



# Using Vantage Secured Version Control

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**Note:** This guide is written for video professionals who are familiar with using Vantage. To implement applications in Vantage, you should know how to create workflows and submit jobs. If you aren't familiar with Vantage, we suggest that you review the *Vantage User's Guide* and *Vantage Domain Management Guide* as needed.

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## Synopsis

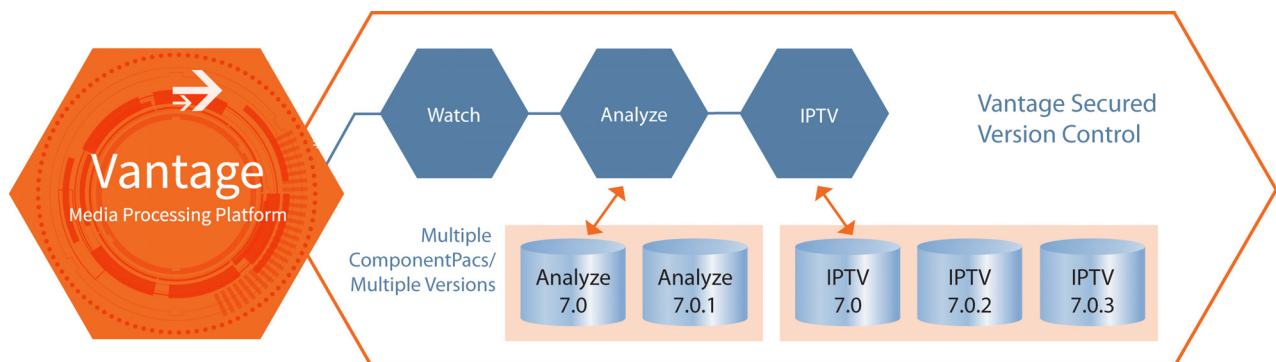
A compelling feature of Vantage 7.0 and later is Secured Version Control.

Creating a perfected version of a complex Workflow is detailed and time consuming. Once a Workflow is completed and validated, users often have a strong desire to "not touch it". To support such protection, Vantage allows the Workflow to be locked, thus preventing edits from being made. This ensures that all new jobs submitted to the Workflow will work as planned. However, when a new Vantage software version is released with new features and improvements, many users may not install the new Vantage version because they are concerned about performing regression testing on the Workflow to ensure proper operation.

The Secured Version Control feature within Vantage 7.0 (and later) provides you the ability to install the latest software and begin building Workflows that utilize new ComponentPac libraries (software libraries), while you leave the existing Workflows untouched and operating on a previous version of a ComponentPac. When, and if, you are ready to upgrade a Workflow or action within a Workflow, you can do so at a convenient time.

The Vantage components that use Secured Version Control are ABR Optimize, Analysis (Analyze and QC), Capture, IPTV, Multiscreen, Post Producer (Chronicle, Compose, Conform), Tempo, and Timed Text Flip. These modern ComponentPacs are architected in such a way as to easily allow you to operate multiple versions. Legacy components such as General Purpose Flip, Examine, Identify, Compare and others will not support Secured Version Control. For the most part, the modern transcoder components provide greater functionality than the legacy components and you will experience significant benefits by upgrading Workflows to the modern actions.

Workflows that utilize older legacy components will continue to need upgrading as per the historical Vantage methodology. Regression testing for these legacy-based workflows is recommended when you implement a new Vantage version.



# Best Practices When Using Secured Version Control

The Secured Version Control feature within Vantage 7.0 (and later) provides an unprecedented capability to enable you to selectively utilize new Vantage 7.0 (or later) features without compromising existing Vantage workflows.

In order to take advantage of Secured Version Control your Vantage systems will need to be upgraded to version 7.0 or later. Vantage components that use Secured Version Control (ABR Optimize, Analysis, Capture, IPTV, Multiscreen, Post Producer, Tempo, and Timed Text Flip) can then be upgraded through Secured Version Control using ComponentPac packages.

Existing Workflows that use older (non-ComponentPac) legacy component types (such as the Flip transcoder), will need to be upgraded as per the historical Vantage methodology using Transcoder and Analysis installers.

Non-production regression testing is recommended when a new Vantage version is released. See [Frequently Asked Questions \(FAQ\)](#) later in this document for a list of Services and Actions supporting Secured Version Control.

In order to protect existing workflows, Vantage 7.0 allows selected workflows to be locked, thus preventing edits. This ensures that all new jobs submitted to the workflow will be processed using a consistent set of components.

When updating your Vantage system using Secured Version Control you should:

- Always backup your Vantage Workflows prior to updating them. (This is done for you automatically when an action is upgraded. The workflow is automatically backed-up to C:\VantageWorkflowBackup\, local to the Workflow Designer).
- Duplicate workflows you wish to update to insure you have a fall back in case the updated components do not perform as expected.
- Lock all Workflows that you do not plan to update.

## Notes:

1. New actions and workflows created in the Workflow Designer use the latest installed ComponentPac. However, existing actions and workflows must be selected and upgraded to use the latest ComponentPac. If they are not upgraded, they will continue to use the ComponentPac with which they were created. See the *Vantage User Guide* for detailed action and workflow upgrade instructions.
2. When an action is tied to a particular ComponentPac and that ComponentPac is not installed, the action will fall back to using the latest ComponentPac installed. You may need to re-create the action if the latest ComponentPac does not support the action's settings. If the missing ComponentPac is reinstalled, the action will resume use of that ComponentPac.
3. With Vantage 7.0, workflows that were created with a previous release will default to using the latest ComponentPac installed until the actions are upgraded. Once the actions are upgraded, they become tied to the current, latest installed

ComponentPac(s). This ensures that when a future ComponentPac is installed, the upgraded actions will continue to use the ComponentPac to which they were tied. Starting with Vantage 7.0 Update Pack 1, workflows created with a previous version of Vantage (such as Vantage 6.3) will use the earliest ComponentPac installed. When you upgrade a workflow created with an older Vantage version to Vantage 7.0 or later, the actions will be tied to the latest ComponentPacs currently installed.

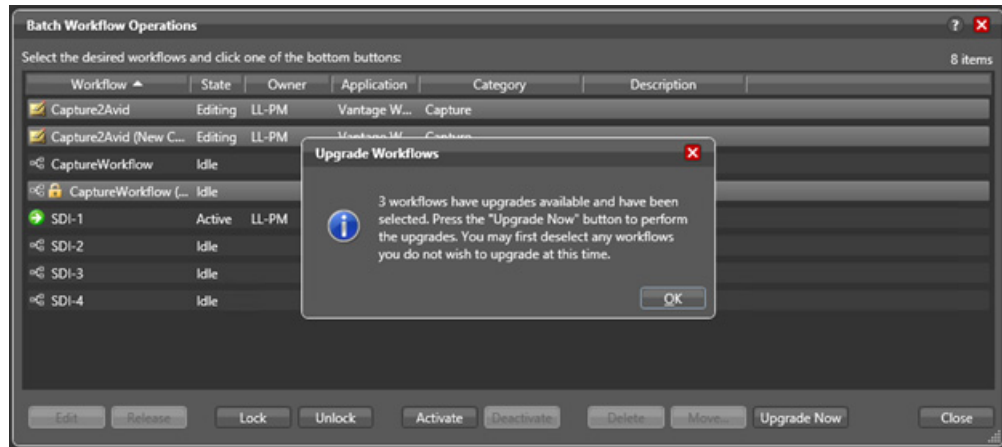
4. The Session Log available in the Workflow Designer Job Status or Domain Job Status panel lists which ComponentPac was used for a completed job.
5. If a Vantage service is unable to unpack a ComponentPac (such as when the Vantage service does not have the appropriate user credentials to access the file location of where the ComponentPac file resides), an entry is added to the service trace log to record the issue.
6. If you convert a single-node Vantage domain to a multi-node Vantage domain and if the installed ComponentPacs reside in a local path, the ComponentPacs must be copied or moved to a shared folder location and re-installed or re-registered.
7. Once workflows and actions have been upgraded to the latest ComponentPac they cannot be reverted back to previous versions.
8. Upgrading Vantage via an update pack, such as 7.0 UP1, may cause ComponentPac actions to be shown as eligible for upgrade even though a new ComponentPac has not been installed. This is normal behavior for update packs. You can upgrade the ComponentPac actions or not, as you prefer.

**Summary of Notes on ComponentPac Use:**

- New workflow = uses and tied to latest ComponentPac
- Upgraded workflow = uses and tied to latest ComponentPac
- Un-upgraded workflow = uses ComponentPac with which created or tied
- Workflow missing ComponentPac = uses latest ComponentPac, but reverts to missing ComponentPac if that ComponentPac gets restored
- Workflow prior to 7.0 opened in 7.0 = uses latest ComponentPac until upgraded. Tied to latest ComponentPac after upgrade.
- Workflow prior to 7.0 opened in 7.0 UP1 = uses earliest ComponentPac until upgraded. Tied to latest ComponentPac after upgrade.

## Upgrading Vantage 6.3 (and earlier) systems to 7.0 (or later)

1. Run the Vantage 7.0 installers on all relevant Vantage servers.
2. Upgrade all workflows and actions to allow them to be ComponentPacs aware.
  - a. Open the Vantage Workflow Designer.
  - b. From the *File* menu select *Batch Workflow Operations*.



- c. From the *Batch Workflow Operation* window click *Check For Upgrades*. The *Upgrade Workflow* popup will appear.
  - d. On the *Upgrade Workflow* popup Click *OK*.
  - e. From the *Batch Workflow Operation* window, click *Upgrade Now* to upgrade all selected workflows.
3. Download any new ComponentPac or legacy component updates that you wish to install on your Vantage 7.0 (or later) system.
  4. Install ComponentPac and/or legacy component updates. See the *Vantage Domain Management Guide* for installation details.

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**Important Note:** For rules governing which ComponentPac is used prior to and after upgrading, please see the Notes in [Best Practices When Using Secured Version Control](#).

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# Downloading and Installing ComponentPac Updates

Follow these steps to install new ComponentPacs:

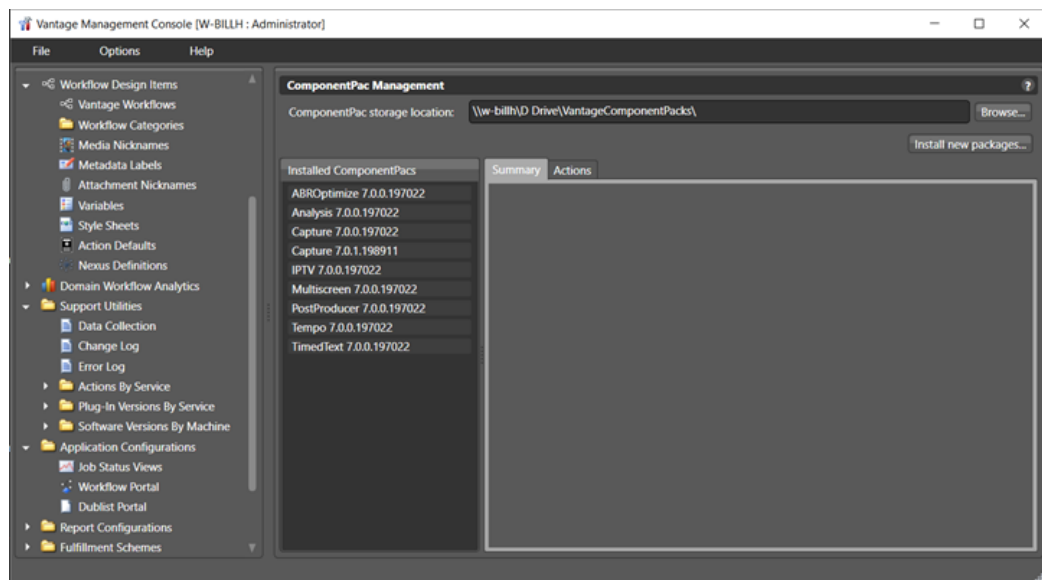
1. Download ComponentPac update file(s) from the download page associated with the Telestream product you wish to upgrade. Go to <http://www.telestream.net/telestream-support/overview.htm> and select the associated download links.
2. When you have downloaded all ComponentPacs, move the files onto a shared network folder that all Vantage and Lightspeed Live Capture servers within your domain have permission to access.

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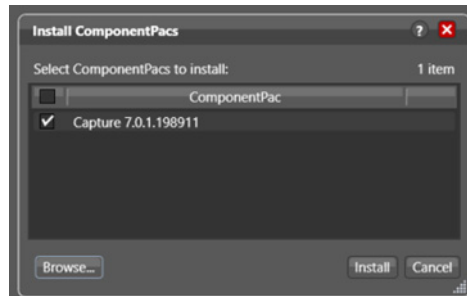
**Note:** If the Vantage domain is a single node (all on in one server), the ComponentPacs may reside in a local folder and a share folder is not required. However, if the Vantage domain is an array, the Vantage services must have permission to access the network location where the ComponentPac is placed. User credentials can be provided to Vantages services in one of two ways: (1) Change the log on of the Vantage services via the Windows Services console. (2) Use the Authorization tab within Settings & Options of the Vantage Management Console to specify authorization credentials for remote folder access. After applying credentials to Vantage services, the services must be restarted in order to complete the change.

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3. Open the Vantage Management Console connected to your systems master domain database and select ComponentPac Management from the left panel. ComponentPacs are managed through the ComponentPac Management panel. ComponentPac Management panel 's Installed ComponentPacs list will show all of the ComponentPac versions that are installed in your Vantage domain.



4. From the ComponentPac Management panel Browse to the shared network location where your ComponentPac update files reside and click Install new Packages.



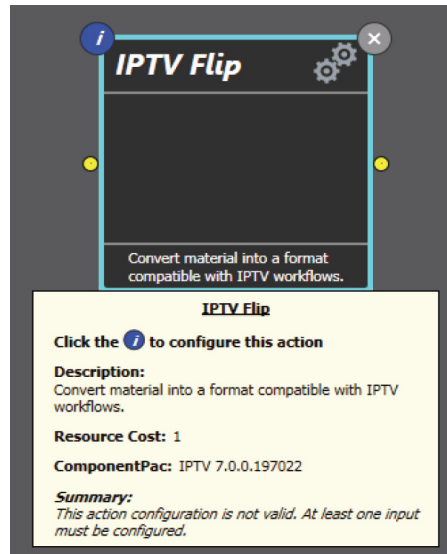
5. Confirm that all of the ComponentPacs you wish to install are listed and are enabled within the *ComponentPacs to install* window.
6. Click Install.

The selected ComponentPacs will be installed and displayed in the ComponentPac Management's Installed Component Pacs window. Note that installing ComponentPacs will not affect any running jobs or workflows. The ComponentPac Install process unpacks each ComponentPac package and places its contents onto each individual Vantage server. All components are copied to the <Install Directory>\Program Files (x86)\Telestream\Vantage\Component folder on each respective Vantage server.

7. Restart the services hosting the affected actions in order for the installed ComponentPacs to be available for use.

## Managing ComponentPac Versions

With Secured Version Control, it is quite easy to manage the ComponentPac versions within Workflows. ComponentPacs are software libraries that do the "heavy lifting" of the actions such as transcoding, analysis and conforming. When you hover over the "i" icon at the top left corner of an action, information is displayed which includes the version of the ComponentPac library. In the following image, the IPTV Flip action's ComponentPac is shown as "IPTV 7.0.0.197022".

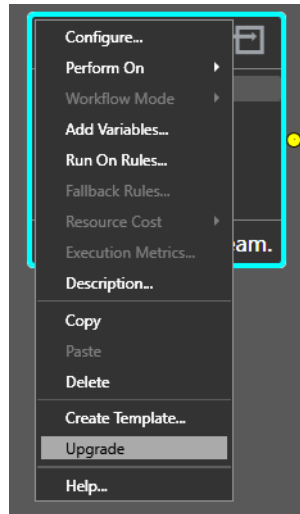


When a new version of Vantage is installed, this action must specifically be selected and upgraded to the latest version of software. If it is not upgraded, all processing through this action will continue to utilize the previous version of the software.



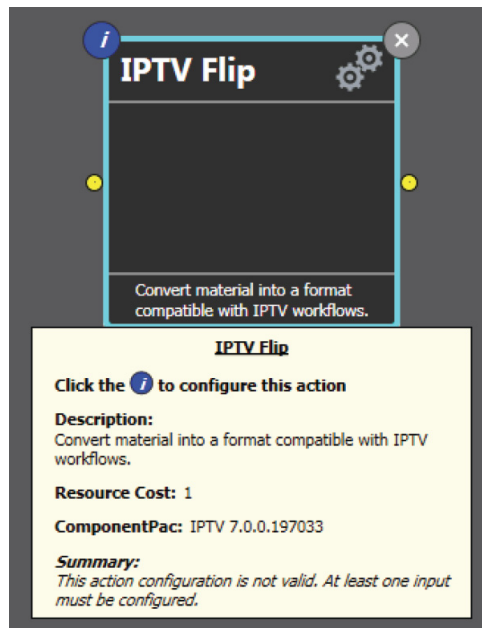
## Upgrading Actions

To upgrade an action, right-click the action to bring up the context menu and select Upgrade. The next time the action runs, it will utilize the new library. This allows upgrading the action at the most convenient time, rather than at the time of the software upgrade.



If a new Workflow is created, the new actions added to the Workflow will automatically utilize the latest ComponentPac.

Once the action has been upgraded, the new version can then be identified by inspecting the action. In the following figure, the IPTV Flip ComponentPac is now utilizing a library called "IPTV 7.0.0.197033".



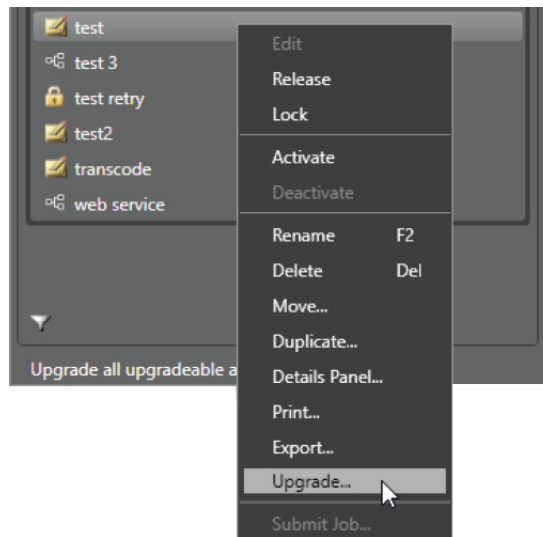
Not only can individual actions be upgraded, but also entire Workflows. By duplicating the Workflow to be validated and then upgrading it to the new version of Vantage, it becomes quite easy to perform Workflow regression on new versions of software without compromising the integrity of the original Workflow.

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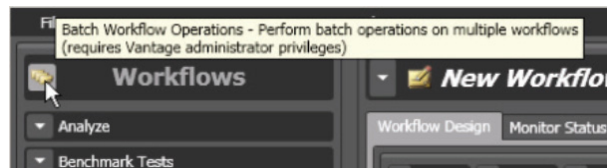
**Note:** Once an action is upgraded it can't be directly downgraded. However, you can restore workflows to their pre-upgraded state by importing the automatic backup copy that Vantage places in the C:\VantageWorkflowBackup directory (local to the Workflow Designer client). Beginning with Vantage 7.0 UP1, a log file describing the upgrades is also included in that directory.

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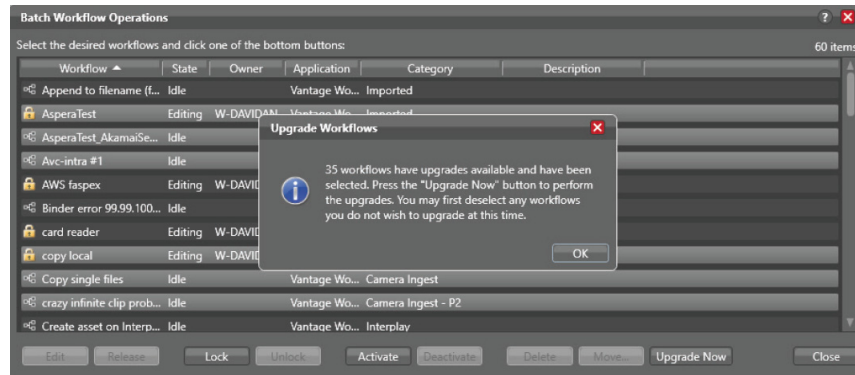
Selecting a workflow and right-clicking to bring up the contextual menu provides a selection to Upgrade the workflow.



Additionally, a group of Workflows can be upgraded by utilizing the Batch Workflow Operations in the Vantage Workflow Designer. Select the Batch Workflow Operations icon as shown in the following diagram.



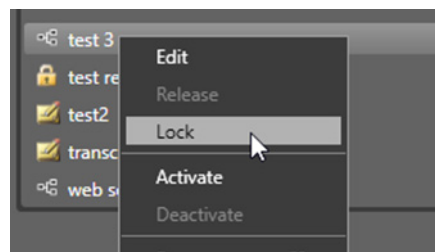
This brings up the Batch Workflow Operations dialog.



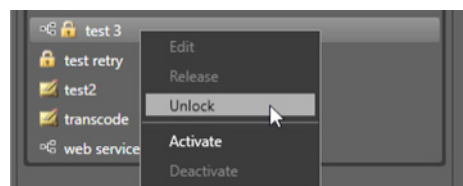
## Locking a Workflow

When a Workflow is validated and working correctly, Vantage provides the ability to "lock down" the workflow to prevent accidental changes. Additionally, this lock mechanism also prevents upgrading the ComponentPac version for the workflow as well. If a Workflow, or actions within a Workflow, is desired to be upgraded, then the Workflow must be specifically unlocked.

To lock a Workflow, right-click on the Workflow in the Vantage Workflow Designer to bring up the contextual menu and then select Lock. A "lock" icon shows up next to the locked Workflow.



Similarly, to unlock a Workflow, right-click the Workflow and select Unlock.




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**Note:** Secure Version control will not protect workflows against upgrades to the "legacy" services.

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## Frequently Asked Questions (FAQ)

**Q:** Which Vantage Services and Actions are managed by Secured Version Control's ComponentPacs?

**A:** These services are managed by Secured Version Control's ComponentPacs:

- Live Service (Capture Action)
- Timed Text Service (Timed Text Flip Action)
- Analysis Service (Analyze Action, QC Action)
- Multiscreen Service (ABR Optimize Action, Multiscreen Flip Action)
- IPTV VOD Service (IPTV Flip Action)
- Edit Service (Chronicle Action, Compose Action, Conform Action, Tempo Action)

**Q:** Which Vantage Services and Actions are **NOT** managed by Secured Version Control's ComponentPacs?

**A:** These services are **NOT** managed by Secured Version Control's ComponentPacs:

- Monitor Service (Associate Action, Camera Ingest Action, Watch Action, Workorder Action)
- Traffic Service (Catch Action, Dublist Action)
- Cloud Service (Cloud Flip Action)
- Metadata Service (Populate Action, Transform Action)
- Catalog Service (Exist Action, Register Action, Remove Action)
- Analysis Service (Action , DPP Validate Action, MedialInfo Action, Report Action)
- Edit Service (Colocate Action)
- Transform Service (Copy Action, Delete Action, Deploy Action, Move Action)
- Common Service (Compute Action, Construct Action, Decide Action, Forward Action, Receive Action, Synchronize Action)
- Staging (Archive Action, Gather Action)
- Communicate (Automate Action, Message Action, Notify Action)
- Transcode ( Flip Action)
- Analysis (Compare Action, Examine Action, Identify Action)
- All Third Party Services/Actions

**Q:** Where are the unpacked contents of ComponentPac packages stored when they are Installed?

**A:** The contents of ComponentPacs are unpacked and store into <Installed Drive>:\Program Files (x86)\Telestream\Vantage\Components\ on each server within the Vantage domain.

**Q:** What happens if the contents of the ComponentPacs cannot be unpacked and copied to one or more of the Vantage servers in the domain?

**A:** If a service is unable to unpack a ComponentPac, an entry is written to the service trace log. Service trace logs can be found within each service's Vantage folder <Installed Drive>:\Program Files (x86)\Telestream\Vantage\[Service Name].

**Q:** How are ComponentPacs uninstalled?

**A:** To uninstall a ComponentPac, follow these procedures:

- a. Export and delete all workflows containing an action that uses the ComponentPac you wish to uninstall.
- b. From the Vantage Management Console's ComponentPac Management control, select the respective ComponentPacs, and click Uninstall.
- c. Restart services associated with the uninstalled ComponentPac, and close and reopen the Vantage Workflow Designer.

If an action is configured to use a ComponentPac that is not installed, it will use the latest available installed ComponentPac.

**Q:** What happens with workflows created prior to 7.0 that include actions under Secured Version Control?

**A:** With Vantage 7.0, if a workflow was created with a version prior to Vantage 7.0, it will use the latest installed ComponentPacs until each action is upgraded. Once an action is upgraded, it is locked to the current ComponentPac.

Starting with Vantage 7.0 Update Pack 1, workflows created with a previous version of Vantage (such as Vantage 6.3) will use the earliest ComponentPac installed. When you upgrade a workflow created with an older Vantage version to Vantage 7.0 or later, the actions will be tied to the latest ComponentPacs currently installed.

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