

# HP SiteScope

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## Configuration and Data Acquisition API Reference

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# Chapter 1: How This API Document Is Organized

This API (Application Programming Interface) document contains detailed information on the SiteScope Configuration and Data Acquisition API packages.

Each section lists:

- The methods and classes in the package in alphabetical order. Each method consists of a detailed description and a table that includes constructor summary, method parameters, examples, and returned data.
- The APIs that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is given. Deprecated APIs may be removed in future implementations.

It also contains a use-case scenario describing how the SiteScope administrator can automate the process of configuring and deploying a monitor.

You can find additional information on SiteScope APIs, including exceptions, snapshots, and error codes in the *HP SiteScope API Reference* javadoc which is located in **<SiteScope installation directory>\examples\integrations\api\doc\javadoc.zip** file. To open the guide, extract the contents of the zip file and double-click the **index.html** file.

## Chapter 2: Configuration APIs

The following configuration actions are supported using the SiteScope Configuration API:

Method	Description
<i>addAcknowledgment</i>	Adds an acknowledgment comment to an entity (monitor or group), and enables or disables the entity's associated alerts. For details, see <a href="#">"addAcknowledgment" on page 14</a> .
<i>addLicense</i>	Adds a license to SiteScope. For details, see <a href="#">"addLicense" on page 15</a> .
<i>addTagValue</i>	Adds a tag value by the name <code>tagValueName</code> and description <code>tagValueDescription</code> to an existing tag with the name <code>tagName</code> . For details, see <a href="#">"addTagValue" on page 16</a> .
<i>addTagValuesToMonitor</i>	Adds tag values to a monitor. For details, see <a href="#">"addTagValuesToMonitor" on page 17</a> .
<i>createNewTag</i>	Creates a new tag with the name <code>tagName</code> . <a href="#">"createNewTag" on page 18</a>
<i>createTemplateContainer</i>	Creates a template container (an exception is thrown if a template container with the requested name already exists). For details, see <a href="#">"createTemplateContainer" on page 19</a> .
<i>deleteGroup</i>	<i>Deprecated.</i> Use <a href="#">"deleteGroupEx" on page 20</a> instead.
<i>deleteGroupEx</i>	Deletes a group from SiteScope. For details, see <a href="#">"deleteGroupEx" on page 20</a> .
<i>deleteGroupByExternalId</i>	Deletes a group by its external ID. For details, see <a href="#">"deleteGroupByExternalId" on page 21</a> .
<i>deleteMonitor</i>	<i>Deprecated.</i> Use <a href="#">"deleteMonitorEx" on page 22</a> instead.
<i>deleteMonitorEx</i>	Deletes a monitor. For details, see <a href="#">"deleteMonitorEx" on page 22</a> .
<i>deleteRemote</i>	Deletes a SiteScope remote server. For details, see <a href="#">"deleteRemote" on page 23</a> .
<i>deleteTag</i>	Deletes a tag by the name <code>tagName</code> . For details, see <a href="#">"deleteTag" on page 24</a> .



Method	Description
<i>deleteTemplate</i>	Deletes a template. For details, see <a href="#">"deleteTemplate" on page 25</a> .
<i>deleteTemplateContainer</i>	Deletes a template container. For details, see <a href="#">"deleteTemplateContainer" on page 26</a> .
<i>deploySingleTemplate</i>	<i>Deprecated.</i> Use <a href="#">"deploySingleTemplateEx" on page 27</a> instead.
<i>deploySingleTemplateEx</i>	Deploys a single template. For details, see <a href="#">"deploySingleTemplateEx" on page 27</a> .
<i>deploySingleTemplateWithConnectToServer</i>	Deploys a single template, with option to verify monitor measurements against the remote server during deployment. For details, see <a href="#">"deploySingleTemplateWithConnectToServer" on page 28</a> .
<i>deploySingleTemplateWithConnectToServerAndTestRemotes</i>	Deploys a single template, with option to test deployed remote server and verify monitor measurements against the remote server during deployment. For details, see <a href="#">"deploySingleTemplateWithConnectToServerAndTestRemotes" on page 29</a> .
<i>deploySingleTemplateWithResult</i>	Deploys a single template and provides details of the template deployment results. For details, see <a href="#">"deploySingleTemplateWithResult" on page 30</a> .
<i>disableAlert</i>	<i>Deprecated.</i> Use <a href="#">"disableAlertEx" on page 31</a> instead.
<i>disableAlertEx</i>	Disables the specified alert. For details, see <a href="#">"disableAlertEx" on page 31</a> .
<i>disableAssociatedAlerts</i>	Disables the alerts associated with the given entity (Group or Monitor). For details, see <a href="#">"disableAssociatedAlerts" on page 32</a> .
<i>disableGroupFullPath</i>	<i>Deprecated.</i> Use <a href="#">"disableGroupFullPathEx" on page 33</a> instead.
<i>disableGroupFullPathEx</i>	Disables all monitors under the specified group and its subgroups. For details, see <a href="#">"disableGroupFullPathEx" on page 33</a> .
<i>disableGroupWithDescription</i>	Disables a group with given time period and description. For details, see <a href="#">"disableGroupWithDescription" on page 34</a> .
<i>disableMonitor</i>	<i>Deprecated.</i> Use <a href="#">"disableMonitorEx" on page 35</a> instead.

Method	Description
<i>disableMonitorEx</i>	Disables a monitor. For details, see <a href="#">"disableMonitorEx" on page 35</a> .
<i>disableMonitorWithDescription</i>	Disables a monitor with given time period and description. For details, see <a href="#">"disableMonitorWithDescription" on page 36</a> .
<i>editTagDescription</i>	Changes the description value to tagDescription for a tag with the name tagName. For details, see <a href="#">"editTagDescription" on page 37</a> .
<i>editTagValueDescription</i>	Changes the tag description value to tagValueDescription for a tag with the name tagName for the value with the name tagValue. For details, see <a href="#">"editTagValueDescription" on page 38</a> .
<i>editTagValueName</i>	Changes the tag value name from oldTagValueName to newTagValueName for a tag with the name tagName. For details, see <a href="#">"editTagValueName" on page 39</a> .
<i>enableAlert</i>	<i>Deprecated.</i> Use <a href="#">"enableAlertEx" on page 40</a> instead.
<i>enableAlert</i>	Enables the specified alert. For details, see <a href="#">"enableAlertEx" on page 40</a> .
<i>enableAssociatedAlerts</i>	Enables the alerts associated with the given entity (Group or Monitor). For details, see <a href="#">"enableAssociatedAlerts" on page 41</a> .
<i>enableGroup</i>	<i>Deprecated.</i> Use <a href="#">"enableGroupEx" on page 42</a> instead.
<i>enableGroupEx</i>	Enables a group whether it was disabled indefinitely or for a specified time period. For details, see <a href="#">"enableGroupEx" on page 42</a> .
<i>enableGroupWithDescription</i>	Enables a group regardless of whether the group was disabled indefinitely, or for a specified time period. For details, see <a href="#">"enableGroupWithDescription" on page 43</a> .
<i>enableMonitor</i>	<i>Deprecated.</i> Use <a href="#">"enableMonitorEx" on page 44</a> instead.
<i>enableMonitorEx</i>	Enables a monitor whether it was disabled indefinitely or for a specified time period. For details, see <a href="#">"enableMonitorEx" on page 44</a> .

Method	Description
<i>enableMonitorWithDescription</i>	Enables a monitor with given description regardless of whether the monitor was disabled indefinitely, or for a specified time period. For details, see <a href="#">"enableMonitorWithDescription" on page 45</a> .
<i>exportTemplate</i>	Exports the template. For details, see <a href="#">"exportTemplate" on page 46</a> .
<i>getAcknowledgment</i>	Returns the acknowledgment data log of the given Entity. For details, see <a href="#">"getAcknowledgments" on page 47</a> .
<i>getAlertReport</i>	Returns the Alert Report URL for the monitor or group. For details, see <a href="#">"getAlertReport" on page 48</a> .
<i>getAlertSnapshots</i>	Returns the corresponding snapshots for the alerts. For details, see <a href="#">"getAlertSnapshots" on page 49</a> .
<i>getAllTemplates</i>	Gets all the template. For details, see <a href="#">"getAllTemplates" on page 50</a> .
<i>getConfigurationSnapshotEx</i>	<i>Deprecated.</i> Use <a href="#">"getConfigurationSnapshotEx" on page 51</a> instead.
<i>getConfigurationSnapshotEx</i>	Returns a map of the currently deployed entities in SiteScope together with basic properties for each entity. For details, see <a href="#">"getConfigurationSnapshotEx" on page 51</a> .
<i>getConfigurationViaTemplate</i>	<i>Deprecated.</i> Use <a href="#">"getConfigurationViaTemplateEx" on page 52</a> instead.
<i>getConfigurationViaTemplateEx</i>	Returns a map of template variables to current values. For details, see <a href="#">"getConfigurationViaTemplateEx" on page 52</a> .
<i>getConfigurationViaSourceTemplateEx</i>	Returns a map of template variables to current values. For details, see <a href="#">"getConfigurationViaSourceTemplateEx" on page 53</a> .
<i>getFullConfigurationSnapshot</i>	Returns a map of the currently deployed entities in SiteScope together with all the entity's properties. For details, see <a href="#">"getFullConfigurationSnapshot" on page 54</a> .
<i>getGroupsConfigurationSnapshot</i>	Returns the corresponding snapshots for the group. For details, see <a href="#">"getGroupsConfigurationSnapshot" on page 55</a> .
<i>getGroupSnapshots</i>	<i>Deprecated.</i> Use <a href="#">"getGroupsConfigurationSnapshot" on page 55</a> instead.
<i>getHostsMap</i>	Returns a map of the hosts monitored by SiteScope. For details, see <a href="#">"getHostsMap" on page 56</a> .

Method	Description
<i>getMonitorSnapshots</i>	Returns the corresponding snapshots for the given monitors. For details, see <a href="#">"getMonitorSnapshots" on page 57</a> .
<i>getQuickReport</i>	Returns the Quick Report URL for the monitor or group. For details, see <a href="#">"getQuickReport" on page 58</a> .
<i>getReadOnlyMode</i>	Returns true if SiteScope APIs are in read-only mode; otherwise it returns false. For details, see <a href="#">"getReadOnlyMode" on page 59</a> .
<i>getSiteScopeMonitoringStatus</i>	Returns the SiteScope monitoring status string. For details, see <a href="#">"getSiteScopeMonitoringStatus" on page 60</a> .
<i>getSiteScopeMonitoringStatusWithIdentifier</i>	Returns the SiteScope monitoring status string. For details, see <a href="#">"getSiteScopeMonitoringStatusWithIdentifier" on page 61</a> .
<i>importSSHKey</i>	Imports the given SSH key file to SiteScope. For details, see <a href="#">"importSSHKey" on page 62</a> .
<i>importTemplate</i>	Imports a template to SiteScope. For details, see <a href="#">"importTemplate" on page 63</a> .
<i>importTemplateWithOverride</i>	Imports an external template. For details, see <a href="#">"importTemplateWithOverride" on page 64</a> .
<i>publishTemplateChanges</i>	Publishes template changes to all deployed groups associated with the selected template. For details, see <a href="#">"publishTemplateChanges" on page 65</a> .
<i>removeTagValue</i>	Removes tag value by the name <code>tagValueName</code> for a tag with the name <code>tagName</code> . For details, see <a href="#">"removeTagValue" on page 66</a> .
<i>removeTagValuesFromMonitor</i>	Removes tag values from a monitor. For details, see <a href="#">"removeTagValuesFromMonitor" on page 67</a> .
<i>runExistingMonitor</i>	<i>Deprecated.</i> Use <a href="#">"runExistingMonitorEx" on page 68</a> instead.
<i>runExistingMonitorEx</i>	Runs the monitor. For details, see <a href="#">"runExistingMonitorEx" on page 68</a> .
<i>runExistingMonitorExWithIdentifier</i>	Runs the monitor. For details, see <a href="#">"runExistingMonitorExWithIdentifier" on page 69</a> .
<i>runExistingMonitorsInGroup</i>	Runs existing monitors in group. For details, see <a href="#">"runExistingMonitorsInGroup" on page 70</a> .
<i>runMonitorFromTemplate</i>	Creates a temporary monitor instance from the template (it replaces variables), and then runs the monitor. For details, see <a href="#">"runMonitorFromTemplate" on page 71</a> .

Method	Description
<i>search</i>	Gets the relevant elements (monitor or groups) according to the given search criteria. For details, see <a href="#">"search" on page 72</a> .
<i>setReadOnlyMode</i>	Sets SiteScope API to read-only mode. The only configuration changes allowed in this mode are <i>getConfiguration</i> and <i>runExistingMonitors</i> . For details, see <a href="#">"setReadOnlyMode" on page 73</a> .
<i>updateMonitorViaTemplateEx</i>	Updates a single monitor deployed by a template with new variables. For details, see <a href="#">"updateMonitorViaTemplateEx" on page 74</a> .
<i>updateViaTemplate</i>	<i>Deprecated.</i> Use <a href="#">"updateViaTemplateEx" on page 76</a> instead.
<i>updateViaSourceTemplateEx</i>	Updates a group of entities that were created with a template deployment operation. For details, see <a href="#">"updateViaSourceTemplateEx" on page 75</a> .
<i>updateViaTemplateEx</i>	Updates a group of entities that were created with a template deployment operation. For details, see <a href="#">"updateViaTemplateEx" on page 76</a> .
<i>updateViaTemplateWithRootGroupEx</i>	Updates the template deployment to use the new variables. The full path to the deployed group should point to a root group. For details, see <a href="#">"updateViaTemplateWithRootGroupEx" on page 77</a> .

## addAcknowledgment

The **addAcknowledgment** method adds an acknowledgment comment to an entity (monitor or group), and enables or disables the entity's associated alerts.

<b>Usage</b>	<pre>public void addAcknowledgment(String[] fullPathToEntity, String acknowledgeComment, String associatedAlertsDisableStartTime, String associatedAlertsDisableEndTime, String associatedAlertsDisableDescription, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToEntity</b> - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p><b>acknowledgeComment</b> - The acknowledgment comment to add.</p> <p><b>associatedAlertsDisableStartTime</b> - The time difference in milliseconds from the [current time] and the required [start time].</p> <p>For example:</p> <p>If the current time is 15:00:00 and the required start time is 15:10:00, the value that should be sent is [15:10:00] - [15:00:00] = 10*60*1000 (600000 milliseconds).</p> <p><b>associatedAlertsDisableDescription</b> - Associated alerts disable's description.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException

## addLicense

The **addLicense** method adds a license to SiteScope.

<b>Usage</b>	<pre>public void <b>addLicense</b>(byte[] licenseFile, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>licenseFile - Binary representation of the license file.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted</p>
<b>Throws</b>	ExternalServiceAPIException

## addTagValue

The **addTagValue** method adds a tag value by the name `tagValueName` and description `tagValueDescription` to an existing tag with the name `tagName`. An exception is thrown if the tag does not exist. If the tag does exist and also a tag value by the name `tagValueName` exists, a uniqueness valuation exception is thrown.

<b>Usage</b>	<pre>public void <b>addTagValue</b>(String tagName, String tagValueName, String tagValueDescription, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - The tag's name.</p> <p><code>tagValueName</code> - The tag's value name.</p> <p><code>tagDescription</code> - The tag's description.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	<code>ExternalServiceAPIException</code>



## addTagValuesToMonitor

The **addTagValuesToMonitor** method adds tag values to a monitor.

<b>Usage</b>	<pre>public void addTagValuesToMonitor(String[] fullPathToMonitor, String tagName, String[] tagValueNames, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToMonitor</code> - Full path from SiteScope root to monitor as sequence of groups and monitor in array format.</p> <p><code>tagName</code> - Name of tag that holds the values.</p> <p><code>tagValueNames</code> - Names of values to be checked in monitor.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## createNewTag

The **createNewTag** method creates a new tag with the name `tagName`. An exception is throw if a tag by this name already exists.

<b>Usage</b>	<pre>public void <b>createNewTag</b>(String tagName, String tagDesc, String[] valueName, String[] valueDesc, String username, String password)     throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - tag's name.</p> <p><code>tagDesc</code> - tag's description.</p> <p><code>valueName</code> - tag's value name.</p> <p><code>valueDesc</code> - tag's value description.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	<code>ExternalServiceAPIException</code>

## createTemplateContainer

The **createTemplateContainer** method creates a template container (it throws an exception if a template container with the requested name already exists).

<b>Usage</b>	<pre>public void <b>createTemplateContainer</b>(String fatherEntityFullPath, String templateContainerName, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fatherEntityFullPath - A String specifying the full path to the template container or SiteScope root to create the template container under. This parameter should be an empty string when a template container is created under the SiteScope root. The path should start with the name of the first template container name under SiteScope's root and be separated by forward slashes. For example: "tc1/tc2"</p> <p>templateContainerName - Name of requested template container.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## deleteGroupEx

The **deleteGroupEx** method deletes a group from SiteScope.

<b>Usage</b>	<pre>public void <b>deleteGroupEx</b>(String[] fullPathToGroup, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToGroup - A String array specifying the full path to the group to delete. The path starts with the name of the first child under SiteScope's root and ends with the name of the group to delete.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## deleteGroupByExternalId

The **deleteGroupByExternalId** method deletes a group by its external ID.

<b>Usage</b>	<pre>public void deleteGroupEx(String[] fullPathToGroup, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>groupExternalId - External ID of the group.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException - If there are errors during group deletion.

## deleteMonitorEx

The **deleteMonitorEx** method deletes a monitor.

<b>Usage</b>	<pre>public void deleteMonitorEx(String[] fullPathToMonitor, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToMonitor - A String array specifying the full path to the monitor to delete. The path starts with the name of the first child under SiteScope's root and ends with the name of the monitor to delete.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Returns</b>	Whether SiteScope APIs are in read-only mode or not.
<b>Throws</b>	ExternalServiceAPIException

## deleteRemote

The **deleteRemote** method deletes a SiteScope remote server.

<b>Usage</b>	<pre>public void <b>deleteRemote</b>(String platform,     String remoteName,     String username,     String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>platform - "Windows" for Windows remote servers or "UNIX" for Unix remote servers.</p> <p>remoteName - Remote display name.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## deleteTag

The **deleteTag** method deletes a tag by the name `tagName`. An exception is thrown if: (i) the tag does not exist, or (ii) an entity depends on it.

<b>Usage</b>	<pre>public void <b>deleteTag</b>(String tagName,     String username,     String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - The tag's name.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	<code>ExternalServiceAPIException</code>



## deleteTemplate

The **deleteTemplate** method deletes a template.

<b>Usage</b>	<pre>public void deleteTemplate(String templateFullPath, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templateFullPath - A String specifying the full path to the template to delete. The path should start with the name of the first template container name under the SiteScope root and be separated by forward slashes (/). For example: "tc1/tc2/tcToDelete"</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## deleteTemplateContainer

The **deleteTemplateContainer** method deletes a template container.

<b>Usage</b>	<pre>public void deleteTemplateContainer(String templateContainerFullPath, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templateContainerFullPath - A String specifying the full path to the template container to delete. The path should start with the name of the first template container name under the SiteScope root and be separated by forward slashes (/). For example: "tc1/tc2/tcToDelete"</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## deploySingleTemplateEx

The **deploySingleTemplateEx** method deploys a single template. If there is a non-recoverable failure, either all the entities under the template are deployed or none of them are deployed.

<b>Usage</b>	<pre>public void <b>deploySingleTemplateEx</b>(String[] fullPathToTemplateName, HashMap actualVariablesValuesHashMap, String[] pathToTargetGroup, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplateName</b> - A String array specifying the full path to the template name to deploy. The path starts with the name of the first child under SiteScope's root and ends with the name of the template.</p> <p><b>actualVariablesValuesHashMap</b> - A String-&gt;String Hash Map of all variables in the template and their values.</p> <p><b>pathToTargetGroup</b> - A String array specifying the full path to the group to deploy the template name under. If the last element in the path does not exist, the function creates it and deploys the template under the new path element. To deploy the template in the SiteScope root, pass a non-null String array of length 0.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## deploySingleTemplateWithConnectToServer

The **deploySingleTemplateWithConnectToServer** method deploys a single template, with option to verify monitor measurements against the remote server during deployment. If there is a non-recoverable failure, either all the entities under the template are deployed or none of them are deployed.

<b>Usage</b>	<pre>public void <b>deploySingleTemplateWithConnectToServer</b>(String[] fullPathToTemplateName, HashMap actualVariablesValuesHashMap, String[] pathToTargetGroup, boolean connectToServer, String userName, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplateName</b> - A String array specifying the full path to the template name to deploy. The path starts with the name of the first child under SiteScope's root and ends with the name of the template.</p> <p><b>actualVariablesValuesHashMap</b> - A String-&gt;String Hash Map of all variables in the template and their values.</p> <p><b>pathToTargetGroup</b> - A String array specifying the full path to the group to deploy the template name under. If the last element in the path does not exist, the function creates it and deploys the template under the new path element. To deploy the template in the SiteScope root, pass a non-null String array of length 0.</p> <p><b>connectToServer</b> - If true, the monitor measurements are verified against the remote server during deployment.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## deploySingleTemplateWithConnectToServerAndTestRemotes

The **deploySingleTemplateWithConnectToServerAndTestRemotes** method deploys a single template, with option to test deployed remote server and verify monitor measurements against the remote server during deployment. If there is a non-recoverable failure, either all the entities under the template are deployed or none of them are deployed.

<b>Usage</b>	<pre>public void <b>deploySingleTemplateWithConnectToServerAndTestRemotes</b>(String[] fullPathToTemplateName, HashMap actualVariablesValuesHashMap, String[] pathToTargetGroup, boolean connectToServer, boolean testRemotes, String userName, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplateName</b> - A String array specifying the full path to the template name to deploy. The path starts with the name of the first child under SiteScope's root and ends with the name of the template.</p> <p><b>actualVariablesValuesHashMap</b> - A String-&gt;String Hash Map of all variables in the template and their values.</p> <p><b>pathToTargetGroup</b> - A String array specifying the full path to the group to deploy the template name under. If the last element in the path does not exist, the function creates it and deploys the template under the new path element. To deploy the template in the SiteScope root, pass a non-null String array of length 0.</p> <p><b>connectToServer</b> - If true, the monitor measurements are verified against the remote server during deployment.</p> <p><b>testRemotes</b> - If true, runs test on deployed remote server.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## deploySingleTemplateWithResult

The **deploySingleTemplateWithResult** method deploys a single template and provides details of the template deployment results.

<b>Usage</b>	<pre>public HashMap <b>deploySingleTemplateWithResult</b>(String[] fullPathToTemplateName, HashMap actualVariablesValuesHashMap, String[] pathToTargetGroup, boolean connectToServer, boolean testRemotes, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplateName</b> - A String array specifying the full path to the template name to deploy. The path starts with the name of the first child under SiteScope's root and ends with the name of the template.</p> <p><b>actualVariablesValuesHashMap</b> - A String-&gt;String Hash Map of all variables in the template and their values.</p> <p><b>pathToTargetGroup</b> - A String array specifying the full path to the group to deploy the template name under. If the last element in the path does not exist, the function creates it and deploys the template under the new path element. To deploy the template in the SiteScope root, pass a non-null String array of length 0.</p> <p><b>connectToServer</b> - If true, the monitor measurements are verified against the remote server during deployment.</p> <p><b>testRemotes</b> - If true, runs test on deployed remote server.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	HashMap contains actual details of deployment.
<b>Throws</b>	ExternalServiceAPIException - If errors occurred during deployment.

## disableAlertEx

The **disableAlertEx** method disables the specified alert.

<b>Usage</b>	<pre>public void <b>disableAlertEx</b>(String[] fullPathToAlert, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToAlert - A String array specifying the full path to the alert to disable. The path should starts with the name of the first child under SiteScope's root and ends with with the name of the alert to be disabled.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## disableAssociatedAlerts

The **disableAssociatedAlerts** method disables the alerts associated with the given entity (Group or Monitor).

<b>Usage</b>	<pre>public void <b>disableAssociatedAlerts</b>(String[] fullPathToEntity, String disableStartTime, String disableEndTime, String disableDescription, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToEntity</b> - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p><b>disableStartTime</b> - The time difference in milliseconds from the [current time] and the required [start time]. For example: If the current time is 15:00:00 and the required start time is 15:10:00, the value that should be sent is [15:10:00] - [15:00:00] = 10*60*1000 (600000 milliseconds)</p> <p><b>disableEndTime</b> - The time difference in milliseconds from the [current time] and the required [end time]. For example: If the current time is 15:00:00 and the required end time is 15:30:00, the value that should be sent is [15:30:00] - [15:00:00] = 30*60*1000 (1800000 milliseconds)</p> <p><b>disableDescription</b> - Disable's description.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException



## disableGroupFullPathEx

The **disableGroupFullPathEx** method disables all monitors under the specified group. If the group contains subgroups, their monitors are also disabled, and so on recursively to the bottom of the tree. Disabling a group that is already disabled has no effect.

<b>Usage</b>	<pre>public void <b>disableGroupFullPathEx</b>(String[] fullPathToGroup, long timePeriod, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToGroup</b> - A String array specifying the full path to the group to disable. The path starts with the name of the first child under SiteScope's root and ends with the name of the group to disable.</p> <p><b>timePeriod</b> - The length of time the group is disabled, in seconds. If 0, disabled until explicitly enabled.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## disableGroupWithDescription

The **disableGroupWithDescription** method disables a group with given time period and description.

<b>Usage</b>	<pre>public void disableGroupWithDescription(String[] fullPathToGroup, String fromTime, String toTime, String description, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToGroup</b> - A String array specifying the full path to the group to disable. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the group to disable.</p> <p><b>fromTime</b> - The time difference in milliseconds from the [current time] and the required [start time]. For example: If the current time is 15:00:00 and the required start time is 15:10:00, the value that should be sent is [15:10:00] - [15:00:00] = 10*60*1000 (600000 milliseconds).</p> <p><b>toTime</b> - The time difference in milliseconds from the [current time] and the required [end time]. For example: If the current time is 15:00:00 and the required end time is 15:30:00, the value that should be sent is [15:30:00] - [15:00:00] = 30*60*1000 (1800000 milliseconds) To permanently disable the group, the time period between fromTime and toTime should be zero. For example: fromTime = 0 and toTime = 0</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException

## disableMonitorEx

The **disableMonitorEx** method disables a monitor.

<b>Usage</b>	<pre>public void <b>disableMonitorEx</b>(String[] fullPathToMonitor,     long timePeriod,     String username,     String password)     throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToMonitor</b> - A String array specifying the full path to the monitor to disable. The path starts with the name of the first child under SiteScope's root and ends with the name of the monitor to disable.</p> <p><b>timePeriod</b> - The length of time the monitor is disabled for, in seconds. If 0, disables until explicitly enabled.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## disableMonitorWithDescription

The **disableMonitorWithDescription** method disables a monitor with given time period and description.

<b>Usage</b>	<pre>public void <b>disableMonitorWithDescription</b>(String[] fullPathToMonitor, String fromTime, String toTime, String disableDescription, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToMonitor</b> - A String array specifying the full path to the monitor to disable. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the monitor to disable.</p> <p><b>fromTime</b> - The time difference in milliseconds from the [current time] and the required [start time]. For example: If the current time is 15:00:00 and the required start time is 15:10:00, the value that should be sent is [15:10:00] - [15:00:00] = 10*60*1000 (600000 milliseconds).</p> <p><b>toTime</b> - The time difference in milliseconds from the [current time] and the required [end time]. For example: If the current time is 15:00:00 and the required end time is 15:30:00, the value that should be sent is [15:30:00] - [15:00:00] = 30*60*1000 (1800000 milliseconds). To permanently disable the monitor, the time period between fromTime and toTime should be zero. For example: fromTime = 0 and toTime = 0</p> <p><b>disableDescription</b> - Monitor's disable description.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted. <b>identifier</b> - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException

## editTagDescription

The **editTagDescription** method changes the description value to tagDescription for a tag with the name tagName. An exception is throw if a tag by this name does not exist.

<b>Usage</b>	<pre>public void <b>editTagDescription</b>(String tagName, String tagDescription, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>tagName - tag's name.</p> <p>tagDescription - tag's description.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## editTagValueDescription

The **editTagValueDescription** method changes the tag description value to `tagValueDescription` for a tag with the name `tagName` for the value with the name `tagValue`. An exception is thrown if: (i) the tag does not exist, or (ii) the tag exists, but a tag value by the name `tagValueName` does not exist.

<b>Usage</b>	<pre>public void editTagValueDescription(String tagName, String tagValueName, String tagValueDescription, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - The tag's name.</p> <p><code>tagValueName</code> - The tag's value name.</p> <p><code>tagValueDescription</code> - The tag's value description.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	<code>ExternalServiceAPIException</code>

## editTagValueName

The **editTagValueName** method changes the tag value name from `oldTagValueName` to `newTagValueName` for a tag with the name `tagName`. An exception is thrown if: (i) the tag does not exist, or (ii) the tag exists but a tag value by the name `oldTagValueName` does not exist.

<b>Usage</b>	<pre>public void editTagValueName(String tagName, String oldTagValueName, String newTagValueName, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - The tag's name.</p> <p><code>oldTagValueName</code> - The tag's old value name.</p> <p><code>newTagValueName</code> - The tag's new value name</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	<code>ExternalServiceAPIException</code>

## enableAlertEx

The **enableAlertEx** method enables the specified alert.

<b>Usage</b>	<pre>public void <b>enableAlertEx</b>(String[] fullPathToAlert, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToAlert - A String array specifying the full path to the alert to enable. The path starts with the name of the first child under SiteScope's root and ends with the name of the alert.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException



## enableAssociatedAlerts

The **enableAssociatedAlerts** method enables the alerts associated with the given entity (Group or Monitor).

<b>Usage</b>	<pre>public void <b>enableAssociatedAlerts</b>(String[] fullPathToEntity, String description, String username, String password, String identifier)     throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToEntity</code> - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p> <p><code>identifier</code> - Identifier to be written to audit log.</p>
<b>Returns</b>	A list of acknowledgments.
<b>Throws</b>	ExternalServiceAPIException

## enableGroupEx

The **enableGroupEx** method enables a group whether it was disabled indefinitely or for a specified time period. Enabling a group that is already enabled has no effect.

<b>Usage</b>	<pre>public void <b>enableGroupEx</b>(String[] fullPathToGroup, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToGroup</b> - A String array specifying the full path to the group to enable. The path starts with the name of the first child under SiteScope's root and ends with the name of the group to enable.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## enableGroupWithDescription

The **enableGroupWithDescription** method enables a group regardless of whether the group was disabled indefinitely, or for a specified time period.

<b>Usage</b>	<pre>public void <b>enableGroupWithDescription</b>(String[] fullPathToGroup, String description, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToGroup</code> - A String array specifying the full path to the group to enable. The path starts with the name of the first child under SiteScope's root and ends with the name of the group to enable.</p> <p><code>description</code> - Group's enable description</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted. <code>identifier</code> - Identifier to be written to audit log</p>
<b>Throws</b>	ExternalServiceAPIException

## enableMonitorEx

The **enableMonitorEx** method enables a monitor whether it was disabled indefinitely or for a specified time period. Enabling a monitor that is already enabled has no effect.

<b>Usage</b>	<pre>public void <b>enableMonitorEx</b>(String[] fullPathToMonitor, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToMonitor</b> - A String array specifying the full path to the monitor to enable. The path starts with the name of the first child under SiteScope's root and ends with the name of the monitor to enable.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## enableMonitorWithDescription

The **enableMonitorWithDescription** method enables a monitor with given description regardless of whether the monitor was disabled indefinitely, or for a specified time period.

<b>Usage</b>	<pre>public void <b>enableMonitorWithDescription</b>(String[] fullPathToMonitor, String description, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToMonitor</code> - A String array specifying the full path to the monitor to enable. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the monitor to enable.</p> <p><code>description</code> - Monitor's enable description</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p> <p><code>identifier</code> - Identifier to be written to audit log</p>
<b>Throws</b>	ExternalServiceAPIException

## exportTemplate

The **exportTemplate** method exports the template.

<b>Usage</b>	<pre>public byte[] exportTemplate(String templatePatch, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templatePatch - Path to template.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	Byte array contains template.
<b>Throws</b>	ExternalServiceAPIException - If some error occurred during the API call.

## getAcknowledgments

The **getAcknowledgments** method returns the acknowledgment data log of the given Entity.

<b>Usage</b>	<pre>public HashMap[] <b>getAcknowledgments</b>(String[] fullPathToEntity, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToEntity - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	A list of acknowledgments.
<b>Throws</b>	ExternalServiceAPIException

## getAlertReport

The **getAlertReport** method returns the Alert Report URL for the monitor or group.

<b>Usage</b>	<pre>public String getAlertReport(String[] fullPathToEntity, HashMap reportProperties, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToEntity</b> - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p><b>reportProperties</b> - Report properties. must contain the following keys:</p> <ul style="list-style-type: none"><li>• <b>start_time</b> - The time difference in milliseconds from the [current time] and the required [start time]. For example: If the current time is 15:00:00 and the required start time is 14:50:00, the value that should be sent is [14:00:00] - [15:00:00] = -60*60*1000 (-3600000 milliseconds).</li><li>• <b>end_time</b> - The time difference in milliseconds from the [current time] and the required [end time]. For example: If the current time is 15:00:00 and the required end time is 15:30:00, the value that should be sent is [14:30:00] - [15:00:00] = -30*60*1000 (-1800000 milliseconds).</li></ul> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	Report URL without base part.
<b>Throws</b>	ExternalServiceAPIException



## getAlertSnapshots

The **getAlertSnapshots** method returns the corresponding snapshots for the alerts.

<b>Usage</b>	<pre>public HashMap <b>getAlertSnapshots</b>(String[] fullPathsToAlerts, HashMap propertiesFilter, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathsToAlerts</b> - An array of the alerts to which to return snapshots. The path to each alert will be delimited using "_sis_path_delimiter_". For example: group_sis_path_delimiter_monitor_sis_path_delimiter_alert</p> <p><b>propertiesFilter</b> - Properties to filter. Each key stored in map will be filtered and not included in returned snapshot. Allowed filter values: name, full_path, is_disabled.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	A map of the snapshots for the given alert paths
<b>Throws</b>	ExternalServiceAPIException

## getAllTemplates

The **getAllTemplates** method gets all the templates.

<b>Usage</b>	<pre>public HashMap <b>getAllTemplates</b>(String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	username - SiteScope user name, either plain text or encrypted. password - Either plain text or encrypted. identifier - Identifier to be written to audit log.
<b>Returns</b>	Hashmap containing snapshot of all templates.
<b>Throws</b>	ExternalServiceAPIException - If some error occurred during the API call.

## getConfigurationSnapshotEx

The **getConfigurationSnapshotEx** method returns a map of the currently deployed entities in SiteScope together with basic properties for each entity. You can use the **SnapshotConfigurationVisitor** method to convert the map representation back to a tree-like representation of the result.

<b>Usage</b>	<code>public HashMap <b>getConfigurationSnapshotEx</b>(String username, String password)</code> throws <code>ExternalServiceAPIException</code>
<b>Parameters</b>	<code>username</code> - SiteScope user name, either plain text or encrypted. <code>password</code> - Either plain text or encrypted.
<b>Returns</b>	A map of the currently deployed entities in SiteScope.
<b>Throws</b>	<code>ExternalServiceAPIException</code>

## getConfigurationViaTemplateEx

The **getConfigurationViaTemplateEx** method returns a map of template variables to current values. Given a Template and a destination group under which the template has been deployed, returns the values that replace the template variables as the template is deployed in that group.

<b>Usage</b>	<pre>public HashMap <b>getConfigurationViaTemplateEx</b>(String[] fullPathToTemplate, String[] fullPathToTargetGroup, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToTemplate</code> - A String array specifying the full path to the template. The path starts with the name of the root template container and ends with the name of the template.</p> <p><code>fullPathToTargetGroup</code> - A String array specifying the full path to the group. The path starts with the first group under SiteScope root and ends with the group the template was deployed under.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Returns</b>	A map of template variables to current values.
<b>Throws</b>	ExternalServiceAPIException

## getConfigurationViaSourceTemplateEx

The **getConfigurationViaSourceTemplateEx** method returns a map of template variables to current values. Given a Template and a destination group under which the template has been deployed, returns the values that replace the template variables as the template is deployed in that group.

<b>Usage</b>	<pre>public HashMap <b>getConfigurationViaSourceTemplateEx</b>(String[] fullPathToTargetGroup, String username, String password) throws RemoteException, ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTargetGroup</b> - A String array specifying the full path to the group. The path starts with the first group under SiteScope root and ends with the group the template was deployed under.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Returns</b>	A map of template variables to current values.
<b>Throws</b>	ExternalServiceAPIException

## getFullConfigurationSnapshot

The **getFullConfigurationSnapshot** method returns a map of the currently deployed entities in SiteScope together with all the entity's properties. You can use the **SnapshotConfigurationVisitor** method to convert the map representation back to a tree-like representation of the result.

<b>Usage</b>	<pre>public HashMap <b>getFullConfigurationSnapshot</b>(String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	username - SiteScope user name, either plain text or encrypted. password - Either plain text or encrypted.
<b>Returns</b>	A map of the currently deployed entities in SiteScope.
<b>Throws</b>	ExternalServiceAPIException

## getGroupsConfigurationSnapshot

The **getGroupsConfigurationSnapshot** method returns the corresponding snapshots for the group.

<b>Usage</b>	<pre>public HashMap getGroupsConfigurationSnapshot(String[] fullPathsToGroups, boolean isFullConfig, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathsToGroups</b> - An array of the groups to which to return snapshots. The path to each alert will be delimited using "_sis_path_delimiter_". For example: group1_sis_path_delimiter_group2_sis_path_delimiter_group3.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Returns</b>	A map of the snapshots for the given group paths.
<b>Throws</b>	ExternalServiceAPIException

## getHostsMap

The **getHostsMap** method returns a map of the hosts monitored by SiteScope.

<b>Usage</b>	public HashMap <b>getHostsMap</b> (String username, String password) throws ExternalServiceAPIException
<b>Parameters</b>	username - SiteScope user name, either plain text or encrypted. password - Either plain text or encrypted.
<b>Returns</b>	A map of hosts monitored by SiteScope. Host name is used as a key and data is Map object of host data containing the number of monitors that are monitoring this host.
<b>Throws</b>	ExternalServiceAPIException - on failure



## getMonitorSnapshots

The **getMonitorSnapshots** method returns the corresponding snapshots for the given monitors.

<b>Usage</b>	<pre>public HashMap <b>getMonitorSnapshots</b>(String[] fullPathsToMonitors, HashMap propertiesFilter, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathsToMonitors</b> - An array of the monitor paths to which to return snapshots. The path to each monitor is be delimited using "_sis_path_delimiter_". For example: <code>group_sis_path_delimiter_monitor</code></p> <p><b>propertiesFilter</b> - Properties to filter. Each key stored in map will be filtered and not included in returned snapshot. Allowed filter values: <code>name</code>, <code>full_path</code>, <code>type</code>, <code>target_ip</code>, <code>target_name</code>, <code>target_display_name</code>, <code>updated_date</code>, <code>description</code>, <code>is_disabled_permanently</code>, <code>disable_description</code>, <code>disable_start_time</code>, <code>disable_end_time</code>, <code>is_associated_alerts_disabled</code>, <code>associated_alerts_disable_description</code>, <code>associated_alerts_disable_start_time</code>, <code>associated_alerts_disable_end_time</code>, <code>acknowledgment_comment</code>, <code>status</code>, <code>availability</code>, <code>availability_description</code>, <code>summary</code>, <code>configuration_snapshot</code>, <code>runtime_snapshot</code>.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	A map of the snapshots for the given monitor paths.
<b>Throws</b>	ExternalServiceAPIException

## getQuickReport

The **getQuickReport** method returns the Quick Report URL for the monitor or group.

<b>Usage</b>	<pre>public String getQuickReport(String[] fullPathToEntity, HashMap reportProperties, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToEntity</b> - A String array specifying the full path to the entity. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the entity.</p> <p><b>reportProperties</b> - Report properties. must contain the following keys:</p> <ul style="list-style-type: none"><li>• <b>start_time</b> - The time difference in milliseconds from the [current time] and the required [start time]. For example: If the current time is 15:00:00 and the required start time is 14:50:00, the value that should be sent is [14:00:00] - [15:00:00] = -60*60*1000 (-3600000 milliseconds).</li><li>• <b>end_time</b> - The time difference in milliseconds from the [current time] and the required [end time]. For example: If the current time is 15:00:00 and the required end time is 15:30:00, the value that should be sent is [14:30:00] - [15:00:00] = -30*60*1000 (-1800000 milliseconds).</li></ul> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	Report URL without base part.
<b>Throws</b>	ExternalServiceAPIException

## getReadOnlyMode

The **getReadOnlyMode** method returns true if SiteScope APIs are in read-only mode; otherwise it returns false.

<b>Usage</b>	<code>public boolean <b>getReadOnlyMode</b>(String username, String password) throws ExternalServiceAPIException</code>
<b>Parameters</b>	username - SiteScope user name, either plain text or encrypted. password - Either plain text or encrypted.
<b>Returns</b>	Whether SiteScope APIs are in read-only mode or not.
<b>Throws</b>	ExternalServiceAPIException - on failure

## getSiteScopeMonitoringStatus

The **getSiteScopeMonitoringStatus** method returns the SiteScope monitoring status string. The returned value is one of:

- **MONITORING\_PASSIVE\_\_STARTUP**. The initial state from the beginning of SiteScope startup until the monitoring engine starts.
- **MONITORING\_ACTIVE**. From the time the monitoring engine is active and monitors are running until SiteScope starts to shutdown.
- **MONITORING\_PASSIVE\_\_SHUTDOWN**. From the beginning of SiteScope shutdown until the process exits.

<b>Usage</b>	<code>public String getSiteScopeMonitoringStatus(String username, String password)</code> throws <code>ExternalServiceAPIException</code>
<b>Parameters</b>	username - SiteScope user name, either plain text or encrypted. password - Either plain text or encrypted.
<b>Returns</b>	SiteScope monitoring status string.
<b>Throws</b>	<code>ExternalServiceAPIException</code>

## getSiteScopeMonitoringStatusWithIdentifier

The **getSiteScopeMonitoringStatusWithIdentifier** method returns the SiteScope monitoring status string. The returned value is one of:

- **MONITORING\_PASSIVE\_\_STARTUP**. The initial state from the beginning of SiteScope startup until the monitoring engine starts.
- **MONITORING\_ACTIVE**. From the time the monitoring engine is active and monitors are running until SiteScope starts to shutdown.
- **MONITORING\_PASSIVE\_\_SHUTDOWN**. From the beginning of SiteScope shutdown until the process exits.

<b>Usage</b>	<pre>public String getSiteScopeMonitoringStatusWithIdentifier(String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	SiteScope monitoring status string.
<b>Throws</b>	ExternalServiceAPIException

## importSSHKey

The **importSSHKey** method imports the given SSH key file to SiteScope.

<b>Usage</b>	<pre>public String importSSHKey(byte[] sshKeyFileBinary, String sshKeyFileName, boolean override, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>sshKeyFileBinary - SSH key file binary</p> <p>sshKeyFileName - SSH key file name</p> <p>override - If override allowed or not</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	The relative path to imported file.
<b>Throws</b>	ExternalServiceAPIException - If errors occurred while importing file.

## importTemplate

The **importTemplate** method imports a template to SiteScope.

<b>Usage</b>	<pre>public void <b>importTemplate</b>(String templateDestinationFullPath,     byte[] templateData,     String username,     String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templateDestinationFullPath - A String specifying the full path to the template container to import the template under. The path should start with the name of the first template container name under the SiteScope root and be separated by forward slashes (/). For example: "tc1/tc2"</p> <p>templateData - Binary template representation. Exported template via SiteScope user interface.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## importTemplateWithOverride

The **importTemplateWithOverride** method imports an external template.

<b>Usage</b>	<pre>public void <b>importTemplateWithOverride</b>(String templateDestinationFullPath, byte[] templateData, String username, String password, boolean override) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templateDestinationFullPath - Path to import template</p> <p>templateData - Binary array with template data</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>override - If override allowed or not</p>
<b>Throws</b>	ExternalServiceAPIException



## publishTemplateChanges

The **publishTemplateChanges** method publishes template changes to all deployed groups associated with the selected template.

<b>Usage</b>	<pre>public String <b>publishTemplateChanges</b>(String templatePath, HashMap selectedGroupsWithVariables, boolean connectToServer, boolean deleteOnUpdate, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templatePath - Path to template.</p> <p>selectedGroupsWithVariables - This can be empty. In this case, the function searches all groups associated with the selected template, and publishes changes to these groups. It can also include HashMap which contains the key's path to groups affected by publishing changes as values HashMap's of variables. If HashMap variables are empty, the default template variables values are used. You can specify the variables to update by sending HashMap variables in the format <i>Variable Name - &gt; Variable Value</i>.</p> <p>connectToServer - If set to true, the connection to the remote server is established while publishing changes.</p> <p>deleteOnUpdate - If set to true, the delete on update functionality is allowed (SiteScope deleted all objects from the deployed groups that are not in the source template).</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	Publish result reports.
<b>Throws</b>	ExternalServiceAPIException - If errors occurred while publishing template changes.

## removeTagValue

The **removeTagValue** method removes tag value by the name `tagValueName` for a tag with the name `tagName`. An exception is thrown if: (i) the tag does not exist, or (ii) the tag exists, but a tag value by the name `tagValueName` does not exist, or (iii) an entity depends on it.

<b>Usage</b>	<pre>public void <b>removeTagValue</b>(String tagName, String tagValueName, String username, String password)     throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>tagName</code> - The tag's name.</p> <p><code>tagValueName</code> - The tag's value name.</p> <p><code>tagValueDescription</code> - The tag's value description.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## removeTagValuesFromMonitor

The **removeTagValuesFromMonitor** method removes tag values from a monitor.

<b>Usage</b>	<pre>public void removeTagValuesToMonitor(String[] fullPathToMonitor, String tagName, String[] tagValueNames, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>fullPathToMonitor</code> - Full path from SiteScope root to monitor as sequence of groups and monitor in array format.</p> <p><code>tagName</code> - Name of tag that holds the values.</p> <p><code>tagValueNames</code> - Names of values to be checked in monitor.</p> <p><code>username</code> - SiteScope user name, either plain text or encrypted.</p> <p><code>password</code> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## runExistingMonitorEx

The **runExistingMonitorEx** method runs the monitor. The monitor must be deployed before invoking this method.

<b>Usage</b>	<pre>public HashMap runExistingMonitorEx(String[] fullPathToMonitor, long timeout, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToMonitor</b> - A String array specifying the full path to the monitor to run. The path starts with the name of the first child under SiteScope's root and ends with the name of the monitor.</p> <p><b>timeout</b> - Timeout in seconds.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Returns</b>	A hashmap representation of the status of the run and the status message as it would appear in the user interface. You can use <b>SnapshotConfigurationVisitor</b> to convert the hashmap to a class representation of the result.
<b>Throws</b>	ExternalServiceAPIException - on failure

## runExistingMonitorExWithIdentifier

The **runExistingMonitorExWithIdentifier** method runs the monitor. The monitor must be deployed before invoking this method.

<b>Usage</b>	<pre>public HashMap runExistingMonitorExWithIdentifier(String[] fullPathToMonitor,     long timeout,     String username,     String password,     String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToMonitor</b> - A String array specifying the full path to the monitor to run. The path starts with the name of the first child under the SiteScope's root and ends with the name of the monitor.</p> <p><b>timeout</b> - In seconds.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Returns</b>	A hashmap representation of the status of the run and the status message as it would appear in the user interface. You can use the <b>SnapshotConfigurationVisitor</b> method to convert the hashmap to a class representation of the result.
<b>Throws</b>	ExternalServiceAPIException

## runExistingMonitorsInGroup

The **runExistingMonitorsInGroup** method runs existing monitors in group.

<b>Usage</b>	<pre>public void runExistingMonitorsInGroup(String[] fullPathToGroup, boolean recursively, String username, String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToGroup</b> - A String array specifying the full path to the group. The path starts with the name of the first child under the SiteScope's root, and ends with the name of the group.</p> <p><b>recursively</b> - Should it run all sub monitors.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p> <p><b>identifier</b> - Identifier to be written to audit log.</p>
<b>Throws</b>	ExternalServiceAPIException

## runMonitorFromTemplate

The **runMonitorFromTemplate** method creates a temporary monitor instance from the template (it replaces variables), and runs the monitor.

<b>Usage</b>	<pre>public HashMap runMonitorFromTemplate(String templateName, HashMap actualVariablesValuesHashMap, long timeOut, String userName, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>templateName - A String array specifying the full path to the template name to deploy. The path starts with the name of the first child under SiteScope's root and ends with the name of the template.</p> <p>actualVariablesValuesHashMap - A String-&gt;String Hash Map of all variables in the template and their values.</p> <p>timeOut - Timeout in seconds.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Returns</b>	A hashmap representation of the status of the run and the status message as it would appear in the user interface. You can use the <b>SnapshotConfigurationVisitor</b> method to convert the hashmap to a class representation of the result.
<b>Throws</b>	ExternalServiceAPIException - on failure

## search

The **search** method gets the relevant elements (monitor or groups) according to the given search criteria.

<b>Usage</b>	<pre>public HashMap search(HashMap searchCriteria,     int maxNumOfResults,     String username,     String password, String identifier) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>searchCriteria - Use the following keys:</p> <ul style="list-style-type: none"><li>• target_name - Monitor's target name</li><li>• target_display_name - Monitor's target display name</li><li>• name - Monitor's name</li><li>• path - Monitor's full path (use "_sis_path_delimiter_" as path delimiter)</li><li>• entity_type - monitor/group/empty string (for all)</li><li>• status - good/warning/error/empty string (for all)</li></ul> <p>maxNumOfResults - Maximum number of returned search results.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p> <p>identifier - Identifier to be written to audit log.</p>
<b>Returns</b>	<p>A map of path-&gt;entity's type.</p> <p>The key is the entity's path with _sis_path_delimiter_ as the delimiter.</p> <p>The value is the entity's type (Monitor or Group)</p> <p><b>Note:</b> None of the keys are mandatory.</p>
<b>Throws</b>	ExternalServiceAPIException



## setReadOnlyMode

The **setReadOnlyMode** method sets SiteScope API to read-only mode. The only configuration changes allowed in this mode are **getConfiguration** and **runExistingMonitors**.

<b>Usage</b>	<pre>public void <b>setReadOnlyMode</b>(boolean isReadOnlyMode, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>isReadOnlyMode - true/false.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## updateMonitorViaTemplateEx

The **updateMonitorViaTemplateEx** method updates a single monitor deployed by a template with new variables.

<b>Usage</b>	<pre>public void <b>updateMonitorViaTemplateEx</b>(String[] fullPathToTemplate, String[] fullPathToDeployedMonitor, HashMap actualValuesToUpdate, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplate</b> - A String array specifying the full path to the template. The path starts with the name of the root template container and ends with the name of the template.</p> <p><b>fullPathToDeployedMonitor</b> - A String array specifying the full path to the monitor. The path starts with the first group under SiteScope root and ends with the deployed monitor.</p> <p><b>actualValuesToUpdate</b> - A map of variables to the new values.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## updateViaSourceTemplateEx

The **updateViaSourceTemplateEx** method updates a group of entities that were created with a template deployment operation.

<b>Usage</b>	<pre>public void updateViaSourceTemplateEx(String[] fullPathToDeployedGroup, HashMap actualValuesToUpdate, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>fullPathToDeployedGroup - A String array specifying the full path to the group. The path starts with the first group under SiteScope root and ends with the group the template was deployed under.</p> <p>actualValuesToUpdate - A map of variables to the new values.</p> <p>username - SiteScope user name, either plain text or encrypted.</p> <p>password - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## updateViaTemplateEx

The **updateViaTemplateEx** method updates a group of entities that were created with a template deployment operation.

<b>Usage</b>	<pre>public void <b>updateViaTemplateEx</b>(String[] fullPathToTemplate, String[] fullPathToDeployedGroup, HashMap actualValuesToUpdate, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplate</b> - A String array specifying the full path to the template. The path starts with the name of the root template container and ends with the name of the template.</p> <p><b>fullPathToDeployedGroup</b> - A String array specifying the full path to the group. The path starts with the first group under SiteScope root and ends with the group the template was deployed under.</p> <p><b>actualValuesToUpdate</b> - A map of variables to the new values.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException

## updateViaTemplateWithRootGroupEx

The **updateViaTemplateWithRootGroupEx** method updates the template deployment to use the new variables. The full path to the deployed group should point to a root group.

<b>Usage</b>	<pre>public void updateViaTemplateWithRootGroupEx(String[] fullPathToTemplate, String[] fullPathToDeployedRootGroup, HashMap actualValuesToUpdate, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><b>fullPathToTemplate</b> - A String array specifying the full path to the template. The path starts with the name of the root template container and ends with the name of the template.</p> <p><b>fullPathToDeployedRootGroup</b> - A String array specifying the full path to the group. The path starts with the first group under SiteScope root and ends with the deployed root group.</p> <p><b>actualValuesToUpdate</b> - A map of variables to the new values.</p> <p><b>username</b> - SiteScope user name, either plain text or encrypted.</p> <p><b>password</b> - Either plain text or encrypted.</p>
<b>Throws</b>	ExternalServiceAPIException - on failure

## Chapter 3: Data Acquisition APIs

The following data acquisition actions are supported using the SiteScope Data Acquisition API:

Method	Description
<i>getData</i>	Retrieves historical metrics data for monitor runs matching the specified query parameters. For details, see <a href="#">"getData" on the next page</a>
<i>getDataWithTopology</i>	<p>Retrieves historical metrics data for monitor runs matching the specified query parameters and VMware reconciliation topology collected by VMware monitors currently running on SiteScope.</p> <ul style="list-style-type: none"><li>• Supports given time interval, credentials, and filter (monitor type(s), name, etc...)</li><li>• Returns XML similar to the XML sent with generic data integration that contains the (historical) metrics data</li></ul> <p>For details, see <a href="#">"getDataWithTopology" on page 81</a>.</p>
<i>getMonitorTypesWithMetricNames</i>	Scans all the monitors in this SiteScope instance for which the user has view permissions, and returns a list of their types together with the metric names per monitor type. The list of metric names is merged from all the monitors of each type (repeated occurrences are removed). Where <code>enabledMonitorsOnly</code> is true, it scans enabled monitors only. Where <code>enabledMonitorsOnly</code> is false, it scans all monitors (enabled/disabled) in the SiteScope instance. For details, see <a href="#">"getMonitorTypesWithMetricNames" on page 84</a> .

## getData

The **getData** method gets historical data for monitor runs matching the specified query parameters. The data is taken from the SiteScope daily log.

<b>Usage</b>	<pre>public byte[] <b>getData</b> (String [] query,     String username,     String password)     throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p>query - Array of parameters by which to filter the SiteScope daily log data. Parameters should be specified in the following order, and separated by commas: [START_TIME, END_TIME, MONITOR_TYPE, TARGET_SERVER, BSM_ID, MONITOR_NAME, DATA_GRANULARITY]</p> <p>where:</p> <p>START_TIME - Start of time frame in which to get historical data (in milliseconds since January 1, 1970, 00:00:00 GMT). Mandatory.</p> <p>END_TIME - End of time frame in which to get historical data (in milliseconds since January 1, 1970, 00:00:00 GMT). Mandatory.</p> <p>MONITOR_TYPE - Monitor type(s) for which to get data. A monitor type is its 'Topaz name' as detailed in SiteScope documentation.</p> <p>TARGET_SERVER - Server name(s) monitored by this SiteScope for which to get data.</p> <p>BSM_ID - Monitor BSM ID(s) for which to get data.</p> <p>MONITOR_NAME - Monitor name(s) for which to get data. Monitor name appears in the general settings of the monitor properties.</p> <p>DATA_GRANULARITY - Granularity of the data in seconds. Data samples for every [DATA_GRANULARITY] seconds will be listed in the response. To pass several monitor types, monitor names, monitor BSM ID's or target servers, separate them with a #,# token. For example: [START_TIME,END_TIME,MONITOR_TYPE1#,#MONITOR_TYPE2,TARGET_SERVER1#,#TARGET_SERVER2,DATA_GRANULARITY]</p> <p>username - User name for authentication</p> <p>password - Password for authentication</p>
<b>Returns</b>	byte array of a compressed (gzip) XML with the requested data

<b>Throws</b>	RemoteException ExternalServiceAPIException - <ul style="list-style-type: none"><li>• Start time or end time are null or empty.</li><li>• Start time is not chronologically earlier than end time.</li><li>• The amount of memory required by the server to carry out this request violates the memory limits specified in the configuration preferences of the server.</li></ul>
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## getDataWithTopology

The **getDataWithTopology** method gets historical data for monitor runs matching the specified query parameters, with reconciliation topology for VMware monitors. The data is taken from the SiteScope daily log. The reconciliation topology is collected by VMware monitors currently running on SiteScope. Reconciliation topology for monitors that existed in the specified time frame but no longer exist at the time the request is made, is not available in the response.

Reconciliation topology matching the above constraints includes:

- Details of VMware objects referenced in the counters of the VMware monitors whose run data is within the specified time frame.
- Links between the above VMware objects.
- References between the VMware objects and the counters in the run data.

<b>Usage</b>	<pre>public byte[] <b>getDataWithTopology</b>(String[] query, String username, String password) throws ExternalServiceAPIException</pre>
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<p><b>Parameters</b></p>	<p>query - Array of parameters by which to filter the SiteScope daily log data. Parameters should be specified in the following order, and separated by commas:                  [START_TIME, END_TIME, MONITOR_TYPE, TARGET_SERVER, BSM_ID, MONITOR_NAME, DATA_GRANULARITY]</p> <p>where:</p> <ul style="list-style-type: none"> <li>• START_TIME - Start of time frame in which to get historical data (in milliseconds since January 1, 1970, 00:00:00 GMT). Mandatory.</li> <li>• END_TIME - End of time frame in which to get historical data (in milliseconds since January 1, 1970, 00:00:00 GMT). Mandatory.</li> <li>• MONITOR_TYPE - Monitor type(s) for which to get data. A monitor type is its 'Topaz name' as detailed in SiteScope documentation.</li> <li>• TARGET_SERVER - Server name(s) monitored by this SiteScope for which to get data.</li> <li>• BSM_ID - Monitor BSM ID(s) for which to get data.</li> <li>• MONITOR_NAME - Monitor name(s) for which to get data. Monitor name appears in the general settings of the monitor properties.</li> <li>• DATA_GRANULARITY - Granularity of the data in seconds. Data samples for every [DATA_GRANULARITY] seconds will be listed in the response.</li> <li>• To pass several monitor types, monitor names, monitor BSM ID's or target servers, separate them with a #,# token. For example:                  [START_TIME,END_TIME,MONITOR_TYPE1#,#MONITOR_TYPE2,TARGET_SERVER1#,#TARGET_SERVER2,DATA_GRANULARITY]</li> </ul> <p>username - User name for authentication                  password - Password for authentication</p>
<p><b>Returns</b></p>	<p>Byte array of a compressed (gzip) XML with the requested data</p>

<b>Throws</b>	RemoteException ExternalServiceAPIException - <ul style="list-style-type: none"><li>• Start time or end time are null or empty.</li><li>• Start time is not chronologically earlier than end time.</li><li>• The amount of memory required by the server to carry out this request violates the memory limits specified in the configuration preferences of the server.</li><li>• SiteScope is not set up to collect topology in the background: either it is not integrated with BSM, or topology collection is disabled (<b>Enable topology collection in standalone deployment</b> is not selected in <b>Infrastructure Preferences &gt; General Settings</b>).</li></ul>
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## getMonitorTypesWithMetricNames

The **getMonitorTypesWithMetricNames** method scans all the monitors in this SiteScope instance for which the user has view permissions, and returns a list of their types together with the metric names per monitor type.

The list of metric names is merged from all the monitors of each type (repeated occurrences are removed). Where `enabledMonitorsOnly` is true, it scans enabled monitors only. Where `enabledMonitorsOnly` is false, it scans all monitors (enabled/disabled) in the SiteScope instance.

<b>Usage</b>	<pre>public byte[] getMonitorTypesWithMetricNames(boolean enabledMonitorsOnly, String username, String password) throws ExternalServiceAPIException</pre>
<b>Parameters</b>	<p><code>enabledMonitorsOnly</code> - If true only enabled monitors are scanned</p> <p><code>username</code> - User name for authentication</p> <p><code>password</code> - Password for authentication</p>
<b>Returns</b>	Byte array of a compressed (gzip) XML with the requested data
<b>Throws</b>	ExternalServiceAPIException

# Chapter 4: Use-Case Scenario - Configuring SiteScope APIs Calls

SiteScope configuration and data acquisition APIs enable you to run various scenarios automatically without using the SiteScope user interface.

This use-case scenario describes how the SiteScope administrator can automate the process of configuring and deploying a monitor. It includes the steps and APIs required to:

1. Import a monitoring configuration template to a specific template container (if the container does not exist, the code will create it).
2. Deploy the imported configuration template to a specified group path with parameters specified by user.

## API Usage:

To perform this scenario, the SiteScope administrator needs to:

1. Create a template container using the **createTemplateContainer** API method (performed only once; ignore this step if the template container already exists).

For method details, see "[createTemplateContainer](#)" on page 19.

2. Import a template using the **importTemplateWithOverride** API method.

For method details, see "[importTemplateWithOverride](#)" on page 64.

3. Deploy a template for a server using the **deploySingleTemplateWithResult** API method.

For method details, see "[deploySingleTemplateWithResult](#)" on page 30.

## API Example:

For this scenario, we created an API example named **SiteScopeImportAndDeployTemplateWithResultCommandLineUtil.java** (available from **<SiteScope root>\examples\integrations\api\src**), and a batch file named **import\_and\_deploy\_template.bat**, which calls the library that executes the API example.

Below is an example of how to fill the parameters for the batch file:

```
import_and_deploy_template.bat -host localhost -port 8080
-useSSL false -login admin -password admin
-templateContainerImportPath "TC" -templateFilePath SanityTemplates2
-deployGroupPath "MC" -deployTemplatePath "TC/sanity/basic OS monitors"
-testRemotes true -connectToServer true
-templateVariables SQLserver=sqlserver.hp.com,hostname=remotehost
-identifier "Template deploy":
```

The batch file is available from **<SiteScope root>\examples\integrations\api\bin\import\_and\_deploy\_template.bat**.

### To run that batch:

1. Make sure you have the latest Java version installed.
2. Open a command line and run:

C:\SiteScope\examples\integrations\api\bin\import\_and\_deploy\_template.bat with the below parameters and their values:

Parameter	Description
connectToServer	Selector to verify monitor measurements against the remote server during deployment.
deployGroupPath	Group of monitors on which the template is applied.
deployTemplatePath	Full path to the template (including template name) which would be deployed to the monitor group.
identifier	Identifier to be written to audit log.
overrideTemplate	Overrides template with identical path.
templateContainerImportPath	Parent container destination for new template, including template container name.
templateFilePath	Path in file system where the template file is located . This file is the import source.

Parameter	Description
templateVariables	A “Variable=Value” pairs all variables in the template with their values. Delimited by comma “,”.
testRemotes	Selector to run a test on the deployed remote server.

## API Configuration Used in this Example:

Below is the code used in the **SiteScopeImportAndDeployTemplateWithResultCommandLineUtil** API example, together with an explanation. You can find additional details in the java file.

Code	Explanation
<pre>import java.rmi.RemoteException; import com.mercury.sitescope.api.configuration.exception. <b>ExternalServiceAPIException;</b> import . . . (additional import classes i.e. HashMap, and etc.)</pre>	<p>Imports:</p> <ul style="list-style-type: none"> <li>• <b>ExternalServiceAPIException</b> – If the API call fails for some reason, such as unable to find searched property, or unable to perform an action if server is in read only mode.</li> <li>• <b>RemoteException</b> – Is thrown from <code>apiCall</code> method that uses remote calls.</li> </ul>
<pre>public class SiteScopeImportAndDeployTemplateWithResultCommandLineUtil extends <b>SiteScopeCommandLineUtil</b> {</pre>	<p>A class that works with API should extend the <b>SiteScopeCommandLineUtil</b> which has the SiteScope server connection <code>apiConfiguration</code> and <code>apiDataAcquisition</code> objects for all the exposed public APIs.</p>

Code	Explanation
<pre>public static void main(String args[]) {     try     {         SiteScopeImportAndDeployTemplateWithResultCommandLineUtil         cmd = new         SiteScopeImportAndDeployTemplateWithResultCommandLineUtil         ();         cmd.runCommand(args);     } catch (ExternalServiceAPIException e){         System.err.println("\nFailed to run " + USAGE + " due to         " + e.getMessage());         System.exit(-1);     } catch (Exception ex) {         System.err.println("\nFailed to run " + USAGE + " due to         " + ex);         System.exit(-1);     } }</pre>	<p>Your class should extend SiteScopeCommandLineUtil and must contain the main method, which is called by the batch file.</p> <p>The runCommand method is an inherited method that sequences the API call. It resolves parameters and their values from argument lines and calls the appropriate API method. It is important to filter the exceptions thrown from the API execution runtime—first by ExternalServiceAPIException, and then by other unexpected exceptions.</p>
<pre>protected void usage() {     String generalUsage = createGeneralCmdUsage();     String usage = . . .     String usageExp = . . .     System.out.println(usage);     System.out.println(generalUsage);     System.out.println(usageExp); }</pre>	<p>The usage method generates usage rules and example text. Fill the strings to help users use your API via command line. If your implementation is intended for automation purposes, you can make it an empty method. For a detailed example, see the code in the API example. The method createGeneralCmdUsage is inherited from parent class.</p>
<pre>protected void apiCall() throws ExternalServiceAPIException, RemoteException {</pre>	<p>The apiCall method wraps the actual usage of apiConfiguration and apiDataAcquisition, and envelops them with pre- and post- execution messages. See the example in the following three sections of the code.</p>



Code	Explanation
<pre>final int NOT_FOUND = -1;  String parentCont = ""; String contName = ""; Integer indexOfDelim = pathToTemplateContainer.lastIndexOf("/");  if (indexOfDelim==NOT_FOUND){ // if no delims, parent container is root and the path is the template name contName = pathToTemplateContainer; }else{ // if path supplied divide it to parent and suffix (template name) parentCont = pathToTemplateContainer.substring (0,indexOfDelim); contName = pathToTemplateContainerArr [pathToTemplateContainerArr.length-1]; } System.out.println("\n\n\n Creating template container... " + pathToTemplateContainer); try { apiConfiguration.createTemplateContainer(parentCont, contName, login, password); } catch (ExternalServiceAPIException e){ System.out.println("\n\n\nContainer creation skipped due " + e.getMessage() + "\n"); }</pre>	<p>The goal in the current API example is to import a template to a specific template container. The code creates the container. If a template container already exists, the exception is filtered to prevent an API execution abort. For more details, see <a href="#">"createTemplateContainer" on page 19</a>.</p>
<pre>System.out.println("\n\n\n Importing template... "); System.out.println("Getting template file data file name is:"+pathToTemplateFile);  templateBinary=SiteScopeFileUtil.getBytesFromFile (pathToTemplateFile); System.out.println("\n Trying to import template"); System.out.println ("The deployment path is : " +pathToTemplateContainer); apiConfiguration.importTemplateWithOverride (pathToTemplateContainer, templateBinary,login, password,override);</pre>	<p>The template is a binary file that was exported from an existing SiteScope template. Enter the path to the template file. The code reads the path and translates it into actual bytes, which it sends to the target SiteScope server provided by the host parameter. For more details, see <a href="#">"importTemplateWithOverride" on page 64</a>.</p>
<pre>//deploy HashMap&lt;String,String&gt; result = (HashMap&lt;String,String&gt;) apiConfiguration.deploySingleTemplateWithResult (pathToDeployTemplateArr, variables, pathToDeployGroupArr, connectToserver,testRemotes, login, password, identifier); SiteScopeIOUtil.printMap(result,"");  System.out.println("\nAction was successfully completed"); }</pre>	<p>The <code>deploySingleTemplateWithResult</code> API call deploys the groups and monitors contained in the template. It takes the monitor properties and instantiates new active monitors, and then starts the monitors. It returns the deployment result in the form of new monitor properties. For more details, see <a href="#">"deploySingleTemplateWithResult" on page 30</a>.</p>

Code	Explanation
<pre>protected void checkAdditionalParams(Map&lt;String, String&gt; otherParams) { variables = new HashMap&lt;String, String&gt;(); for (String key : otherParams.keySet()) { if (key.equalsIgnoreCase(PATH_TO_TEMPLATE_CONTAINER)) { pathToTemplateContainer = otherParams.get(key); pathToTemplateContainerArr = pathToTemplateContainer.split(PATH_DELIM); } else if (key.equalsIgnoreCase(PATH_TO_DEPLOY_GROUP)) { pathToDeployGroup = otherParams.get(key); pathToDeployGroupArr = pathToDeployGroup.split(PATH_ DELIM); } else if (key.equalsIgnoreCase(PARAMETER_STRING)) { . . . } else { System.out.println("\nUnknown argument " + key); usage(); System.exit(-1); } }</pre>	<p>The checkAdditionalParams method uses a map of parameters that was delivered in the command line used in the API call. The method iterates over the map, and for each key, it maps its value to the appropriate variable in your class. The following basic parameters should always be present: host, port, username, password, useSSL. They are deduced by the parent class from command line arguments. Other parameters need to be handled by the implementer as described in the code. If an unknown parameter is found, the method notifies the user with the usage rules print and stops execution.</p>

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