



Release Notes

Carbon 3.12

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## Introduction

Carbon 3.12 is an upgrade to Carbon 3.11 and mainly contains changes that affect robustness and stability, as well as a few features and a large number of improvements and bug fixes. Please pay close attention to the known issues, as they may affect your particular transcoding environment or workflow.

## Carbon Software Versions

Application	Version Number
Carbon Coder	3.12.0.12960
Carbon Server	3.12.0.12960
Carbon Server Web-based User Interface	3.0.2967.42686
Carbon Agent	3.12.0.12960

## New Features - Overview

- Allow export of MPEG-1 Level II elementary audio files using the MP3 Target.
- Web-based help system with improved searching and indexing.

## Known Issues - Overview

- Transcoding jobs that require sending of the target file(s) using FTP after the transcoding is finished may not fail when the FTP delivery is attempted to an FTP server that does not exist. See nr. 6162 in the FTP section in Known Issues below for details and workarounds.

## Improvements & New Features

### *Miscellaneous*

Nr.	Description
5606	Carbon fails to handle more than 16 audio channel conversion, where the UI allows to configure it . We increase number of support audio channels in the pipeline to 48. This is internal fix.

### *Admin Application*

Nr.	Description
5854	Add a "Server Slots" field to the "Connected Agent Status" area.
5855	Highlight error cause for failed jobs. The error/total failed jobs is colored red for easy visibility.
5859	Simplify "Select Preset" screen during Watch Folder configuration. Added a new 'Select Preset' dialog/form as shown in the given attachment. While setting up 'Watch Folder', by clicking on 'Browse Preset' will invoke 'Select Preset' dialog, not the dialog where preset can be edited/modified. By mouse double-clicking on the list of presets, the preset will be selected and the dialog will be closed and selected preset will be shown in the watch folder configuration screen.
5852	Add explanatory text to empty tabs to help new users. Explanatory text that informs the user on what to do in the main windows is added and they appear only when there is no item in the list view.
5885	Add explanatory text to empty Watch Folder setup screens to help new users.
5894	Changed nomenclature: <ul style="list-style-type: none"> <li>- Main level "Notifiers" change to "Source Notifiers".</li> <li>- "Target File" changes to "Target Files"</li> <li>- Target Files level "Filters" change to "Target Filters"</li> <li>- Target Files level "Notifiers" change to "Target Notifiers"</li> <li>- Target Files level "Delivery" change to "Remote Deliveries"</li> </ul>
5114	A column for render duration is added under the completed tab and in the detailed view.
5522	Improved User Preset Handling In Preset Editor, New presets will be in the new category instead of the system category.
5957	Fixes the way that sub directory are handled in the preset editor. This will allow saving the preset in sub directory and also choosing it automatically.
3602, 5932	Show temp dongle license expiration date in Splash screens and Help>About screens.

5011	Admin cannot accept unresolved mapped drive for Watch Folder, Leading Clip, Trailing Clip, Target Folder, and Retrieval Folder. User will be prompted to either resolve the mapped drive or select another path for the specified folder. If user does neither of these two options, an error message pops up with options to resolve or make a new entry.
5012	Double clicking the watch folder in carbon admin does not activate/deactivate the watch any more.
5897, 5965	Major changes to workflow when using Carbon Admin setup screens, updates to configurations are now done automatically and checked when leaving setup screens, instead of having to click the "Update" button.

### ***Carbon Coder Application***

<b>Nr.</b>	<b>Description</b>
3602, 5932	Show temp dongle license expiration date in Splash screens and Help>About screens.

### ***Exporter - Flash***

<b>Nr.</b>	<b>Description</b>
5618	Error Converting to Flash 8 Target When Keyframe rate is set to 150 for Some Source files.
5415	Now handles some non-ASCII characters properly.
5629	UI extended to support Split by time option for Flash and H264 Exporter. However this option is not available for two pass encoding.

### ***Exporter - H.264***

<b>Nr.</b>	<b>Description</b>
4916	Added options for 24khz AAC/HE-AAC/MP3 export.
5835	Now exposing a control to set the number of slices per picture in H.264 exporter . There is new UI to set 1, 2, 4 or auto (auto is calculated based on the number of CPUs and frame size and decides the number of slices).
5354	Allow creation of audio-only files in the H.264 exporter .

5629	UI extended to support Split by time option for Flash and H264 Exporter. However this option is not available for two pass encoding.
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***Exporter – MP3***

Nr.	Description
5675	Add ability to export MPEG-1 audio layer 2 in the MP3 Exporter.

***Exporter – MXF-D10 IMX***

Nr.	Description
5797	IMX elementary stream now contains a incrementing time code starting with 00:00:00;00 .

***Exporter – Poster Frame***

Nr.	Description
5659	<p>Added a UI option to “Not Number first frame” which is disabled. If this UI is enabled we can have file naming sequence like</p> <pre> "mytest.jpg" - first image "mytest_1.jpg" - second image "mytest_2.jpg" - third image </pre> <p>Instead of</p> <pre> "mytest_0.jpg" - first image "mytest_1.jpg" - second image "mytest_2.jpg" - third image </pre>
5695	UI addition to export based on Percentage in addition to already existing modes of Time and Chapter marks. Also user can specify the maximum number of frames to export in both Time and Percentage Modes but not in Chapter Mark Mode.

***Exporter - QuickTime***

Nr.	Description
5832	QuickTime timecode output choice, UI is changed to use a drop down list instead of 3 checkboxes.
5950	<p>QT7 Destination module allows functionality and UI to Add time Code tracks with different configurations such as</p> <ul style="list-style-type: none"> <li>- Do not add time code track</li> <li>- Add time code track with same format as source</li> <li>- Add time code track and force Drop Frame time code</li> <li>- Add time code track and force Non-Drop Frame time code</li> </ul> <p>The availability of the configuration also depends on the frame rate of the target.</p>

***Exporter - XDCAM***

Nr.	Description
5862	Make XDCAM EXPORTER (MPEG LGOP) compatible with AVID . Now reopen the file and rewrite the footer partition offset in the header partition. This enables the LGOP XDCAM output files to be imported into AVID.

***Filters***

Nr.	Description
5760	Video Timecode inject filter Description adds non-dropframe format.
5857	<p>A new user filter called DVD to PC converter is used to adjust DVD audio for PC playback. The filter does the following:</p> <ul style="list-style-type: none"> <li>- Volume up low audio (-15dB to -30dB) to -10dB, and</li> <li>- Compress dynamic range to -0 dB to -20dB.</li> </ul> <p>The filter does not have automatic volume detection. If you apply the filter on a DVD which already has had loud volume, the volume gets louder.</p>
5798, 5801, 5808,	Added support for handling of captions for CC3 in addition to CC1. Deals properly with field order changes.

5810	
5988, 5597, 5923	RT: 2472 SCC Inject Problem with non zero start time code. Added support to the Closed caption inject filter for time code that does not start at 00:00:00:00. The UI now exposes two modes of operation 1) source time code and 2) stream time code. 1) is the default option.

***Importer - GXF***

Nr.	Description
5728	Different Chroma format in Source file results in distortion in converted file , added an option to handle mixed chroma format in DV for GXF wrapped files. Please check with Support if you need to enable this option.

***Importer - H.264***

Nr.	Description
5888	Added support for the import of audio-only H.264/MP4 files.
5972	Added support for import of .F4A, .M4A, and .M4V files. If those files contain at most one video track (only H.264 is supported) and at most one audio track (AAC, HE-AAC, and MP3 are supported) and no other track, the MP4 importer should import those files and convert them properly.

***Importer - MPEG***

Nr.	Description
5279	MPEG source files that have an “open” first GOP (i.e. with B frames that refer to frames earlier in the file that no longer exist) would convert to targets with almost all pixels green in the initial frames. Starting B frames with forward prediction are now detected and replaced with black frames.

***Importer - QuickTime***

Nr.	Description
4849	The QuickTime importer detects improper source files that do not contain video but contain SDSM/BIFS data instead and rejects them with an error message.

5684	The QuickTime importer detects some broken source files and rejects them with an error message.
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## Bug Fixes

### *Miscellaneous*

Nr.	Description
5563, 5648, 5934, 5935, 6008, 6027	Fixed many cases where non-ASCII European characters (for File Names for example) were not handled properly.
5608	Part of the output file name gets deleted when using a period ( '.' character).
5805	A thread handling issue when using both file stitching and deinterlacing at the same time was resolved.
5844	The deinterlacer was improved to support frame rate conversion with an upper field first source with fewer resultant artifacts.
5922	Improved image handling of XDCAM HD 29.97 interlaced file formats.
5395	Fixed: If Retry Delay = 0, then some of the failed jobs will go to the Queued list instead of the Failed list
5396	Fixed: When Retry Delay = 10, Max Node = 0, all failed jobs first go to the Failed list then go back to the Queued list
5397	Fixed: When Retry Delay = 10, Max Node = 2, some of the failed jobs are looping between queues forever.
5400	Fixed: Nexus Will Not Start Automatically On A Windows XP 64-Bit System
5671, 5672	Fixed: 25fps -> 29.97fps (non PAL -> NTSC) conversion shows repeat frames on the output Fixed: 25fps -> 25fps conversion produces blended frames output

### *Admin application*

Nr.	Description
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5840	Watch Folders become unwatched when clicking on Carbon Admin tabs. Updated the locking mechanism of the Watch folder during update such that the checkbox will not be active until the list is populated.
5853	Keep category highlighted when saving presets or filters. The newly created preset or filter is selected instead of the old one.
5868	Admin menu option "Migrate Carbon 2.x to 3.x " has been removed.
4960	Fixed: Carbon Admin Will Delete The Watch Folder After Saving It.
5165	Fixed: Email Notification cannot be sent if the body has more than 1 line
5440	Fixed: Preset Editor cannot save a preset with trailing whitespace
5876	FTP Retrieval default value for Wildcard parameter is set to 'blank', the default value has been modified to "*" .
5305	Fixed: Carbon Admin Disconnects At Random
5817	Improved: Watch Folder Handling Of NULL Strings
5834	For multi-display systems, Carbon Admin now opens on the parent window as opposed to the primary window.
5889	Fixed: email server options in Kernel Settings was not properly removed.
5896	Fixed: Preset Editor now properly deletes presets
5929	Options in Carbon Admin specifically related to Agent machines will only be selectable after selecting an Agent in the UI.
5964	Fixed: UI inconsistency which would activate an inactive watch folder if it's properties were changed.

## ***API***

<b>Nr.</b>	<b>Description</b>
5677	Carbon API job temporary under-construction file was not deleted in the event of failure during the conversion to constructed stream and ftp delivery. The fix is to delete the temporary file during failure cases also.

***Exporter - H.264***

Nr.	Description
5861	Fixed Specific Case: Converting from DV AVI to H.264 TS 2-pass CBR, audio is chopped at the beginning.
5799	Fixed: PES packet length field was not correctly set for H.264 multiplexing.
5861	Fixed an audio clipping issue when converting from DV AVI to an H.264 TS using 2-pass mode.
5919	Fixed a UI issue with folder naming conventions ending in "\".
5979	Modified CTTS writing and increased interleaving. Expected behavior is that MP4 files created playback with any player.
6229	Removed the minimum value for the Transport Stream rate.
6230	Added an audio descriptor in the MPEG-2 Transport Stream muxer for AC-3 audio.

***Exporter - MP3***

Nr.	Description
5783	Fixed a UI issue concerning saving MP3 Exporter presets.
5959	Fixed a preset issue where VBR presets when reloaded would be reset to CBR mode.

***Exporter - MPEG***

Nr.	Description
5858	Fixed a stream type error in the MPEG-2 muxer for ATSC compatibility.
5725	Reset Sequence display extension is reset to default whenever the stream format is changed. So for HDV-2 it should be checked and unchecked for anything else.
5791	Fixed an error caused by using the grid encoder at extremely low bitrates.

***Exporter - P2 (Panasonic)***

Nr.	Description
4802	Changed the default file name to %s_P2 to be consistent with other exporter.

***Exporter - Poster Frame***

Nr.	Description
6050	Fixed an error that would export JPG's when BMP was specified in the preset.

***Exporter - QuickTime***

Nr.	Description
5785	Added support for 24-bit audio.
5996	Corrected an issue that would cause popping artifacts in 24bit audio streams.

***Filters***

Nr.	Description
5499	Enhanced the UI in Carbon Admin to support the full feature set of the Relative Crop filter.
4483	Changed the timecode base of the XML Titler filter to properly support stitched sources.
4550	Enhanced the Closed Caption Inject filter to support non-zero based timecode. There is now an option in the UI to use Source Timecode or Stream Timecode.

***FTP***

Nr.	Description
5816	Fixed an issue with the FTP Retrieval system which would report an invalid file size and subsequently fail to retrieve from some FTP sites.
5881	Added a new error message for attempting to FTP to a K2 which is offline.

***Importer - AVI***

Nr.	Description
5745	Added support for the klite codec through the direct show filter.
5758	Linked the divx file extension to the AVI Importer.
5786	Fixed a problem that would report incorrect timecode if a source file was larger than 2GB.

***Importer - DV***

Nr.	Description
5846	Corrected a problem that would always report drop-frame timecode. Drop-frame and Non-drop-frame are both now properly reported.

***Importer - DVD VOB***

Nr.	Description
5780	Enhanced audio and video synchronization around chapter points in VOB sources.
5872	Carbon now produces an error what invalid timecode is found in the VOB source file. Previously the source would convert, but there would be large jumps in audio and video synchronization.

***Importer - GXF***

Nr.	Description
5707	Fixed an invalid stream error caused by setting an inpoint and no outpoint on a GXF file with DV content.

***Importer - H.264***

Nr.	Description
5634	Fixed a decoding error where certain MP4 source files decoded with a green bar on the left lines.
5811	Added support for importing files with an *.avc extension.
5948	In previous versions the frame rate was determined by looking at the video elementary stream. This has been changed to get the frame rate from the mux layer which is more reliable.
5956	Fixed an audio detection error so that AAC is not properly detected.

***Importer - MPEG***

Nr.	Description
5633	Fixed a decoding error which would produce one line of green when the source frame height was not divisible by 4.
5787	Updated frame size handling to support Windows Media 11
5795	Fixed incorrect handling of I-Frame only MPEG-2 source with 00:00:00:00 timecode.
5820	Fixed an decode issue with HDV sources which were not 3:2 pulldown.
5279	The 302M MPEG source importer module was modified to detect open B frames in MPEG 2 and replace by black frames.
5849	Improved error handling for MPEG importer which now fails when a source MPEG file does not meet specifications.
5942	Modified the HDV AVI importer to match changes with Windows Media Player 11.
6086	302M was wrongly locating unlocated audio channels. This is fixed. With this fix, audio multi filter will not do automatic down mixing.

***Importer - MXF***

Nr.	Description
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4866	Fixed: Conversion from MXF file (source) does not have correct Start Timecode after remote Clip XML file.
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### ***Importer - P2 (Panasonic)***

<b>Nr.</b>	<b>Description</b>
5023	Fixed the P2 Importer to properly map timecode across multiclip files.

### ***Importer - QuickTime***

<b>Nr.</b>	<b>Description</b>
5878	Changed QuickTime importer UI to allow the user to independently define the video aspect ratio and pixel aspect ratio.
5307	Fixed a bug that would allow the user to set an out point further out than the end of the source.
5924	Added a new error message to reflect copyrighted QT source files.

### ***Importer - XDCAM***

<b>Nr.</b>	<b>Description</b>
5910	Switched from the QT importer to the MPEG importer to load these source files to allow for proper macro block detection where source content has been clipped.
5922	Improved the deinterlacing module to support 29.97 XDCam sources.

## Known Issues

### *Admin application*

Nr.	Description
5504	Rapid successive clicking on Active Jobs status bars may cause “Unhandled Exception” errors. <b>WORKAROUND:</b> Stop doing that, or drink less coffee ...
5612	It is possible to save a preset under the System category with the same name as the existing factory-default presets. This will not overwrite the default preset, so there will be two presets with the same name. The only way to tell them apart is that only one of them can be deleted (select the preset and the “Delete Preset” button is enabled).
5813	After upgrading from earlier releases, Watch Folders may lose the setting of: <ul style="list-style-type: none"> <li>- Accept Folders as Assets</li> <li>- Retrieve Sources to Agent Machines</li> </ul> <b>WORKAROUND:</b> Note those values before upgrade and reset them manually after installation.
5817	Using Command Line Notifiers but leaving the command line string empty will result in illegal API XML code which will cause jobs to fail. <b>WORKAROUND:</b> Don't use empty Command Line Notifiers.

### *API*

Nr.	Description
5655	<Filter_Video> and <Filter_Audio> cannot be used in API XML files, <Filter_Video_0> and <Filter_Audio_0> must be used instead.

### *Background services & Watch Folders*

Nr.	Description
5300	Setting “Log File Retention” in the Logging section of the Kernel settings does not remove old log files.
5400	Nexus will not start automatically when Window XP 64-bit systems boot. <b>WORKAROUND:</b> Start Nexus manually for these systems.
5665	The Watch Folder option "Retrieve Sources to Agent Machines" does not actually retrieve the source file directly to the agent but will retrieve it directly to the server.
5678	In the Kernel Settings window of the Admin app, contrary to what the help text of the “Manage

	Job Queue” setting states, the “Retry Delay for failed jobs” setting is always effective, even if Manage Job Queue is disabled. Retry Delay just retries failed jobs, and Manage Job Queue controls how and when finished jobs are removed from the queue.
5680, 5681	If “Retrieve Sources to Agent Machines” is set then sub folders are created on the local machine instead of on an Agent machine if “Propagate Sub Folders” is enabled and the Watch Folder has sub folders placed in it.
5772	The Watch Folder > Remote Retrieve > File Retrieve option “Delete Remote Source After Retrieval” does not always delete the remote source.

### ***Carbon Coder application***

<b>Nr.</b>	<b>Description</b>
5612	It is possible to save a preset under the System category with the same name as the existing factory-default presets. This will not overwrite the default preset, so there will be two presets with the same name. The only way to tell them apart is that only one of them can be deleted (select the preset and the “Delete Preset” button is enabled).
5670	When converting from sources with a fixed frame rate to targets with a flexible frame rate, the “Pick Nearest” frame rate conversion algorithm is always chosen, whether or not Always Interpolate is selected in Transcoding Settings.
5685	In the Carbon Coder Targets tab, pressing Ctrl-E will shut down Carbon. <b>WORKAROUND:</b> Don't press Ctrl-E in the Carbon Coder Targets tab (go figure...)
5730	When loading a project containing preset GUIDs that don't (or no longer) exist on the system, an error message is shown, instead of using the base exporter that the preset was based on and populating it with the parameters from the project file.
5735	Droplets will fail if the source file is larger than 4GB.
5738	Audio filters are offered as available even for video-only targets.

### ***Exporter - GXF***

<b>Nr.</b>	<b>Description</b>
5677	FTP uploads from the GXF exporter may fail every other time when trying to upload a file that has the same name as a file that already exists on the FTP server. This is caused by temporary files not being removed if an upload failed because of file name collisions. <b>WORKAROUND:</b> Enable the “Avoid File Name Duplication” setting.

***Exporter - H.264***

Nr.	Description
5354	In the H.264 exporter, creating audio-only MPEG-2 Transport Streams with either MPEG-1 Level 2 or MP3 audio causes an error.
5866	Creating MPEG-4 files for the Play Station Portable with audio set to “Don’t Use” doesn’t create target files if Use Streaming Mode is set . <b>WORKAROUND:</b> Set audio to “Use if exists”, and use source files without audio, or don’t set Use Streaming Mode.
5873	Some players will buffer a few seconds of MPEG-2 Transport Stream files created by the H.264 exporter before starting playback.
5877	If the VBV buffer size is set too low in the H.264 exporter, the transcoding job may stall at 99% completion instead of reporting an error.

***Exporter - MPEG***

Nr.	Description
5725	In the MPEG exporter if the HDV HD-2 Stream Format is selected, “Use Sequence Display Extension” is correctly automatically enabled. However when selecting a different Stream Format such as CableLabs SD, Use Sequence Display Extension is left enabled for those formats for which is technically permissible (according to the specification), which may not be appropriate for all Stream Formats.

***Exporter – Poster Frame***

Nr.	Description
5667	If source files are used with shorter duration than the first poster frame interval (e.g. a 10s source with the interval set to 20s) a first poster frame output file is always created.

***Exporter – QuickTime***

Nr.	Description
5129	Using the QuickTime Plugins exporter and choosing the “QuickTime MPEG-4 Exporter” doesn’t allow the creation of files over 4GB in size. This is a limitation of QuickTime and QuickTime Pro, not of the transcoder.
5263	When using the QuickTime Plugins exporter and overwriting existing target filenames, the name

	may be shortened to MSDOS-style 8.3 names (e.g. "Transc~1.3gp").
5608	QuickTime target filenames with periods ('.') in them may have part of the output filename truncated.
5666	QuickTime 7 targets with flexible frame rates set will cause problems with the Timecode Display Filter.
5696	In some cases QuickTime targets may be created with extra audio samples.
5732	Problems with QuickTime cause Apple TV output created with the QuickTime Plugins exporter to be deleted after conversion.

### ***Filters***

<b>Nr.</b>	<b>Description</b>
5812	Down-converting 5.1 audio decoded by user-installed AC3-decoders to stereo causes problems with the output levels being too low. Using the Parametric 5.1 to Stereo filter followed by the Normalization filter set to "Normalize Peak" will apply the accumulated effects to each channel instead of considering all channels in the stream. For mixes with some very loud sounds on one channel, those channels may be over-attenuated.

### ***FTP***

<b>Nr.</b>	<b>Description</b>
5703	Grass Valley K2 servers may have problems with simultaneous uploads by more than one transcoder, causing the "FTP connection with the server was reset" error to appear. <b>WORKAROUND:</b> Designate a single transcoder for uploads to the K2.
5814	No more than 2 simultaneous FTP connections will be used, even if the maximum number of FTP session is set higher.
5816	Setting the "Minimum File Size" parameter for FTP retrievals to any value but zero will initially retrieve and transcode files correctly but can generate additional retrieval jobs which will fail with "Retrieve Item Failed" errors. <b>WORKAROUND:</b> Leave Minimum File Size set to zero, or enable "Delete Source Upon Completion".

***General Transcoding***

Nr.	Description
5671	Some combinations of one source and multiple targets involving at least one frame rate conversion cause extra intermediate frame rate conversions (for example from 25 to 15 to 29.97fps) with a resultant loss of quality. <b>NOTE:</b> This does not affect standards conversions, i.e. NTSC to PAL and vice versa, since those use a completely different algorithm.
5679	When converting from sources with a fixed frame rate to targets with a flexible frame rate, the “Pick Nearest” frame rate conversion algorithm may not always pick the nearest frame; this does not affect output quality however.
5691	Converting from 59.94p sources to 29.97p targets can produce blended output frames.
5810	Changing field order between source and target (e.g. DV to top-field-first MPEG) does not move caption data from the CC1 to the CC3 field.

***Importer – GXF***

Nr.	Description
5621	Some GXF sources report a longer duration than the actual number of frames they contain, this can cause longer than expected target files when converting from these kinds of sources.
5707	Some “Under Construction” GXF clips with non-zero mark out and last fields beyond the mark out will cause an error.
5728	GXF sources with different chroma formats in different parts of the same clip (e.g. first part of the clip is 4:1:1 and second part is 4:2:0) will not be converted correctly.

***Importer – H.264***

Nr.	Description
5811	Some Blu-ray AVC sources cannot be imported, showing the error “Failed to parse the Stream – Stream seems invalid”.

***Importer – QuickTime***

Nr.	Description
5684	Some QuickTime 7 MPEG-4 source files generate errors in QuickTime and cause the transcoder to stall.

***Importer – VC-1***

Nr.	Description
5673	Some VC-1 sources with multi-channel audio cannot be imported.

***Importer – Windows Media***

Nr.	Description
5654	Some Windows Media sources will not preview or scrub properly.

***Installer***

Nr.	Description
5726, 5815	Canceling un-installation can show an “Exception” error message (5726) and/or leave the Nexus background service unregistered (5815). <b>WORKAROUND:</b> Don't cancel un-installations, or re-install.

***Server application***

Nr.	Description
5327	If a Watch Folder has “Delete Local Target After Delivery” set, only jobs executed on the Server machine itself will delete the target, jobs executed on Agent machines will not delete the target.
5335	Server will not detect any Agents if the Windows Firewall is enabled. <b>WORKAROUND:</b> Disable the Windows Firewall on Server and Agent systems.
5572	When some Agents in a transcoding farm are disabled, Nexus thinks there are some retries remaining and doesn't mark the job as “Failed”. <b>WORKAROUND:</b> Set Max Node Errors in the Kernel Settings to a number smaller than the number of enabled Agents.