

SAS Visual Investigator 10.6 Hotfix 2 Release Notes



SAS® Documentation

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SAS Visual Investigator 10.6 Hotfix 2

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Release details

This release				
Product Name	SAS Visual Investigator 10.6 Hotfix 2			
Supported SAS software				
Facet name	DU name	Version		
svi-datahub	datahub	15.1.78		
elasticsearch	elasticsrch	—		
searchguard	searchguard	—		
svi-ai	svi-ai	5.1.72		
svi-alert	svi-alert	12.1.78		
svi-audit	sviaudit	4.1.72		
svi-configuration	sviconfig	—		
svi-data-export	svi-data-export	—		
svi-entity-resolution	svientity	4.1.73		
svi-feature	svifeature	6.1.75		
svi-indexer	svi-indexer	0.1.76		
sasmobileinvestigator	svimobile	3.1.73		
svi-network-analytics	svintwkanlyt	5.1.72		
svi-sand	svi-sand	11.3.79		
svi-vsd-service	sviscnrioadm	11.1.72		
svi-scorecard	svi-scorecard	1.2.73		
svi-transport	svi-transport-service	5.1.73		
sasvisualinvestigator	svi-visual-investigator	8.2.74		
svi-importer	svi-importer	2.1.74		
sasadaptivelearning	adaptivelearning	2.1.80		
adaptiveml	adaptiveml	3.0.138		

Updating SAS Visual Investigator Software

The following instructions describe how to update your SAS Visual Investigator Software to the correct version.

Important

You can no longer use the steps in the *Update with Yum* and *Update with Zypper* sections in the "Updating Your SAS Viya Software" section of the SAS Viya 3.5 for Linux: Deployment Guide.

Overview

An update replaces some or all of your deployed software with the latest version of the software. You perform the update with the same command that was used to install SAS Viya, and use the same software order.

 To see what updates are available for your deployed software, go to the SAS Viya Hot Fix Availability web page at <u>http://ftp.sas.com/techsup/download/hotfix/HF2/Viya_home.html</u>.

Use the same tool (Ansible, yum, or Zypper) to update that you used to install. For example, if you used an Ansible playbook for your initial installation, update with Ansible.

- If you want to update your deployment from programming-only to full, you can use only Ansible.
- SAS Data Science is deployed as programming-only. However, to obtain the visual interface for the components
 of SAS Data Science, different products must be licensed. The resulting order should be deployed using the
 instructions in <u>Adding SAS Viya Software to a Deployment and Upgrading Products in SAS Viya 3.5</u>. Contact your
 SAS account representative to determine the exact products that are required.
- SAS might update components of the Ansible playbook that is used to deploy your SAS Viya software. You will
 need to download the current version of the SAS Orchestration CLI to generate a new Ansible playbook for your
 deployment, and then run the new Ansible playbook.

Here are other considerations when preparing for an update:

- The update process preserves any user-modified configuration values in the **vars.yml** file, but changes made to other files in the deployment might be lost. Therefore, SAS recommends that you make changes to **vars.yml** when possible in order to avoid any loss of customizations that you made to other files.
- You will need the location of the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.

Note

If you have added any CAS servers to your initial deployment, you must update those CAS servers as well as each machine in your initial deployment.

- If you are using a PDF version of this guide, go to the Deployment Guides web page at <u>https://support.sas.com/en/documentation/install-center/viya/deployment-guides.html</u> and verify that you have the latest version of the deployment documentation before you start the update process. The release date of each document is located in the bottom right corner of the front page.
- Updating SAS Viya software requires an outage period because some SAS Viya services are stopped and restarted automatically during the update process. The update process is the same regardless of whether the deployment is single-tenant or multi-tenant.

User Requirements for Performing the Update

To perform the update process, you must have administrator privileges for the machine. In addition, your account must have superuser (sudo) access. To verify sudo user privileges, run the following command: sudo -v or sudo -1.

Synchronize the Mirror Repository

If you are using a mirror repository, perform these steps.

1. (Optional) To list the packages that are available for the update process, run the following command on the machine where the mirror repository is located:

Note

Enter the command on a single line. Multiple lines are used here to improve readability.

mirrormgr mirror diff --deployment-data path-to-deployment-zip-file-from-SOE

--path path-to-mirror-destination --latest

Note

The mirrormgr mirror diff command returns the available files for all supported platforms of the products in the deployment. To filter out unwanted content from the output of the command, use a pipe and the grep command. For example, add the following at the end of the preceding command to filter out all file names containing suse:

grep -v "suse"

 Synchronize the deployment's mirror repository with SAS's mirror repository. Use the same options to update the mirror repository that you used to create the mirror repository. For more information, see <u>SAS Mirror Manager and</u> the Mirror Repository.

To synchronize, run the following command on the machine where the connected mirror repository is located:

Note

Enter the command on a single line. Multiple lines are used here to improve readability.

```
mirrormgr mirror --deployment-data path-to-deployment-zip-file-from-SOE
```

```
--path path-to-mirror-destination --latest
```

3. If you are in a deployment without internet access, move the files from the machine where the connected mirror repository is located to the machine where the unconnected mirror repository is located.

(Optional) List the Packages That Are Available for Update

To list the packages that are available for the update process, run the following command:

on Red Hat Enterprise Linux:

```
sudo yum check-update "sas-*"
```

```
on SUSE Linux:
sudo zypper list-updates | grep "sas-"
```

Update with Ansible

To update a SAS Viya deployment using Ansible:

- 1. (Optional) Record the existing list of installed software before you begin.
 - a. On each machine in your deployment, create a file that lists the names and versions of the RPM packages of the SAS Viya software that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.
 - Run the following command to create a text file that lists all the RPM packages:

```
sudo rpm -qg SAS > /sas/install/viya_rpms.txt
```

- b. On each machine in your deployment, create a file that lists the yum groups or packages that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see Store the Playbook.
 - Run the following command to create a text file that lists the yum groups on Red Hat Enterprise Linux:

sudo yum grouplist "SAS*" > /sas/install/viya_yumgroups.txt

• Run the following command to create a text file that lists the RPM packages on SUSE Linux:

sudo rpm -qa | grep "sas-" > /sas/install/viya_packages.txt

Note

If you receive a message such as the following, it can be ignored:

Repository repository-name is listed more than once in the configuration

Review the *_deployment.* files (for example, casconfig_deployment.lua) in the existing deployment for any user-modified changes. If there are any user-modified changes to the *_deployment.* files, back up the file and update the vars.yml file with the changes before you perform the update. If you have questions, contact SAS Technical Support.

Note

SAS recommends that you add your customizations to the **vars.yml** file rather than to a *_deployment.* file in order to preserve your customizations. Otherwise, your customizations would be lost during the update process.

By default, the update process backs up the following files:

For CAS:

/opt/sas/viya/config/etc/cas/default/cas_usermods.settings

/opt/sas/viya/config/etc/cas/default/casconfig.lua

/opt/sas/viya/config/etc/cas/default/cas.hosts

For SAS Object Spawner:

/opt/sas/viya/config/etc/spawner/default/spawner.cfg

For SAS/CONNECT:

/opt/sas/viya/config/etc/sysconfig/connect/default/sas-connect

- 3. If you have deployed SAS Event Stream Processing or SAS Event Stream Manager, perform the following steps:
 - a. Stop the SAS Event Stream Processing Studio (espvm) service by running the following command:
 - For Red Hat Enterprise Linux 6.x:

sudo service sas-viya-espvm-default stop

• For Red Hat Enterprise Linux 7.x or SUSE Linux:

sudo systemctl stop sas-viya-espvm-default

b. If you installed Streamviewer, stop the Streamviewer process:

\$DFESP_HOME/bin/dfesp_xml_client -url http://host-name:http-port/exit

Replace *host-name* with the host name of the machine where Streamviewer is running.

Replace *http-port* with the port number that you provided when you started Streamviewer with the start-up script.

For more information, see Starting Streamviewer.

c. Stop the metering service:

dfesp_xml_client -url "http://host-name:http-port/SASESP/exit"

Replace host-name with the host name of the machine where the metering server is running.

Replace http-port with the port number for the metering server. By default, it uses port 31001.

- 4. To verify the health of the SAS Infrastructure Data Server before running the playbook, perform the task in <u>Verify the Health of SAS Infrastructure Data Server</u>.
- 5. When you initiate the update, use the same command and options that you used when you performed the initial deployment. For more information, see <u>Deploy the Software</u>.

If you added additional CAS servers to your deployment, run the command for each CAS server. When you added the CAS servers to your deployment, you created **inventory.ini** and **vars.yml** files for each additional CAS server. Those same files must be specified in the command to initiate the update.

To initiate the update:

```
ansible-playbook -i CAS-server-inventory-file-name site.yml -e "@CAS-server-vars-file-name"
```

Be sure to add the appropriate options that you used for the initial deployment of the CAS servers. Repeat this command for each additional CAS server.

- 6. (Optional) Record the new list of installed software:
 - a. On each machine in your deployment, create a file that lists the names and versions of the RPM packages of the SAS Viya software that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>

Run the following command to create a text file that lists the RPM packages:

sudo rpm -qg SAS > /sas/install/new_viya_rpms.txt

- b. On each machine in your deployment, create a file that lists the yum groups or packages of the SAS Viya software that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.
 - Run the following command to create a text file that lists the yum groups on Red Hat Enterprise Linux:

sudo yum grouplist "SAS*" > /sas/install/new_viya_yumgroups.txt

Run the following command to create a text file that lists the RPM packages on SUSE Linux:

sudo rpm -qa | grep "sas-" > /sas/install/new_viya_packages.txt

Note

If you receive a message such as the following, it can be ignored.

Repository repository-name is listed more than once in the configuration

You can see the differences between the previous and current deployments by comparing the lists of installed software that precedes the update (Step 1) and that follows the update.

c. To verify that a specific update was applied, compare the contents of the text file created in <u>Step 6a</u> to the packages listed for the specific update. The package list for a specific update is available in the Manifest View for the update on the SAS Viya Hot Fix Availability web page at http://ftp.sas.com/techsup/download/hotfix/HF2/Viya_home.html.

Post-Update Tasks

After you complete an update, you must perform additional tasks. This section lists those updates, how to determine whether the update has been applied, and the manual steps required to finish the installation.

SAS Hadoop Plug-ins

Note

If you are not using SASHDAT on HDFS, skip this section.

If you receive an updated RPM for SAS Hadoop Plug-ins, for each Hadoop environment, you must determine whether to install it. Use the newer version of the RPM in each Hadoop environment. Install the updated RPM only if its version is newer than the one that is currently installed.

- 1. Install the updated RPM for SAS Hadoop Plug-ins on the CAS controller.
- 2. To find out the version number of the RPM that was just installed:

rpm --queryformat "%{VERSION}" -q sas-hdatplugins

The version number will be displayed in a format of three two-digit numbers separated by periods. Examples are 03.13.00 or 03.04.02. The variable *VERSION* is used to represent the actual version number in your environment.

- 3. On each Hadoop name node or data node, use the appropriate method to find the currently installed version:
 - For SAS Hadoop Plug-ins that were installed on the Hadoop cluster with the sashdat-install.sh command:

cat /opt/sas/HDATHome/SAS_VERSION

The output should include a version number in the VERSION format that is shown in the output of Step 2.

- For SAS Hadoop Plug-ins that were installed on the Hadoop cluster with Cloudera Manager, the parcel name should be SASHDAT-VERSION.p0.1.
- For SAS Hadoop Plug-ins that were installed on the Hadoop cluster with Ambari, the stack name should be SASHDAT-VERSION.s01.
- 4. If the installed version that is displayed by Step 3 is equal to or greater than the version number of the RPM displayed by the command in Step 2, then skip the rest of this task.
- 5. If the installed version that is displayed by Step 3 is less than the version number of the RPM that is displayed by the command in Step 2, follow the steps described in Deploying SAS Plug-ins for Hadoop to update your Hadoop environment to the newer version of the SAS Hadoop Plug-ins.

Re-index and Resolve Data

If you are updating a single tenant environment from SAS Visual Investigator 10.6 to SAS Visual Investigator 10.6 Hotfix 2 where your relationships use a dedicated index, you must re-index all relationships.

Note

Multi-tenant installations are unaffected.

- 1. In the administrative application, click **Data Objects**.
- 2. On the Data Objects toolbar, click Entities.
- 3. On the toolbar, click and select **Re-index and resolve entities** from the menu.

You are warned that re-indexing and resolving all entities might take a long time.

4. Click **Yes** to continue.

A pop-up message notifies you that the re-indexing and resolving process has started.

You can view the progress of the re-index, and whether it completes successfully by clicking Jobs

Update the Type of Deployment with Ansible

Overview

Using Ansible, you can modify your deployment from programming-only to full.

Note

If you make changes to the **proxy.conf** file and then rerun the playbook, those changes are overwritten. A copy of the **proxy.conf** should be created in the /etc/httpd/conf.d directory when you rerun the playbook. Use this copy, along with the instructions in Post-installation Tasks to make changes to the updated **proxy.conf** file.

Update the Type of Deployment

To update a SAS Viya deployment from programming-only to full:

1. Complete the task in <u>Generate a New Ansible Playbook</u>.

Note

Do not select the programming-only option in the SAS Orchestration CLI when generating the new playbook. The default playbook generated will be for a full deployment.

2. To change from a programming-only deployment to a full deployment, you must complete the configuration for the visual attributes of the deployment. For more information see <u>Post-installation Tasks</u>.

Note

When the programming-only interface is deployed, SAS Studio is accessible on port 7080. However, when updating from a programming-only deployment to a full deployment, SAS Studio uses a dynamically assigned port deployment.

Generate a New Ansible Playbook

You will need the location of the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.

If updates are needed in the Ansible playbook, to generate and apply a new Ansible playbook for your deployment:

- 1. (Optional) Record the existing list of installed software before you begin.
 - a. On each machine in your deployment, create a file that lists the names and versions of the RPM packages of the SAS Viya software that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.

Run the following command to create a text file that lists all the RPM packages:

sudo rpm -qg SAS > /sas/install/viya_rpms.txt

- b. On each machine in your deployment, create a file that lists the yum groups or packages that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.
 - Run the following command to create a text file that lists the yum groups on Red Hat Enterprise Linux:

sudo yum grouplist "SAS*" > /sas/install/viya_yumgroups.txt

• Run the following command to create a text file that lists the RPM packages on SUSE Linux:

sudo rpm -qa | grep "sas-" > /sas/install/viya_packages.txt

Note If you receive a message such as the following, it can be ignored. Repository repository-name is listed more than once in the configuration

- Use the Software Order Email (SOE) for your original deployment to download the current version of the SAS Orchestration CLI.
- 3. Using the SAS Orchestration CLI that you downloaded, create a new playbook using the instructions on the SAS Orchestration Command Line Interface (CLI) download site. For more information, see <u>Create a Playbook</u>.

Note

To modify the type of deployment from programming-only to full, use the correct --deployment-type command line option.

- 4. You must extract the new playbook to a location that is different from that of your original playbook. For example, if you extracted your original playbook to /sas/install/, you might extract the new playbook to /sas/upgrade/ instead. You must extract the new playbook to a location that is different from the one that you used for your deployment for these reasons:
 - To preserve the original vars.yml file and the inventory file.
 - To ensure that the playbook directory correctly reflects what is delivered. If a new playbook is accidentally extracted over an existing playbook, files that were removed in the newer playbook would still be available and could negatively affect the process for researching and resolving deployment issues.

To extract the new playbook, use a command that is similar to the following:

tar xf SAS_Viya_playbook.tgz -C /sas/upgrade/

- 5. Merge the **vars.yml** file and the inventory file from the previous deployment into the new playbook. If the previous inventory file contains any spaces that are used to indent machine names, do not include the extra spaces.
 - a. Compare the two inventory files to check for additions or changes in the newer set of files. Be sure to evaluate the comments to determine whether the requirements for host groups changed between releases of the software.

```
diff /sas/install/sas_viya_playbook/vars.yml /sas/upgrade/sas_viya_playbook/vars
.yml
```

diff /sas/install/sas_viya_playbook/inventory-file /sas/upgrade/sas_viya_playboo
k/inventory.ini

- b. If the new files contain new content, then merge your customized edits from the two original files into the two new files. If a key/value pair in the original file is not included in the new file, you do not need to add the key/value pair to the new file. If you have any questions, contact SAS Technical Support.
- c. If the original **vars.yml** file from the deployment that is being upgraded contains a value for the casenv_tenant variable, it must be removed. Run the following commands to remove the registered CAS service.

Note

Enter each of the three commands on a single line. Multiple lines are used here to improve readability.

cd /opt/sas/viya/home/bin

```
./sas-bootstrap-config --token-file
```

/opt/sas/viya/config/etc/SASSecurityCertificateFramework/tokens/consul/default/c lient.token

agent service deregister "cas-{casenv_tenant}-default-http"

./sas-bootstrap-config --token-file

/opt/sas/viya/config/etc/SASSecurityCertificateFramework/tokens/consul/default/c lient.token

agent service deregister "cas-{casenv_tenant}-default"

- d. If you have questions about whether to add a key/value pair from an original file to the new file, contact SAS Technical Support.
- 6. If you have deployed SAS Event Stream Processing or SAS Event Stream Manager, perform the following steps:
 - a. Stop the SAS Event Stream Processing Studio (espvm) service. Run the following command

For Red Hat Enterprise Linux 6.X:

sudo service sas-viya-espvm-default stop

For Red Hat Enterprise Linux 7.*x* or SUSE Linux:

sudo systemctl stop sas-viya-espvm-default

b. If you installed Streamviewer, stop the Streamviewer process:

\$DFESP_HOME/bin/dfesp_xml_client -url "http://host-name:http-port/exit"

Replace *host-name* with the host name of the machine where Streamviewer is running.

Replace *http-port* with the port number that you provided when you started Streamviewer with the start-up script.

For more information, see Starting Streamviewer.

c. Stop the metering server:

dfesp_xml_client -url "http://host-name:http-port/SASESP/exit"

Replace host-name with the host name of the machine where the metering server is running.

Replace http-port with the port number for the metering server. By default, it uses port 31001.

7. To apply the new Ansible playbook, change to the directory where the new playbook is located: cd /sas/upgrade/

Run the following command:

ansible-playbook site.yml

8. If you removed the CAS service that is associated with a casenv_tenant variable (described in Step 3), update any bookmarked URLs to remove that value and use cas-shared-default-http instead. For example, if your original deployment contained a casenv_tenant value of viya32, change it from http://host.company.com/cas-viya32-default-http to http://host.company.com/cas-shared-default-http.

Note

Do not include <code>casenv_tenant</code> in your new vars.yml. This variable is no longer used.

- 9. (Optional) Record the new list of installed software.
 - a. On each machine in your deployment, create a file that lists the names and versions of the RPM packages of the SAS Viya software that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.

Run the following command to create a text file that lists the RPM packages:

sudo rpm -qg SAS > /sas/install/new_viya_rpms.txt

- b. On each machine in your deployment, create a file that lists the SAS yum groups or packages that are installed. Create this file in the directory on each machine where you stored deployment and maintenance files. For more information about this directory, see <u>Store the Playbook</u>.
 - Run the following command to create a text file that lists the yum groups on Red Hat Enterprise Linux: sudo yum grouplist "SAS*" > /sas/install/new_viya_yumgroups.txt
 - Run the following command to create a text file that lists the RPM packages on SUSE Linux:

```
sudo rpm -qa | grep "sas-" > /sas/install/new_viya_packages.txt
```

Note If you receive a message such as the following, it can be ignored. Repository *repository-name* is listed more than once in the configuration

You can see the differences between the previous and current deployments by comparing the lists of installed software that precedes the update (Step 1) and that follows the update.

c. To verify that a specific update was applied, compare the contents of the text file created in Step 9a to the packages listed for the specific update. The package list for a specific update is available in the Manifest View for the update on the SAS Viya Hot Fix Availability web page at http://ftp.sas.com/techsup/download/hotfix/HF2/Viya_home.html.

Product changes

There are no product changes in the SAS Visual Investigator 10.6 Hotfix 2 release.

Issues addressed

This section gives details of issues that were addressed in the SAS Visual Investigator 10.6 Hotfix 2 release.

Issues addressed in SAS Visual Investigator 10.6 Hotfix 2

SAS Note	Details
65465	The location displayed on Map controls now updates correctly when moving between objects that use a Map control.
65464	The required or not required option is now correctly set for drop-down lists.
65463	The Child Object Viewer and Related Object controls now correctly display if they reference a field named type.
65461	An issue has been addressed which caused productivity ratings to not display in scenario-fired events after a comment was added.
65438	The Fill available space option now previews correctly in Page Designer.
65436	Labels and descriptions for Dates and Locations containing HTML are no longer searchable and are no longer returned in highlighted snippets.

SAS Note	Details
65432	An issue has been addressed which could cause a page prompt to respond incorrectly.
65429	An issue has been addressed which could cause context start and end dates to use your local time zone.
65427	An issue has been addressed which could cause a job to fail during alert generation.
65426	In scenario-fired events, the Run Date column has been renamed Event Date . The Lineage Run Date column on the Alert Activity grid has been renamed Disposition Date . Both columns can be added and removed from the grid, are sortable, and display the date information contained in the database.
65425	The Alert scenario-fired event table now shows the Context Start Date and Context End Date.
65424	 The following fields now display correctly in the lineage grid: Productivity Timestamp Productivity User ID Message Text Values Modified By Modified Timestamp Received Entity ID Received Entity Type Recommended Queue ID Rule ID
65423	Double-byte characters now display correctly when used in solution extensions or JavaScript.
65418	Synonym lists can now be successfully uploaded regardless of client locale.
65417	An issue has been addressed which caused only 50 objects to show in the Related Object control.
65414	Non-administrative users can now correctly access the Object Manager.
65412	An issue has been addressed which could cause two objects to be highlighted in the Child Object Viewer control if an initial sort order was applied.
65411	Users can now only edit relationships in the Related Objects control when in Edit mode.
65409	An issue has been addressed where entering incorrect data as a workflow variable and then changing the type could cause loss of data.
65408	An issue has been addressed which could cause objects in the Related Page control to not display correctly.
65401	When creating a workflow, new or changed variables are no longer cleared if you click the Properties tab before saving your changes.
65399	An issue has been addressed which could cause some columns to become hidden when resizing columns in an Alert Activity grid.
65397	To prevent multiple objects being created when using the Search and Create functionality, the Save button is disabled after its first use.
65395	The Alert Activity Grid now exports correctly to Microsoft Excel.
65394	An issue has been addressed which could cause the OK button to be incorrectly enabled during object disposition creation.
65391	The Advanced Search window now correctly clears previous searches.

SAS Note	Details
65390	An issue has been addressed which prevented network diagrams from being added to Insights.
65388	The performance of incremental indexing of transactions has been improved.
65387	When creating a workflow, required fields are now correctly enforced when a workflow contains a page prompt.
65385	Options selected from drop-down lists that are set to required can now be cleared after the Required option is removed from the drop-down list in Page Builder.
65383	An issue has been addressed which could allow authenticated users to run unsafe HTML and JavaScript in a user's browser.
_	Saving or loading Insights now respects text escaping.
_	An issue has been addressed which required users to have the Administrator Core Metadata Objects capability to create object dispositions.
—	Performing a search from the SAS Visual Investigator Home page now correctly shows the current term being searched.
Performing a search from the SAS Visual Investigator Home page now correctly shows the currer term being searched. A new map filter has been added to SAS Visual Investigator that accepts any GeoJSON shape. F example: {	

SAS Note	Details
_	Performance when calling the /svi-sand/admin/config/types endpoint has been improved.
—	Using the isolation forest detection method in SAS Adaptive Learning and Intelligence Agent no longer trains twice.
_	The Resize grid to fit content option now correctly displays the contents of the Child Object Viewer.
_	Exporting a SAS Visual Investigator configuration where the same user group has been added multiple times to an object's Authorization tab now correctly exports each authorization rule for that user group.
_	Removing an option from a reference data hierarchy list now removes the associated child options.
_	An issue has been addressed where required fields were not enforced when relating one object to another object.
—	An issue has been addressed which could cause queued indexing jobs to block subsequent indexing jobs and cause them to never complete.