

Carbon 3.18 Release Notes

New Features, Known Issues and Bug Fixes

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Introduction

Carbon 3.18 is an upgrade to Carbon 3.17 and earlier that contains new features and bug fixes, each described in their respective sections in this document.

- The most important new feature for this release is an exporter for Microsoft Smooth Streaming with H.264, a streaming format that has become very popular. Carbon already supported Smooth Streaming with VC-1, and now H.264 has been added.
- Also new is multi bitrate audio for HTTP Live Streaming, allowing differentiation in bitrate for instance between audio-only streams and streams containing both video and audio.
- Version 3.18 implements a new framework in the H.264 encoder software to enable video quality improvements in the future.
- Also, the Omneon Exporter v2 has been expanded with new formats; XDCAM HD and XDCAM EX (all wrappers, including RDD9 for XDCAM HD), and AVC-Intra wrapped in QuickTime. The Omneon Exporter has also been updated to use the latest Spectrum SDK, version 6.2.
- Transport Streams generated with the MPEG2 Exporter v2 can now carry SMPTE 291M Ancillary Data (ANC data) in SMPTE 2038 PES streams.
- The restriction that limits the use of the Dolby Digital (AC-3) and Dolby Digital Plus (E-AC-3) decoders to file verification has been removed.
- Finally, version 3.18 has improved performance for decoding of JPEG 2000, and for encoding of AVC-Intra when using the Omneon Exporter v2.

New to these Release Notes is a section that describes considerations to be made before upgrading to version 3.18. Please pay close attention to this section as an upgrade to 3.18 may impact your particular transcoding environment. The same goes for the section describing the known issues.

Software Versions

Application	Build Number
Carbon coder	3.18.00.29222
Carbon Server	3.18.00.29222
Carbon Agent	3.18.00.29222

Carbon 3.18 is compatible with Rhonet Workflow System (WFS) versions 1.3.2 and later.

System Specifications and Requirements

System Requirements

- Microsoft Windows 32- or 64-bit operating system from the following list (64-bit Windows operating system recommended for multi-layer video exporters) (Windows Server 2008 R2 64-bit recommended for Carbon Server).
 - Workstation OS versions:
 - Windows XP SP3
 - Windows Vista SP2
 - Windows 7
 - Server OS versions:
 - Windows Server 2003 R2 SP1 or R2 SP2
 - Windows Server 2008 SP2
 - Windows Server 2008 R2
- Please note that the old Carbon Server Web Interface does not work on any Windows Server 2008 or Windows 7 systems. The Web Interface has been deprecated and is no longer being updated.
- QuickTime v7.6.8 is the newest version of QuickTime that has been tested to work correctly with Carbon. Other versions may or may not work correctly with Carbon.
- USB 1.1 or 2.0 port for USB Hardware Key
- 500 MB free hard disk space

Minimum System

- Intel Pentium 4 or AMD Athlon
- 2 GHz CPU or faster
- 2 GB RAM (4GB RAM for HD encoding)
- Windows XP SP3

Recommended System

- Dual Intel Xeon E54xx series processors

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- 3.0 – 3.4 GHz processor clock
- 8 or 16GB RAM
- Windows Server 2008 SP2 64-bit
- Omneon MediaGrid or other high performance storage system

New Features – Overview

Microsoft Smooth Streaming with H.264

Carbon 3.18 adds an exporter for creation of multi-bitrate streaming files for Microsoft Smooth Streaming with H.264. Use of H.264 for streaming to Microsoft Silverlight players has become increasingly popular and Carbon Coder 3.18 adds the H.264 Smooth Streaming Exporter to the Smooth Streaming Exporter for VC-1, which was already available. The audio codec used with the H.264 Smooth Streaming Exporter is AAC.

The name of the new Exporter in the Carbon User Interface is “Smooth Streaming Exporter – H.264”. To avoid confusion, the VC-1 based Exporter has been renamed “Smooth Streaming Exporter – VC-1”.

The maximum number of video layers is 16, and so is the maximum number of audio streams. Video frame size and bitrate for each layer can be generated automatically, or set manually by the user. Automatic generation is a good starting point.

Target Parameters	
Destination	
Base Name	%s_SS
Path	C:\
Use source filename if required	<input checked="" type="checkbox"/> Use source filename if required
File Name	C:\(Source)_SS
General	
Publish Mode	Video On Demand (VOD)
Stream Name	
Server Manifest Name	
Client Manifest Name	
H.264	
Profile	Baseline
Frame Rate (Fps)	30.000
Key Frame Interval (Seconds)	2.000
Automatically Generate Layer Frame Sizes and Bitrates	<input checked="" type="checkbox"/> Automatically Generate Layer Frame Sizes and Bitrates
Maximum Frame Width	1280
Maximum Frame Height	720
Minimum Frame Width	224
Minimum Frame Height	128
Max Bitrate (kbps)	3000
Min Bitrate (kbps)	230
Number of Layers	6
Audio	
Audio Sample Rate (kHz)	44.1 khz
Number Of Audio Streams	2 streams
Audio Stream 1	
Language	
Channels	Stereo
BitRate (kbps)	128 kbps
Audio Stream 2	
Language	
Channels	Stereo
BitRate (kbps)	128 kbps

Multi Bitrate Audio for HTTP Live Streaming

Carbon 3.18 allows the user to set the audio bitrate in HTTP Live Streaming per individual stream. In previous versions of Carbon this was not possible – the bitrate was the same for all streams. With the support of multi bitrate audio you can now assign different bitrates to different streams, allowing for configurations that use low bitrates for audio only streams.

Target Parameters	
Destination	
Base Name	%s_LiveHttp
Path	C:\
Use source filename if required	<input checked="" type="checkbox"/> Use source filename if required
File Name	C:\(Source)_LiveHttp(m3u8)
General	
Session Type	VOD (Video on Demand)
Number of Alternate Streams	2
Layer Directory Structure	<input checked="" type="checkbox"/> Layer Directory Structure
Asset Directory Structure	<input checked="" type="checkbox"/> Asset Directory Structure
Common Stream Configuration	
Segment Size (seconds)	10
Aspect Ratio	Square Pixels
Frame Mode	Progressive
Chroma Format	4:2:0
Video Codec	H.264
Profile	Baseline
Level	3.0
Video Bitrate Mode	VBR
Number of Passes	1 Pass
Mod-16 Compliant	<input type="checkbox"/> Mod-16 Compliant
Audio Stream Type	AAC
Audio channels	Stereo
Audio Sample size	16 bits
Sample Rate (kHz)	44.1 kHz
CRC Check	<input type="checkbox"/> CRC Check
Automatically Generate Bitrate and Frame Size for Each Layer	<input type="checkbox"/> Automatically Generate Bitrate and Frame Size for Each Layer
Stream 1	
Stream Type	Audio and Video
Video Bitrate (kbps)	8000
Maximum frame width	640
Maximum frame height	480
Frame Rate (Fps)	30.000
Audio Bitrate(kbps)	160 kbps
Stream 2	
Stream Type	Audio Only
Audio Bitrate(kbps)	112 kbps

Framework for Improving H.264 Video Quality

A framework has been put in place inside the H.264 encoder to allow for future optimizations to the video quality. There is no impact on the use (GUI, API) or performance of the H.264 encoder.

Omneon Exporter v2

The Omneon Exporter v2 has expanded format support and now includes XDCAM HD and XDCAM EX. Both can be wrapped in QuickTime 6 and 7, and MXF OP1a and OP1b, and for XDCAM HD there is also the RDD9 compliant OP1a wrapper. Wrapping of AVC-Intra Class 50 and 100 in QuickTime has been added too.

The Exporter has been updated and now uses Spectrum SDK version 6.2, the most recent at the time of this release.

The screenshot shows the 'Target Parameters' dialog box for the Omneon Exporter v2. It is divided into several sections: Destination, Video-Basic, and Compression Parameter. The 'Destination' section includes fields for Base Name (%s_OMN), Path (C:\), and File Name (C:\(Source)_OMN.mxf). The 'Video-Basic' section includes Video Encoding (MPEG-2 XDCAM-HD), File Type (MXF XDCAM/RDD9 (OP1A XDCAM HD)), Video Format (MXF OP1A or OP1B), Frame Mode (MXF XDCAM/RDD9 (OP1A XDCAM HD)), Aspect Ratio (16:9), and Chroma Subsampling type (4:2:2 (MPEG, IMX, AVC-I 100, DVCPRO 50/100)). The 'Compression Parameter' section includes Video Bitrate (50 Mbps) and Quality/Speed (Highest Quality).

Support for SMPTE 2038

Carbon 3.18 implements SMPTE 2038 for carriage of SMPTE 291M Ancillary Data (ANC data) within Transport Streams that use MPEG-2 video. The ANC packets are carried inside Transport Stream PES packets and Carbon Coder allows the user to set the PID of the PES stream. Inclusion of SMPTE 2038 PES streams is controlled by a check box – see the screen capture of the MPEG2 Exporter v2 below.

Frame rate conversion is not supported with this feature, and if the box is checked then a PES stream will always be included, even if there is no SMPTE 291M ANC data in the source file.

The screenshot shows the 'Options' dialog box for the MPEG2 Exporter v2. It contains a list of checkboxes for various options. The 'Include SMPTE 2038' checkbox is highlighted with a blue circle and is currently unchecked. Other options include 'Include Teletext in Transport Stream', 'ETV/BIF Passthrough', 'Multiple Audio AUs per PES packet', 'Uniform Packet Distribution', 'Use STD Descriptor', 'Use Data Stream Alignment Descriptor', 'Use Target Background Grid Descriptor', and 'Use Video Window Descriptor'.

Dolby Digital and Dolby Digital Plus Decoding

Until now, use of the Dolby Digital (AC-3) and Dolby Digital Plus (E-AC-3) decoders in Carbon was restricted to verification of audio content encoded in these formats. This restriction has been removed and these decoders can now be used for production purposes.

Improved Performance

Carbon 3.18 has improved performance for JPEG 2000 decoding, and for AVC-Intra encoding with the Omneon Exporter v2. The performance gains were achieved by implementing multi-threading for both processes; in 3.17 both were single threaded. Initial tests show that real time speed can be achieved with an 8-core machine, though this was not a hard requirement. (Decoding and encoding tested separately, not simultaneously.)

Upgrade Considerations

Before upgrading to version 3.18, some considerations need to be made.

HTTP Live Streaming

The implementation in 3.18 of multi bitrate audio for HTTP Live Streaming is coupled with an improvement to the User Interface that combined all common configuration settings together in a single group. In 3.17 these common settings were spread out over multiple groups. Due to this change, existing HTTP Live Streaming presets are no longer compatible with Carbon 3.18 and need to be recreated. This also holds for presets used in API commands.

Omneon Exporter v2

The Omneon Exporter v2 in Carbon 3.18 has been updated to use the Spectrum SDK version 6.2. As a result, the clips generated with this Exporter will be Spectrum 6.2 compliant, meaning they will play out correctly on a Spectrum version 6.2 system. Users of Spectrum systems that run lower firmware versions are advised to upgrade to version 6.2.

If the Spectrum version is 6.1 then user should verify that their clips still play correctly as this is not guaranteed. Note that the Legacy Omneon Exporter is still available, creating clips compliant with version 6.1.

It is not a requirement for Spectrum version 6.2 clips to play out correctly on Spectrums running versions lower than 6.1.

Known Issues – Overview

This section lists known limitations of Carbon as well some other issues potentially perceived as Carbon limitations.

- CarbonAdmin window does not resize properly (B-5890, T-13624)
WORKAROUND: Must close the CarbonAdmin application and reopen it.
- A letter preceding the wildcard in FTP retrieval does not work (B-8375).
WORKAROUND: Must type the uri path preceding the wildcard.
- Unicode characters used in the stream name field will generate a segment size error (B-8642)
WORKAROUND: There is no workaround for this issue due to its intermittent appearance
- Preset's Major Version should be updated due to new added parameters (B-8562)
WORKAROUND: Please be aware that loading projects with older presets may produce different results
- Using a Leading/Trailing clip that differs from the aspect ratio of the video being encoded will generate black bars (B-7015, T-07420)
WORKAROUND: There is no workaround for this issue.
- Encoding from ProRes source to MPEG4 (H.264) with channel mixer audio filter will create audio sync issue (B-8241, T-13045)
WORKAROUND: This is related to the QuickTime player
- Project fails with "Terminated: No Progress Timeout" (B-8296, T-13432)
WORKAROUND: Increase the timeout values from the default settings
- Transcode stalls on some GXF files (B-8392, T-13262)
WORKAROUND: There is no workaround for this issue.
- Injected TeleText does not show up in the encoded file (B-8493, T-15430)
WORKAROUND: Ensure that the source file has valid time code and that the "Ignore Source Video Timecode" check box is disabled.
- Repeat frames observed in the WindowsMedia video output (B-8503)
WORKAROUND: This is a normal Windows Media CODEC behavior
- Caption inject from SCC has garbled characters (B-8515, T-15397)
WORKAROUND: This is an invalid issue. The captions show properly in a Sencore Analyzer.
- Can not generate PCM audio file larger than 4GB (B-8653, T-09227)
WORKAROUND: This is an invalid issue. PCM WAV files have a file size limit of 4GB.

- Transcoding job returns "Unable to Allocate Memory" at the end of the conversion on some Windows Media source files (B-8658, T-08857)
WORKAROUND: There is no workaround for this issue.
- Carbon decodes and scales the source in the XML, even though it is not being used (B-8411)
WORKAROUND: This is an invalid issue. Unused source files should be removed from the API.
- For some MPEG2 to MPEG2 conversions, output file has a shorter duration than the original source (B-8536, T-14883)
WORKAROUND: There is no workaround for this issue.
- Converting from 8-bits 5.1 or 8-bits 7.1 audio source will produce audio noise in the output file (B-8564)
WORKAROUND: There is no workaround for this issue.
- Network license has a higher priority than local license (B-8604)
WORKAROUND: There is no workaround for this issue.
- Stitching two GXF source files to GXF target results in unknown error message. (B-8625, T-07816)
WORKAROUND: There is no workaround for this issue.
- Carbon installer generates an error: "Set environment variable KMP_DUPLICATE_LIB_OK=TRUE if you want your program to continue in this case." (B-8651, T-09143)
WORKAROUND: There are conflicting versions of the Intel IPP library. Must remove the other conflicting versions.
- Incompatible DirectShow CODEC will crash Nexus when it starts. (B-8654)
WORKAROUND: The offending DirectShow CODEC must be uninstalled.
- Some MPEG4 files using the .mov extension does not encode but renaming them to .MP4 works (B-8655)
WORKAROUND: There is no workaround for this issue.
- Some output files will be appended if they already exist instead of issuing error messages (B-8659)
WORKAROUND: Ensure that the target file does not exist.
- Duration are not reported properly on some files (B-8661, T-08632)
WORKAROUND: There is no workaround for this issue.
- .NET Framework 2.0 is not installed on some 64-Bit systems (B-8663)
WORKAROUND: Need to manually download and install the .NET Framework 2.0 from Microsoft

- CarbonCoder is unstable when running in 32 core machines (B-8664, T-09693)
WORKAROUND: There is no workaround for this issue.
- MPEG4 file transcodes to targets with jitter in fast motion sections of the video (B-8669, T-08354)
WORKAROUND: There is no workaround for this issue.
- Compliancy issues detected while encrypting output files with DRM tool (B-8670, T-08872)
WORKAROUND: There is no workaround for this issue.
- Transport Stream files without Frame Rate information are not imported (B-8673)
WORKAROUND: There is no workaround for this issue.
- Expression Encoder is not showing proper aspect ratio for the video stream (B-8674)
WORKAROUND: There is no workaround for this issue.

Bug Fixes and Improvements

Miscellaneous

Nr.	Description
B-8488	CarbonServer should not be allowed to queue jobs to WFS
B-8497 T-14920	Green lines are observed on conversion that involves scaling
B-8543 T-16035	Some files are not installed in the proper directory
B-8563 B-8566	Incorrect mapping of audio channels
B-8650	Unknown error when adding some exporters after CarbonCoder has been open for a while
B-8633	HEAP[carboncoder.exe]: Invalid Address specified to RtlSizeHeap(04C80000, 002B8DA8) when starting Carbon Coder

Audio Filter - Dolby-E Encoder

Nr.	Description
B-8626 B-8627	Job fails to start when 2 filters are added concurrently

API

Nr.	Description
B-8363	The Project Will Fail When The TextJustify And UseOutlineFont Elements Are Missing
B-8418 T-14858	ISO639 descriptor for audio is not inserted for "AUDIO_AC3_SYSTEM_B"
B-8499	Stalling is detected when multiple TS Mux jobs using UniformPacketDistribution
B-8525 T-15210	JobDataXML element is empty
B-8567	Missing TextJustify Element Will Cause The TSMUX API To Fail
B-8571	Basic complex source case not working with default mpeg exporter
B-8606 T-07263	Using In/Out points longer than 4 minutes causes the Complex Source job to stall

Exporter - AVI

Nr.	Description
B-8426 T-15127	Cannot set 1920x1080 using the Matrox Mpeg2-i-frame HD CODEC

Exporter - Avid MXF

Nr.	Description
B-8584	FTP and UNC delivery fails in a watch folder

Exporter - Flash

Nr.	Description
B-8427 T-14917	Audio sync issue detected on long conversions
B-8534 T-15924	Job fails with "Process terminated for unknown reason!"
B-8628 T-08472	Transcoding will stall on some source files

Exporter - H.264

Nr.	Description
B-8516	mc_enc_avc.dll is not released after stopping a 2-Pass VBR conversion
B-8529	Unhandled Exception error when "Use Streaming Mode" is checked
B-8531	Unknown Error when exporting to 2-pass CBR
B-8538	Unknown error when exporting to Audio-Only
B-8547 T-16079	BATON QC software reports errors with Carbon generated H.264 HD files.
B8605 T-07700	Audio drops when transcoding some source files
B-8613	SMPTE 2038 PID field should be hidden when "Include SMPTE 2038" is unchecked

Exporter - Http Live Streaming

Nr.	Description
B-7807 T-12038	Not all files are delivered to remote folders or FTP locations
B-8308 T-13084	Non-Common Denominator Multi-Frame-Rate Target Causes Stalling
B-8542 T-15436	Video is inserted on Audio-Only transcodes
B-8560	Setting Segment size of 2 seconds will create output files of less than 2 seconds
B-8585	Second chance access violation occurs during encoding
B-8607 T-08028	Encoding a long source will cause audio / video synch issues
B-8611	No audio range restrictions are available in the exporter
B-8612	Change output file name to <Basename>_Layer#_<AudioBitrate> for audio only

B-8632	Error occurs when frame rate is lower than 3.870fps
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Exporter - MPEG-2 v1

Nr.	Description
B-8413 T-13417	SCTE-20 captions are not being displayed in a DCT-2K
B-8539	Stalling occurs when exporting from some MXF files
B-8588	EIA-608 captions are lost when converting from 59.94 FPS source to 59.94 FPS target
B-8589	EIA-608 captions are out-of-sync when converting from 59.94 FPS source to 59.94 FPS target
B-8644	Different CC count for Field2 occurs on some MXF to MPEG2 v1 exports
B-8645	Output duration of the PCM audio from MPEG2 Elementary stream is shorter than expected

Exporter - MPEG-2 v2

Nr.	Description
B-8551 T-16189	Exporter does not allow the change of extension to user defined extension

Exporter - MXF

Nr.	Description
B-8640 T-07857	Transcode fails with unknown error occurred

Exporter - Omneon v2

Nr.	Description
B-8468	Conversion fails on DV/DVCPRO25 NTSC and DVCPRO25 PAL
B-8526 T-15657	Incorrect timecode causes the output file not to play in the Spectrum Server
B-8548 T-15657	Omneon MXF files does not have the index start position.
B-8660	Fails to create AVC-Intra reference files
B-8665	Portion of MPEG2 Long GOP file are inserted from other encoding jobs

Exporter – QuickTime4

Nr.	Description
B-6385 T-4847	QuickTime 7 H.264 target has green diagonal lines on playback

Exporter – Smooth Streaming – H.264

Nr.	Description
B-8608	Using Max Bitrate above 47.5Mb/s will cause the conversion not to create an ISMC file
B-8614	Video will start playing back after the first GOP
B-8618	Name element inside the StreamIndex for the audio track does not describe the language used
B-8619	Access violation occurs when two exporters are used concurrently
B-8620	Server manifest file is not created when Unicode characters are used
B-8621	Unknown Error When Using 1 Frame Per Second Frame Rate
B-8624	Using same language descriptor and same bitrate for multiple audio streams will only create one ISMA file
B-8629	Inconsistent behavior observed with automatic generate frame size and bitrates settings

Exporter – Smooth Streaming – VC1

Nr.	Description
B-8381 T-14597	Fixed size intervals are not being generated
B-8416 T-14980	.ismv files have incorrect frame size information
B-8453	Manifest files were not encoded as UTF-8
B-8555 T-16015	Carbon generated files can't be imported by MS Expression Encoder

Exporter – VC1

Nr.	Description
B-8504	Some conversion will generate repeated frames

Exporter – Windows Media

Nr.	Description
B-8455 T-10874	Transcoding will stall on some MPEG source files

Video Filter –Caption Inject From .SCC File

Nr.	Description
B-8514 T-15397	CC3 captions are overwritten with CC1 captions

Video Filter – Teletext Inject from STL file

Nr.	Description
B-8649	Allow to configure VBI lines for the second field independent of the first field
B-8656	Projects with "Second field is identical to first" unchecked is restored incorrectly

Importer – GXF

Nr.	Description
B-8553	Source files without 708CC data will stall during conversion
B-8598 T-15947	Decoding fails when source files has multiple audio streams

Importer – H.264

Nr.	Description
B-7824 B-8456 B-8596 T-11441 T-16215 T-16376	Some H.264 streams Frame Rate are incorrectly decoded

Importer – MP4

Nr.	Description
B-8393	File is not imported when Audio Sample Rate is not the same as the time scale value of the track
B-8561 T-16278	Unable to transcode MP4 files created by the Sony PWM-350 camera
B-8600 T-16376	Output file is accelerated after encoding
B-8635	Second chance exception occurs when loading the video-only MP4 source

Importer - MPEG

Nr.	Description
B-8339	Memory leak detected on conversion of some MPEG Transport Stream files
B-8410 T-14883	Transcode finishes before end of the file.
B-8436 T-15236	Audio stream is not detected for some MPEG sources
B-8507	Some captions are not displayed long enough

Importer - MXF

Nr.	Description
B-8405 T-14642	29.97 fps DNXHD MXF files created by AVID Media Composer and Nitris cannot be imported
B-8544 T-16050	Some MXF DNxHD files cannot be imported
B-8545	Access violation occurs when converting some J2K source with In/Out points
B-8546	Unhandled exception occurs when video filter is applied to some J2K sources
B-8603 T-07696	Transcoding stalls on some MXF sources

Importer - Omneon

Nr.	Description
B-8639	QuickTime 7 importer is used for importing Omneon source files

Importer - QuickTime

Nr.	Description
B-8170 T-13082	Transcoded file doesn't have audio
B-8602 T-07458	IMX .mov file cannot be decoded

Importer - Windows Media

Nr.	Description
B-8303 T-14179	Carbon hangs when transcoding WMV source to QuickTime