Avid NEXIS | EDGE

Version 2023.7 ReadMe

This ReadMe describes the New Features, Fixes and Known limitations of the Avid NEXIS| EDGE product. It also includes information on how to download the software.

For information on how to install, configure and use the Avid NEXIS | EDGE software, see the *Avid NEXIS | EDGE Installation Guide.* Once it is installed and configured, see the *Avid NEXIS | EDGE User's Guide.*

Important: See the following link on the Avid Knowledge Base for the latest updates to this guide and all related documentation:

https://avid.secure.force.com/pkb/articles/en_US/Compatibility/Avid-NEXIS-EDGE-Documentationt

Revision History

Date Revised	Changes Made
July 27, 2023	Initial Release

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Looking for the latest information on Avid NEXIS EDGE, what's the latest update, have a tip to share or need assistance? We have created a place just for you. The Avid NEXIS EDGE Facebook group is for all users of Avid NEXIS EDGE. This group is for peer-to-peer discussions of Avid products from: How To's to installing and upgrades, getting started, and troubleshooting to what gear to buy. See the following link to get started and get connected with Avid and fellow users in post production organizations as they share their insight to what works best for them. https://www.facebook.com/groups/avidnexisedge/

Updated Security Guidelines

Avid NEXIS EDGE v2023.7 and later allows you to install an endpoint detection and response solution on your Avid NEXIS EDGE system. This applies to both single-server and cluster environments. While Avid does not support any specific solution, you can find general guidelines and information related to CrowdStrike Falcon on the following Avid Knowledge Base page:

http://avid.force.com/pkb/articles/en_US/troubleshooting/en239659

Security Updates

Avid NEXIS EDGE is supported on a community-driven operating system called CentOS (Community Enterprise Operating System) — derived from the sources of Red Hat Enterprise Linux (RHEL). The operating system is supplied by Avid as part of the Avid NEXIS EDGE installation media. This distribution of CentOS also includes operating system security updates that have been qualified by Avid.

⚠ Avid does not support installing any operating system updates or patches on the Avid NEXIS EDGE server. Do not install OS updates unless you are specifically directed to do so by Avid.

Security and Firewalls on Client Workstations

While Avid encourages organizations to protect and secure the client workstations that connect to Avid NEXIS EDGE, system administrators must allow communication between the clients and the Avid NEXIS EDGE servers over network ports 443 and 5000. If you are using a local anti-virus, firewall, or other security solution on your clients, you must ensure that these ports remain open between the systems. Failure to do so could block media playback or cause other aspects of the workflow to fail.

For more information on network ports and communication, see the topic "Port Usage for Avid NEXIS EDGE" in the *Avid NEXIS | EDGE Installation Guide*, or in the *Avid Port Usage Guide* on the Avid Knowledge Base.

Downloading and Installing Avid NEXIS EDGE Software

Avid NEXIS EDGE is delivered as a Hyper-V virtual disk image that includes the CentOS operating system and the Avid NEXIS EDGE software.

The software can be downloaded from the Avid Download Center. If you have not already created an Avid.com user account, you must do so now. This Master Account enables you to sync your Avid Video Download and Avid Video Community accounts as well as gain access to the Avid Support Center.

For previous users of MediaCentral | Editorial Management, you must uninstall it before you can install a clean version of the Avid NEXIS EDGE software.

Installation and configuration instructions, as well as hardware and software requirements, can be found in the topic Hardware Requirements and Software Requirements.

📄 *All media created with beta software should be deleted.*

Certificate Requirements for Google Chrome

When you connect to Avid NEXIS EDGE, your web browser might display a security warning that indicates that the connection cannot be validated. These warnings can be eliminated through the use of a trusted Secure Sockets Layer (SSL) certificate.

You can generate a self-signed certificate directly on the Avid NEXIS EDGE server, or you can obtain a certificate from an internal/private or external/public Certificate Authority (CA) group. Public certificates have the advantage in that they are trusted automatically by today's most common web browsers. No warnings appear when a connection is made to a secure web page, nor do you need to manually add the certificate to the local workstation's Trusted Root Certification Authorities store (since the CA's root certificate is already there).

With the introduction of Google Chrome v80, you must install a valid signed certificate to access the user interface for all versions of Avid NEXIS EDGE. Without a valid certificate, users are met with a security warning when accessing the Avid NEXIS EDGE sign-in page. Any attempt to bypass this security warning without a valid signed certificate is unsupported and could result in negative impacts to the user experience.

For more information on creating signed certificates, see the "Creating Certificate Files" section of the *Avid NEXIS | EDGE Installation Guide*. For more information on Google Chrome, see https://support.google.com/chrome/a/answer/7679408.

Media Formats Supported for Playback

Avid supports a variety of media and container formats for playback. As long as your media is in a supported media format and is wrapped in a supported container format, you should be able to play that media through Avid NEXIS EDGE.

For example, if you have DNxHD 1080 145 media that is wrapped in a MOV container, that media can be played back through Avid NEXIS EDGE because both the media format and the container format are supported.

Container Formats

The following tables list the container types that Avid has verified for playback through the Avid NEXIS EDGE player in a web browser. For more information on playback formats supported in Media Composer, see the Avid Media Composer documentation.

Audio and video container formats:

AVI	MP4	MTS
MOV	MPEG	MXF
MP3	MPG	WAV

Image container formats:

BMP	JPEG	PNG	TGA

It is possible that additional container formats might also play back, but these formats have not been specifically tested by Avid.

Media Formats

The following tables list which media formats are supported for playback through Avid NEXIS EDGE. Also note the following:

For 23.98 SD (NTSC), the timecode reference will be shown on 24 frame instead of 30.

Audio Media Formats (codec)		
AAC	MPEG-2	PCM

DNxHD Format Support	
Media Format	**Support for Playback**
DNxHD 1080 36-45	All frame rates
DNxHD 1080 80-85-100	All frame rates
DNxHD 1080 115-120-145	All frame rates
DNxHD 1080 175-185-220	All frame rates
DNxHD 1080 175X-185X-220X	All frame rates
DNxHD 720p 40	Not Supported
DNxHD 720p 45-50	25, 29.97

DNxHD Format Support

Media Format	Support for Playback
DNxHD 720p 60-75	25, 29.97
DNxHD 720p 90-110	25, 29.97
DNxHD 720p 90X-110X	25, 29.97
DNXHD 720p 85-100	50, 59.94
DNXHD 720p 120-145	50, 59.94
DNXHD 720p 185-220	50, 59.94
DNXHD 720p 185X-220X	50, 59.94
DNxHD 1080p 75-90	50, 59.94
DNxHD 1080p 165-200	50, 59.94
DNxHD 1080p 240-290	50, 59.94
DNxHD 1080p 365-440	50, 59.94
DNxHD 1080p 365X-440X	50, 59.94

Other Format Support

Media Format	Support for Playback
Apple ProRes	Unsupported in the Avid NEXIS	EDGE Asset Editor web browser (e.g., Chrome). Supported when viewing media in the Avid NEXIS	EDGE Panel within Media Composer. Although supported, Avid does not recommend using this media format without having associated proxy media available. Full resolution frame rate not guaranteed. Frame rate might temporarily be reduced during playback.
AVC-Intra 50, 1080i	All frame rates
AVC-Intra 50, 720p	50, 59.94
AVC-Intra 100, 1080i	All frame rates
AVC-Intra 100, 720p	50, 59.94
AVC Long GOP 12, 720p	50, 59.94
AVC Long GOP 12, 1080i	50, 59.94
AVC Long GOP 25, 720p	50, 59.94
AVC Long GOP 25, 1080i	50, 59.94
AVC Long GOP 50, 720p	50, 59.94
AVC Long GOP 50, 1080i	50, 59.94
AVC Long GOP 12, 1080p	25, 29.97

Other Format Support

Media Format	Support for Playback
AVC Long GOP 25, 1080p	25, 29.97
AVC Long GOP 50, 1080p	25, 29.97
XAVC Intra 50, 1080i	50, 60, 23.98
XAVC-Intra 100, 1080i	50, 60, 23.98
XAVC Long GOP 25, 1080i*	50, 59.94
XAVC Long GOP 35, 1080i*	50, 59.94
XAVC Long GOP 50, 1080i*	50, 59.94
XAVC Long GOP 50, 720p*	50, 59.94
Avid JFIF 2:1, 3:1, 10:1, 20:1	25, 29.97
DV 25 411	25, 29.97
DV 25 420	25
DV 50	25, 29.97
DV100 HD 1080i (DVCPro HD)	All frame rates
DV100 HD 720p (DVCPro HD)	50, 59.94
H.263 (MPEG-1 Layer 2 proxy)	25, 29.97
H.264 (MPEG-1 Layer 2 proxy) 800 Kbps, 2 Mbps, 3 Mbps	25, 29.97
HDV 1080i	All frame rates
HDV 720p	50, 59.94
JPEG 2000	No support
MPEG (IMX) 30	25, 29.97
MPEG (IMX) 40	25, 29.97
MPEG (IMX) 50	25, 29.97
MPEG-2 Long GOP	25, 29.97
RGB	No support
XDCAM-HD 17.5/35/50 Mbps 1080i	All frame rates
XDCAM-HD 50 Mbps 1080p	All frame rates
XDCAM-HD 17.5/35/50 Mbps 720p	50, 59.94
XDCAM-EX 35 Mbps 1080i	All frame rates
XDCAM-EX 35 Mbps 720p	50, 59.94

* Frame rate not guaranteed. Frame rate might temporarily be reduced during playback.

Resolutions and Stream Counts for Supported Systems

During the Avid NEXIS EDGE development process, Avid worked with multiple media formats to determine the maximum number of concurrent playback streams for each format. Testing was completed using a Dell PowerEdge R640 connected via a 10 Gb network to a single Avid NEXIS E4 with one media pack.

The replacement server is an HPE Proliant DL360 G10 SVR DUAL Xeon-S 4210R Processors, 96GB RAM connected via a 10 Gb network to a single Avid | NEXIS EDGE with one media pack, and is expected to have similar results. For more information on the HPE server configuration, see "Hardware and Software Requirements — Recommended Hardware" in the *Avid NEXIS | EDGE Installation Guide*.

📄 *Avid is currently qualifying these systems with the latest software package. Therefore, the number of streams listed in the following table might vary compared to your actual environment. The configuration of your server, the size of your Avid | NEXIS system, the quality of your network, and other factors can all affect system performance. In some cases, your environment might be capable of more steams than the number listed in the table below.*

Use the following table as a guideline for the number of concurrent media streams for each format.

All systems are equipped with the following:

- Avid NEXIS EDGE
  - Good and Better systems have 12 Cores dedicated
  - Better system has 12 Cores dedicated and Hyper-threaded for a total of 24 Cores.
  - Best system has 21 Cores dedicated and Hyper-threaded for a total of 42 Cores
- Intel X710 10GB NIC

	Good (5 Users) Dual Intel® Xeon® Bronze 3106 1.7G 64GB RAM (8x8GB) Windows Standard Server	Better (15 Users) Dual Intel® Xeon® Silver 4110 2.1G 64GB RAM (8x8GB) Windows Standard Server	Best - (25 Users) Dual Intel® Xeon® Gold 5120 2.2G 96GB RAM (6x16GB) Windows Standard Server
Media Format	Number of Playback Streams for each Format (Stream Count)		
XDCAM HD 50	5	11	24
XDCAM HD 35	-	15	35
DNxHD 45	6	14	26
DNxHD 145	-	7	7
JFIF 15:1s	-	87	103
AVC-I50	-	7	12
AVCI-100	-	4	8
ProRes HQ 1080i	-	4	6
ProRes Proxy 1080	-	11	21
XAVC LongG	0*	2*	3*

	Good (5 Users)	Better (15 Users)	Best - (25 Users)
	Dual Intel® Xeon® Bronze 3106 1.7G	Dual Intel® Xeon® Silver 4110 2.1G	Dual Intel® Xeon® Gold 5120 2.2G
	64GB RAM (8x8GB)	64GB RAM (8x8GB)	96GB RAM (6x16GB)
	Windows Standard Server	Windows Standard Server	Windows Standard Server
Media Format	**Number of Playback Streams for each Format (Stream Count)**		
25			
XAVC LongG 50	0*	0*	1*
Proxy H264 2Mbits	40	70	87
DNxHR LB	5	6	7

* Stream counts not guaranteed.

** Avid NEXIS EDGE supports 75 proxy connections, unless the existing Avid | NEXIS configuration has a lower ceiling.

New Features in Version 2023.7

The following new features were added in this release.

Avid NEXIS EDGE New Features

Feature	Description
New Diagnostics tool called "Graphana" has been added	Graphana is a new diagnostic tool that has been added to the Diagnostics section of the Avid NEXIS EDGE Configuration tool. To use it, you will have to log into the Configuration tool, and start the Graphana service. Once the service has been started, you can open the dashboard and view the diagnostic data. For more information, see Working with Graphana in the *Avid NEXIS EDGE Installation Guide*.
The way to access the Kubernetes dashboard has changed	In this release, we have changed the way to access the Kubernetes dashboard. To do so, you must do the following: 1. Open a web browser to access the Avid NEXIS EDGE dashboard, and click on the Diagnostics tab. 2. In the KUBERNETES section, sign-in to the Kubernetes dashboard by clicking the "Copy token and go to Dashboard" (this copies the token to the clipboard), and pasting it (using Ctrl +V) into the Enter token* field on the Sign-in screen. For more information, see Viewing the Avid NEXIS EDGE Dashboard in the Avid NEXIS EDGE Installation Guide.
The name of the "MCEM_whitelist" feature has changed	Avid NEXIS EDGE and Avid NEXIS include a Whitelist feature to control which Avid NEXIS Workspaces are scanned and accessed by Avid NEXIS EDGE. In this release, we have changed the name of the "MCEM_whitelist" feature to "EDGE_whitelist". For more information on how to activate this feature, see the topic Using an EDGE_

Feature	Description
	whitelist Group in the *Avid NEXIS EDGE Installation Guide.*
Ability to create and use Browse favorites in the Browse app	It is very common for a user to access the contents of some folders more often than other folders. To address this workflow, Avid NEXIS EDGE allows you to save and access frequently used folders as browse favorites. For more information, see the topic "Creating and Using Browse Favorites" in the *Avid NEXIS EDGE User's Guide.*
Added a Layouts button to allow saving of Display columns within the EDGE user interface	Located at the far right of the Core apps section of the Fast Bar, the Layouts button allows you to customize the Avid NEXIS EDGE user interface, and save those customizations for future use. For example you might create a layout that opens your favorite apps and tools used in a Logging workflow. For more information, see the topic "Working with Layouts" in the *Avid NEXIS EDGE User's Guide.*

Fixes in Version 2023.7

The following topic lists the fixes for Avid NEXIS EDGE in this release.

➤ **Bug Number:** MCEM-4419. When configuring the Active Directory integration using the configuration tool, we state in the user documentation that the fields "bind user", "admin user" and "default user" should use the full distinguished name for these users. However, the configuration tool limits these fields to a maximum of 50 characters which is not enough for most deployments.

➤ **Bug Number:** MCEM-2729. You cannot correctly solo more than eight tracks on clips created by Media Composer. The solo function works, but if you have more than eight tracks, it cannot isolate the audio on the specific track.

➤ **Bug Number:** MCEM-2672. When adding a description in asset metadata, after clicking Save, the description disappears.

Limitations and Defects in Version 2023.7

The following sections list known limitations and defects for Avid NEXIS EDGE.

📄 *Regarding language support, Avid NEXIS EDGE displays some attributes and text in English only.*

Asset Editor

The following limitations apply in Avid NEXIS EDGE when working with the Asset Editor:

➤ **Bug Number:** MCEM-1622. Apple ProRes media created by Media Composer is offline when using Avid NEXIS EDGE in the web browser.

Browse App

The following limitations apply in Avid NEXIS EDGE when working with the Browse app:

➤ **Bug Number:** MCEM-3989. Creating a Sequence fails when clips are Offline. This action should be allowed.

➤ **Bug Number:** MCEM-3985. In some instances, media may report as Offline in NEXIS | EDGE but is online in Media Composer.

➤ **Bug Number:** MCEM-3601. When creating proxy media from the Browse app and sending to a folder that already has proxy media in it results in the message "Proxies for the selected files already exist on the target workspace". This message is incorrect because when you click Close, and open the Distributed Processing Status app, you can see that the Jobs are being adding to the Processing queue one by one.

➤ **Bug Number:** MCEM-2602. Mixing clips with a different number of audio tracks makes the sequence uneditable in the Browse app.

➤ **Bug Number:** MCEM-2432. Currently, the Match Frame function does not work properly for subclips that are loaded in the Media Viewer.

➤ **Bug Number:** MCEM-2195. You cannot set Mark In points from Group clips created in the Browse app. Therefore, the Mark In and Mark Out buttons have been grayed-out until this issue is resolved.

➤ **Bug Number:** MCEM-1573. Avid NEXIS EDGE does not display Mark In or Mark Outs generated from Media Composer. In addition, Mark In/Out points created in Avid NEXIS EDGE are not displayed in Media Composer.

Workaround: To work around this issue, users should create subclips.

➤ **Bug Number:** MCEM-1409. Currently, the Match Frame function does not work properly for sequences that include subclips. If parked on a subclip in an editing timeline, the Match Frame function will load the correct subclip in question into the viewer, but the frame displayed is not the correct frame. This process works correctly for master clips edited into timelines, but does not work correctly for subclips. This applies to both the Match Frame button in the Viewer, and to the "Load Clip" function found within the right-click menu (when right-clicking on the sequence in the Sequence Timeline). The Match Frame button is grayed out so the action is not possible.

➤ **Bug Number:** MCEM-1390. When renaming a clip or subclip by selecting the clip name, typing the new name, and pressing Enter, the clip name will revert back to the original name.

Workaround: To work around this issue, you have to redo the same steps (change the name twice), and press Enter. This time, the new name will save. Or, you can manually refresh the bin to save the new name.

➤ **Bug Number:** MCEM-1387. When moving a large amount of clips from large bins (300 clips), clicking the first clip, and then shift+clicking the last clip to select all clips too quickly, results in not all clips being moved to the new bin.

Workaround: To work around this issue, when selecting the clips, scroll through the original bin slowly, waiting for the thumbnails to draw out, then all the selected items will be moved over to the new bin successfully.

➤ **Bug Number:** MCEM-548. It appears that you can add markers to a clip in a locked bin. However, the markers will not be saved. Instead, an error message appears telling you that the bin is locked. Refreshing the bin makes the markers disappear.

➤ **Bug Number:** MCEM-689. When trying to add markers to a clip in which the bin is locked, you will get the Bin Locked error message. However, instead of being removed, the markers are still displayed in the Marker app until you reload the clip.

Workaround: To work around this issue, reload the clip, or refresh the app (press F5).

Configuration Tool

The following limitations apply in Avid NEXIS EDGE Configuration tool:

➤ **Bug Number:** MCEM-4567. When accessing the Kubernetes dashboard via the button in the Configuration Tool, the access token does not copy to the clipboard properly.

Workaround: To work around this issue, close the Kubernetes window and click the Kubernetes button in the Configuration Tool a second time.

Language Support

The following limitations apply in Avid NEXIS EDGE with regards to language support:

➤ **Bug Number:** MCEM-21. Media Composer can support International English plus one other language, but not a mix of languages other than International English. Avid does not test the performance of individual language packs. All testing is performed using the International English language pack. The quality of hits returned for phonetic searches could vary based on your default language.

For example, Chinese and English or Arabic and English are supported, but not Chinese and Arabic. If a mix of languages is entered in a text field, some non-Latin characters are mapped to random characters.

Media Composer Projects

The following limitations apply in Avid NEXIS EDGE when working with Media Composer projects:

- Support is limited to external or shared Media Composer projects. Local Media Composer projects are not supported.
- There is no support for scripts.

Playback

The following limitations apply in Avid NEXIS EDGE with regards to Playback:

➤ **Bug Number:** MCEMINBOX-15. Any clip modifier will need to be mixed down for playback in the browser, some examples are Color Space changes, Frame Rate, mixed audio between Monn/Stereo/Surround and Effects.

For example, if a LUT or color correction has been added to a clip in Avid Media Composer, the clip can be played in Avid NEXIS EDGE (not showing the LUT applied). If the same clip is placed in a sequence, it cannot play and the player shows it as an unrendered effect.

After rendering the sequence in Avid Media Composer, it is possible to play the clip, but it is not possible to scrub the sequence, or jump to a point in the timeline in Avid NEXIS EDGE.

Proxy Workflow

The following limitations apply in Avid NEXIS EDGE when using the Proxy workflow:

➤ **Bug Number:** MCEM-3541. When issuing a Create Proxy job from an Avid NEXIS EDGE browser for a bin with a sequence containing multiple clips, it is represented as one media file in the Create Proxies via Distributed Processing dialog box, as well as in the Description column of the DP Status app for the proxy creation job.

At same time, the quantity of tasks in the Job at DP Status app equals the number of clips in the sequence.

➤ **Bug Number:** MCDEV-15415. Proxy creation does not work on 1080p 24fps projects with Film Options if the clip contains audio tracks. The following error appears for all clips with audio:

Failed to create proxy for clip: 1-8

ERROR: Exception: Segment can't be translated to container format.

📄 *Proxy creation and playback on MOS clips works correctly.*

Search App

The following limitations apply in Avid NEXIS EDGE with regards to the Search app:

➤ Phonetic Indexing is available in English only for Adobe Premiere Pro environments.

➤ Phonetic Indexing in Avid NEXIS EDGE currently indexes audio on track A1 only. MediaCentral | Cloud UX can index additional tracks (as noted in the *MediaCentral | Cloud UX User's Guide*), however, this functionality is not supported for Avid NEXIS EDGE.

➤ **Bug Number:** MCEM-4569. Please note that mp3 files might not get indexed for use in Phonetic Searches.

➤ **Bug Number:** MCEM-1627. There are intermittent problems when enabling Phonetic search that can prevent new items from being found in all searches, not just Phonetic search.

Shared Storage Workspaces

The following limitations apply in Avid NEXIS EDGE when working with shared storage workspaces (e.g., Avid NEXIS):

- You cannot drag a bin to a folder.
- You cannot drag a local clip to the MediaCentral Panel to move it to a shared location. You need to drag it to an already open shared bin.
- You cannot create Media Composer Projects.
- You cannot rename folders or bins.
- You cannot delete files or other bin items.
- You cannot move bin items (only copy items).
- You cannot move files between workspaces.
- Avid ISIS is not supported for Avid NEXIS EDGE.

➤ **Bug Number:** MCEM-3459. There are invalid Token failures for repeated Avid NEXIS Management API calls from the Avid NEXIS | Edge server. These were manifested as re-occurring error messages in one of the Avid NEXIS Journal logs (for nxserver management console) referencing invalid tokens provided for API calls.

Workaround: To work around this issue, restart IAM Core.

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