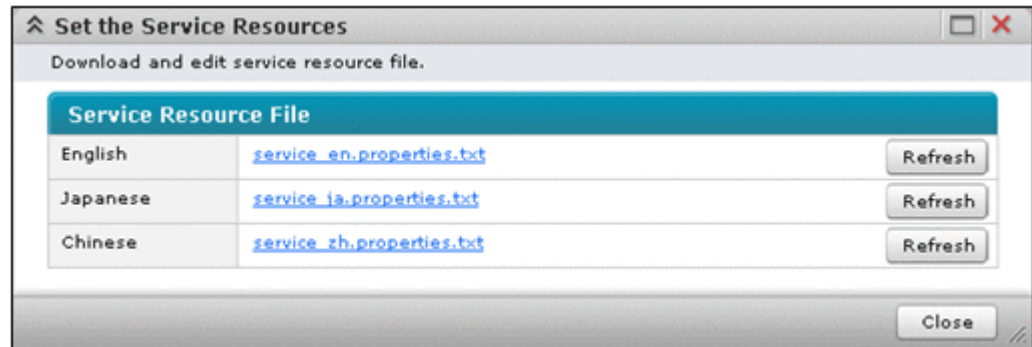
Click this button edit the selected step. The **Edit Step** dialog box appears.

**Table 7-19 Items displayed in the Steps view (service template editing view)**

Display item	Description
Input warning icon	If no mapping parameter value has been input for an input property that requires a mapping parameter setting,  is displayed.
<b>Name</b>	Displays the name of each step.

## Set the Service Resources dialog box

Use the **Set the Service Resources** dialog box to upload or download service resource files. To display the **Set the Service Resources** dialog box, in the service template editing view, select **Set Resources** in the **Actions** list box.



**Figure 7-31 Set the Service Resources dialog box**

This dialog box displays the following items:

### Service Resource File

The service resource file is displayed and applied when the service template is displayed for each language environment.

#### Japanese

The name of the service resource file is displayed and applied when the service template is displayed in a Japanese environment. The file can be downloaded by clicking the file name.

#### English

The name of the service resource file is displayed and applied when the service template is displayed in an English environment. The file can be downloaded by clicking the file name.

#### Chinese

The name of the service resource file is displayed and applied when the service template is displayed in a Chinese environment. The file can be downloaded by clicking the file name.

#### Refresh button

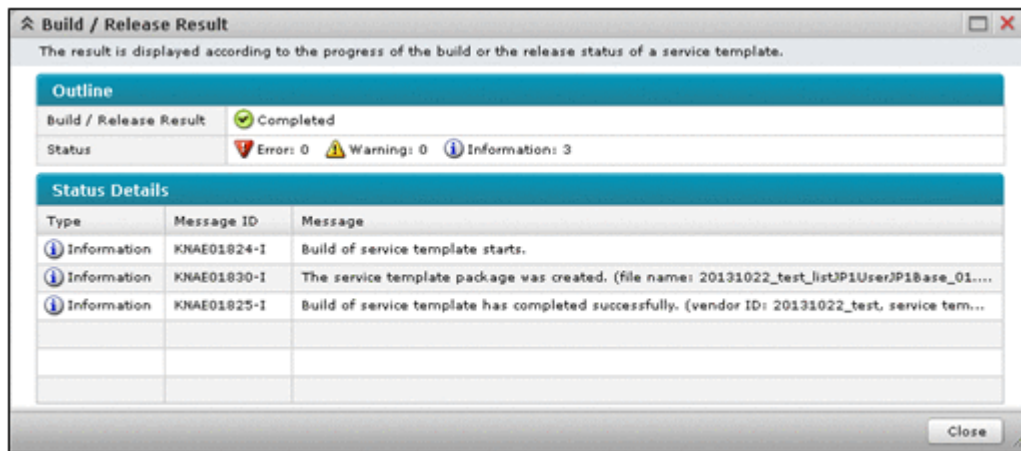
If you click this button, a dialog box used to upload the edited service resource file is displayed. If you select a file and then click **Open**, a message dialog box is displayed confirming whether you want to update the file. If you click **OK**, the file is updated. The only name that can be registered for the service resource file is "service\_ja.properties.txt" in a Japanese environment, "service\_en.properties.txt" in an English environment, or "service\_zh.properties.txt" in a Chinese environment.

#### Close button

Click this button to close the **Set the Service Resources** dialog box.

## Build / Release Result dialog box

Use the **Build / Release Result** dialog box to check the result or progress of the build or release processing for a service template. To display the **Build / Release Result** dialog box, click the **Build** or **Release** button in the service template editing view. Then click the **OK** button in the confirmation message dialog box. The **Build / Release Result** dialog box appears.



**Figure 7-32 Build / Release Result dialog box**

This dialog box displays the following items:

### Outline

This section displays the result or progress of the build or release processing. It also shows the number of messages output when the processing was executed.

### Build / Release Result

Shows the result or progress of the build or release processing.

### Status

Shows the number of messages output when you built or released the service template.

### Status Details

Displays a list of messages that were output when you built or released the service template. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-20 Items displayed in Status Details (Build / Release Result dialog box)**

Display item	Description
<b>Type</b>	Displays the type of each message. <ul style="list-style-type: none"><li>Error<ul style="list-style-type: none"><li>Indicates that an error message was output when you built or released the service template.</li></ul></li><li>Warning</li></ul>

Display item	Description
	<p>Indicates that a warning message was output when you built or released the service template.</p> <ul style="list-style-type: none"> <li>Information</li> </ul> <p>Indicates that an information message was output when you built or released the service template.</p>
<b>Message ID</b>	Displays the ID of each message.
<b>Message</b>	Displays the contents of each message.

### Close button

Click this button to close the **Build / Release Result** dialog box.

## Edit Service Definition dialog box

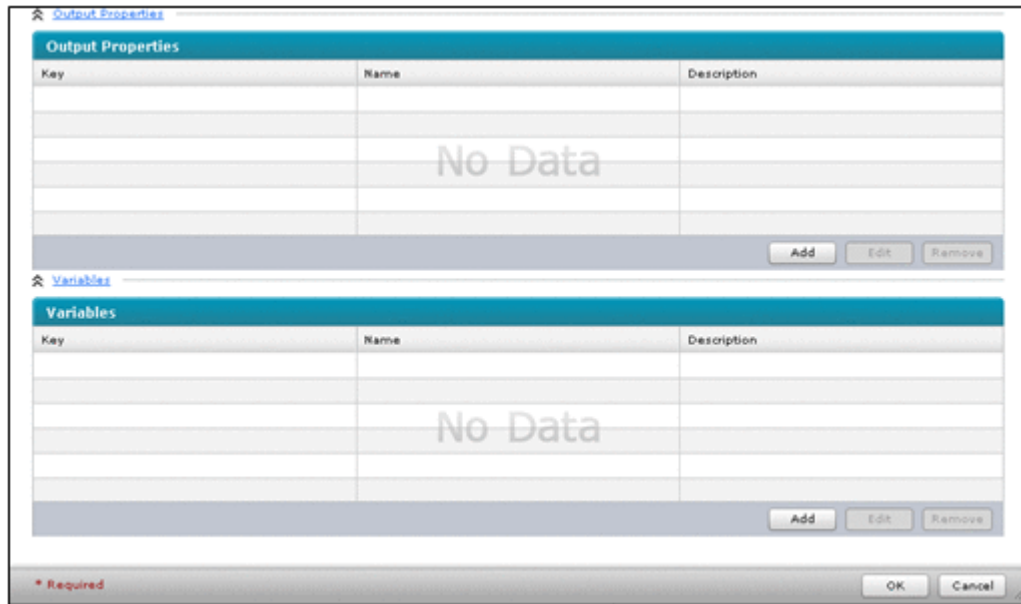
Use the **Edit Service Definition** dialog box to edit the definition information of a service. To display the **Edit Service Definition** dialog box, click the **Edit Service Definition** button in the service template editing view.

The screenshot shows the 'Edit Service Definition' dialog box. It has a title bar with a close button. Below the title bar is a text area with instructions: 'Specify a definition information for the service. Drag and drop one or more rows to change the alignment sequence of property groups, input properties, output properties, and variables.'

The dialog box is divided into three main sections:

- Service:** A form with fields for ID (JP1AJSoutputSchedule), Version (01.10.01), Vendor ID (test\_20131023), Name (JP1/AJS jobnet scheduled execution results output), Vendor Name, Description (Outputs the scheduled execution results of a JP1/AJS jobnet to a file.), Category (JP1\_Operations/Management), and Custom Files (JP1AJSoutputSchedule.html). There are 'Select' and 'Delete' buttons.
- Property Groups:** A table with columns: ID, Name, Description, and Initial Status. It lists 'basic' and 'jobnet\_info' groups. There are 'Add', 'Edit', and 'Remove' buttons at the bottom.
- Input Properties:** A table with columns: Key, Name, Description, and Property Group Name. It lists various properties like 'common.targetHost', 'jp1ajs.ajsServiceName', etc. There are 'Select Service Share Property', 'Add', 'Edit', and 'Remove' buttons at the bottom.

Figure 7-33 Edit Service Definition dialog box (1/2)



**Figure 7-34 Edit Service Definition dialog box (2/2)**

This dialog box displays the following items:

### **Service**

Use this section to specify the definition information of the service you are editing.

#### **ID**

Shows the ID of the service template.

#### **Version**

Shows the version of the service template.

#### **Vendor ID**

Shows the ID of the service template's vendor.

#### **Name** text box

Enter the name of the service template. The text box allows a maximum of 64 characters.

#### **Vendor Name** text box

Enter the name of the service template's vendor. The text box allows a maximum of 64 characters.

#### **Description** text box

Enter a brief description of the service template. The text box allows a maximum of 256 characters.

#### **Category** text box

Enter the category name of the service template. The text box allows a maximum of 256 characters. If you use a hierarchical category name, delimit individual layers with a slash (/). You can use a maximum of 10 layers for a category name. If you want to set a



service template in multiple categories, delimit the category names with a comma (,). Make sure that you enter values for all layers of a category name.

### Custom Files

Shows the custom file set for the service template. Click the file name to download the file.

#### Select button

Click this button to select a custom file. A dialog box appears that is used to select a folder. Specify a custom file name with no more than 64 characters. (If you specify a zip file, the relative path to the custom file in the zip file must have no more than 64 characters.) Also, the total number of characters entered in the **ID**, **Vendor ID**, and **Name** text boxes must be no more than 131. (If you specify a zip file, the relative path to the custom file in the zip file must be assumed as the file name. Then the total must be no more than 131 characters.)

#### Delete button

Click this button to clear the specified custom file.

#### Custom File Name for Service Details Dialog text box

Specify the relative path to the Service Details window file in the zip file. Specify a custom file name so that the relative path has no more than 64 characters and the total number of characters entered in the **ID**, **Vendor ID**, and **Name** text boxes is no more than 131. The **Custom File Name for Service Details Dialog** text box is displayed when you specify a zip file as the custom file.

### Property Groups

Click this to display a list of property groups.

### Property Groups

Displays a list of property groups.

**Table 7-21 Items displayed in Property Groups (Edit Service Definition dialog box)**

Display item	Description
<b>ID</b>	Displays the ID of each property group.
<b>Name</b>	Displays the name of each property group.
<b>Description</b>	Displays a brief description of each property group.
<b>Initial Status</b>	Displays the initial display status of each property group.

#### Add button

Click this button to create a property group. The **Create Property Group** dialog box appears.

#### Edit button

Click this button to edit the selected property group. The **Edit Property Group** dialog box is displayed.

**Remove** button

Click this button to remove the selected property group. A confirmation dialog box appears. If you click the **OK** button, the property group is deleted.

**Input Properties**

Click this to display a list of input properties.

**Input Properties**

Displays a list of input properties.

**Table 7-22 Items displayed in Input Properties (Edit Service Definition dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.
<b>Property Group Name</b>	Displays the property group name for each input property.

**Select Service Share Property** button

Click this button to add a service share property to input properties. The **Select Service Share Property** dialog box appears.

**Add** button

Click this button to create an input property. The **Create Input Property for Service** dialog box appears.

**Edit** button

Click this button to edit the selected input property. The **Edit Input Property for Service** dialog box appears.

**Remove** button

Click this button to remove the selected input property. A confirmation dialog box appears. If you click the **OK** button, the input property is deleted.

**Output Properties**

Click this to display a list of output properties.

**Output Properties**

Displays a list of output properties.

**Table 7-23 Items displayed in Output Properties (Edit Service Definition dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.

**Add** button

Click this button to create an output property. The **Create Output Property for Service** dialog box appears.

**Edit** button

Click this button to edit the selected output property. The **Edit Output Property for Service** dialog box appears.

**Remove** button

Click this button to remove the selected output property. A confirmation dialog box appears. If you click the **OK** button, the output property is deleted.

**Variables**

Click this to display a list of variables.

**Variables**

Displays a list of variables.

**Table 7-24 Items displayed in Variables (Edit Service Definition dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each variable.
<b>Name</b>	Displays the property name of each variable.
<b>Description</b>	Displays a brief description of each variable.

**Add** button

Click this button to create a variable. The **Create Variable** dialog box appears.

**Edit** button

Click this button to edit the selected variable. The **Edit Variable** dialog box appears.

**Remove** button

Click this button to remove the selected variable. A confirmation dialog box appears. If you click the **OK** button, the variable is deleted.

**OK** button

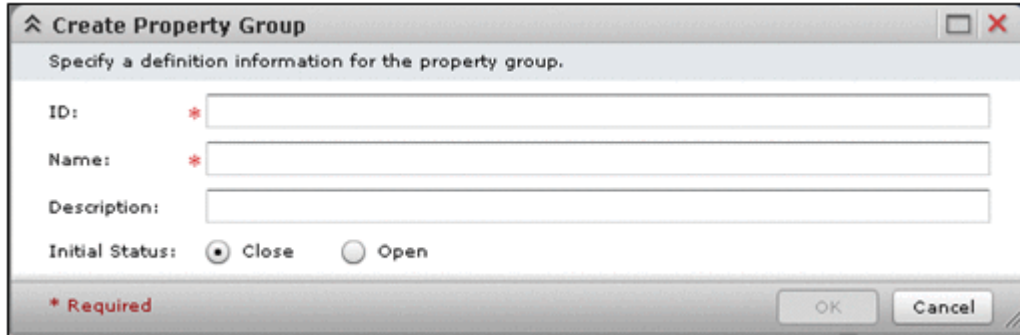
Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Service Definition** dialog box.

## Create Property Group dialog box

Use the **Create Property Group** dialog box to create a property group. To display the **Create Property Group** dialog box, in the **Edit Service Definition** dialog box, click the **Add** button in the **Property Groups** section.



**Figure 7-35 Create Property Group dialog box**

This dialog box displays the following items:

**ID** text box

Enter the ID of the property group. The text box allows a maximum of 32 characters.

**Name** text box

Enter the name of the property group. The text box allows a maximum of 64 characters.

**Description** text box

Enter a brief description of the property group. The text box allows a maximum of 256 characters.

**Initial Status** radio button

Select the initial display status of the property group in the **Service Definition** dialog box and in the **Submit Service** dialog box.

- **Close**

If you select this option, only the name of the property group is displayed, and the properties belonging to the property group are not displayed.

- **Open**

If you select this option, the name of the property group and the properties belonging to the property group are displayed.

**OK** button

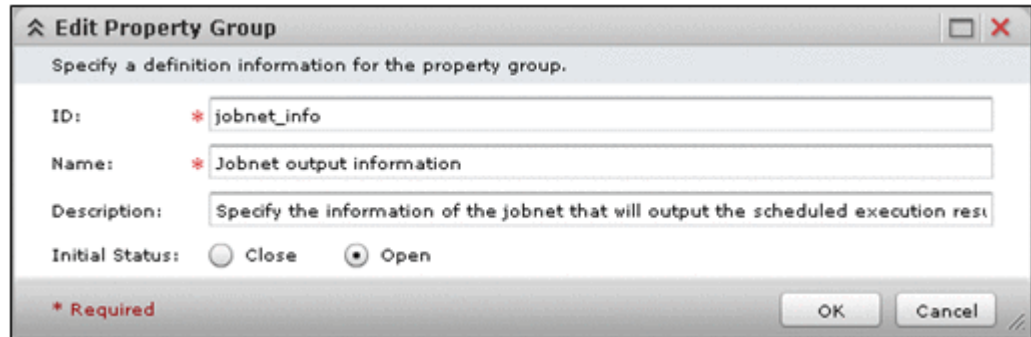
Click this button to add the property group.

### Cancel button

Click this button to close the **Create Property Group** dialog box.

## Edit Property Group dialog box

Use the **Edit Property Group** dialog box to edit the definition information of a property group. To display the **Edit Property Group** dialog box, in the **Edit Service Definition** dialog box, click the **Edit** button in the **Property Groups** section.



**Figure 7-36 Edit Property Group dialog box**

This dialog box displays the following items:

#### ID text box

Enter the ID of the property group. The text box allows a maximum of 32 characters.

#### Name text box

Enter the name of the property group. The text box allows a maximum of 64 characters.

#### Description text box

Enter a brief description of the property group. The text box allows a maximum of 256 characters.

#### Initial Status radio button

Select the initial display status of the property group in the **Service Definition** dialog box and in the **Submit Service** dialog box.

- **Close**

If you select this option, only the name of the property group is displayed, and the properties belonging to the property group are not displayed.

- **Open**

If you select this option, the name of the property group and the properties belonging to the property group are displayed.

#### OK button

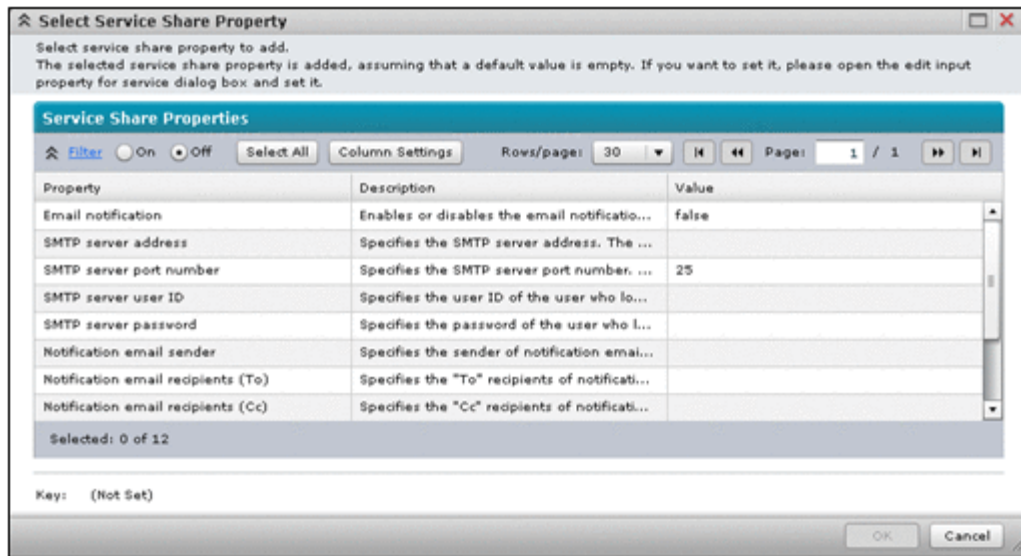
Click this button to apply the changes.

#### Cancel button

Click this button to close the **Edit Property Group** dialog box.

## Select Service Share Property dialog box

Use the **Select Service Share Property** dialog box to set service share properties as input properties for a service. To display the **Select Service Share Property** dialog box, click the **Select Service Share Property** button in the **Edit Service Definition** dialog box or in the **Specify Plug-in Input Properties for Mapping** dialog box.



**Figure 7-37 Select Service Share Property dialog box**

This dialog box displays the following items:

### Service Share Properties

Displays a list of service share properties. Select service share properties you want to set as input properties for the service. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-25 Items displayed in Service Share Properties (Select Service Share Property dialog box)**

Display item	Displayed by default	Description
Property	Yes	Displays the name of each service share property.
Description	Yes	Displays a brief description of each service share property.
Value	Yes	Displays the value of each service share property.
Key	No	Displays the property key for each service share property.

Display item	Displayed by default	Description
#	No	Displays the serial number of each service share property.

Legend:

Yes: Displayed by default, No: Hidden by default

### Key

Shows the property key of the selected service share property.

### Property Group list box

Select the property group that you want the selected service share property to belong to. In this list box, the names of the property groups defined in the **Edit Service Definition** dialog box are displayed as options.

### OK button

Click this button to add the selected service share property to the input properties for the service.

### Cancel button

Click this button to close the **Select Service Share Property** dialog box.

## Create Input Property for Service dialog box

Use the **Create Input Property for Service** dialog box to add an input property for the service. To display the **Create Input Property for Service** dialog box, in the **Edit Service Definition** dialog box, click the **Add** button in the **Input Properties** section, or in the **Specify Plug-in Input Properties for Mapping** dialog box, click the **Add Input Property** button.

**Figure 7-38 Create Input Property for Service dialog box (when string is set for Data Type)**

This dialog box displays the following items:

**Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Property Group** list box

Select the property group that you want the property to belong to. The names of the property groups defined in the **Edit Service Definition** dialog box are displayed as options.

**Visibility** radio button

Select the visibility of the input property.

- **exec**  
If you select this option, you will be able to set the value for the property when you edit or submit the service.
- **config**



If you select this option, you will be able to set the value for the property when you edit the service.

**Scope** check box

Set the scope of the input property. If you select this check box, the input property is set to be a service share property.

**Required** check box

Set whether a value must be entered for the property. If this check box is selected, a value must be entered for the property.

**Data Type** list box

Select the data type of the input property.

- **string**  
Select this option to set the data type to string.
- **boolean**  
Select this option to set the data type to boolean.
- **integer**  
Select this option to set the data type to integer.
- **double**  
Select this option to set the data type to double.
- **date**  
Select this option to set the data type to date.
- **password**  
Select this option to set the data type to password.
- **list**  
Select this option to set the data type to list.

**Default Value**

Enter the default value of the input property. Specifiable values depend on the data type.

- When the data type is string:  
Enter a character string in the text box. The text box allows a maximum of 1,024 characters.
- When the data type is boolean:  
Select the default value from the list box (blank, **true**, or **false**).
- When the data type is integer:  
Enter an integer in the range from -2147483648 to 2147483647 in the text box.
- When the data type is double:  
Enter an integer or a real number in the range from -9999999999999999 to 9999999999999999 in the text box. The text box allows a maximum of 17 characters.
- When the data type is date:

Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

- When the data type is password:  
Enter a character string in the text box. The text box allows a maximum of 1,024 characters. Each of the entered characters is displayed as •.
- When the data type is list:  
Select an item among the items entered in the **Specify List Items** text box as the default value. The text box allows a maximum of 1,024 characters. You do not have to use escape characters even if the character string contains commas (,) or backslashes (\).

#### **Minimum Length** text box

Specify the minimum length of the input character string. Enter an integer in the range from 0 to 1024. The **Minimum Length** text box is displayed when you specify **string** or **password** for the data type.

#### **Maximum Length** text box

Specify the maximum length of the input character string. Enter an integer in the range from 1 to 1024. The **Maximum Length** text box is displayed when you specify **string** or **password** for the data type.

#### **Restricted Character** text box

Specify the restrictions on the characters that can be entered using a regular expression that conforms to PCRE. The text box allows a maximum of 1,024 characters. The **Restricted Character** text box is displayed when you specify **string** or **password** for the data type.

#### **Minimum Value** text box

Specify the minimum value of the input property. The **Minimum Value** text box is displayed when you specify **integer**, **double**, or **date** for the data type. Specifiable values depend on the data type.

- When the data type is integer:  
Enter an integer in the range from -2147483648 to 2147483647 in the text box.
- When the data type is double:  
Enter an integer or a real number in the range from -999999999999999 to 999999999999999 in the text box. The text box allows a maximum of 17 characters.
- When the data type is date:  
Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

#### **Maximum Value** text box

Specify the maximum value of the input property. The **Maximum Value** text box is displayed when you specify **integer**, **double**, or **date** for the data type. Specifiable values depend on the data type.

- When the data type is integer:  
Enter an integer in the range from -2147483648 to 2147483647 in the text box.
- When the data type is double:  
Enter an integer or a real number in the range from -9999999999999999 to 9999999999999999 in the text box. The text box allows a maximum of 17 characters.
- When the data type is date:  
Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

#### **Specify List Items** text box

Specify the items you want to display in the list box as options. Enter display items that are delimited by a comma (,). If you want to specify a comma (,) or a backslash (\) as a value, escape the target character with a backslash (\). The text box allows a maximum of 1,024 characters. The **Specify List Items** text box is displayed when you specify **list** for the data type.

#### **OK** button

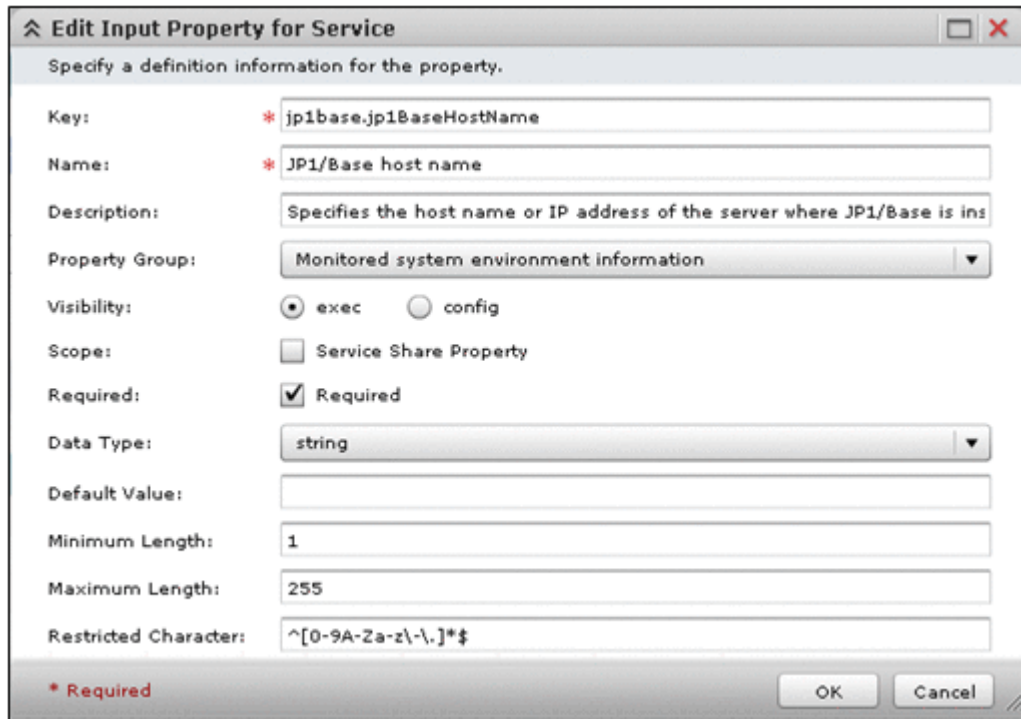
Click this button to add the input property.

#### **Cancel** button

Click this button to close the **Create Input Property for Service** dialog box.

## **Edit Input Property for Service dialog box**

Use the **Edit Input Property for Service** dialog box to edit an input property for a service. To display the **Edit Input Property for Service** dialog box, in the **Edit Service Definition** dialog box, click the **Edit** button in the **Input Properties** section.



**Figure 7-39 Edit Input Property for Service dialog box (when string is selected for Data Type)**

This dialog box displays the items below. Note that, if the property you are editing is a shared built-in service property, you can edit only the **Name** text box, the **Description** text box, and the **Property Group** list box.

**Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Property Group** list box

Select the property group that you want the property to belong to. The names of the property groups defined in the **Edit Service Definition** dialog box are displayed as options.

**Visibility** radio button

Select the visibility of the input property.

- o **exec**

If you select this option, you can set the property value when you edit or submit the service.

- **config**

If you select this option, you can set the property value when you edit the service.

**Scope** check box

Set the scope of the input property. If you select this check box, the input property is set to be a service share property.

**Required** check box

Set whether a value must be entered for the property. If this check box is selected, a value must be entered for the property.

**Data Type** list box

Select the data type of the input property.

- **string**

Select this option to set the data type to string.

- **boolean**

Select this option to set the data type to boolean.

- **integer**

Select this option to set the data type to integer.

- **double**

Select this option to set the data type to double.

- **date**

Select this option to set the data type to date.

- **password**

Select this option to set the data type to password.

- **list**

Select this option to set the data type to list.

**Default Value**

Enter the default value of the input property. Specifiable values depend on the data type.

- When the data type is string:

Enter a character string in the text box. The text box allows a maximum of 1,024 characters.

- When the data type is boolean:

Select the default value from the list box (blank, **true**, or **false**).

- When the data type is integer:

Enter an integer in the range from -2147483648 to 2147483647 in the text box.

- When the data type is double:

Enter an integer or a real number in the range from -9999999999999999 to 9999999999999999 in the text box. The text box allows a maximum of 17 characters.

- When the data type is date:

Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

- When the data type is password:  
Enter a character string in the text box. The text box allows a maximum of 1,024 characters. Each of the entered characters is displayed as •.
- When the data type is list:  
Select an item among the items entered in the **Specify List Items** text box as the default value. The text box allows a maximum of 1,024 characters. You do not have to use escape characters even if the character string contains commas (,) or backslashes (\).

#### **Minimum Length** text box

Specify the minimum length of the input character string. Enter an integer in the range from 0 to 1024. The **Minimum Length** text box is displayed when you specify **string** or **password** for the data type.

#### **Maximum Length** text box

Specify the maximum length of the input character string. Enter an integer in the range from 1 to 1024. The **Maximum Length** text box is displayed when you specify **string** or **password** for the data type.

#### **Restricted Character** text box

Specify the restrictions on the characters that can be entered, using a regular expression that conforms to PCRE. The text box allows a maximum of 1,024 characters. The **Restricted Character** text box is displayed when you specify **string** or **password** for the data type.

#### **Minimum Value** text box

Enter the minimum value of the input property. The **Minimum Value** text box is displayed when you specify **integer**, **double**, or **date** for the data type. Specifiable values depend on the data type.

- When the data type is integer:  
Enter an integer in the range from -2147483648 to 2147483647 in the text box.
- When the data type is double:  
Enter an integer or a real number in the range from -9999999999999999 to 9999999999999999 in the text box. The text box allows a maximum of 17 characters.
- When the data type is date:  
Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

#### **Maximum Value** text box

Specify the maximum value of the input property. The **Maximum Value** text box is displayed when you specify **integer**, **double**, or **date** for the data type. Specifiable values depend on the data type.

- When the data type is integer:  
Enter an integer in the range from -2147483648 to 2147483647 in the text box.
- When the data type is double:  
Enter an integer or a real number in the range from -9999999999999999 to 9999999999999999 in the text box. The text box allows a maximum of 17 characters.
- When the data type is date:  
Click the calendar button, and then select a date from the displayed calendar. You can specify a date in the range from January 1 in 1900 to December 31 in 2100. If you click the **Clear** button, the selection is cleared.

#### **Specify List Items** text box

Specify the items you want to display in the list box as options. Enter display items that are delimited by a comma (,). If you want to specify a comma (,) or a backslash (\) as a value, escape the target character with a backslash (\). The text box allows a maximum of 1,024 characters. The **Specify List Items** text box is displayed when you specify **list** for the data type.

#### **OK** button

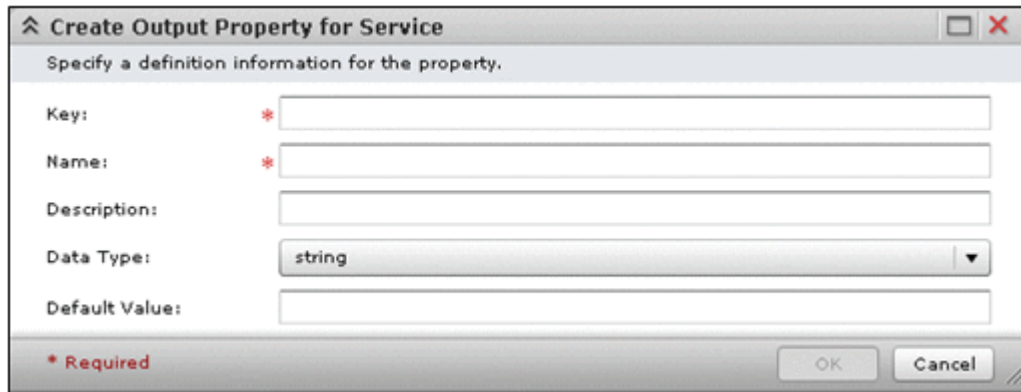
Click this button to apply the changes.

#### **Cancel** button

Click this button to close the **Edit Input Property for Service** dialog box.

## **Create Output Property for Service dialog box**

Use the **Create Output Property for Service** dialog box to add an output property of a service. To display the **Create Output Property for Service** dialog box, in the **Edit Service Definition** dialog box, click the **Add** button in the **Output Properties** section, or in the **Specify Plug-in Output Properties for Mapping** dialog box, click the **Add Output Property** button.



**Figure 7-40 Create Output Property for Service dialog box (when string is selected for Data Type)**

This dialog box displays the following items:

**Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Data Type** list box

Select the data type of the output property.

- **string**  
Select this option to set the data type to string.
- **password**  
Select this option to set the data type to password.

**Default Value**

Enter the default value of the output property. The text box allows a maximum of 1,024 characters. If you specify **password** for the data type, each of the entered characters is displayed as •.

**OK** button

Click this button to add the output property.

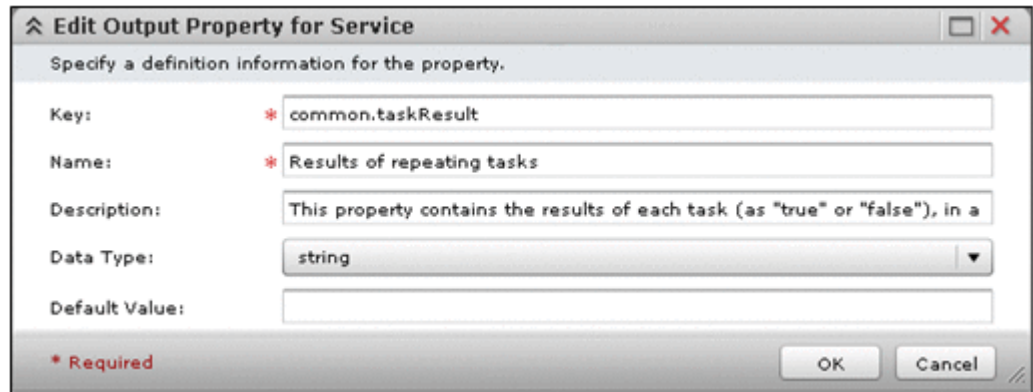
**Cancel** button

Click this button to close the **Create Output Property for Service** dialog box.



## Edit Output Property for Service dialog box

Use the **Edit Output Property for Service** dialog box to edit an output property for a service. To display the **Edit Output Property for Service** dialog box, in the **Edit Service Definition** dialog box, click the **Edit** button in the **Output Properties** section.



**Figure 7-41 Edit Output Property for Service dialog box (when string is selected for Data Type)**

This dialog box displays the following items:

**Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

**Data Type** list box

Select the data type of the output property.

- **string**  
Select this option to set the data type to string.
- **password**  
Select this option to set the data type to password.

**Default Value**

Enter the default value of the output property. The text box allows a maximum of 1,024 characters. If you specify **password** for the data type, each of the entered characters is displayed as •.

**OK** button

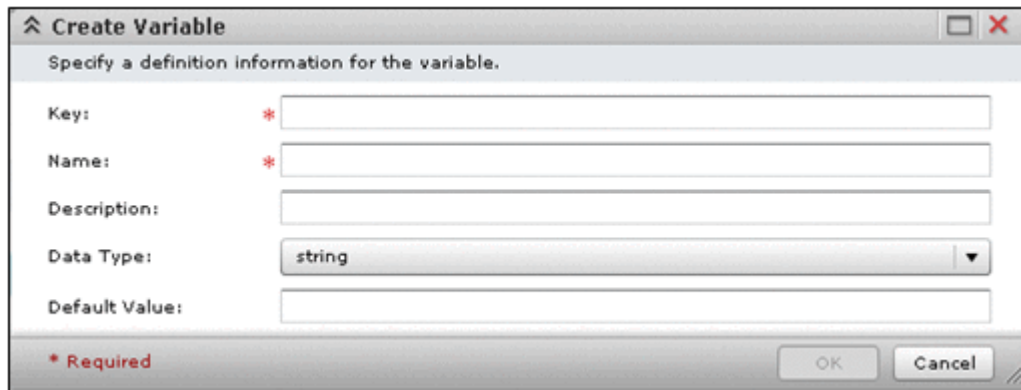
Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Output Property for Service** dialog box.

## Create Variable dialog box

Use the **Create Variable** dialog box to add a variable for a service. To display the **Create Variable** dialog box, in the **Edit Service Definition** dialog box, click the **Add** button in the **Variables** section, or in the **Specify Plug-in Input Properties for Mapping** dialog box or in the **Specify Plug-in Output Properties for Mapping** dialog box, click the **Add Variable** button.



**Figure 7-42 Create Variable dialog box (when string is selected for Data Type)**

This dialog box displays the following items:

### **Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

### **Name** text box

Enter the name of the property. The text box allows a maximum of 128 characters.

### **Description** text box

Enter a brief description of the property. The text box allows a maximum of 256 characters.

### **Data Type** list box

Select the data type of the variable.

- **string**  
Select this option to set the data type to string.
- **password**  
Select this option to set the data type to password.

### **Default Value**

Enter the default value of the variable. The text box allows a maximum of 1,024 characters. If you specify **password** for the data type, each of the entered characters is displayed as •.

**OK** button

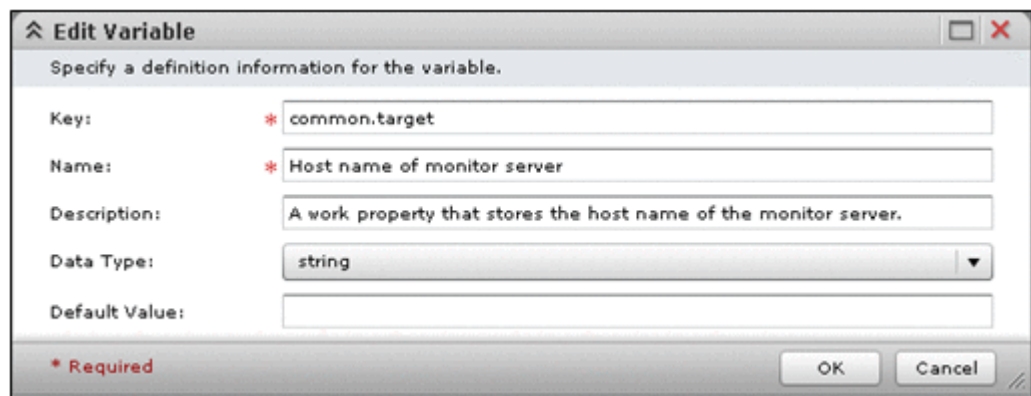
Click this button to add the variable.

**Cancel** button

Click this button to close the **Create Variable** dialog box.

## Edit Variable dialog box

Use the **Edit Variable** dialog box to edit a variable for a service. To display the **Edit Variable** dialog box, in the **Edit Service Definition** dialog box, click the **Edit** button in the **Variables** section.



**Figure 7-43 Edit Variable dialog box (when string is selected for Data Type)**

This dialog box displays the following items:

**Key** text box

Enter the property key. The text box allows a maximum of 128 characters.

**Name** text box

Enter the property name of the variable. The text box allows a maximum of 128 characters.

**Description** text box

Enter a brief description of the variable. The text box allows a maximum of 256 characters.

**Data Type** list box

Select the data type of the variable.

- **string**  
Select this option to set the data type to string.
- **password**

Select this option to set the data type to password.

### Default Value

Enter the default value of the variable. The text box allows a maximum of 1,024 characters. If you specify **password** for the data type, each of the entered characters is displayed as •.

### OK button

Click this button to apply the changes.

### Cancel button

Click this button to close the **Edit Variable** dialog box.

## Create Step dialog box

Use the **Create Step** dialog box to add a step to a service template. The **Create Step** dialog box is displayed when you select a plug-in in the **Plug-in** view and drag and drop the plug-in into the **Flow** view of the service template editing view.

**Create Step**

Specify a definition information for step.

**Step**

ID	osReadSpreadSheet
Name	Get CSV data
Description	

**Plug-in**

Name	Get CSV data
Version	01.02.02
Vendor Name	Hitachi,Ltd.
Description	Acquires data from a CSV file.
ID	osReadSpreadSheet
Vendor ID	com.hitachi.software.dna.cts.jp1

**Subsequent Step Conditions**

Condition: When the return value of the plug-in is judgment level or less, execute subsequent steps

Judgment Level: 0

Warning Setting: ☐ When the return value of the plug-in is warning level or more, and judgment level or less, make the step warning status

Warning Level:

Figure 7-44 Create Step dialog box (1/2)

Specify Plug-in Input Properties for Mapping

Key	Name	Description	Mapping Parameter
plugin.destinationHost	Host name of the execution target...	Specify the host name or IP address...	(Not Set)
common.fileName	File name	Specify the file name.	(Not Set)
odbc.Column1	Column number 1	Specifies the column number of the...	(Not Set)
odbc.Column2	Column number 2	Specifies the column number of the...	(Not Set)
odbc.Column3	Column number 3	Specifies the column number of the...	(Not Set)
odbc.Column4	Column number 4	Specifies the column number of the...	(Not Set)

Clear Edit

Specify Plug-in Output Properties for Mapping

Key	Name	Description	Mapping Parameter
odbc.OutputValue1	Data 1	Specifies the acquired data.	(Not Set)
odbc.OutputValue2	Data 2	Specifies the acquired data.	(Not Set)
odbc.OutputValue3	Data 3	Specifies the acquired data.	(Not Set)
odbc.OutputValue4	Data 4	Specifies the acquired data.	(Not Set)
odbc.OutputValue5	Data 5	Specifies the acquired data.	(Not Set)
common.returnValue	Return value for the plugin	The return value of this plugin stored.	(Not Set)

Clear Edit

\* Required

OK Cancel

**Figure 7-45 Create Step dialog box (2/2)**

This dialog box displays the following items:

### Step

Specify the definition information of a step.

#### ID text box

Enter the ID of the step. The text box allows a maximum of 30 characters.

#### Name text box

Enter the name of the step. The text box allows a maximum of 64 characters.

#### Description text box

Enter a brief description of the step. The text box allows a maximum of 256 characters.

### Plug-in

Click this to display the definition information of the plug-in.

### Plug-in

Shows the definition information of the plug-in.

#### Name

Shows the name of the plug-in.

#### Version

Shows the version number of the plug-in. If the plug-in has multiple versions, a list box is displayed. In this list box, you can select a version you want.

#### Vendor Name

Shows the name of the plug-in's vendor.

**Description**

Shows a brief description of the plug-in.

**ID**

Shows the ID of the plug-in.

**Vendor ID**

Shows the ID of the plug-in's vendor.

**Subsequent Step Conditions**

Click this to display the condition for executing the subsequent steps.

**Subsequent Step Conditions**

Specify the condition for executing the subsequent steps.

**Condition** list box

Select the condition for executing the subsequent steps.

- **When the return value of the plug-in is judgment level or less, execute subsequent steps**
- **Always execute subsequent steps**
- **Never execute subsequent steps**

**Judgment Level** text box

If you want to use the return value of the plug-in to judge whether the condition for executing the subsequent steps is satisfied, enter the judgment level. The **Judgment Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

**Warning Setting** check box

If you select this check box, the step's status will change to the warning status when the return value of the plug-in is equal to or higher than the warning level and equal to or less than the judgment level. The **Warning Setting** check box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

**Warning Level** text box

Enter the warning level. This value and the return value of the plug-in are used to judge whether the condition for executing the subsequent steps is satisfied. The **Warning Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.


**Specify Plug-in Input Properties for Mapping**

Click this to display a list of input properties.

**Input Properties**

Displays a list of input properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-26 Items displayed in Input Properties (Create Step dialog box)**

Display item	Description
Input warning icon	If no mapping parameter value has been input for an input property that requires a mapping parameter setting,  is displayed.
<b>Key</b>	Displays the property key of each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.
<b>Mapping Parameter</b>	Displays the mapping parameter for each input property.

**Clear** button

Click this button to delete the mapping parameter set for the input property.

**Edit** button

Click this button to edit the selected input property. The **Specify Plug-in Input Properties for Mapping** dialog box appears.

**Specify Plug-in Output Properties for Mapping**

Click this to display a list of output properties.

**Output Properties**

Displays a list of output properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-27 Items displayed in Output Properties (Create Step dialog box)**

Display item	Description
<b>Key</b>	Displays the property key of each output property.
<b>Name</b>	Displays the name of each output property.
<b>Description</b>	Displays a brief description of each output property.
<b>Mapping Parameter</b>	Displays the mapping parameter for each output property.

**Clear** button

Click this button to delete the mapping parameter set for the output property.

**Edit** button

Click this button to edit the selected output property. The **Specify Plug-in Output Properties for Mapping** dialog box appears.

**OK** button

Click this button to add the step.

## Cancel button

Click this button to close the **Create Step** dialog box.

## Edit Step dialog box

Use the **Edit Step** dialog box to edit a step for a service template. Do one of the following to display the **Edit Step** dialog box:

- In the **service template editing view**, click the **Edit Step** button in the **Steps** view.
- In the **service template editing view**, right-click a step icon displayed in the **Flow** view, and then select **Edit**.
- In the **service template editing view**, double-click a step icon displayed in the **Flow** view (for usual steps).

The screenshot shows the 'Edit Step' dialog box with the following sections:

- Step**: Fields for ID, Name, and Description. ID and Name are 'listJP1UserJP1BaseM'. Description is 'Acquires a list of JP1 users.'
- Plug-in**: Fields for Name, Version, Vendor Name, Description, ID, and Vendor ID. Name is 'Get list of JP1 users', Version is '01.00.04', Vendor Name is 'Hitachi,Ltd.', Description is 'Acquires a list of JP1 users.', ID is 'jp1baseShowUsers', and Vendor ID is 'com.hitachi.software.dna.cts.jp1'.
- Subsequent Step Conditions**: A dropdown menu for 'Condition:' set to 'When the return value of the plug-in is judgment level or less, execute subsequent steps'. 'Judgment Level:' is set to '0'. 'Warning Setting:' is checked with the label 'When the return value of the plug-in is warning level or more, and judgment level or less, make the step warning status'. 'Warning Level:' is an empty field.

Figure 7-46 Edit Step dialog box (1/2)



Specify Plug-in Input Properties for Mapping

Key	Name	Description	Mapping Parameter
JP1Base.jp1BaseHostName	JP1/Base logical host name	Specifies the JP1/Base logical host...	jp1base.jp1BaseL...
JP1Base.listJP1UserOutputFileName	List JP1 users' output file name	Specify the full path name of the o...	jp1base.listJP1Us...
plugin.destinationHost	Host name of the execution target...	Specify the host name or IP addre...	jp1base.jp1BaseH...

Clear Edit

Specify Plug-in Output Properties for Mapping

Key	Name	Description	Mapping Parameter
common.returnValue	Return value for the plugin	The return value of this plugin stored.	(Not Set)

Clear Edit

\* Required OK Cancel

**Figure 7-47 Edit Step dialog box (2/2)**

This dialog box displays the following items:

### Step

Specify the definition information of a step.

#### ID text box

Enter the ID of the step. The text box allows a maximum of 30 characters.

#### Name text box

Enter the name of the step. The text box allows a maximum of 64 characters.

#### Description text box

Enter a brief description of the step. The text box allows a maximum of 256 characters.

### Plug-in

Click this to display the definition information of the plug-in.

### Plug-in

Shows the definition information of the plug-in.

#### Name

Shows the name of the plug-in.

#### Version

Shows the version of the plug-in.

#### Vendor Name

Shows the name of the plug-in's vendor.

#### Description

Shows a brief description of the plug-in.

#### **ID**

Shows the ID of the plug-in.

#### **Vendor ID**

Shows the ID of the plug-in's vendor.

### **Subsequent Step Conditions**

Click this to display the condition for executing the subsequent steps.

### **Subsequent Step Conditions**

Specify the condition for executing the subsequent steps.

#### **Condition** list box

Select the condition for executing the subsequent steps.

- **When the return value of the plug-in is judgment level or less, execute subsequent steps**
- **Always execute subsequent steps**
- **Never execute subsequent steps**

#### **Judgment Level** text box

If you want to use the return value of the plug-in to judge whether the condition for executing the subsequent steps is satisfied, enter the judgment level. The **Judgment Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

#### **Warning Setting** check box

If you select this check box, the step's status will change to the warning status when the return value of the plug-in is equal to or higher than the warning level and equal to or less than the judgment level. The **Warning Setting** check box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.

#### **Warning Level** text box

Enter the warning level. This value and the return value of the plug-in are used to judge whether the condition for executing the subsequent steps is satisfied. The **Warning Level** text box is displayed when you select **When the return value of the plug-in is judgment level or less, execute subsequent steps** in the **Condition** list box.


### **Specify Plug-in Input Properties for Mapping**

Click this to display a list of input properties.

### **Input Properties**

Displays a list of input properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-28 Items displayed in Input Properties (Edit Step dialog box)**

Display item	Description
Input warning icon	If no mapping parameter value has been input for an input property that requires a mapping parameter setting,  is displayed.
<b>Key</b>	Displays the property key of each input property.
<b>Name</b>	Displays the name of each input property.
<b>Description</b>	Displays a brief description of each input property.
<b>Mapping Parameter</b>	Displays the mapping parameter for each input property.

**Clear** button

Click this button to delete the mapping parameter set for the input property.

**Edit** button

Click this button to edit the selected input property. The **Specify Plug-in Input Properties for Mapping** dialog box appears.

**Specify Plug-in Output Properties for Mapping**

Click this to display a list of output properties.

**Output Properties**

Displays a list of output properties. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-29 Items displayed in Output Properties (Edit Step dialog box)**

Display item	Description
Key	Displays the property key for each output property.
Name	Displays the name of each output property.
Description	Displays a brief description of each output property.
Mapping Parameter	Displays the mapping parameter for each output property.

**Clear** button

Click this button to delete the mapping parameter set for the output property.

**Edit** button

Click this button to edit the selected output property. The **Specify Plug-in Output Properties for Mapping** dialog box appears.

**OK** button

Click this button to apply the changes.

**Cancel** button

Click this button to close the **Edit Step** dialog box.

## Specify Plug-in Input Properties for Mapping dialog box

Use the **Specify Plug-in Input Properties for Mapping** dialog box to set a mapping parameter for an input property. To display the **Specify Plug-in Input Properties for Mapping** dialog box, in the **Create Step** dialog box or in the **Edit Step** dialog box, click the **Edit** button in the **Input Properties** section.

Specify a mapping parameter for properties.

Key: plugin.destinationHost

Name: Host name of the execution target server

Description: Specify the host name or IP address of the server on which this plugin will be executed. IPv6 addresses are not supported.

Input Method: ☒ Select a Property from Service Properties ☐ Direct Input

Mapping Parameter: \* (Not Set)

Key	Name	Description
jp1base.jp1BaseHostN...	JP1/Base host name	Specifies the host name or IP address ...
jp1base.jp1BaseLHost...	Logical host name of ...	Specify the logical host name of JP1/Ba...
jp1base.listJP1UserOu...	JP1 user list output fil...	Specify the file name using the full pat...
jp1base.listJP1UserOu...	JP1 user list output fil...	Specify the file name using the full pat...
reserved.task.dir	Task data folder	A reserved property to reference the pa...

Select Service Share Property Add Input Property Add Variable

\* Required OK Cancel

**Figure 7-48 Specify Plug-in Input Properties for Mapping dialog box**

This dialog box displays the following items:

### Key

Shows the property key of the input property.

### Name

Shows the name of the input property.

### Description

Shows a brief description of the input property.

### Input Method radio button

Select how to specify the mapping parameter. The **Input Method** radio button might not be displayed depending on the property you are editing.

- **Select a Property from Service Properties**

Select this option to select a service property you want to set as the mapping parameter from a list. **Service Properties** is displayed.

- **Direct Input**

Select this option to directly enter the value for the input property. The **Mapping Parameter** text box is displayed.

### Mapping Parameter

How you specify the mapping parameter depends on the display status of this dialog box as follows:

- When **Service Properties** is displayed:  
Select a service property you want to set as the mapping parameter from **Service Properties**. The property key of the selected service property is displayed.
- When the **Mapping Parameter** text box is displayed (when the **Input Method** radio button is displayed):  
Directly enter the mapping parameter. The text box allows a maximum of 1,024 characters.
- When the **Mapping Parameter** text box is displayed (when the **Input Method** radio button is not displayed):  
Directly enter the mapping parameter. Enter an integer in the range from the minimum value to the maximum value set for the input property.
- When the **Mapping Parameter** list box is not displayed:  
Select the mapping parameter from the list box.

### Service Properties

Displays a list of service properties that can be used for mapping to the input property. If you click a service property, the property is specified as the mapping parameter. **Service Properties** is displayed when you select **Select a Property from Service Properties** for the **Input Method** radio button. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-30 Items displayed in Service Properties (Specify Plug-in Input Properties for Mapping dialog box)**

Display item	Description
Key	Displays the property key of each property.
Name	Displays the name of each property.
Description	Displays a brief description of each property.

### Select Service Share Property button

Click this button to add a service share property as an input property. The **Select Service Share Property** dialog box appears.

### Add Input Property button

Click this button to add an input property. The **Create Input Property for Service** dialog box appears.

**Add Variable** button

Click this button to add a variable. The **Create Variable** dialog box appears.

**OK** button

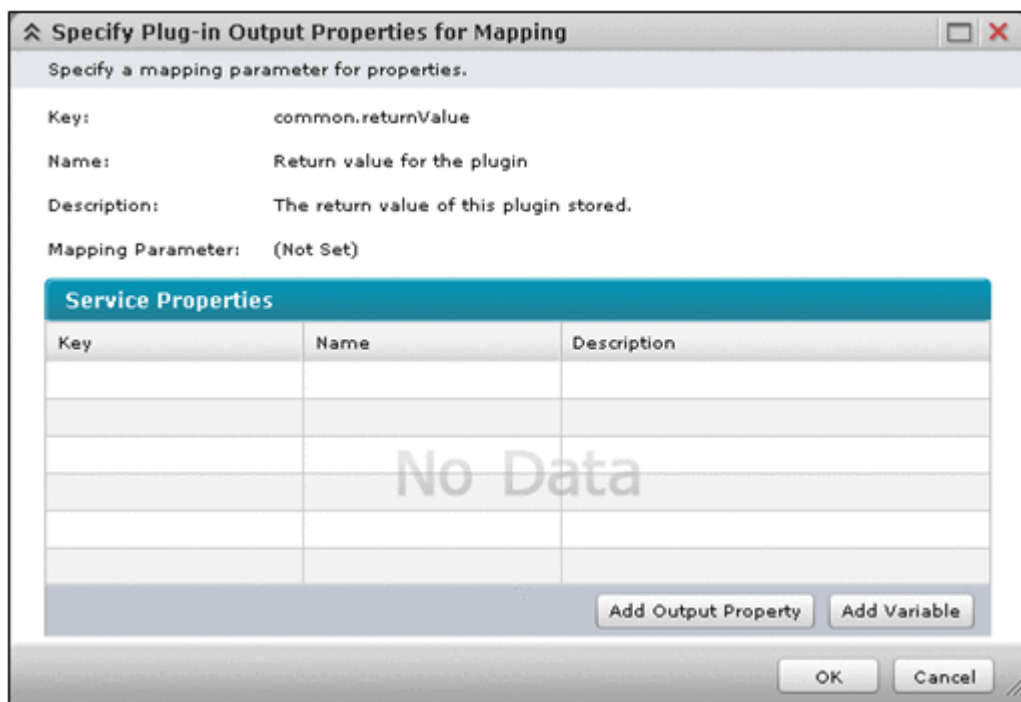
Click this button to set the mapping parameter for the input property.

**Cancel** button

Click this button to close the **Specify Plug-in Input Properties for Mapping** dialog box.

## Specify Plug-in Output Properties for Mapping dialog box

Use the **Specify Plug-in Output Properties for Mapping** dialog box to set a mapping parameter for an output property. To display the **Specify Plug-in Output Properties for Mapping** dialog box, in the **Create Step** dialog box or in the **Edit Step** dialog box, click the **Edit** button in the **Output Properties** section.



**Figure 7-49 Specify Plug-in Output Properties for Mapping dialog box**

This dialog box displays the following items:

**Key**

Shows the property key of the output property.

**Name**

Shows the name of the output property.

**Description**

Shows a brief description of the output property.

**Mapping Parameter**

Shows the service property key that has been mapped.

**Service Properties**

Displays a list of service properties that can be used for mapping to the output property. If you click a service property, the property is specified as the mapping parameter. If you click the column title of a display item, the data will be sorted in ascending or descending order.

**Table 7-31 Items displayed in Service Properties (Specify Plug-in Output Properties for Mapping dialog box)**

Display item	Description
Key	Displays the property key of each property.
Name	Displays the name of each property.
Description	Displays a brief description of each property.

**Add Output Property** button

Click this button to add an output property. The **Create Output Property for Service** dialog box appears.

**Add Variable** button

Click this button to add a variable. The **Create Variable** dialog box appears.

**OK** button

Click this button to set the mapping parameter for the output property.

**Cancel** button

Click this button to close the **Specify Plug-in Output Properties for Mapping** dialog box.





# Commands

This chapter describes the commands available in JP1/AO.

- ☐ [List of commands](#)
- ☐ [Notes on using the commands](#)
- ☐ [Valid characters for arguments in a command](#)
- ☐ [Command description format](#)
- ☐ [Configuration-related commands](#)
- ☐ [Operation-related commands](#)
- ☐ [Maintenance-related commands](#)

## List of commands

The following tables list the commands available in JP1/AO.

**Table 8-1 Configuration-related commands**

Command name	Function	See:
<code>encryptpassword</code> (creating a password file)	Creates a password file that you can specify as an argument in a command.	<a href="#">encryptpassword (creating a password file) on page 8-7</a>
<code>hcmdscheckauth</code> (verifying the connection with the external authentication server)	Verifies the settings in the configuration file for external authentication server linkage and the connection with the external authentication server (JP1/Base) when JP1/AO links with the authentication function in JP1/Base.	<a href="#">hcmdscheckauth (verifying the connection with the external authentication server) on page 8-9</a>
<code>hcmdsfwcancel</code> (adding an exception to the Windows Firewall exceptions list)	Adds an exception so that Windows Firewall does not block communication between the JP1/AO server and a Web browser. You use this command to change the port number on the JP1/AO server to which the Web browser connects.	<a href="#">hcmdsfwcancel (adding an exception to the Windows Firewall exceptions list) on page 8-11</a>
<code>hcmdsintg</code> (deleting or checking authentication data)	Deletes authentication data stored in the repository on the server that manages user accounts. This command can also display the address of the server that stores authentication data.  You use this command to delete authentication data if you failed to delete those data during the uninstallation of JP1/AO.	<a href="#">hcmdsintg (deleting or checking authentication data) on page 8-11</a>
<code>setupcluster</code> (configuring a cluster environment)	Configures a JP1/AO cluster environment.	<a href="#">setupcluster (configuring a cluster environment) on page 8-13</a>

**Table 8-2 Operation-related commands**

Command name	Description	See:
<code>deleteservicetemplate</code> (deleting a service template)	Deletes a service template stored in JP1/AO.	<a href="#">deleteservicetemplate (deleting a service template) on page 8-15</a>
<code>hcmdschgurl</code> (updating URL information)	Updates access (URL) information that is stored in the repository for Common Component and used for starting an application.  You use this command if the system configuration	<a href="#">hcmdschgurl (updating URL information) on page 8-17</a>

Command name	Description	See:
	change is made after operation of JP1/AO started.	
<code>hcmdssrv</code> (starting and stopping JP1/AO, and displaying the status of JP1/AO)	Starts and stops the services and databases of JP1/AO. This command can also display the status of the JP1/AO services.	<a href="#">hcmdssrv (starting and stopping JP1/AO, and displaying the status of JP1/AO) on page 8-19</a>
<code>hcmdsunlockaccount</code> (unlocking a user account)	Unlocks a user account. You use this command when all the user accounts are locked and the users cannot log in to JP1/AO.	<a href="#">hcmdsunlockaccount (unlocking a user account) on page 8-22</a>
<code>importservicetemplate</code> (importing one or more service templates)	Adds one or more service templates to JP1/AO.	<a href="#">importservicetemplate (importing one or more service templates) on page 8-24</a>
<code>listservices</code> (outputting the list of services or service templates)	Outputs the CSV-formatted list of the services or service templates registered in JP1/AO.	<a href="#">listservices (outputting the list of services or service templates) on page 8-26</a>
<code>listtasks</code> (outputting the list of tasks)	Outputs the CSV-formatted list of the tasks or histories.	<a href="#">listtasks (outputting the list of tasks) on page 8-30</a>
<code>stoptask</code> (stopping a task)	Stops execution of a task by specifying the ID of the task.	<a href="#">stoptask (stopping a task) on page 8-34</a>
<code>submittask</code> (performing a service)	Performs a service by specifying the name of the service to be performed and the property values.	<a href="#">submittask (executing a service) on page 8-36</a>

**Table 8-3 Maintenance related commands**

Command name	Description	See:
<code>backupsystem</code> (backing up the JP1/AO system)	Backs up the configuration and database information of JP1/AO to store the data in the specified folder.	<a href="#">backupsystem (backing up the JP1/AO system) on page 8-41</a>
<code>hcmdsdrepair</code> (re-creating the databases)	Forces the databases to be deleted, re-creates them, and then recovers them using the backup data. You use this command when the database is corrupted and the <code>restoresystem</code> and <code>hcmdsdtrans</code> commands cannot restore the database.	<a href="#">hcmdsdrepair (re-creating the database) on page 8-43</a>

Command name	Description	See:
<code>hcmdsdbsrv</code> (starting and stopping the databases)	Starts and stops the databases of JP1/AO. You use this command when maintaining the databases.	<a href="#">hcmdsdbsrv (starting and stopping the databases) on page 8-45</a>
<code>hcmdsdbtrans</code> (backing up and restoring the databases)	Backs up and restores the databases of JP1/AO. You use this command when re-organizing the databases of JP1/AO.	<a href="#">hcmdsdbtrans (backing up and restoring the databases) on page 8-46</a>
<code>hcmdsgetlogs</code> (collecting log information)	Collects log information recorded during JP1/AO operation to output the information to the archive file.	<a href="#">hcmdsgetlogs (collecting log information) on page 8-49</a>
<code>restoresystem</code> (restoring the JP1/AO system)	Restores the backup data, such as the configuration and database information of JP1/AO, obtained by the <code>backupsystem</code> command.	<a href="#">restoresystem (restoring the JP1/AO system) on page 8-53</a>

## Notes on using the commands

This section provides a list of notes when you use the commands.

- You must open a command prompt as an administrator if you want to execute any command that requires Administrator permissions on a Windows Server 2008 host. You can open a command prompt as an administrator by right-clicking **Command Prompt** in the **Start** menu of Windows and then selecting **Run as administrator**. However, if the User Account Control (UAC) feature is disabled, you do not have to open a command prompt as the administrator.
- If you enable the QuickEdit mode in the command prompt window, clicking the command prompt window suspends the window output until you resume the output. For this reason, we recommend that you do not use the QuickEdit mode.
- If you want to use a command in a cluster environment, run the command in the executing host.
- If you want to suspend the execution of a command, press the **Ctrl + C** keys. After the command is suspended, check the suspension message for any problem. If you want to resume the command, then execute it again.
- Do not press the **Ctrl + S** keys while a command is being executed. If you do so, the command output is stopped.
- You cannot execute any commands other than the `submittask` and `stoptask` commands with other JP1/AO commands at the same time.
- You might get a return value other than 2 (The command execution has been interrupted) depending on the type of the command when you interrupt the command immediately after its execution.
- You can execute a maximum 10 instances of the `submittask` command and a maximum of 10 instances of the `stoptask` commands concurrently.

If you attempt to execute the 11th instance, the following message appears and the task is not executed:

KNAE03236-E No more commands can be executed at the moment. Wait until one or more currently executing commands end, and then try again.

- When you execute the following commands, you can change the subject identification information that will be output to the audit log by changing the property file settings:
  - `deleteservicetemplate` command
  - `importservicetemplate` command
  - `listservices` command
  - `listtasks` command
  - `stoptask` command
  - `submittask` command

### Related topic

- Topic *Properties file (config\_user.properties) in the Job Management Partner 1/Automatic Operation Configuration Guide*

## Valid characters for arguments in a command

This section describes the valid characters for arguments in a command.

- You can specify arguments in a command according to the specification of the Windows command prompt. Based on the specification, you must enclose an argument in double quotation marks (") if the argument contains any space or special characters.
- The following characters are available when you specify a path argument in each command:  
Half-width alphanumeric characters, `_`, `.`, `-`, (space), `(`, `)`, `#`, `@`, `:`, `\`
- `:` can only be used to separate a drive letter.
- `\` can only be used to separate folders.
- You cannot specify a path in the UNC format when specifying the path as an argument.
- You cannot use a path whose folder name is preceded or followed by a space character when specifying the path as an argument. Also, you cannot use a folder name that only has the space characters.
- You cannot use a path whose folder name is preceded or followed by a period (.) when specifying the path as an argument. Also, you cannot use a folder name that only has the periods.
- Unless otherwise specified, you can use 1-230 characters for the absolute path.
- Unless otherwise specified, arguments for each command are case sensitive.

- The names shown below are reserved keywords in the OS. Do not use them for file and folder names.  
CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, LPT9

## Command description format

This section explains the format of command descriptions.

Each command description has the following information. However, some commands do not have all of the information.

### Description

Describes the functionality of the command.

### Syntax

Describes the command syntax as follows:

*command-name* [ [/option[*value*]] ... ]

The combination of /*option* and *value* is referred to as an *option*. The term *arguments* is also used as a generic term for *options*.

### Arguments

Describes the arguments of the command.

### Located in

Shows the directory where the command is located.

### Execute permission

Describes user permission required to execute the command.

### Remarks

Contains what you have to be aware of when you use the command.

### Return code

Lists the return codes from the command.

For details about the messages shown when the command is executed, see the manual *Job Management Partner 1/Automatic Operation Messages*.

Some commands output audit logs. For details about the commands that output audit logs, actions to be audited, and IDs of the messages to be output, see the topic *Event types output to audit log* in the manual *Job Management Partner 1/Automatic Operation Administration Guide*.

### Example

Shows sample usage of the command.

# Configuration-related commands

## encryptpassword (creating a password file)

### Description

This command creates a password file that you can specify as an argument in a JP1/AO command.

You can execute the command with the user ID and password of a user registered in JP1/AO and the path to the password file to be created for that user to create an encrypted password file.

By specifying the created password file instead of the password when each command is executed, specifying the password is no longer needed.

### Syntax

```
encryptpassword  
    /user user-ID  
    /password password  
    /passwordfile password-file-path
```

### Arguments

*/user user-ID*

This option specifies the user ID of a JP1/AO user for which you want to create a password file.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, !, #, \$, %, &, ' , ( , ) , \* , + , - , . , = , @ , \ , ^ , \_ , and | .

This option is not case sensitive.

*/password password*

This option specifies the password of the user indicated by the */user* option.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the */user* option.

*/passwordfile password-file-path*

This option specifies the absolute or relative path to the password file to be created. An error occurs if the specified path exists.

### Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	An exclusive error occurred.
5	Communication failed.
6	Authentication failed. (The specified value is invalid.)
7	An invalid path is specified.
8	The output path already exists.
9	The specified path does not exist.
10	The specified path is not accessible.
14	You do not have permission to execute the command.
200	Creating the password file failed.
255	The command execution has been interrupted due to an error other than the above.

## Example

The following command shows an example of how to create a password file for the specified user:

```
encryptpassword /user user01 /password pass01 /passwordfile  
passfile
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)



# hcmdscheckauth (verifying the connection with the external authentication server)

## Description

This command verifies the settings in the configuration file for external authentication server linkage and the connection with the external authentication server (JP1/Base) when JP1/AO links with the authentication function in JP1/Base.

This command checks whether:

- The `auth.server.type` key in the configuration file for external authentication server linkage (`exauth.properties`) has a valid value specified.  
If JP1/AO links with the authentication function in JP1/Base, set the `auth.server.type` key to `jplbase`. The key is case sensitive. If the default value for the `auth.server.type` key (that is, `internal`) is specified, an error message appears indicating the setting for using the external authentication server is not enabled.
- The same host has JP1/Base and Common Component.
- JP1/AO supports the current version of JP1/Base.
- Users of JP1/Base can be properly authenticated.

## Syntax

```
hcmdscheckauth
    /user JP1-user-name
    /pass password
    [/summary]
```

## Arguments

`/user JP1-user-name`

This option specifies the user name of a JP1 user who has already been registered in the external authentication server (JP1/Base).

`/pass password`

This option specifies the password for the user name of a JP1 user who has already been registered in the external authentication server (JP1/Base).

`/summary`

This option simplifies the confirmation message that appears when the command is executed. If this option is specified, the messages to be displayed are limited to messages indicating whether each processing phase is successful or failed, error messages, and messages indicating the results. However, if an error message similar to the message indicating the results is to appear, the former error message is omitted and only the latter resulting message is displayed.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Return code

Return code	Description
0	The command succeeded.
1-99	This code indicates the total number of syntax errors.
100	This is the return code when the number of syntax errors exceeds 100 lines.
101-199	A connection or authentication error occurred. Unit's place: Number of connection errors Ten's place: Number of authentication errors The maximum number of each place is nine. If more than nine errors occur, each place displays nine.
248	JP1/Base is not installed on the same host as the one on which this command is executed.
249	The unsupported version of JP1/Base is used.
250	The command is executed on the secondary server.
252	The common item setting in the definition file is incorrect.
253	External authentication linkage is not set.
254	The argument is invalid.
255	The command terminated abnormally.

## Example

The following command shows an example of how to verify the connection with the external authentication server (JP1/Base):

```
hcmdscheckauth /user test01 /pass TTdate00 /summary
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

## hcmsfwcancel (adding an exception to the Windows Firewall exceptions list)

### Description

This command adds an exception so that Windows Firewall does not block communication between the JP1/AO server and a Web browser. You use this command when you change the port number on the JP1/AO server to which the Web browser connects from the default value.

### Syntax

```
hcmsfwcancel
```

### Located in

*Common-Component-installation-folder\bin*

### Execute permission

Execute the command as a user with Administrator permissions.

### Return code

This command has no return code. For this reason, to confirm that the processing is successful, open the Windows Firewall settings to see that your exception is properly added to the exceptions list.

To check the Windows Firewall settings, in Windows **Control Panel**, open **Windows Firewall**.

## hcmsintg (deleting or checking authentication data)

### Syntax

This command deletes authentication data stored in the repository on the server that manages user accounts. This command can also display the address of the server that stores authentication data.

You use this command to delete authentication data if you failed to delete those data during the uninstallation of JP1/AO.

### Syntax

```
hcmsintg
    {/delete /type Automation | /print | /primary }
    /user user-ID
    /pass password
```

### Arguments

```
/delete
```

This option causes the command to delete authentication data.

`/type Automation`

This option specifies `Automation` as the product name of the server that stores authentication data.

`/print`

This option causes the command to display the name of the program with which authentication data is registered.

`/primary`

This option causes the command to display the host name or IP address of the server that stores authentication data.

`/user user-ID`

This option specifies the user ID for connecting the server that stores authentication data. You specify the user ID of the account with User Management permission.

`/pass password`

This option specifies the password of the account with User Management permission.

## Located in

`Common-Component-installation-folder\bin`

## Execute permission

Execute the command as a user with Administrator permissions.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	Authentication data has already been deleted.
2	Authentication data is stored on the server on which the command is executed.
3	Authentication data is not stored on the server on which the command is executed.
4	Authentication data is not stored on the server on which the command is executed. Also, an authentication error occurred on the server that stores authentication data.
253	An authentication error occurred on the server that stores authentication data.
254	Communication with the server that stores authentication data failed.

Return code	Description
255	The command terminated abnormally.

## Example

The following command shows an example of how to delete authentication data from the server that manages user accounts:

```
hcmdsintg /delete /type Automation /user user1 /pass pass1
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# setupcluster (configuring a cluster environment)

## Description

This command configures a JP1/AO cluster environment. You need to execute the command on both executing and standby hosts.

You can execute the command with the path on the shared disk to which the databases and data are backed up to configure the cluster environment.

After the command is executed, a message appears indicating ongoing processes.

## Syntax

```
setupcluster
    /exportpath path-to-which-the-databases-and-data-are-backed-up
    /jpluser JP1-user-name
```

## Arguments

```
/exportpath path-to-which-the-databases-and-data-are-backed-up
```

This option specifies the absolute or relative path to the folder to which the databases and data on which this command is executed are backed up. You must specify the folder on the shared disk that has sufficient free space. The maximum length of the path name is 49 characters.

```
/jpluser JP1-user-name
```

This option specifies the JP1 user name.

## Located in

```
JP1/AO-installation-folder\bin
```

## Execute permission

Execute the command as a user with Administrator permissions. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
5	Communication failed.
7	An invalid path is specified.
9	The specified path does not exist.
10	The specified path is not accessible.
11	The specified folder is not empty.
14	You do not have permission to execute the command.
120	Setting up the cluster failed.
121	The specified JP1 user does not have permission to set up the task-processing engine.
255	The command execution has been interrupted due to an error other than the above.

## Example

The following command shows an example of how to configure a cluster environment. In this example, the databases are re-created and the data is backed up in the path on the shared folder specified on the executing host (in the case of the standby host, the same command is used).

```
setupcluster /exportpath Z:\share /jpluser JP1_AO_Admin
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# Operation-related commands

## deleteservicetemplate (deleting a service template)

### Description

This command deletes a service template stored in JP1/AO.

You can execute the command with the service template ID, vendor ID, and version number of a service template that you want to delete to delete the specified service template.

### Syntax

```
deleteservicetemplate
    /name service-template-ID
    /vendor vendor-ID-of-the-service-template
    /version version-number-of-the-service-template
    /user user-ID
    {/password password | /passwordfile password-file-path}
```

### Arguments

*/name service-template-ID*

This option specifies the service template ID of the service template that you want to delete.

This option is not case sensitive.

The number of possible characters is in the range from 1 to 64 characters.

The possible characters are half-width alphanumeric characters, -, \_, and ..

*/vendor vendor-ID-of-the-service-template*

This option specifies the vendor ID of the service template that you want to delete.

This option is not case sensitive.

The number of possible characters is in the range from 1 to 64 characters.

The possible characters are half-width alphanumeric characters, -, \_, and ..

*/version version-number-of-the-service-template*

This option specifies the version number of the service template that you want to delete in *XX.YY.ZZ* format.

The possible characters for *XX*, *YY*, and *ZZ* are two-digit half-width numeric characters, which are from 00 through 99.

- *XX*: Major version number
- *YY*: Minor version number

- ZZ: Revision number

`/user user-ID`

This option specifies the user ID for JP1/AO.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, !, #, \$, %, &, ', (, ), \*, +, -, ., =, @, \, ^, \_ and |.

This option is not case sensitive.

`/password password`

This option specifies the password of the user indicated by the `/user` option.

You must specify either this option or the `/passwordfile` option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the `/user` option.

`/passwordfile password-file-path`

This option specifies the absolute or relative path to the password file for the user specified in the `/user` option. You can create a password file by using the `encryptpassword` command.

You must specify either this option or the `/password` option. If both options are specified, or if neither are specified, then you will get an error.

## Located in

`JP1/AO-installation-folder\bin`

## Execute permission

Execute the command as a user with both Administrator permissions for the OS and the Admin (or Develop) role for JP1/AO. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.



Return code	Description
3	The service status is invalid.
4	One of the other commands is running.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
9	The specified path does not exist.
14	You do not have permission to execute the command.
190	Deleting the service template failed.
255	The command execution has been interrupted due to an error other than the above.

### Example

The following command shows an example of how to delete the specified service template:

```
deleteservicetemplate /name nameA /vendor vendorB /version
01.00.00 /user user01 /password pass01
```

### Related topic

- [Valid characters for arguments in a command on page 8-5](#)

## hcmdschgurl (updating URL information)

### Description

This command updates access (URL) information that is stored in the repository for Common Component and used for starting an application.

You use this command if either of the following configuration changes is made after operation of JP1/AO started:

- If the port used by a host that has Common Components installed is changed
- If the host name or IP address of a host that has Common Components installed is changed

### Syntax

```
hcmdschgurl
    {/list |
    /change URL-before-change URL-after-change |
    /change URL-after-change /type Automation}
```

## Arguments

`/list`

This option causes the command to display the list of URLs and product names currently set up.

`/change URL-before-change URL-after-change`

This option causes the command to overwrite the URL related information currently registered with the new URL related information.

You specify both the URL that is currently registered and the new URL. If you use the option together with the `/type` option, you only specify the new URL.

If you specify a URL with an IPv6 address, enclose the IP address in `[ ]`.

`/type Automation`

This option specifies `Automation` as the name of the product whose URL is to be changed.

## Located in

`Common-Component-installation-folder\bin`

## Execute permission

Execute the command as a user with Administrator permissions.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The URL cannot be found.
253	Restoring the repository failed.
254	Backing up the repository failed.
255	The command terminated abnormally.

## Example

The following commands show examples of how to use the command for each case.

- To display the list of URLs and product names currently set up:  
`hcmdschurl /list`
- To overwrite the URL related information currently registered with the new URL related information:

```
hcmdschgurl /change "http://192.168.11.33:23015" "http://  
192.168.11.55:23015"
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

## hcmdssrv (starting and stopping JP1/AO, and displaying the status of JP1/AO)

### Description

This command starts and stops the services and databases of JP1/AO. This command can also display the status of the JP1/AO services or change how to start the services.

Note that if you execute this command by specifying `AutomationWebService` for the `/server` option, you can start, stop, or display the status of, the services listed in the table below. Note that this command can also be used to start JP1/Base services `JP1/Base` and `JP1/Base Event`.

**Table 8-4 List of services that can be targets of this command**

Service display name and process	Starting	Stopping	Displaying status
HAutomation Engine Web Service	Y	Y	Y
HBase Storage Mgmt Common Service	Y	Y #1	Y
HBase Storage Mgmt Web Service	Y	Y #1	Y
HBase Storage Mgmt Web SSO Service	Y	Y #1	Y
HAutomation Engine	Y	Y	N
HAutomation Engine Database _JF0	Y	Y	N
JP1/Base	Y	N	N
JP1/Base Event	Y	N	N
Database process#2	Y	Y #1	Y

### Legend:

Y: The command works. N: The command does not work.

### #1:

The service does not stop while a service from the Hitachi Command Suite products is running.

#2:

These are the JP1/AO internal processes. The `hcmdssrv` command does not start and stop `HiRDB/EmbeddedEdition _HD0` that represents the database service.

## Syntax

```
hcmdssrv
    {/start | /stop | /check| /status}
    [/server service-name]
```

To see the status of services from JP1/AO and all the Hitachi Command Suite products:

```
hcmdssrv
    /statusall
```

To change how to start a service or services:

```
hcmdssrv
    /starttype {auto | manual}
    {/server service-name | /all}
```

## Arguments

`/start`

This option causes the command to start the service and database specified in the `/server` option.

`/stop`

This option causes the command to stop the service and database specified in the `/server` option.

`/check`

This option causes the command to display the status of the service and database specified in the `/server` option.

`/status`

This option causes the command to display the status of the service and database specified in the `/server` option.

`/server service-name`

If you want to start and stop only the service, or display its status, of the JP1/AO product, specify `AutomationWebService` for *service-name*. If this option is omitted, the command has an effect on the services from JP1/AO and all Hitachi Command Suite products that are installed.

`/statusall`

This option causes the command to display the status of the services and databases, and of the services from the Hitachi Command Suite products that are registered with Common Component.

`/starttype {auto | manual}`

This option specifies the start type of the service specified in the `/server` option.

To start the service automatically, use `auto`. To start the service manually, use `manual`.

`/all`

If this option is specified, the command has an effect on the services from JP1/AO and all Hitachi Command Suite products that are installed.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Remarks

- When you start and stop the services for JP1/AO in day-to-day operations, start and stop all the services without specifying the `/server` option. If you want to start only the services from the JP1/AO products with `/server` option, use `HBase` for the `/server` option to start the services from Common Component because these services must be started beforehand.
- Executing the command with the `/stop` option while a task is being processed terminates any processing running on the connection destination. For this reason, if any task is in execution status (In Progress, Waiting for Response, Abnormal Detection, or Terminated), you need to wait the status transition of the task to one of the ended status (Completed, Failed, or Canceled) or stop the execution of all the tasks, and then use the command with the option.
- If the service does not stop within three minutes after the command with the `/stop` option, the command terminates abnormally with a message indicating a timeout. In this case, wait a little while and then execute the command with the `/stop` option again.

## Return code

The following table lists the return codes from the command with the `/start` or `/stop` option.

Return code	Description
0	The command succeeded.
1	The service has already started (with the <code>/start</code> option). The service has already stopped (with the <code>/stop</code> option).
255	The command execution failed.

The following table lists the return codes from the command with the /  
check, /status, or /statusall option.

Return code	Description
0	The service is not running.
1	The service is running.
255	The command execution failed.

The following table lists the return codes from the command with the /  
starttype option.

Return code	Description
0	The command succeeded.
255	The command execution failed.

## Example

The following commands show examples of how to use the command for each case.

- To start the service from the JP1/AO products:  
`hcmdssrv /start /server AutomationWebService`
- To stop the service from the JP1/AO products:  
`hcmdssrv /stop /server AutomationWebService`
- To check the status of the service from the JP1/AO products:  
`hcmdssrv /status /server AutomationWebService`

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# hcmdsunlockaccount (unlocking a user account)

## Description

This command unlocks a user account. You use this command when all the user accounts are locked and the users cannot log in to JP1/AO.

## Syntax

```
hcmdsunlockaccount  
    /user user-ID  
    /pass password
```

## Arguments

```
/user user-ID
```

This option specifies the user ID of the user account that you want to unlock. You must specify the user ID with User Management permission.

`/pass password`

This option specifies the password of the user account that you want to unlock.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Remarks

Only a user account with User Management permission has the ability to unlock user accounts by using the `hcmdsunlockaccount` command.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
251	An authentication error occurred due to login failure.
252	An authentication error occurred due to a lack of User Management permission.
253	The communication with the authentication server failed.
254	The command is executed on the secondary server.
255	The command terminated abnormally.

## Example

The following command shows an example of how to unlock a user account:

```
hcmdsunlockaccount /user test01 /pass TTdate00
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# importservicetemplate (importing one or more service templates)

## Description

This command adds one or more service templates to JP1/AO. Adding service templates to JP1/AO is called *importing of service templates*.

You can execute the command with a single service template package or a zip file in which multiple service template packages are archived to import the specified service template package into JP1/AO.

## Syntax

```
importservicetemplate
    /file service-template-package-or-zip-file-in-which-multiple-
    service-template-packages-are-archived
    /user user-ID
    {/password password | /passwordfile password-file-path}
```

## Arguments

*/file service-template-package-or-zip-file-in-which-multiple-service-template-packages-are-archived*

This option specifies the absolute or relative path to the service template package to be imported or zip file in which multiple service template packages are archived.

*/user user-ID*

This option specifies the user ID for JP1/AO.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, !, #, \$, %, &, ' , ( , ) , \* , + , - , . , = , @ , \ , ^ , \_ , and | .

This option is not case sensitive.

*/password password*

This option specifies the password of the user indicated by the */user* option.

You must specify either this option or the */passwordfile* option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the */user* option.

*/passwordfile password-file-path*

This option specifies the absolute or relative path to the file that stores the password of the user specified in the */user* option.

You must specify either this option or the */password* option. If both options are specified, or if neither are specified, then you will get an error.



## Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with both Admin (or Develop) role and Administrator permissions for the OS. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Remarks

When the command imports a zip file in which multiple service template packages are archived, the command continues processing even if some of the service template packages cannot be imported. Messages inform you of the service template packages that could not be imported. If such messages are displayed, check the messages, correct the causes of the failures, and then re-import the relevant service template packages.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
9	The specified path does not exist.
14	You do not have permission to execute the command.
180	Importing the service template failed.
255	The command terminated abnormally.

## Example

The following commands show examples of how to use the command for each case.

- To import the specified service template package into JP1/AO:  

```
importservicetemplate /file C:\temp\aaa.st /user user1 /  
password pass1
```

- To import a zip file in which the specified multiple service template packages are archived into JP1/AO:  

```
importservicetemplate /file C:\temp\bbb.zip /user user1 /
password pass1
```

### Related topic

- [Valid characters for arguments in a command on page 8-5](#)
- *Topic Notes on defining Service Share Properties in the Job Management Partner 1/Automatic Operation Developer's Guide*

## listservices (outputting the list of services or service templates)

### Description

This command outputs the CSV-formatted list of the services or service templates registered in JP1/AO.

You can output the list of the services, including the vendor name and version number, or of the service templates.

### Syntax

```
listservices
  /output {services | servicetemplates}
  /file output-file-path
  [/encoding {UTF-8 | Shift_JIS}]
  /user user-ID
  {/password password | /passwordfile password-file-path}
```

### Arguments

```
/output {services | servicetemplates}
```

This option specifies which information is output in the list.

- `services`  
Outputs the list of services.
- `servicetemplates`  
Outputs the list of service templates.

```
/file output-file-path
```

This option specifies the absolute or relative path to the output file. An error occurs if the specified file exists.

```
/encoding {UTF-8 | Shift_JIS}
```

This option specifies the encoding of the output file. If this option is omitted, the default encoding of the OS is used.

```
/user user-ID
```

This option specifies the user ID for JP1/AO.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, !, #, \$, %, &, ', (, ), \*, +, -, ., =, @, \, ^, \_ , and |.

This option is not case sensitive.

`/password password`

This option specifies the password of the user indicated by the `/user` option.

You must specify either this option or the `/passwordfile` option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the `/user` option.

`/passwordfile password-file-path`

This option specifies the absolute or relative path to the password file for the user specified in the `/user` option. You can create a password file by using the `encryptpassword` command.

You must specify either this option or the `/password` option. If both options are specified, or if neither are specified, then you will get an error.

## Output format

The output items are output in CSV format in a single line per service or service template.

The values for each output item are enclosed in double quotation marks ("). Any double quotation mark (") contained in the value is escaped with another one added in front of the mark.

**Table 8-5 Output format of the lists of services and service templates**

Type of output information	Output item	Description
List of services	Name	Service name
	Description	Description
	Category	Category name
	Resource Group	Resource group
	Service Template	Service template name
	Vendor	Vendor name
	Version	Service version
	Configuration Type <sup>#</sup>	Configuration type
List of service templates	Name	Service template name

Type of output information	Output item	Description
	Service ID	Service template ID
	Description	Description
	Version	Service template version
	Category	Category name
	Vendor	Vendor name
	Vendor ID	Vendor ID
	Configuration Type <sup>#</sup>	Configuration type

#

The configuration type is output only if the Admin or Develop role for the target resource groups has been set from the user group that the user belongs to.

The following list shows some examples of file outputs.

- For the list of services  

```
"Name", "Description", "Category", "Resource Group", "Service
Template", "Vendor", "Version"
"Remote command execution", "The service executes the commands on
the remote target server.", "OS_Operations/Basic", "All
Resources", "Remote command execution", "Hitachi, Ltd", "01.00.00"
"Virtual server migration", "The service migrates multiple
virtual servers on a VMware vSphere environment.", "VM_Operations/
Management", "All Resources", "Virtual server migration", "Hitachi,
Ltd", "01.00.00"
```
- For the list of service templates  

```
"Name", "Service
ID", "Description", "Version", "Category", "Vendor", "Vendor ID"
"JP1/AJS jobnet execution registration", "JP1AJSJobnetEntry", "The
template performs execution registration of JP1/AJS
jobnet.", "01.00.00", "JP1_Operations/Management", "Hitachi,
Ltd", "com.hitachi.software.dna.cts.jp1"
"JP1/AJS and JP1/Base logging", "getJP1AJSandJP1BaseLog", "The
template obtains JP1/AJS and JP1/Base
logs.", "01.00.00", "JP1_Operations/Troubleshoot", "Hitachi,
Ltd", "com.hitachi.software.dna.cts.jp1"
```

## Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions for the OS.

To output a list of services, the Admin, Develop, Modify, or Submit role must be set for the target resource groups from the user group that the user who

executes the command belongs to. The command does not output a list of services for any resource groups for which none of these roles are set.

To output a list of service templates, the Admin, Develop, or Modify role must be set for the target resource groups from the user group that the user who executes the command belongs to.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
8	The file with the same name already exists in the output path.
9	The specified path does not exist.
10	The specified path is not accessible.
12	An invalid encoding is specified.
13	Outputting the file failed.
14	You do not have permission to execute the command.
160	Obtaining the list of services failed.
161	Obtaining the list of service templates failed.
255	The command execution has been interrupted due to an error other than the above.

## Example

The following commands show examples of how to use the command for each case.

- To output the list of registered services to a file in default encoding of the OS:  

```
listservices /output services /file list01 /user user01 /password pass01
```
- To output the list of registered service templates to a file in UTF-8 encoding:  

```
listservices /output servicetemplates /file list02 /encoding UTF-8 /user user02 /password pass02
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# listtasks (outputting the list of tasks)

## Description

This command outputs the CSV-formatted list of the tasks or histories.

You can specify an option for the command to output the task information from the **Tasks** or **Task Histories** view. In addition, you can specify a period to filter the task information to be output.

## Syntax

```
listtasks
    [/startrange {yyyy-mm-dd|,yyyy-mm-dd|yyyy-mm-dd,yyyy-mm-dd}]
    /output {tasks | histories}
    /file output-file-path
    [/encoding {UTF-8 | Shift_JIS}]
    /user user-ID
    {/password password | /passwordfile password-file-path}
```

## Arguments

*/startrange {yyyy-mm-dd|,yyyy-mm-dd|yyyy-mm-dd,yyyy-mm-dd}*

This option specifies the start date or scheduled start date of tasks to filter the tasks to be output.

*yyyy* must have a four-digit year in half-width numeric characters. *mm* must have a month from 1 (or 01) to 12 in half-width numeric characters. *dd* must have a day from 1 (or 01) to 31 in half-width numeric characters.

- *yyyy-mm-dd*  
This option causes the command to output the tasks that started or are scheduled to start on and after the specified date.
- *,yyyy-mm-dd*  
This option causes the command to output the tasks that started or are scheduled to start on and before the specified date.
- *yyyy-mm-dd,yyyy-mm-dd*  
This option causes the command to output the tasks that started or are scheduled to start within the specified period. The date on the right side of *,* can accept any date on and after the date specified on the left side.

For recurring tasks, tasks scheduled to start up to the next time are output, and any tasks scheduled to start subsequently are not output.

If you want to output waiting tasks, specify a scheduled date and time instead of a start data and time if the tasks are recurring and scheduled

tasks. If they are immediate tasks, specify a submitted data and time. You can see the submitted date and time in the **Task Details** dialog box. If this option is omitted, all the tasks viewable to users are output.

`/output {tasks | histories}`

This option specifies which information is output in the list.

- `tasks`  
Outputs the list of the tasks from the **Tasks** view.
- `histories`  
Outputs the list of the histories from the **Task Histories** view.

`/file output-file-path`

This option specifies the absolute or relative path to the file in which the list is output. An error occurs if the specified file exists.

`/encoding {UTF-8 | Shift_JIS}`

This option specifies the encoding of the output file. If this option is omitted, the default encoding of the OS is used.

`/user user-ID`

This option specifies the user ID for JP1/AO.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, `!`, `#`, `$`, `%`, `&`, `'`, `(`, `)`, `*`, `+`, `-`, `.`, `=`, `@`, `\`, `^`, `_`, and `|`.

This option is not case sensitive.

`/password password`

This option specifies the password of the user indicated by the `/user` option.

You must specify either this option or the `/passwordfile` option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the `/user` option.

`/passwordfile password-file-path`

This option specifies the absolute or relative path to the password file for the user specified in the `/user` option. You can create a password file by using the `encryptpassword` command.

You must specify either this option or the `/password` option. If both options are specified, or if neither are specified, then you will get an error.

## Output format

The output items are output in a single line per task in CSV format.

The values for each output item are enclosed in double quotation marks ("). Any double quotation mark (") contained in the value is escaped with another one added in front of the mark.

**Table 8-6 Output items in the list of tasks**

Output item	Description
Task Name	Task name
Status	Status
Scheduled Start Time	Scheduled start date and time
Start Time	Start date and time
End Time	End date and time
Task Type	Task type
Task ID	Task ID
Description	Task description
Service Name	Service name
Resource Group	Resource group
Category	Service category
Submit User Name	User who executed the task
Submission Time	Submitted date and time
Recurrence Cycle	Recurrence pattern
Recurrence Time	Recurrence time
Recurrence Start Day	Start date of recurrence
Configuration Type <sup>#</sup>	Configuration type

#

The configuration type is output only if the Admin or Develop role has been set for the target resource groups from the user group that the user belongs to.

The following list shows some examples of file outputs.

```
"Task Name","Status","Scheduled Start Time","Start Time","End
Time","Task Type","Task ID","Description","Service Name","Resource
Group","Category","Submit User Name","Submission Time","Recurrence
Cycle","Recurrence Time","Recurrence Start Day"
```

```
"Virtual server migration_20120822163011","Failed","", "2012-08-22
16:30:22","2012-08-22 16:30:32","Immediate task","3448","", "Virtual
server migration","All Resources","VM_Operations/
Management","System","2012-08-22 16:30:22","", "", ""
```

```
"Waiting response input_single plug-
in_20120822163002","Completed","", "2012-08-22 16:30:07","2012-08-22
16:38:44","Immediate task","3422","", "Waiting response input_single
plug-in","All Resources","PT/UserResponse","System","2012-08-22
16:30:05","", "", ""
```



## Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions for the OS. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

The Admin, Develop, Modify, or Submit role must be set for the target resource groups from the user group that the user who executes the command belongs to. The command does not output a list of tasks for any resource groups for which none of these roles are set.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
8	The file with the same name already exists in the output path.
9	The specified path does not exist.
10	The specified path is not accessible.
12	An invalid encoding is specified.
13	Outputting the file failed.
14	You do not have permission to execute the command.
150	Obtaining the list of tasks failed.
151	Obtaining the list of histories failed.
255	The command execution has been interrupted due to an error other than the above.

## Example

The following commands show examples of how to use the command for each case.

- To output the list of registered tasks to a file in default encoding of the OS:  
`listtasks /output tasks /file list01 /user user01 /password pass01`
- To output the tasks in the **Task Histories** view that started or are scheduled to start from January 1, 2012 to March 31, 2012 to a file in UTF-8 encoding:  
`listtasks /startrange 2012-01-01,2012-03-31 /output histories /file list02 /encoding UTF-8 /user user02 /password pass02`

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

## stoptask (stopping a task)

### Description

This command stops execution of a task by specifying the ID of the task.

### Syntax

```
stoptask
    /taskid task-ID
    /user user-ID
    {/password password | /passwordfile password-file-path}
```

### Arguments

`/taskid task-ID`

This option specifies the task ID of the task of which you want to stop execution.

The possible values are half-width numeric characters (in decimal number) in 16 or fewer digits.

`/user user-ID`

This option specifies the user ID for JP1/AO.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, `!`, `#`, `$`, `%`, `&`, `'`, `(`, `)`, `*`, `+`, `-`, `.`, `=`, `@`, `\`, `^`, `_`, and `|`.

This option is not case sensitive.

`/password password`

This option specifies the password of the user indicated by the `/user` option.

You must specify either this option or the `/passwordfile` option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the `/user` option.

`/passwordfile password-file-path`

This option specifies the absolute or relative path to the password file for the user specified in the `/user` option. You can create a password file by using the `encryptpassword` command.

You must specify either this option or the `/password` option. If both options are specified, or if neither are specified, then you will get an error.

## Located in

`JPl/AO-installation-folder\bin`

## Execute permission

Execute the command as a user with Administrator permissions for the OS. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

The Admin, Develop, Modify, or Submit role must be set for the resource group of the target task from the user group that the user who executes the command belongs to. The command does not stop any tasks in a resource group for which none of these roles are set.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
9	The specified path does not exist.
14	You do not have permission to execute the command.
140	Stopping the execution of the task failed.

Return code	Description
255	The command execution has been interrupted due to an error other than the above.

## Example

The following command shows an example of how to stop execution of the task with the specified task ID:

```
stoptask /taskid 0001 /user user01 /password pass01
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# submittask (executing a service)

## Description

This command executes a specified service based on user-specified information such as the service name, resource group name, and property values. When the task is executed normally, a message reporting the task ID is output. The `/scheduledate` and `/scheduletime` options are used to specify the date and time that the service will be executed. If these options are omitted, the command executes the service immediately.

## Syntax

```
submittask
    /servicename service-name
    [/resourcegroup resource-group-name]
    [/taskname task-name]
    [/taskdescription task-description]
    [/property property-key property-value |
     /propertyfile property-file-path]
    /user user-ID
    {/password password | /passwordfile password-file-path}
    [/wait | /scheduledate YYYY-MM-DD /scheduletime hh:mm]
```

## Arguments

`/servicename service-name`

This option specifies the name of the service to be performed.  
The number of possible characters is in the range from 1 to 64 characters.

`/resourcegroup resource-group-name`

This option specifies the name of the resource group that the service to be performed belongs to.

If this option is omitted, the resource group associated with the user specified in the argument is used. However, if more than one resource group is associated with that user, an error occurs.

The number of possible characters is in the range from 1 to 63 characters. The possible characters are half-width alphanumeric characters and `_`.

However, a space character is allowed only if you specify the built-in resource group `All Resources`.

`/taskname task-name`

This option specifies the name of the task.

If this option is omitted, the system uses `service-name_YYYYMMDDhhmmss` (where `YYYYMMDDhhmmss` is the time when the service is performed) as a default name.

The number of possible characters is in the range from 1 to 128 characters. The possible characters are any characters other than the control characters (from `\u0000` to `\u001F` and from `\u007F` to `\u009F`).

`/taskdescription task-description`

This option specifies the description of the task.

If this option is omitted, the value is not set.

The number of possible characters is in the range from 1 to 256 characters. The possible characters are any characters other than the control characters (from `\u0000` to `\u001F` and from `\u007F` to `\u009F`).

`/property property-key property-value`

This option specifies the property key and value that the service to be performed uses. The system verifies whether the specified property value is valid according to the service template specifications.

For property keys that are not set by this option, the values specified in the **Service Definition** dialog box will be used. If values for required properties are specified in neither the **Service Definition** dialog box nor by this option, an error occurs.

This option and the `/propertyfile` option cannot be specified at the same time. If both options are specified, then an error occurs.

You can use multiple instances of this option to specify multiple property key and value combinations (format: `/property key-1 value-1 /property key-2 value-2 ...`). You can specify a maximum of 100 instances of this option.

- *property-key*

This option specifies the property key for the service.

The number of possible characters is in the range from 1 to 128 characters. The possible characters are half-width alphanumeric characters, `-`, `_`, and `.`.

If the same property key is specified more than once, then an error occurs.

- *property-value*

This option specifies the property value for the property key.

Any value containing a space or special character must be enclosed in double quotation marks (").

`/propertyfile property-file-path`

This option specifies the absolute or relative path to the property file, which defines the property settings that the service to be performed uses. For property keys that are not set in the property file specified by this option, the values specified in the **Service Definition** dialog box will be used. If values for required properties are specified in neither the **Service Definition** dialog box nor in the file specified by this option, an error occurs.

This option and the `/property` option cannot be specified at the same time. If both options are specified, then an error occurs.

The following table shows the format of the property file.

**Table 8-7 Property file format**

Item	Rule
Location	Anywhere (However, the user who executes the command must be able to access it.)
File name	Any file name
Definition format	<i>property-key=property-value</i> <i>property-key=property-value</i> ... (Each entry must be specified on a separate line.)
Definition example #	<code>common.targetHost=ajsagthost</code> <code>jplbase.jplBaseLHostName=lohost</code> <code>common.foreachIPAddress=192.168.1.xx,</code> <code>192.168.1.yy</code>

#

The property value delimiter varies depending on the service template to be used. The above examples use , as their delimiter.

The property keys and values must be defined in a single line per property key. The maximum number of definable combinations of property keys and values is 100 pairs.

The string until the first appearance of = is considered as a property key. The string from the character subsequent to the first = to the line break code (CR+LF) at the end of a line is considered as a property value. It is not considered whether the property file has a line break code at the end of the file.

`/user user-ID`

This option specifies the user ID for JP1/AO. Make sure that you specify the ID of a user that is associated with a resource group that the service specified by the `/servicename` option belongs to.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are half-width alphanumeric characters, `!`, `#`, `$`, `%`, `&`, `'`, `(`, `)`, `*`, `+`, `-`, `.`, `=`, `@`, `\`, `^`, `_`, and `|`.

This option is not case sensitive.

`/password password`

This option specifies the password of the user indicated by the `/user` option.

You must specify either this option or the `/passwordfile` option. If both options are specified, or if neither are specified, then you will get an error.

The number of possible characters is in the range from 1 to 256 characters.

The possible characters are the same as those for the `/user` option.

`/passwordfile password-file-path`

This option specifies the absolute or relative path to the password file for the user specified in the `/user` option. You can create a password file by using the `encryptpassword` command.

You must specify either this option or the `/password` option. If both options are specified, or if neither are specified, then you will get an error.

`/wait`

If this option is specified, the command outputs the task execution result (normal termination or failure), and then terminates. If the `/wait` option is not specified, the command terminates without waiting for the task to terminate. In this case, a message reporting the task ID is output only when the task execution has started normally. Do not specify the `/wait` option together with the `/scheduledate` and `/schedulesetime` options. If you do so, command execution will fail.

`/scheduledate`

If you want to execute the service according to a schedule, specify the date (year, month, and day) that the service will be executed in the `YYYY-MM-DD` format. In `YYYY`, specify a four-digit year. In `MM`, specify a month number from 1 (or 01) to 12. In `DD`, specify a day number from 1 (or 01) to 31. Note that when you specify the `/scheduledate` option, you must also specify the `/schedulesetime` option. The command execution will fail if:

- The `/schedulesetime` option is not specified.
- The `/wait` option is specified.
- The date is specified in an incorrect format.
- The execution time determined by the combination of this option and the `/schedulesetime` option is earlier than the current time.
- The specified date is not within the range from 1994-01-01 to 2036-12-31.

`/schedulesetime`

If you want to execute the service according to a schedule, specify the time (hour and minute) in the *hh:mm* format. In *hh*, specify the hour from 00 to 23. In *mm*, specify the minute from 00 to 59. When you specify the `/scheduletime` option, you must also specify the `/scheduledate` option. The command execution will fail if:

- The `/scheduledate` option is not specified.
- The `/wait` option is specified.
- The time is specified in an incorrect format.
- The execution time determined by the combination of this option and the `/scheduledate` option is earlier than the current time.

## Located in

*JPl/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions for the OS. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

Before the service can be executed, make sure that the Admin, Develop, Modify, or Submit role is set for the resource group of that service from the user group that the user who executes the command belongs to. The command cannot execute a service in a resource group for which none of these roles are set.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
5	Communication failed.
6	Authentication failed.
7	An invalid path is specified.
9	The specified path does not exist.
14	You do not have permission to execute the command.
130	Starting the service failed.
131	The property file does not exist.
132	The property file has an invalid format.



Return code	Description
133	The status of the task could not be obtained (when the <code>/wait</code> option is specified).
134	The task could not be executed (when the <code>/wait</code> option is specified).
255	The command execution has been interrupted due to an error other than the above.

## Example

The following commands show examples of how to use the command for each case.

- To execute a service specified by the service name with the property keys and values:  

```
submittask /servicename service01 /user user01 /password
pass01 /property keyA valueA /property keyB "value B" /
property keyC valueC,valueD
```
- To execute a service specified by the resource group and the service name, with the task name, task description, and property file:  

```
submittask /servicename service02 /resourcegroup resourceA /
taskname task02 /taskdescription testtask /propertyfile C:
\property /user user02 /password pass02
```
- To output the task execution result before the command terminates:  

```
submittask /servicename service03 /user user03 /password
pass03 /wait
```
- To execute a service at the specified time:  

```
submittask /servicename service04 /user user04 /password
pass04 /scheduledate 2014-01-01 /scheduletime 15:30
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# Maintenance-related commands

## backupsystem (backing up the JP1/AO system)

### Description

This command backs up the configuration and database information of JP1/AO to store the data in the specified folder.

### Syntax

```
backupsystem
```

```
/dir backup-data-path  
[/auto]
```

## Arguments

*/dir backup-data-path*

This option specifies the absolute or relative path to an empty folder in which backup data is collected and stored. A folder in the local disk drive can only be specified. We recommend that you use a path that has 50 or fewer characters.

*/auto*

This option causes the command to automatically start and stop the services and databases of JP1/AO, JP1/Base, and the Hitachi Command Suite products. If this option is omitted, the services and databases of JP1/AO, JP1/Base, and the Hitachi Command Suite products are not automatically started and stopped.

If you want to use this option in a cluster environment, services registered with the cluster software must be offline.

## Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Remarks

- Make sure that the folder in which backup files are stored has a sufficient free space. The required free space is as follows:  
Total size of the files to be backed up + 20 MB
- Back up the data of JP1/Base before performing the backup with this command.
- If you do not specify the */auto* option, confirm that the JP1/AO service has stopped, and then execute this command. If the service is running, stop it by executing the *hcmdssrv* command with the */stop* option specified.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.

Return code	Description
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
7	An invalid path is specified.
9	The specified path does not exist.
10	The specified path is not accessible.
11	The specified folder is not empty.
14	You do not have permission to execute the command.
100	Performing the backup failed.
101	Starting or stopping the service failed.
103	An access to the scheduler database failed.
255	The command execution has been interrupted due to an error other than the above.

### Example

The following command shows an example of how to back up data in the specified backup folder:

```
backupsystem /dir "C:\Users\Backup" /auto
```

### Related topics

- Topic *Backup and recovery* in the manual *Job Management Partner 1/Base User's Guide*
- [Valid characters for arguments in a command on page 8-5](#)

## hcmdsdbrepair (re-creating the database)

### Description

This command forces all the databases to be deleted, re-creates them, and then recovers them using the backup data obtained by the `hcmdsdbtrans` command. You use this command when any of the databases is corrupted and the `restoresystem` and `hcmdsdbtrans` commands cannot restore the database.

### Syntax

```
hcmdsdbrepair
    /trans backup-data
```

## Arguments

*/trans backup-data*

This option specifies the backup data obtained using the `hcmdsdbtrans` command. Make sure that you specify the path specified in the `/workpath` or `/file` option of the `hcmdsdbtrans` command.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Remarks

- Stop the JP1/AO system before executing the `hcmdsdbrepair` command.
- Start the JP1/AO system after executing the `hcmdsdbrepair` command.
- The command uses the *Common-Component-installation-folder\tmp* `hcmdsdbrepair` folder to extract the backup data. Make sure that the hard drive has enough space to extract the backup data depending on the size of the data.
- After the command execution, the password of the built-in account (System account) is initialized. Change the password if necessary.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
245	Importing the database failed.
246	The definition file is invalid.
247	An attempt to undo setup of the database failed.
248	Stopping a service or database failed.
249	The command cannot be executed on the standby node.
250	The backup data is invalid. (Some files are missing or extracting the archive file failed.)
251	The command has been interrupted due to inconsistency in the product or product version.
252	Setting up the database failed.
253	Starting the service for database failed.
254	The database cannot be re-created due to its incomplete setup.

Return code	Description
255	The command terminated abnormally.

## Example

The following command shows an example of how to force all the databases to be deleted, re-create them, and then recover them using backed up data:

```
hcmdsdbrepair /trans C:\bkfile1
```

## Related topics

- [Valid characters for arguments in a command on page 8-5](#)
- Topic *Starting a JP1/AO system (non-cluster configuration)* in the *Job Management Partner 1/Automatic Operation Administration Guide*
- Topic *Starting a JP1/AO system (cluster configuration)* in the *Job Management Partner 1/Automatic Operation Administration Guide*
- Topic *Stopping a JP1/AO system (non-cluster configuration)* in the *Job Management Partner 1/Automatic Operation Administration Guide*
- Topic *Stopping a JP1/AO system (cluster configuration)* in the *Job Management Partner 1/Automatic Operation Administration Guide*
- [hcmdssrv \(starting and stopping JP1/AO, and displaying the status of JP1/AO\) on page 8-19](#)

# hcmdsdbsrv (starting and stopping the databases)

## Description

This command starts and stops the databases of JP1/AO. You use this command when maintaining the databases.

## Syntax

```
hcmdsdbsrv
    {/start | /stop}
```

## Arguments

/start

This option causes the command to start the databases.

/stop

This option causes the command to stop the databases.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Remarks

This command is restricted for database maintenance procedures.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The system accepted the start or stop request.
254	The databases are not initialized.
255	The command execution failed.

## Example

The following commands show examples of how to use the command for each case.

- To start the databases of JP1/AO:  
`hcmsdbsrv /start`
- To stop the databases of JP1/AO:  
`hcmsdbsrv /stop`

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# hcmsdbtrans (backing up and restoring the databases)

## Description

This command backs up (exports) or restores (imports) the databases of JP1/AO. You use this command when re-organizing the databases of JP1/AO.

## Syntax

To back up (export) the databases of JP1/AO:

```
hcmsdbtrans
  /export
  /workpath working-folder-path
  /file archive-file-path
  [/auto]
```

To restore (import) the databases of JP1/AO:

```
hcmsdbtrans
```

```
/import  
/type Automation  
/workpath working-folder-path  
[/file archive-file-path]  
[/auto]
```

## Arguments

`/export`

This option causes the command to export the databases.

`/workpath working-folder-path`

This option specifies the absolute path to the temporary folder for exporting or importing. A folder on the local disk drive can only be specified.

Use an empty folder as the working folder when you specify the `/export` option.

If the `/import` option is specified and the `/file` option is not specified, the data stored in the working folder is automatically imported.

`/file archive-file-path`

This option specifies the absolute path to the archive file to which the data is exported or from which the data is imported. This option is required if the `/export` option is specified.

`/auto`

This option causes the command to automatically start and stop the services and databases of JP1/AO and the Hitachi Command Suite products. If this option is omitted, the services and databases of JP1/AO and the Hitachi Command Suite products are not automatically started and stopped.

`/import`

This option causes the command to import the databases. All the exiting authentication data is deleted before the data is imported.

`/type Automation`

This option specifies `Automation` as the name of the product whose database is to be imported.

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Return code

The following table lists the return codes from the command with the `/export` option.

Return code	Description
0	The command succeeded.
1	Obtaining the product version failed.
2	The databases are not running.
3	Archiving the databases failed.
4	The working folder is not empty.
5	Archiving the databases failed due to their total size being larger than 2 GB.
233	Restarting the databases is being interrupted.
234	The database services are stopped or do not exist.
235	The databases are not initialized.
237	Starting the Hitachi Command Suite products or databases failed.
238	Stopping the Hitachi Command Suite products or databases failed.
239	Starting the databases failed.
240	Stopping the databases failed.
255	The command terminated abnormally.

The following table lists the return codes from the command with the `/import` option.

Return code	Description
0	The command succeeded.
1	Obtaining the product version failed.
2	The databases are not running.
3	Extracting the archive file failed.
4	The working folder is not empty.
5	The specified product is not included in the archive file.
6	The specified product is not installed.
7	A version of the product that cannot be imported is found.
8	The working folder has no data to be imported, or the data for importing has an invalid format.
9	You attempted to import the data on the secondary server into the primary server.



Return code	Description
10	You attempted to import the data on the primary server into the secondary server.
11	You attempted to import the data into the database in use.
233	Restarting the databases is being interrupted.
234	The database services are stopped or do not exist.
235	The databases are not initialized.
237	Starting the Hitachi Command Suite products or databases failed.
238	Stopping the Hitachi Command Suite products or databases failed.
239	Starting the databases failed.
240	Stopping the databases failed.
255	The command terminated abnormally.

## Example

The following commands show examples of how to use the command for each case.

- To back up the databases of JP1/AO:  

```
hcmdsdbtrans /export /workpath "C:\Users\workfolder" /file "C:\backup\arcfile01" /auto
```
- To restore the databases of JP1/AO:  

```
hcmdsdbtrans /import /type Automation /workpath "C:\Users\workfolder" /file "C:\backup\arcfile01" /auto
```

## Related topic

- [Valid characters for arguments in a command on page 8-5](#)

# hcmdsgetlogs (collecting log information)

## Description

This command collects log information recorded during JP1/AO operation to output the information to the archive file.

## Syntax

```
hcmdsgetlogs
  /dir output-folder-path
  [/types Automation]
  [/arc archive-file-name]
  [/logtypes {log | db | csv}]
```

## Arguments

`/dir output-folder-path`

This option specifies the path to the folder in which the archive file is output. A folder on the local disk drive can only be specified.

You must specify the absolute or relative path to an empty folder for *output-folder-path*. If the specified folder path does not exist, then that folder is newly created.

The maximum length of the path name is 100 characters. The system grants write permission to the folder specified by this option.

`/types Automation`

This option specifies *Automation* as the name of the product whose log information is to be collected. This option is not case sensitive. If this option is omitted, the command has an effect on JP1/AO and all the installed Hitachi Command Suite products. In this case, it might take longer to collect log information.

`/arc archive-file-name`

This option specifies the name of the archive file created as a result of execution of the data collection tool for Common Component. If this option is not specified, the file is named in the format of *HiCommand\_log-file-type.jar*.

The archive file is output under the folder specified in the `/dir` option.

The possible characters for the archive file name are printable ASCII characters (ranged from 0x20 to 0x7E in the ASCII code) except for some of the special characters (`\`, `/`, `:`, `,`, `;`, `*`, `?`, `"`, `<`, `>`, `|`, `$`, `%`, `&`, `'`, and ```). The extension is not necessary.

`/logtypes {log | db | csv}`

This option specifies the type of a log file for Common Component that you want to collect. The following table lists the relationship between the log file type and the log files that can be collected.

**Table 8-8 Log file type and log files that can be collected**

Log file type	Log file that can be collected
log	<ul style="list-style-type: none"><li><i>archive-file-name-specified-in-the-/arc-option.jar</i></li><li><i>archive-file-name-specified-in-the-/arc-option.hdb.jar</i></li></ul>
db	<i>archive-file-name-specified-in-the-/arc-option.db.jar</i>
csv	<i>archive-file-name-specified-in-the-/arc-option.csv.jar</i>

If this option is omitted, the system collects all the log files for Common Component. Because of this, we recommend that you execute the command without this option.

You can specify multiple log file types by entering them separated by half-width space characters such as `/logtypes log db csv`. If you use the `/types` and `/logtypes` options at the same time, you must specify `log` for the `/logtypes` option.

## Output format

The following table shows the list of data collected by the command. The `hcmdsgetlogs` command outputs its log file to `output-folder-specified-in-the-/dir-option\RAS_SCRIPT.log`.

**Table 8-9 List of collected data**

Archive file	Output result	Description
<code>output-folder-specified-in-the-/dir-option\Automation_1st_log.jar</code>	<ul style="list-style-type: none"> <li>All files directly under <code>JP1/AO-installation-folder\logs</code> (sub folders are not included)</li> <li>All files under <code>JP1/AO-installation-folder\data\task</code></li> </ul>	All public log files
<code>output-folder-specified-in-the-/dir-option\Automation_log.jar</code>	<ul style="list-style-type: none"> <li>FILELIST.txt</li> <li>All files under <code>JP1/AO-installation-folder\conf</code></li> <li>All files under <code>JP1/AO-installation-folder\data</code></li> <li>All files under <code>JP1/AO-installation-folder\logs</code></li> <li>All files under <code>JP1/AO-installation-folder\system\AJS3CD</code></li> <li>All files under <code>JP1/AO-installation-folder\work</code></li> <li>All files under <code>Windows-folder#1\Temp\HITACHI_JP1_INST_LOG</code></li> <li>All files under <code>Windows-folder#1\Temp\jplcommon</code></li> <li><code>ProgramFiles(x86)-folder#2\InstallShield Installation Information\{C4F6D00E-A9A2-4E57-A21A-B78B63FF1C54}\setup.ini</code></li> <li><code>ProgramFiles(x86)-folder#2\InstallShield Installation Information\{C4F6D00E-A9A2-4E57-A21A-B78B63FF1C54}\setup.ilg</code></li> <li>REGDATA.DAT</li> </ul>	The contents and output formats of the files are not made public.
<code>output-folder-specified-in-the-/dir-option\AJS_log.jar</code>	Results of the data collection tool for the task-processing engine	
<code>output-folder-specified-in-the-/dir-option\AJS_log.jar</code>	Results of the data collection tool for Common Component ( <code>hcmdsgetlogs</code> and <code>hcmdsras</code> )	

Archive file	Output result	Description
<code>dir-option \archive-file- name-specified-in- the-/arc- option.jar</code>		
<code>output-folder- specified-in-the-/ dir-option \archive-file- name-specified-in- the-/arc- option.hdb.jar</code>	Results of the data collection tool for Common Component (hcmdsgetlogs)	
<code>output-folder- specified-in-the-/ dir-option \archive-file- name-specified-in- the-/arc- option.db.jar</code>	Results of the data collection tool for Common Component (hcmdsgetlogs)	
<code>output-folder- specified-in-the-/ dir-option \archive-file- name-specified-in- the-/arc- option.csv.jar</code>	Results of the data collection tool for Common Component (hcmdsgetlogs)	

#1:

The *Windows-folder* is defaulted to C:\WINDOWS.

#2:

The *ProgramFiles(x86)-folder* is defaulted to C:\Program Files (x86).

## Located in

*Common-Component-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions.

## Remarks

- Do not interrupt this command while it is running.
- If the `hcmdsgetlogs` command is interrupted, this command has terminated before this command completed due to insufficient free space in the folder specified in the `/dir` option. In this case, make sure that the folder has enough free space, and then execute this command again.
- Do not execute more than one `hcmdsgetlogs` command at the same time.

- When JP1/AO is running in a cluster configuration, execute this command on both the active host and standby host.
- If the same option is specified more than once, only the first option is effective.

### Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command terminated abnormally.

### Example

The following command shows an example of how to collect log information in the specified folder:

```
hcmdsgetlogs /dir "C:\Users\folder01" /types Automation /arc
AO_log
```

### Related topic

- [Valid characters for arguments in a command on page 8-5](#)

## restoresystem (restoring the JP1/AO system)

### Description

This command restores the backup data, such as the configuration and database information of JP1/AO, obtained by the `backupsystem` command.

The following list shows the data restored when the command is executed:

- Tasks<sup>#</sup>
- Task histories
- Services
- Service templates
- Users
- User groups
- Resource groups
- Connection destination definitions
- Shared service properties
- Various definition files

#

In restored tasks, some of the detailed information, such as progresses and step list, is deleted. In addition, the status of those tasks is changed after restoration as follows.

**Table 8-10 Task status at the backup time and after restoration**

Task status at the backup time	Task status after restoration
Waiting	Canceled (The end date and time of the task is set to the date and time of restoration.)
Holding	
In Progress	Failed
Waiting for Response	
Abnormal Detection	
Terminated	
Completed	Completed
Failed	Failed
Canceled	Canceled

## Syntax

```
restoresystem
    /dir backup-data-path
    /jpluser JP1-user-name
    [/auto]
```

## Arguments

*/dir backup-data-path*

This option specifies the absolute or relative path to the backup folder that stores the backup data specified in the `backupsystem` command.

*/jpluser JP1-user-name*

This option specifies the JP1 user name that had already been registered when the data was backed up.

*/auto*

This option causes the command to automatically start and stop the services and databases of JP1/AO, JP1/Base, and the Hitachi Command Suite products. If this option is omitted, the services and databases of JP1/AO, JP1/Base, and the Hitachi Command Suite products are not automatically started and stopped.

If you want to use this option in a cluster environment, services registered with the cluster software must be offline.

## Located in

*JP1/AO-installation-folder\bin*

## Execute permission

Execute the command as a user with Administrator permissions. If a user without Administrator permissions executes the command, a message appears asking the user to elevate the permission level.

## Remarks

- Executing this command creates a temporary file. For this reason, make sure that the folder in which backup files are stored has a sufficient free space. The required free space is as follows:  
Total size of the files to be backed up + 20 MB
- Restore the data of JP1/Base before performing the restoration with this command.
- If you do not specify the `/auto` option, then make sure that both JP1/AO and JP1/Base services are not running before executing this command. If these services are still running, then use the following procedure to stop the services:
  1. Execute the `hcmdssrv` command with the `/stop` option.
  2. Stop the JP1/Base services.
- If a JP1 user name other than the user name already registered when the data was backed up is specified for the `/jpluser` option, set the specified JP1 user after restoration. You can do this by changing the values for **JP1 user name** and **JP1 user password** in the **Service Share Properties** view to those of the JP1 user specified in the command.
- Be careful if the JP1/AO installation path includes half-width space characters. If there is a file or folder whose path is the same as the string before the first space character in that path, the `restoresystem` command will fail with return code 114. If this happens, move that file or folder to a different path, re-install JP1/AO, and then execute the `restoresystem` command again.  
For example, assume that JP1/AO is installed in `C:\Program Files (x86)\HITACHI\JP1AO`. In this case, the `restoresystem` command will fail if there is a file or folder whose path is `C:\Program`.

## Return code

The following table lists the return codes from the command.

Return code	Description
0	The command succeeded.
1	The argument is invalid.
2	The command execution has been interrupted.
3	The service status is invalid.
4	One of the other commands is running.
7	An invalid path is specified.

Return code	Description
9	The specified path does not exist.
10	The specified path is not accessible.
14	You do not have permission to execute the command.
110	Performing the restoration failed.
111	Starting or stopping the service failed.
113	The backup file is invalid.
114	An access to the scheduler database failed.
116	The specified JP1 user does not have permission to set up the task-processing engine.
255	The command execution has been interrupted due to an error other than the above.

## Example

The following command shows an example of how to restore data in the specified backup folder:

```
restoresystem /dir C:\Users\Backup /jpluser JP1_AO_Admin /auto
```

## Related topics

- [backupsystem \(backing up the JP1/AO system\) on page 8-41](#)
- Topic *Backup and recovery* in the *Job Management Partner 1/Base User's Guide*
- [Valid characters for arguments in a command on page 8-5](#)



# Reference Information

This appendix provides reference information about how to use JP1/AO.

- [List of limit values for JP1/AO windows](#)

## List of limit values for JP1/AO windows

This section contains a table that lists the limit values of windows used in JP1/AO.

**Table A-1 List of limit values for JP1/AO windows**

Window name	Item	Limit value	Default	Available character
Login window	String allowed in the <b>User ID</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ', (, ), *, +, -, ., =, @, \, ^, _
	String allowed in the <b>Password</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ', (, ), *, +, -, ., =, @, \, ^, _
	Number of terminals that can concurrently connect to JP1/AO on the same server	64	n/a	n/a
Main window	Date that can be specified with the calendar in the filter area	From 1994-01-01 to 2036-12-31	None	n/a
	Number of main windows that can be concurrently opened on the same host	2	n/a	n/a
	Maximum number of filter conditions	20	n/a	n/a
Services window	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Service</li> <li>Resource Group</li> <li>Category</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
	<ul style="list-style-type: none"><li>Description</li><li>Service Template</li><li>Vendor</li><li>Version</li></ul>			
	Number of <b>Service Details</b> dialog boxes that can be opened from the <b>Services</b> window	No limit.	n/a	n/a
<b>Submit Service</b> dialog box	String allowed in the <b>Name</b> text box	128 characters	<i>service-name_YYYYMMDDhhmmss</i> (Date and time when the service is performed)	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text box of the list of properties (string)	1,024 characters	The default value defined in the service definition information contained in the service template.	Any characters defined as restricted characters in the service definition information contained in the service template, other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text box of the list of properties (integer)	From -2147483648 to 2147483647	If no default value is defined, nothing is displayed.	
	String allowed in the <b>Value</b> text box of the list of properties (double)	A numeric value approximately from $\pm 4.9 \times 10^{-32}$ to $\pm 1.7 \times 10^{308}$ Note that, however, you cannot		

Window name	Item	Limit value	Default	Available character
		enter the value in exponential form.		
	String allowed in the <b>Value</b> text box of the list of properties (password)	1,024 characters		
	Date that can be specified in the calendar displayed by clicking the <b>Calendar</b> button of the list of properties	From 1900-01-01 to 2100-12-31		n/a
	Date that can be specified in the calendar displayed by clicking the <b>Calendar</b> button of the <b>Schedule Starts On</b> text box	From 1994-01-01 to 2036-12-31	None	n/a
	<b>Schedule Time</b> spin box (hour)	23	None	Half-width numeric characters
	<b>Schedule Time</b> spin box (minute)	59	None	Half-width numeric characters
	<b>Recurrence Time</b> spin box (hour)	23	None	Half-width numeric characters
	<b>Recurrence Time</b> spin box (minute)	59	None	Half-width numeric characters
	<b>Recurrence Date</b> text box	92 characters	None	Half-width numeric characters from 1 to 31 and ,
	Number of <b>Submit Service</b> dialog boxes that can be opened	No limit.	n/a	n/a

Window name	Item	Limit value	Default	Available character
	from a single main window			
	Number of <b>Service Details</b> dialog boxes that can be opened from the <b>Submit Service</b> dialog box	No limit.	n/a	n/a
	Number of characters that can be specified for the query parameter for the direct access URL	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Add Service</b> dialog box	String allowed in the <b>Service Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	None	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Category</li> <li>Description</li> <li>Name</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
	<ul style="list-style-type: none"> <li>Vendor</li> <li>Version</li> </ul>			
	Number of <b>Service Details</b> dialog boxes that can be opened from the <b>Add Service</b> dialog box	No limit.	n/a	n/a
<b>Service Definition</b> dialog box	String allowed in the <b>Name</b> text box	64 characters	The name of the service to be defined	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description set for the service to be defined	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	The category name set for the service to be defined	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
	String allowed in the <b>Value</b> text box of the list of properties (string)	1,024 characters	The default value defined in the service definition information contained in the service template.  If no default value is defined, nothing is displayed.	Any characters defined as restricted characters in the service definition information contained in the service template, other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text box of the list of properties (integer)	From -2147483648 to 2147483647		
	String allowed in the <b>Value</b> text box of the list of properties (double)	A numeric value approximately from $\pm 4.9 \times 10^{-32}$ to $\pm 1.7 \times 10^{308}$		

Window name	Item	Limit value	Default	Available character
		Note that, however, you cannot enter the value in exponential form.		
	String allowed in the <b>Value</b> text box of the list of properties (password)	1,024 characters		
	Date that can be specified in the calendar displayed by clicking the <b>Calendar</b> button of the list of properties	From 1900-01-01 to 2100-12-31		n/a
	Number of <b>Service Definition</b> dialog boxes that can be opened from a single main window	No limit.	n/a	n/a
	Number of <b>Service Details</b> dialog boxes that can be opened from the <b>Service Definition</b> dialog box	No limit.	n/a	n/a
	Number of characters that can be specified for the query parameter for the direct access URL	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Tasks view, Task Histori</b>	String allowed in the <b>Value</b> text field if one	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
es view, related dialog boxes for tasks	of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>• Task</li> <li>• Description</li> <li>• Service</li> <li>• Resource Group</li> <li>• Category</li> <li>• Submitted By</li> </ul>			
	Numeral value allowed in the <b>Value</b> text field if <b>ID</b> is selected in the <b>Attribute</b> list box in the filter area	9999999999 999999	None	Half-width numeric characters
	Time (in hours) allowed in the text field to enter a time if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>• Scheduled Time</li> <li>• Start Time</li> <li>• End Time</li> <li>• Submitted At</li> <li>• Recurrence Time</li> </ul>	23	0	n/a
	Time (in minutes) allowed in the text field to enter a time if one of the	59	0	n/a



Window name	Item	Limit value	Default	Available character
	<p>following attributes is selected in the <b>Attribute</b> list box in the filter area:</p> <ul style="list-style-type: none"> <li>Scheduled Time</li> <li>Start Time</li> <li>End Time</li> <li>Submitted At</li> <li>Recurrence Time</li> </ul>			
	<p>Time (in seconds) allowed in the text field to enter a time if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area:</p> <ul style="list-style-type: none"> <li>Scheduled Time</li> <li>Start Time</li> <li>End Time</li> <li>Submitted At</li> <li>Recurrence Time</li> </ul>	59	0	n/a
<b>Task Details</b> dialog box	Number of <b>Task Details</b> dialog boxes that can be opened from a single main window	No limit.	n/a	n/a
	Number of characters that can be specified for the query parameter for the direct access URL	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
<b>Respond</b> dialog box	Number of <b>Respond</b> dialog boxes that can be opened from a single main window, <b>Task Details</b> dialog box, or <b>Tasks</b> view	No limit.	n/a	n/a
<b>Connection Destinations</b> view	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Destination</li> <li>Resource Group</li> <li>User ID</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Create Connection Destination</b> dialog box	String allowed in the <b>Destination</b> text box (if <b>Host Name</b> is selected in the <b>Type</b> list box)	1,024 characters	None	Any characters allowed in regular expression format supported by Java SE5
	String allowed in the <b>Destination</b> text box (if <b>IPv4</b> is selected in the <b>Type</b> list box)	1,024 characters	None	Half-width numeric characters, *, -, .
	String allowed in the <b>Destination</b> text box (if <b>IPv6</b> is selected in the <b>Type</b> list box)	1,024 characters	None	<ul style="list-style-type: none"> <li>Any characters allowed in unicast addresses formatted according to RFC 2373</li> <li>Any characters allowed in network prefixes formatted according to RFC 2373</li> <li>* (asterisk)</li> </ul>
	String allowed in the <b>User ID</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ' (, ), *, +, -, ., /, =, @, \, ^, _

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Password</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ', (, ), *, +, -, ., =, @, \, ^, _
	String allowed in the <b>Superuser Password</b> text box	256 characters	None	ASCII-code characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Connection Destination</b> dialog box	String allowed in the <b>Destination</b> text box (if <b>Host Name</b> is selected in the <b>Type</b> list box)	1,024 characters	The destination of connection set up in the selected definitions of the connection destinations	Any characters allowed in regular expression format supported by Java SE5
	String allowed in the <b>Destination</b> text box (if <b>IPv4</b> is selected in the <b>Type</b> list box)	1,024 characters	The destination of connection set up in the selected definitions of the connection destinations	Half-width numeric characters, *, -, .
	String allowed in the <b>Destination</b> text box (if <b>IPv6</b> is selected in the <b>Type</b> list box)	1,024 characters	The destination of connection set up in the selected definitions of the connection destinations	<ul style="list-style-type: none"> <li>Any characters allowed in unicast addresses formatted according to RFC 2373</li> <li>Any characters allowed in network prefixes formatted according to RFC 2373</li> <li>* (asterisk)</li> </ul>
	String allowed in the <b>User ID</b> text box	256 characters	The user ID set up in the selected definitions of the connection destinations	Half-width alphanumeric characters, !, #, \$, %, &, ', (, ), *, +, -, ., =, @, \, ^, _
	String allowed in the <b>Password</b> text box	256 characters	The password set up in the selected definitions	Half-width alphanumeric characters, !, #, \$, %, &, ', (, ), *, +, -, ., =, @, \, ^, _

Window name	Item	Limit value	Default	Available character
			of the connection destinations	
	String allowed in the <b>Superuser Password</b> text box	256 characters	The superuser's password set up in the selected definitions of the connection destinations	ASCII-code characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Service Share Properties</b> view	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Property</li> <li>Description</li> <li>Value</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if <b>Key</b> is selected in the <b>Attribute</b> list box in the filter area	128 characters	None	Half-width alphanumeric characters, -, _, .
	Numerical value allowed in the <b>Value</b> text field if <b>No.</b> is selected in the <b>Attribute</b> list box in the filter area	2147483647	None	Half-width numeric characters
<b>Users and Permissions</b> window, <b>Add Users</b> dialog box (Users)	String allowed in the <b>User ID</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ' (, ), *, +, -, ., =, @, \, ^, _ ,
	String allowed in the <b>Password</b> text box	256 characters	None	Half-width alphanumeric characters, !, #, \$, %, &, ' (, ), *, +, -, ., =, @, \, ^, _ ,

Window name	Item	Limit value	Default	Available character
and Permissions), <b>Edit Profile</b> dialog box, <b>Change Password</b> dialog box	String allowed in the <b>Full Name</b> text box	80 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)  You cannot enter two or more consecutive \$ characters.
	String allowed in the <b>E-mail</b> text box	255 bytes	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	80 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	Number of <b>Users and Permissions</b> windows that can be opened from a single main window	1	n/a	n/a
<b>User Groups</b> view	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>User Groups</b> : <ul style="list-style-type: none"><li>User Group</li><li>Description</li><li>Distinguished Name</li></ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if <b>No. of Users</b> is selected in the <b>Attribute</b> list box in the filter area for <b>User Groups</b>	2147483647	None	Half-width numeric characters
	String allowed in the <b>Value</b>	4,096 characters	None	Any characters other than the control characters (from \u0000 to

Window name	Item	Limit value	Default	Available character
	text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>Users</b> : <ul style="list-style-type: none"> <li>User ID</li> <li>Full Name</li> <li>Description</li> <li>User Group</li> </ul>			\u001F and from \u007F to \u009F)
<b>Create User Group</b> dialog box	String allowed in the <b>Name</b> text box	64 characters	None	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>", *, , , / , : , ; , &lt; , &gt; , ? ,   , \ , multi-byte characters</li> </ul> The existing user group names and the user group names with only half- and full-width space characters are not allowed.
	String allowed in the <b>Description</b> text box	80 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>Users</b> : <ul style="list-style-type: none"> <li>User ID</li> <li>Full Name</li> <li>User Groups</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
	<b>Attribute</b> list box in the filter area for <b>Resource Groups</b> : <ul style="list-style-type: none"> <li>Resource Group</li> <li>Description</li> <li>User Groups</li> </ul>			
	String allowed in the <b>Value</b> text field if <b>Product</b> is selected in the <b>Attribute</b> list box in the filter area for <b>Resource Groups</b>	256 characters	None	Any characters other than the control characters
<b>Add Users</b> dialog box (User Groups)	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>Users</b> : <ul style="list-style-type: none"> <li>User ID</li> <li>Full Name</li> <li>User Groups</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Add Resource Groups</b> dialog box, <b>Edit Roles</b> dialog box	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Description</li> <li>User Groups</li> <li>Resource Group</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
Edit User Group dialog box	String allowed in the <b>Name</b> text box	64 characters	The name of the selected user group	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>" , * , , , / , : , ; , &lt; , &gt; , ? ,   , \ , multi-byte characters</li> </ul> The existing user group names and the user group names with only half- and full-width space characters are not allowed.
	String allowed in the <b>Description</b> text box	80 characters	The description for the selected user group	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>Users</b> : <ul style="list-style-type: none"> <li>User ID</li> <li>Full Name</li> <li>User Groups</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area for <b>Resource Groups</b> : <ul style="list-style-type: none"> <li>Resource Group</li> <li>Description</li> <li>User Groups</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b>	256 characters	None	Any characters other than the control characters



Window name	Item	Limit value	Default	Available character
	text field if <b>Product</b> is selected in the <b>Attribute</b> list box in the filter area for <b>Resource Groups</b>			
<b>Assign User Groups</b> dialog box	String allowed in the <b>Value</b> text field if <b>User Group</b> or <b>Description</b> is selected in the <b>Attribute</b> list box in the filter area for <b>Available User Groups</b> and <b>Selected User Groups</b>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	Numerical value allowed in the <b>Value</b> text field if <b>No. of Users</b> is selected in the <b>Attribute</b> list box in the filter area for <b>Available User Groups</b> and <b>Selected User Groups</b>	2147483647	None	Half-width numeric characters
<b>Resource Groups</b> view	String allowed in the <b>Value</b> text field if one of the following attributes is selected in the <b>Attribute</b> list box in the filter area: <ul style="list-style-type: none"> <li>Resource Group</li> <li>Description</li> <li>User Groups</li> </ul>	4,096 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
<b>Create Resource Group</b> dialog box	String allowed in the <b>Name</b> text box	63 characters	None	Half-width alphanumeric characters, _
	String allowed in the <b>Description</b> text box	80 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Resource Group</b> dialog box	String allowed in the <b>Name</b> text box	63 characters	The name of the selected resource group	Half-width alphanumeric characters, _
	String allowed in the <b>Description</b> text box	80 characters	The description for the selected resource group	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>User Profile</b> window	Number of <b>User Profile</b> windows that can be opened from a single main window	1	n/a	n/a
<b>Plug-in</b> view ( <b>Release</b> tab)	String allowed in the <b>Quick Find</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Plug-in</b> view ( <b>Under Development</b> tab)	String allowed in the <b>Quick Find</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Copy Plug-in</b> dialog box	String allowed in the <b>ID</b> text box	64 characters	The ID of the plug-in to be copied	<p>Half-width alphanumeric characters, -, _, .</p> <p>An error occurs in any of the following cases:</p> <ul style="list-style-type: none"> <li>Any of the following strings is contained: CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> </ul>

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Version</b> text box	8 characters	The version of the plug-in to be copied	Half-width numeric characters, .
	String allowed in the <b>Vendor ID</b> text box	64 characters	The ID of the vendor of the plug-in to be copied  Note that, however, if the ID of the vendor of the plug-in to be copied begins with <code>com.hitachi.software.dna</code> , nothing is displayed.	Half-width alphanumeric characters, -, _, .  An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained: <code>CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</code></li> <li>A period (.) is used at the beginning or end of the string.</li> <li>The ID begins with <code>com.hitachi.software.dna</code>.</li> </ul>
	String allowed in the <b>Name</b> text box	64 characters	The name of the plug-in to be copied	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Vendor Name</b> text box	64 characters	The name of the vendor of the plug-in to be copied  Note that, however, if the ID of the vendor of the plug-in to be copied begins with <code>com.hitachi.software.dna</code> , nothing is displayed.	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the plug-in to be copied	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the	256 characters	The name of the	Any characters other than the following:

Window name	Item	Limit value	Default	Available character
	<b>Category</b> text box		category of the plug-in to be copied	<ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> <p>Note that, however, you cannot use / and , at the beginning or end of the character string.</p>
<b>Create Plug-in</b> dialog box	String allowed in the <b>ID</b> text box	64 characters	None	<p>Half-width alphanumeric characters, -, _, .</p> <p>An error occurs in any of the following cases:</p> <ul style="list-style-type: none"> <li>Any of the following strings is contained: CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> </ul>
	String allowed in the <b>Version</b> text box	8 characters	01.00.00	Half-width numeric characters, .
	String allowed in the <b>Vendor ID</b> text box	64 characters	None	<p>Half-width alphanumeric characters, -, _, .</p> <p>An error occurs in any of the following cases:</p> <ul style="list-style-type: none"> <li>Any of the following strings is contained: CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> <li>The ID begins with com.hitachi.software.dna.</li> </ul>
	String allowed in the <b>Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Vendor Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to

Window name	Item	Limit value	Default	Available character
				\u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	None	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
<b>Edit Plug-in</b> dialog box	String allowed in the <b>Name</b> text box	64 characters	The name of the plug-in to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Vendor Name</b> text box	64 characters	The name of the vendor of the plug-in to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the plug-in to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	The name of the category of the plug-in to be edited	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
<b>Create Input Property for Plug-in</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	None	Half-width alphanumeric characters, -, _, . Note that, however, you cannot specify a property key that begins with <code>reserved</code> . (lower case) or <code>plugin</code> . (lower case).
	String allowed in the <b>Name</b> text box	128 characters	None	Any characters other than the control characters (from \u0000 to

Window name	Item	Limit value	Default	Available character
				\u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Input Property for Plug-in</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	The key of the property to be edited	Half-width alphanumeric characters, -, _, . Note that, however, you cannot specify a property key that begins with <code>reserved</code> . (lower case) or <code>plugin</code> . (lower case).
	String allowed in the <b>Name</b> text box	128 characters	The name of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box	1,024 characters	The default value of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Create Output Property for Plug-in</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	None	Half-width alphanumeric characters, -, _, . Note that, however, you cannot specify a property key that begins with <code>reserved</code> . (lower case) or <code>plugin</code> . (lower case).
	String allowed in the <b>Name</b> text box	128 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Output Property for</b>	String allowed in the <b>Key</b> text box	128 characters	The key of the property to be edited	Half-width alphanumeric characters, -, _, . Note that, however, you cannot specify a property key that begins

Window name	Item	Limit value	Default	Available character
Plug-in dialog box				with reserved. (lower case) or plugin. (lower case).
	String allowed in the <b>Name</b> text box	128 characters	The name of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
Edit Remote Command dialog box	String allowed in the <b>Command line</b> text box	8,192 characters	The command line that has already been set  Note that, however, if no command line has been set, nothing is displayed.	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>File Name</b> text box	90 characters	The file name that has already been set  Note that, however, if no file name has been set, nothing is displayed.	ASCII-code characters Note that, however, you cannot specify any of the following characters: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>?, *, ", &gt;, &lt;,  , :, /, \</li> <li>Multi-byte characters</li> </ul>
	String allowed as a name of the script file to be attached	90 characters	The script file that has already been set  Note that, however, if no script file has been set, ( <b>Select File</b> ) is displayed.	Also, you cannot specify a string that contains any of the following strings:  CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9
	String allowed in the <b>Script</b> text box	5,000 characters	The script that has already been set	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
			Note that, however, if no script has been set, nothing is displayed.	Note that, however, tabs (\u0009) and linefeeds (\u000D, \u000A) are allowed.
	String allowed in the <b>Execution Directory</b> text box	256 characters	The execution directory that has already been set  Note that, however, if no execution directory has been set, nothing is displayed.	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Create Environment Variable</b> dialog box	String allowed in the <b>Name</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text box	2,048 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Environment Variable</b> dialog box	String allowed in the <b>Name</b> text box	256 characters	The name of the environment variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Value</b> text box	2,048 characters	The value of the environment variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Output Filter</b> dialog box	String allowed in the <b>Output Filter</b> text box	1,024 characters	The output filter that has already been set  Note that, however, if no output filter has been set, nothing is displayed.	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)



Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Standard Output / Standard Error Output</b> text box	500,000 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)  Note that, however, tabs (\u0009) and linefeeds (\u000D, \u000A) are allowed.
<b>Create Service Template</b> dialog box	String allowed in the <b>ID</b> text box	64 characters	None	Half-width alphanumeric characters, -, _, .  An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained:  CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> </ul>
	String allowed in the <b>Version</b> text box	8 characters	01.00.00	Half-width numeric characters, .
	String allowed in the <b>Vendor ID</b> text box	64 characters	None	Half-width alphanumeric characters, -, _, .  An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained:  CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> <li>The ID begins with com.hitachi.software.dna.</li> </ul>
	String allowed in the <b>Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Vendor Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to

Window name	Item	Limit value	Default	Available character
				\u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	None	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
<b>Service Template List</b> dialog box	String allowed in the <b>Quick Find</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Copy Service Template</b> dialog box	<b>ID</b> text box	64 characters	The ID of the service template to be copied	Half-width alphanumeric characters, -, _, . An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained: CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9</li> <li>A period (.) is used at the beginning or end of the string.</li> </ul>
	String allowed in the <b>Version</b> text box	8 characters	The version of the service template to be copied	Half-width numeric characters, .
	String allowed in the <b>Vendor ID</b> text box	64 characters	The ID of the vendor of the service template to be copied	Half-width alphanumeric characters, -, _, . An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained:</li> </ul>

Window name	Item	Limit value	Default	Available character
			Note that, however, if this ID begins with com.hitachi.software.dna, nothing is displayed.	CON, PRN, AUX, CLOCK\$, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, or LPT9 <ul style="list-style-type: none"> <li>A period (.) is used at the beginning or end of the string.</li> <li>The ID begins with com.hitachi.software.dna.</li> </ul>
	String allowed in the <b>Name</b> text box	64 characters	The name of the service template to be copied	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Vendor Name</b> text box	64 characters	The name of the vendor of the service template to be copied  Note that, however, if this ID begins with com.hitachi.software.dna, nothing is displayed.	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the service template to be copied	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	The name of the category of the service template to be copied	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
<b>Edit Service Definition</b>	String allowed in the <b>Name</b> text box	64 characters	The name of the service	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
ion dialog box			template to be edited	
	String allowed in the <b>Vendor Name</b> text box	64 characters	The name of the vendor of the service template to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the service template to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Category</b> text box	256 characters	The name of the category of the service template to be edited	Any characters other than the following: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>\</li> </ul> Note that, however, you cannot use / and , at the beginning or end of the character string.
	String allowed as a file name for <b>Custom Files</b>	64 characters	The custom file that has been specified for the service template to be edited	Any characters other than the following: <ul style="list-style-type: none"> <li>Surrogate pair characters</li> <li>Multi-byte characters</li> </ul>
	String allowed in the <b>Custom File Name for Service Details Dialog</b> text box	64 characters	The name of the Service Details window file that has been set for the service template to be edited	ASCII-code characters Note that, however, you cannot specify any of the following characters: <ul style="list-style-type: none"> <li>Control characters (from \u0000 to \u001F and from \u007F to \u009F)</li> <li>?, *, ", &gt;, &lt;,  , :, \</li> <li>Multi-byte characters</li> </ul> An error occurs in any of the following cases: <ul style="list-style-type: none"> <li>Any of the following strings is contained in the folder name or file name:  CON, PRN, AUX, CLOCK\$, NUL,  COM0, COM1, COM2, COM3, COM4,  COM5, COM6, COM7, COM8, COM9,  LPT0, LPT1, LPT2, LPT3, LPT4,</li> </ul>

Window name	Item	Limit value	Default	Available character
				<p>LPT5, LPT6, LPT7, LPT8, or LPT9</p> <ul style="list-style-type: none"> <li>A forward slash (/) or period (.) is used at the beginning or end of the string.</li> <li>Two or more successive forward slashes are entered.</li> </ul>
<b>Create Property Group</b> dialog box	String allowed in the <b>ID</b> text box	32 characters	None	Half-width alphanumeric characters, -, _, .
	String allowed in the <b>Name</b> text box	64 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Property Group</b> dialog box	String allowed in the <b>ID</b> text box	32 characters	The ID of the property group to be edited	Half-width alphanumeric characters, -, _, .
	String allowed in the <b>Name</b> text box	64 characters	The name of the property group to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the property group to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Create Input Property for Service</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	None	<p>Half-width alphanumeric characters, -, _, .</p> <p>Note that, however, you cannot specify a property key that begins with <code>reserved</code>. (lower case).</p>
	<b>Name</b> text box	128 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Default Value</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	None	Half-width numeric characters, -
	String allowed in the <b>Default Value</b> text box when <b>double</b> is specified for <b>Data Type</b>	17 characters (from -99999999999999999999 to 99999999999999999999)	None	Half-width numeric characters, -, .
	String allowed in the <b>Default Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	None	n/a
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>list</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Minimum Length</b> text box when <b>string</b> is specified for <b>Data Type</b>	From 0 to 1024	None	Half-width numeric characters
	String allowed in the <b>Minimum Length</b> text	From 0 to 1024	None	Half-width numeric characters

Window name	Item	Limit value	Default	Available character
	box when <b>password</b> is specified for <b>Data Type</b>			
	String allowed in the <b>Maximum Length</b> text box when <b>string</b> is specified for <b>Data Type</b>	From 1 to 1024	None	Half-width numeric characters
	String allowed in the <b>Maximum Length</b> text box when <b>password</b> is specified for <b>Data Type</b>	From 1 to 1024	None	Half-width numeric characters
	String allowed in the <b>Restricted Character</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Restricted Character</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Minimum Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	None	Half-width numeric characters, -
	String allowed in the <b>Minimum Value</b> text box when <b>double</b> is specified for <b>Data Type</b>	17 characters (from -99999999999999999999 to 99999999999999999999)	None	Half-width numeric characters, -, .

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Minimum Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	None	n/a
	String allowed in the <b>Maximum Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	None	Half-width numeric characters, -
	String allowed in the <b>Maximum Value</b> text box when <b>double</b> is specified for <b>Data Type</b>	17 characters (from -9999999999999999 to 9999999999999999)	None	Half-width numeric characters, -, .
	String allowed in the <b>Maximum Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	None	n/a
	String allowed in the <b>Specify List Items</b> text box	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
Edit Input Property for Service dialog box	String allowed in the <b>Key</b> text box	128 characters	The key of the property to be edited	Half-width alphanumeric characters, -, _, .  Note that, however, you cannot specify a property key that begins with <code>reserved.</code> (lower case).
	String allowed in the <b>Name</b> text box	128 characters	The name of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box	1,024 characters	The default value of the	Any characters other than the control characters (from \u0000 to



Window name	Item	Limit value	Default	Available character
	when <b>string</b> is specified for <b>Data Type</b>		property to be edited	\u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	The default value of the property to be edited	Half-width numeric characters, -
	String allowed in the <b>Default Value</b> text box when <b>double</b> is specified for <b>Data Type</b>	17 characters (from -99999999999999999999 to 99999999999999999999)	The default value of the property to be edited	Half-width numeric characters, -, .
	String allowed in the <b>Default Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	The default value of the property to be edited	n/a
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>list</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Minimum Length</b> text box when <b>string</b> is specified for <b>Data Type</b>	From 0 to 1024	The minimum length of the property to be edited	Half-width numeric characters
	String allowed in the <b>Minimum Length</b> text box when <b>password</b> is	From 0 to 1024	The minimum length of the property to be edited	Half-width numeric characters

Window name	Item	Limit value	Default	Available character
	specified for <b>Data Type</b>			
	String allowed in the <b>Maximum Length</b> text box when <b>string</b> is specified for <b>Data Type</b>	From 1 to 1024	The maximum length of the property to be edited	Half-width numeric characters
	String allowed in the <b>Maximum Length</b> text box when <b>password</b> is specified for <b>Data Type</b>	From 1 to 1024	The maximum length of the property to be edited	Half-width numeric characters
	String allowed in the <b>Restricted Character</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	The restrictions on the characters that has been specified for the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Restricted Character</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	The restrictions on the characters that has been specified for the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Minimum Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	The minimum value of the property to be edited	Half-width numeric characters, -
	String allowed in the <b>Minimum Value</b> text box when <b>double</b>	17 characters (from -999999999 to 999999999)	The minimum value of the property to be edited	Half-width numeric characters, -, .

Window name	Item	Limit value	Default	Available character
	is specified for <b>Data Type</b>	9999999999 (99999)		
	String allowed in the <b>Minimum Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	The minimum value of the property to be edited	n/a
	String allowed in the <b>Maximum Value</b> text box when <b>integer</b> is specified for <b>Data Type</b>	From -2147483648 to 2147483647	The maximum value of the property to be edited	Half-width numeric characters, -
	String allowed in the <b>Maximum Value</b> text box when <b>double</b> is specified for <b>Data Type</b>	17 characters (from -9999999999999999 to 9999999999999999)	The maximum value of the property to be edited	Half-width numeric characters, -, .
	String allowed in the <b>Maximum Value</b> text box when <b>date</b> is specified for <b>Data Type</b>	From 1900-01-01 to 2100-12-31	The maximum value of the property to be edited	n/a
	String allowed in the <b>Specify List Items</b> text box	1,024 characters	The list items of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Create Output Property for Service</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	None	Half-width alphanumeric characters, -, _, .  Note that, however, you cannot specify a property key that begins with <code>reserved.</code> (lower case).
	String allowed in the <b>Name</b> text box	128 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Default Value</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
Edit Output Property for Service dialog box	String allowed in the <b>Key</b> text box	128 characters	The key of the property to be edited	Half-width alphanumeric characters, -, _, .  Note that, however, you cannot specify a property key that begins with <code>reserved.</code> (lower case).
	String allowed in the <b>Name</b> text box	128 characters	The name of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the property to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
Create Variable dialog box	String allowed in the <b>Key</b> text box	128 characters	None	Half-width alphanumeric characters, -, _, .  Note that, however, you cannot specify a property key that begins with <code>reserved.</code> (lower case).
	String allowed in the <b>Name</b> text box	128 characters	None	Any characters other than the control characters (from \u0000 to

Window name	Item	Limit value	Default	Available character
				\u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
<b>Edit Variable</b> dialog box	String allowed in the <b>Key</b> text box	128 characters	The property key of the variable to be edited	Half-width alphanumeric characters, -, _, . Note that, however, you cannot specify a property key that begins with <i>reserved.</i> (lower case).
	String allowed in the <b>Name</b> text box	128 characters	The name of the variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>string</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Default Value</b> text box when <b>password</b> is specified for <b>Data Type</b>	1,024 characters	The default value of the variable to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
Create Step dialog box	String allowed in the <b>ID</b> text box	30 characters	<p>The ID of the plug-in added for the step</p> <p>If the ID of the plug-in added for the step exceeds 30 characters, the 31th and subsequent characters are truncated.</p> <p>Also, if there is a step whose ID is the same as the plug-in ID in the flow, the plug-in ID is displayed with <u>n</u> (sequence number) added at the end.</p> <p>If the step ID exceeds 30 characters after <u>n</u> is added, characters equal to the number of characters required for <u>n</u> are truncated from the end of the step ID.</p>	<p>Half-width alphanumeric characters, -, _, .</p> <p>Note: You cannot begin a step ID with a period.</p>
	String allowed in the <b>Name</b> text box	64 characters	<p>The name of the plug-in added for the step</p> <p>If the name of the plug-</p>	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)

Window name	Item	Limit value	Default	Available character
			<p>in added for the step exceeds 64 characters, the 65th and subsequent characters are truncated.</p> <p>Also, if there is a step whose name is the same as the plug-in name in the flow, the plug-in name is displayed with <i>_n</i> (sequence number) added at the end.</p> <p>If the step name exceeds 64 characters after <i>_n</i> is added, characters equal to the number of characters required for <i>_n</i> are truncated from the end of the step name.</p>	
	String allowed in the <b>Description</b> text box	256 characters	None	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Judgment Level</b> text box	From 0 to 255	None	Half-width numeric characters

Window name	Item	Limit value	Default	Available character
	String allowed in the <b>Warning Level</b> text box	From 1 to 255	None	Half-width numeric characters
<b>Edit Step</b> dialog box	String allowed in the <b>ID</b> text box	30 characters	The ID of the step to be edited	Half-width alphanumeric characters, -, _, . Note: You cannot begin a step ID with a period.
	String allowed in the <b>Name</b> text box	64 characters	The name of the step to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Description</b> text box	256 characters	The description of the step to be edited	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F)
	String allowed in the <b>Judgment Level</b> text box	From 0 to 255	The judgment level for the step to be edited	Half-width numeric characters
	String allowed in the <b>Warning Level</b> text box	From 1 to 255	The warning level for the step to be edited	Half-width numeric characters
<b>Specify Plug-in Input Properties for Mapping</b> dialog box	String allowed in the <b>Mapping Parameter</b> text box when the <b>Input Method</b> radio button is displayed	1,024 characters	The value set for the mapping parameter	Any characters other than the control characters (from \u0000 to \u001F and from \u007F to \u009F) Note that, however, tabs (\u0009) and linefeeds (\u000D, \u000A) are allowed.
	String allowed in the <b>Mapping Parameter</b> text box when the <b>Input Method</b> radio button is not displayed	From the minimum value to the maximum value set for the input property		Half-width alphanumeric characters, -

Legend:

n/a: The item is not applicable.



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