



Avid NEXIS® ReadMe

Version 2019.2.2

Important Information

Avid recommends that you read all the information in this ReadMe file thoroughly before installing software or attempting to use the Avid NEXIS system. This ReadMe provides information that is not in the other Avid NEXIS documentation. This ReadMe applies to the v2019.x and v2018.x software releases of Avid NEXIS, which run on Avid NEXIS infrastructures.



Search the Avid Knowledge Base for the most up-to-date ReadMe file, which contains the latest information that might have become available after the documentation was published. To view the online version, visit the Knowledge Base at www.avid.com/support.

This ReadMe provides hardware and software requirements, an overview of the major features of this release, and limitations and known issues. See the appropriate *Avid NEXIS Setup Guide* for information on physical connection of the system and loading the system and client software. You can access the documentation from the [Avid NEXIS Knowledge Base](#).

For compatibility with other Avid products, see the Knowledge Base page for [Avid Audio and Video Compatibility Charts](#).



Avid recommends that you purchase installation services with your Avid NEXIS system.

Revision History

Date	Release	Changes Made
03/21/2019	2019.2.2	See “What’s New in Avid NEXIS 2019.2.2” on page 5
02/21/2019	2019.2	See “What’s New in Avid NEXIS 2019.2” on page 5
11/27/2018	2018.11	See “What’s New in Avid NEXIS 2018.11*” on page 6
11/05/2018	2018.9.1	See “What’s New in Avid NEXIS 2018.9.1” on page 6
10/16/2018	2018.9	See “What’s New in Avid NEXIS 2018.9” on page 7
08/20/2018	2018.4.1	See “What’s New in Avid NEXIS 2018.4.1” on page 8
07/24/2018	2018.6.1	See “What’s New in Avid NEXIS 2018.6.1” on page 9
06/26/2018	2018.6	See “What’s New in Avid NEXIS 2018.6” on page 9
05/29/2018	2018.5	See “What’s New in Avid NEXIS 2018.5” on page 10
04/30/2018	2018.4	See “What’s New in Avid NEXIS 2018.4” on page 11 --- Minimum Required Release
03/29/2018	2018.3	See “What’s New in Avid NEXIS 2018.3” on page 12 --- Not recommended; upgrade to 18.4 or higher.



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.



Avid has made available a utility to check the status of system drive SSDs in Avid NEXIS devices running Avid NEXIS | FS v7.3 to v2018.3 (inclusive). All customers with Avid NEXIS v7.3 to v2018.3 must run this utility every day.

The Avid NEXIS Health Monitor Utility enables status checking of multiple engines (and SDAs) and multiple controllers. Add the IP addresses for all controllers in all Engines and SDAs reachable on the network, and the Agent password for all Avid NEXIS systems, into the configuration file included in the zip file with the Health Monitor utility. Run the utility daily to gather status of all configured controllers. Output from the utility is written to a log file that reports Pass, Warning, or Fail status for the SSDs. If the log file reports Fail, DO NOT remove or replace drives. Contact Avid Customer service immediately.

The Avid NEXIS Health Monitor Utility is available for Windows and Mac OS. Configure the utility to query all controllers accessible from the PC or Mac running the utility, including controllers in each Engine and SDA. You can download the utility from your "MyAvid" account. The zip file includes a readme with instructions on how to add the IP addresses to the config file and run the utility.

Contents

Accessing the Online Documentation	4
If You Need Help	4
Avid Training Services	4
What's New in Avid NEXIS 2019.2.2	5
What's New in Avid NEXIS 2019.2	5
What's New in Avid NEXIS 2018.11*	6
What's New in Avid NEXIS 2018.9.1	6
What's New in Avid NEXIS 2018.9	7
What's New in Avid NEXIS 2018.4.1	8
What's New in Avid NEXIS 2018.6.1	9
What's New in Avid NEXIS 2018.6	9
What's New in Avid NEXIS 2018.5	10
What's New in Avid NEXIS 2018.4	11
What's New in Avid NEXIS 2018.3	12
Supported Upgrade Paths	12
System Director and Client Version Compatibility	13
System Configuration Limits	13
System Performance (On-Premise)	15
Hardware and Software Requirements	17
Supported Client Operating Systems	17
Supported Browsers in an Avid NEXIS On-Premise Environment	18
Intel® Adapters and Drivers	21
Qualified and Approved Avid NEXIS Switches	22
Known Issues	22
Special Notes	25
Legal Notices	27

Accessing the Online Documentation

The Avid NEXIS documentation is accessible in PDF format from the [Avid NEXIS Knowledge Base](#).

If You Need Help

If you are having trouble using your Avid product:

1. Retry the action, carefully following the instructions given for that task in this guide. It is especially important to check each step of your workflow.
2. Check the latest information that might have become available after the documentation was published. New information is provided in the ReadMe file, available online.

You should always check online for the most up-to-date release notes or ReadMe because the online version is updated whenever new information becomes available. To view the online versions, visit the Knowledge Base at www.avid.com/US/support.

3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues.
4. Visit the online Knowledge Base at www.avid.com/US/support. Online services are available 24 hours per day, 7 days per week. Search this online Knowledge Base to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read or join online message-board discussions.

Avid Training Services

Avid makes lifelong learning, career advancement, and personal development easy and convenient. Avid understands that the knowledge you need to differentiate yourself is always changing, and Avid continually updates course content and offers new training delivery methods that accommodate your pressured and competitive work environment.

For information on courses/schedules, training centers, certifications, courseware, and books, please visit www.avid.com/support and follow the Training links, or call Avid Sales at 800-949-AVID (800-949-2843).

What's New in Avid NEXIS 2019.2.2

Avid NEXIS version 2019.2.2 is a patch release that fixes the following issues:

- [SSENG-21110, SSENG-21039, SSENG-20864] Fixed related issues in which Windows clients running Avid NEXIS Client Manager version 2018.11 or 2019.2 with Media Composer encountered errors during auto or manual bin-save operations. Media Composer displayed any of the following messages when the user tried to save bins:
 - “Failure renaming temp bin”
 - “Changes cannot be saved to bin”
 - “Access is denied to path”

You do not need to apply this patch to Avid NEXIS Engines or the System Director Appliance.

What's New in Avid NEXIS 2019.2



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

The Avid NEXIS v2019.2 release includes the following new features and improvements.

New Features

- Support for the Data Migration Utility (DMU) on Mac OS client systems. The Avid NEXIS Administration Guide describes using DMU on both Windows and Mac OS clients.
- Support for Mac OS 10.14 (Mojave) on Avid NEXIS client systems. Mac systems running 10.14 with 10GbE (or higher) NICs can see a performance decrease of up to 10% compared to 10.13. The higher performing Macs, like the 18 core iMacPro 1,1, are less susceptible to this issue, but still can see up to a 5% decrease in Mojave vs. High Sierra. See also [“Myricom® Driver for Mac OS” on page 21](#).
- Support for 2PB in a single Storage Group on an Avid NEXIS | Cloud Storage system.

Fixes and Improvements

- [SSENG-20933] Fixed an issue in High Performance Storage Groups when the system has a failed or missing drive, where a read that directly follows a write can result in a spurious read error.
- [SSENG-20513] Updated the Avid NEXIS management interface running on IP port 80 to block attempts to traverse the operating system file structure.
- [SSENG-20295] Improved internal validation checking for system configuration changes.
- [SSENG-18445] Windows clients previously reported file size rounded up to the full stripe size (4MB for Scale-Out and SSD Performance Media Packs, or 8MB for High Performance Media Packs). Both operating systems now correctly report the file size rounded up to the strip size (512KB for Scale-out and SSD Performance Media Packs, and 1024KB for High Performance Media Packs).
- [SSENG-19362] Fixed an issue with logging into the HTML-5 Management Console on systems with redundant Controllers after a Controller failover.
- [SSENG-19228] Fixed an issue where the Avid NEXIS Profiler reports “Not Found” for the ATTO NQ42 40 Gb NIC despite its presence in the system.
- [SSENG-20151] Fixed an issue on Mac clients when attempting to install the LDAP Sync Tool or the Toolbox downloaded from an Avid NEXIS system running version 2018.11, a message indicated that the .dmg installer file was damaged and should be discarded.

- [SSENG-18301] Fixed an issue where after the system rebooted (for example, after an upgrade) a message appeared indicating an internal server error and the potential symptom that no file system exists, and suggested creating a new file system. This occurred because during a reboot, subsystems temporarily lose communication with each other and cannot report or receive status until connections are restored.
- [SSENG-20144] Occasionally when logging into the Avid NEXIS Management Console, if the file system was not available and ready to support logins, the message “Unauthorized user” was displayed.
- [SSENG-18450] Deleting large amount of data from an Avid NEXIS | Cloud Storage workspace caused performance degradation for read operations.

What's New in Avid NEXIS 2018.11*

The Avid NEXIS v2018.11 release includes the following new features.

- Support for SNMP monitoring of an on-premise Avid NEXIS system. The Administrator's Guide includes information on downloading the MIB file and enabling SNMP.
- Support for the CentOS 7.5 kernel 3.10.0-862 for Linux client systems. CentOS 7.5 is the required operating system for Avid MediaCentral | Cloud UX v2018.11.
- Support for selecting multiple items in the HTML-5 Management Console for performing bulk operations and deleting objects. See the Avid NEXIS Administration Guide for more information.

The Avid NEXIS v2018.11 release includes the following important fixes.

- [SSENG-19827] ***UPDATE TO 2018.11 ReadMe** Resolved incorrect use of spare drives for Media Pack rebuild.
- [SSENG-19006] During specific workflows that update existing blocks in quick succession, clients may experience I/O errors or limited bandwidth.
- [SSENG-19152] After replacing an Engine the enclosure ID in the Agent for the new Engine did not display the same ID number as the Engine front panel.
- [SSENG-19384] Improved metadata problem detection and checking.
- [SSENG-20111] After upgrading Interplay clients to Avid NEXIS version 2018.9, Workspaces did not show up in the Interplay Admin tool.
- [SSENG-20171] After removing a Media Pack drive in an Engine with no spare drives, the other drives in that Media Pack displayed a status of Pending.

What's New in Avid NEXIS 2018.9.1

The Avid NEXIS v2018.9.1 patch release includes the following important fixes. These apply to the Avid NEXIS shared-storage system only. You do not need to update clients currently running Avid NEXIS v2018.9.

- [SSENG-19781] Fixed an issue with updating Avid NEXIS | PRO 20TB systems to Avid NEXIS version 2018.9.0, which caused those systems to become unavailable.
- [SSENG-19201] Avid NEXIS | FS 2018.9.0 release no longer uses the internal ntb0 inter-controller link. However, the Avid NEXIS HTML-5 Management Console 2018.9.0 displayed the status of this interface. Avid NEXIS | FS 2018.9.1 no longer displays the status of this interface as it is not required.

What's New in Avid NEXIS 2018.9



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

The Avid NEXIS v2018.9 release includes the following new features and improvements:

- Avid NEXIS v2018.9 includes support for the Data Migration Utility (DMU) on Microsoft Windows, to migrate data from an ISIS system to Avid NEXIS Enterprise and Avid NEXIS | PRO systems. Workspaces migrated to Avid NEXIS are accessible by all supported clients (Windows, Mac, and Linux). The Avid NEXIS Administration Guide describes using DMU on both Windows and Mac OS clients, but as of version 2018.9, only Windows clients are supported.
- Avid NEXIS v2018.9 introduces a new SSD model for the system drives in Avid NEXIS | PRO 40TB systems. The new SSDs apply only to this Avid NEXIS model. New deliveries of Avid NEXIS | PRO 40TB systems will contain these drives. As existing SSDs need to be replaced in systems in the field, the new SSD model will be provided. For more information, see [“Replacement SSDs for Avid NEXIS | PRO” on page 8](#).
- [SSENG-16911, SSENG-17858] As of Avid NEXIS v2018.9, the Avid NEXIS kit no longer includes switch configuration files and several NIC folders and files.

The only NIC driver included in the kit is the Myricom/myri10ge-1.3.5avid-1500-macosx.dmg. For all other drivers, download the latest version from the web or use the driver included with your client OS.

The Avid NEXIS v2018.9 release includes the following server (Avid NEXIS System) improvements and fixes:

- Avid NEXIS v2018.9 saves a third copy of Avid NEXIS System Director (SD) metadata to the internal SSD on each controller, in all Avid NEXIS Engines (including Avid NEXIS | PRO) and the System Director Appliance. The other two copies are on the shared metadata SSDs (system drives).
- [SSENG-18883] In Avid NEXIS 18.6, if any Workspace name contained an invalid character, no Workspaces were displayed in the HTML-5 Management Console but did display in the classic Management Console.
- [SSENG-19148] Due to delays caused by device_blocked errors, in certain circumstances a controller failover led to a spare drive rebuild.
- [SSENG-19147] Due to issues within the Disk Manager services could delay connections from other services, particularly Media Packs, for extended periods of time. Media Packs were unable to get disks and could not run, causing system outages for unmirrored Workspaces.
- [SSENG-19149] Improved inter-controller communication to minimize false alarms that may trigger unnecessary failovers.
- [SSENG-18974] After an upgrade, drives sometimes got stuck in the Initializing stage.

The Avid NEXIS v2018.9 release includes the following client improvements and fixes:

- Avid NEXIS v2018.9 introduces support for using 40GigE NICs in client systems to support playback of ultra high bandwidth media. The Avid NEXIS Client Manager contains a new client resolution option (client type) specifically for use with 40GigE clients connecting to Avid NEXIS systems.
- [SSENG-19144, SSENG-19251, SSENG-19358, SSENG-19381] Made several stability improvements to the Avid NEXIS Client.

Replacement SSDs for Avid NEXIS | PRO

Avid has qualified new solid-state drives (SSDs) to replace those in Avid NEXIS | PRO systems with 40TB Media Pack drives. The current SSDs will soon no longer be manufactured. **Avid NEXIS version 2018.9 is the minimum supported version for any Avid NEXIS | PRO with the replacement SSDs installed.**



If you have an Avid NEXIS | PRO 40TB system and need to replace one or both SSDs, you must upgrade to Avid NEXIS 2018.9 before removing and replacing the drives.

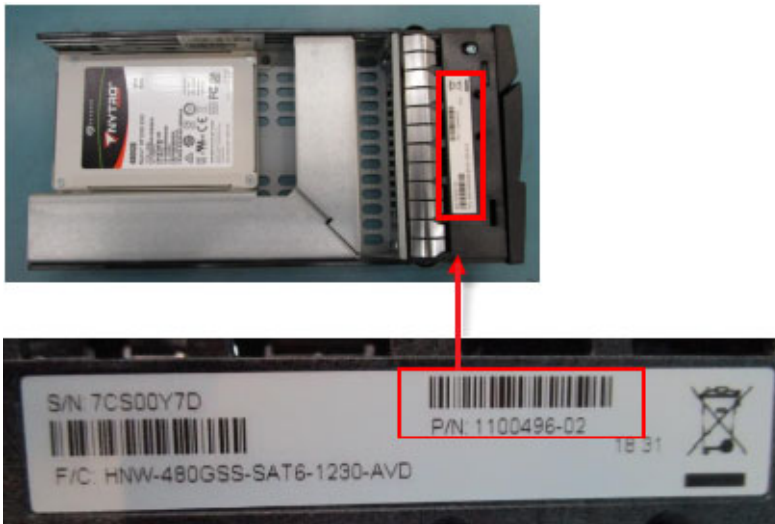
The affected Avid NEXIS | PRO and SSD part numbers are listed below:

- Avid NEXIS | PRO 40TB: Part Numbers 9900-71318-01 and 9900-71318-02
- Old SSD: 1100496-02
- New SSD: 1101813-01

Identifying the SSD Type in an Avid NEXIS | PRO 40TB

Before replacing SSDs, make sure you have the type of SSDs that are being phased out.

The replacement SSDs have the part number 1101813-01, on the label on the drive. The following figure shows the location of the drive label where the part number is printed, and shows the part number of the drives being phased out (1100496-02).



What's New in Avid NEXIS 2018.4.1



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

If you are running a version earlier than v2018.4, you should check the system drive SSD status daily; see the Avid Knowledgebase article: http://avid.force.com/pkb/articles/en_US/faq/SSD-Failure-Not-Reported

The Avid NEXIS v2018.4.1 patch release includes the following fixes:

- [SSENG-18845] Fixed an issue where a Media Pack would not start due to failure to read internal information.
- Fixed an issue where internal redundant network interface (NIC) recovery took longer than expected causing a Storage Controller reboot.

What's New in Avid NEXIS 2018.6.1



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

If you are running a version earlier than v2018.4, you should check the system drive SSD status daily; see the Avid Knowledgebase article: http://avid.force.com/pkb/articles/en_US/faq/SSD-Failure-Not-Reported

The Avid NEXIS v2018.6.1 patch release includes the following fixes:

- [SSENG-18365] Fixed an issue with Read/Write fails to RAID-6 Workspaces on ISIS 7500-7000 using Windows clients with 10G NICs connected either to a switch or directly to the ISIS system.
- [SSENG-18307] Fixed a memory leak issue when the HTML-5 Management Console remains open in a browser tab while other tabs are open and active.
- [SSENG-18212] Fixed a delayed write failure to Avid NEXIS from an AirSpeed server.

What's New in Avid NEXIS 2018.6



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

If you are running a version earlier than v2018.4, you should check the system drive SSD status daily; see the Avid Knowledgebase article: http://avid.force.com/pkb/articles/en_US/faq/SSD-Failure-Not-Reported

The Avid NEXIS v2018.6 release includes the following new features and improvements:

- This release supports Cloud-based Avid NEXIS | Cloud Storage running in Microsoft Azure.
- The latency tolerance of Avid NEXIS on-premise client access to an Avid NEXIS | Cloud Storage system is about 100ms round-trip, with 0% packet loss. Latency and bandwidth are inversely related: bandwidth decreases as latency increases.

These optimizations do not apply to on-premise clients connecting to Avid NEXIS on-premise systems (E2, E2 SSD, E4, E5, E5 NL, or PRO). There is no increased latency tolerance for on-premise clients.

- This release supports using a VPN point-to-site client connection to Avid NEXIS | Cloud Storage. You must have Windows point-to-site VPN software installed on each client requiring connection to Avid NEXIS | Cloud Storage, or a Microsoft Azure ExpressRoute connection. While point-to-site VPN gives you network connectivity from your desktop client to the Avid NEXIS | Cloud Storage system, the following caveats apply:
 - Broadcast is not enabled in the Azure network. You must manually enter the (private) IP address of the System Director in the Client Manager, in the Remote Host Settings dialog.
 - The private IP address of the System Director is not static, but is allocated dynamically and is therefore liable to change.
- Avid NEXIS v2018.6 introduces support for CentOS version 7.4 on client systems.

- [SSENG-18173] For Avid NEXIS on-premise systems, the values at which a warning or error is displayed for SSD health have changed. The new values are 10% life remaining (Warning) and 5% life remaining (Critical). The old values were determined to be too conservative; the new values still give you sufficient time to order and replace a failing SSD.
- [SSENG-17803,17791] Avid NEXIS Mac clients now ignore the Wi-Fi setting on the client system. Previously, if Wi-Fi was enabled on a client, the Mac client could not connect to an Avid NEXIS system.
- [SSENG-16697] Fixed an issue where Avid NEXIS systems with a failed or failing media disk did not upgrade properly.
- [SSENG-16518] Fixed an issue where writing to an Avid NEXIS system with a Telestream Vantage® server could cause the Vantage server to stop working.
- [SSENG-13690] Addressed an issue duplicating Apple Final Cut Pro X projects on Avid NEXIS. To support this operation, run the following command in the Mac Terminal application:

```
AvidRegistry -s AvidFos\\Parameters UsePosixAdvisoryLocks 1
```
- [SSENG-18274] The option to enable link aggregation (LACP) is now supported and displayed on Avid NEXIS | E2 SSD systems, and is not displayed (or supported) on Avid NEXIS | PRO systems.
- [SSENG-18067] The option “Run System Director” has been removed from the System Setup page on Avid NEXIS | E5 Engines. Running an embedded System Director is not supported on those Engines.
- [SSENG-16582] Fixed an issue where Apple iMacPro 1,1 client systems using a 10Gb Thunderbolt adapter were unable to connect to an Avid NEXIS system.

What's New in Avid NEXIS 2018.5



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

If you are running a version earlier than v2018.4, you should check the system drive SSD status daily; see the Avid Knowledgebase article: http://avid.force.com/pkb/articles/en_US/faq/SSD-Failure-Not-Reported

The Avid NEXIS v2018.5 release includes the following new features and improvements:

- Avid NEXIS v2018.5 introduces support for Avid NEXIS | E5 NL, a high density, cost effective on-premises nearline storage tier for media workflows. Avid NEXIS | E5 NL delivers 960TB of total storage or 480TB when half populated.
Avid NEXIS | E5 NL is supported by Avid MediaCentral | Shared Library, Media Central | Production, Media Central | Asset Management and 3rd party tools for media management and movement. Nearline workflows include: project parking, staging and proxy storage allowing instant access to a proxy of high resolution media archived to tape.
Avid NEXIS | E5 NL supports dual- and single-disk media protection, dual controllers, and network redundancy. Network connectivity is cost effective 10Gbps Ethernet (SFP+) supporting optical or direct attach cables to a 10Gbps Ethernet switch interface.
Avid NEXIS | E5 NL can be integrated into an existing Avid NEXIS | Enterprise shared-storage system, as a separate storage group, and managed by an existing System Director Appliance.
- Avid NEXIS v2018.5 introduces the HTML-5 Avid NEXIS Management Console. This application is now the default application accessible via port 80. The earlier Adobe® Flash based management console and the associated SOAP interface is accessible in Avid NEXIS 2018.5 on port 3002 (HTTP) or 3003 (HTTPS). The new Management Console now can be accessed from the host name or IP address of the System Director or any engine in that system.

After you upgrade an existing Avid NEXIS configuration to 2018.5, the new Management Console becomes the default interface. If you have bookmarked the URL for your Management Consoles, the URLs will be redirected to the new one. You can continue to run the older interface (while supported) if you prefer it, while learning the new interface.

When setting up a new system, you continue to use the Installation Wizard for the initial software installation. When the new system reboots to complete the installation, the new HTML-5 Management Console is displayed.

The *Avid NEXIS Administration Guide* has been revised to reflect the new UI and its functionality.

- [SSENG-17849] Fixed an issue with Mac clients moving exported media files between Workspaces using the Finder.
- [SSENG-17603] Relaxed the LDAP authentication rules to accept mixed-case user names.
- [SSENG-17589] Fixed a rare issue where MediaCentral clients could unexpectedly disconnect from Avid NEXIS or ISIS systems. This change does not require any update to Avid NEXIS or ISIS servers.
- [SSENG-16590] Updated Mellanox network interface driver to v4.3 for Avid NEXIS Enterprise engines to prevent occasional controller reset.
- [SSENG-16589] In the Avid NEXIS Client software, changed the RSS default value to Disabled for all Windows OS versions.

What's New in Avid NEXIS 2018.4



Avid NEXIS v2018.4 is the minimum required release for all Avid NEXIS systems (Enterprise and PRO). This release resolves an issue that prevented correct reporting of SSD system drive failures.

If you are running a version earlier than v2018.4, you should check the system drive SSD status daily; see the Avid Knowledgebase article: http://avid.force.com/pkb/articles/en_US/faq/SSD-Failure-Not-Reported

The Avid NEXIS v2018.4 release includes the following new features and improvements:

- Support for larger configurations involving Avid NEXIS | E2 SSD Engines.
Avid NEXIS | E2 SSD Engines can be configured with the Avid NEXIS SDA (System Director Appliance) with other Avid NEXIS Enterprise Engines (E2, E4, E5).
The Avid NEXIS | E2 SSD Engines must be put into their own Storage Group, separate from the other Engines. You can configure up to 64 Media Packs with any combination of Avid NEXIS | E2, Avid NEXIS | E4, and Avid NEXIS | E2 SSD in a system using an Avid NEXIS SDA.
- Support for up to 3072 Workspaces in a shared-storage system that includes a System Director Appliance.
- [SSENG-17721] Resolved an issue with system disk failures not being correctly reported for all Avid NEXIS Engines and SDA.
- [SSENG-17097] Resolved an issue when removing an Engine from an Avid NEXIS Enterprise configuration with mirrored Workspaces (Engine Protection). Upgrade to Avid NEXIS 2018.5 before performing remove redistribution on any system configured with mirrored Workspaces.
- [SSENG-17297] Added protection to avoid temporary communication failures during network connectivity interruptions.

What's New in Avid NEXIS 2018.3



All customers are strongly recommended to upgrade to Avid NEXIS v2018.4 or higher. Releases 7.3 to 2018.3 have a known issue where system drive SSD failures are not correctly reported.

The Avid NEXIS v2018.3 release includes the following new features and improvements:


- Avid NEXIS version numbering has changed to a new format reflecting the year, month, and patch number, to better track when each release was available and to match the release schemas of the other Avid products. Avid NEXIS 2018.3 is the follow-on release to Avid NEXIS v7.11, and is compatible with several previous Avid NEXIS releases. See “[System Director and Client Version Compatibility](#)” on [page 13](#).
- This release introduces support for up to 64 Media Packs managed in the same shared-storage system. See “[System Configuration Limits](#)” on [page 13](#) for more information.
- [SSENG-16745] Fixed an issue in media mirror logic that could cause edit-while-capture inconsistencies during long captures.
- [SSENG-17016] Fixed a Storage Manager start up error in Avid NEXIS 7.10.x and 7.11.x that prevented Avid NEXIS Storage Manager to start correctly when an external DNS location is configured but not reachable.
- [SSENG-16548] Fixed an error where, in some cases, after installing Avid NEXIS Client software on a Windows 10 client localized to a language other than English, the system inappropriately displayed an error message about the Receive Window Auto-Tuning Level any time the client system rebooted.
- [SSENG-16547] Fixed an issue with iMacPro 1,1 using a 10Gb connection to Media Composer where performance could degrade over time.

Supported Upgrade Paths

You can upgrade an Avid NEXIS E-Series Engine, System Director Appliance, and an Avid NEXIS | PRO according to the upgrade path described next. For instructions on how to upgrade an Engine or System Director Appliance, see the *Avid NEXIS Setup and Maintenance Guide*, or the *Avid NEXIS Administration Guide*.



Avid NEXIS Upgrade Paths

The Avid NEXIS Enterprise Engines, the System Director Appliance, and the Avid NEXIS | PRO can upgrade to the following versions.

Current Avid NEXIS Version	Can Upgrade Directly To
v6.0.x, v6.1.x, v6.2.x	v2019.2.x
v7.0.x — v7.11.x	
v2018.3, v2018.4 , v2018.5, v2018.6.x, v2018.9.x, v2018.11	
 <i>Avid NEXIS v2018.4 is the current recommended MINIMUM version.</i>	

System Director and Client Version Compatibility

The Avid NEXIS Client software works with the following versions:

ISIS or Avid NEXIS System Director	Supported Versions
ISIS 7500 - 7000, ISIS 5500 - 5000, ISIS 2500 - 2000	v4.7.5 and higher
Avid NEXIS Enterprise Engine, System Director Appliance, Avid NEXIS PRO	v7.0.x — v7.11.x, v2018.3, v2018.4, v2018.5, v2018.6.x, v2018.9.x, v2018.11, v2019.2.x  <i>Avid NEXIS versions 7.3 through 2018.3, inclusive, are not recommended due to an issue that prevents correct monitoring and alerts for shared metadata SSDs.</i>  <i>Avid no longer supports ISIS v5.x or Avid NEXIS v6.x., and strongly recommends upgrading to at least v2018.4 or the current version on all Avid NEXIS systems.</i>



The Avid NEXIS Toolbox and other utilities are tested and known to work only against a System Director of the same version. If you want to install two different versions of the Toolbox on the same system, install one of them into a directory other than the default.

System Configuration Limits

With the introduction of Avid NEXIS | Cloud Storage, different configuration limits apply to on-premise versus Cloud systems.

On-Premise Limits

The following table lists the system configuration limits for all Avid NEXIS on-premise platforms in the v2019 and v2018 release stream.

Item	Limit
Media Packs per shared-storage system	<ul style="list-style-type: none"> • 24 with a System Director Appliance, the Avid NEXIS FS Extended license and any combination of Avid NEXIS Enterprise Engines • 25-48 with a System Director Appliance, the Avid NEXIS FS Advanced license, Avid NEXIS v7.6 or higher, and any combination of Avid NEXIS Enterprise Engines • 64 with a System Director Appliance, the Avid NEXIS FS Advanced license, Avid NEXIS v2018.3 or higher, and any combination of Avid NEXIS Enterprise Engines • 4 with all Avid NEXIS PRO (with any combination of 20TB and 40TB Media Packs) • 4 with any combination of Avid NEXIS E2 or Avid NEXIS E4 Engines running an embedded System Director and the Avid NEXIS FS Foundation license • 4 with all Avid NEXIS E2 SSD Engines with embedded System Director, all running 2018.5 and higher

Item	Limit
Media Packs per Engine	<ul style="list-style-type: none"> 1 or 2 in Avid NEXIS E4
(No Media Packs in a System Director Appliance)	<ul style="list-style-type: none"> 4 to 8 in Avid NEXIS E5 1 in Avid NEXIS PRO, Avid NEXIS E2, Avid NEXIS E2 SSD
Storage Groups with embedded System Director	<ul style="list-style-type: none"> 1 to 4 with any combination of Avid NEXIS Enterprise Engines 1 to 4 with all Avid NEXIS PRO 1 to 4 with all Avid NEXIS E2 SSD, running 2018.5 and higher 1 High Performance Storage Group (with up to 4 Media Packs)
Storage Groups with System Director Appliance	<ul style="list-style-type: none"> 1 to 32 with any combination of Scale-Out Performance and SSD Performance Media Packs 1 High Performance Storage Group (with up to 8 Media Packs), plus up to 31 other Storage Groups with any combination of Scale-Out Performance and SSD Performance Media Packs
Workspaces	1024 with an embedded System Director 3072 with a System Director Appliance
Users	5640 (all configurations)
User Groups	1028 (all configurations; a user can be in 15 groups)
Connected Clients	<ul style="list-style-type: none"> 40 active clients in Avid NEXIS systems with the Avid NEXIS FS Foundation license (embedded System Director) 165 active in a configuration with the Avid NEXIS FS Extended license (and a System Director Appliance) 330 active in a configuration the Avid NEXIS FS Advanced license (and a System Director Appliance) 24 active (30 connected) in Avid NEXIS PRO
Files and Folders	<ul style="list-style-type: none"> 8 million on Avid NEXIS E2 and Avid NEXIS E4 3 million on Avid NEXIS PRO 20 million on any configuration with a System Director Appliance

Cloud Limits

The following table lists the system configuration limits for Avid NEXIS | Cloud Storage systems in the v2018 release stream.

Item	Limit
Media Packs per shared-storage system	One Media Pack (virtualized) with 500TB capacity
Storage Groups	One Storage Group (virtualized)
Workspaces	3072
Users	5640
User Groups	1028 (a user can be in 15 groups)
Connected Clients	330
Files and Folders	20 million

System Performance (On-Premise)

The nominal bandwidth rating for all-read workflows is 400MB/sec per Media Pack bound with the Scale-Out Performance setting regardless of protection type, and 600MB/sec per Media Pack bound with the High Performance setting. The actual write bandwidth depends on protection type. Aggregate bandwidth is therefore a function of protection type and proportion of reads to writes in the workflow.

The following table provides details on aggregate bandwidth by protection scheme and workflow proportion per Media Pack. To calculate the total performance of an Avid NEXIS system, multiply these figures by the number of Media Packs in the Storage Group. For design guidance a typical workflow is 80% reads and 20% writes.

Aggregate Throughput per Media Pack with Scale-Out Performance Bind Setting (MBytes/Sec)

Read %	Write %	Workspace Protection				
		No Protection	One Disk	Two Disk	One-Disk + Mirroring	Two Disk + Mirroring
100%	0%	400	400	400	400	400
90%	10%	400	396	392	378	376
80%	20%	400	392	384	356	352
70%	30%	400	388	376	334	328
60%	40%	400	384	368	312	304
50%	50%	400	380	360	290	280
Usable Storage		100%	89%	80%	44%	40%

Aggregate Throughput per Media Pack with High Performance Bind Setting (MBytes/Sec) Note: Media Mirroring is not supported in High Performance Storage Groups.

Read %	Write %	Workspace Protection		
		No Protection	One Disk	Two Disk
100%	0%	600	600	600
90%	10%	600	594	588
80%	20%	600	588	576
70%	30%	600	582	564
60%	40%	600	576	552
50%	50%	600	570	540
Usable Storage		100%	89%	80%



Linux 10GbE clients can experience lower throughput than Microsoft® Windows® and macOS X® clients against both Avid NEXIS | PRO and Avid NEXIS Enterprise Engines.

Aggregate Throughput per Media Pack with SSD Performance Bind Setting (MBytes/Sec)**Note: Media Mirroring is not supported in SSD Performance Storage Groups.**

Read %	Write %	Workspace Protection		
		No Protection	One Disk	Two Disk
100%	0%	3000	3000	3000
90%	10%	2900	3000	2860
80%	20%	2800	2760	2720
70%	30%	2700	2640	2580
60%	40%	2600	2520	2440
50%	50%	2500	2400	2300
40%	60%	2400	2280	2160
30%	70%	2300	2160	2020
20%	80%	2200	2040	1880
10%	90%	2100	1920	1740
0%	100%	2000	1800	1600
Usable Storage		100%	89%	80%

Drive Rebuilds and System Performance

When a drive in a Media Pack fails, the data from that drive is rebuilt from the other drives in that Media Pack, and involves only those drives. During a rebuild, the Media Pack's performance rating drops by the rating of one drive, or 40MB/sec (for Scale-Out Performance) or 60MB/sec (for High Performance).

With no I/O on the system, the fastest a drive can be rebuilt is 40MB/sec (for Scale-Out Performance) or 60MB/sec (for High Performance). On a Media Pack that is under full load (at complete bandwidth capacity), the minimum repair rate is 512KB/s. As the drive is rebuilt it begins contributing to the overall Media Pack performance rate for both reads and writes, so during the rebuild, the rate of 40MB/sec or 60MB/sec gradually decreases.

Performance Type	Media Pack Size (Drive Size)	Rebuild Time for One Drive (Approx.)
Scale-Out	100TB (10TB)	70 hours
	60TB (6TB)	42 hours
	20TB (2TB)	14 hours
High Performance	100TB (10TB)	50 hours
	60TB (6TB)	30 hours
	20TB (2TB)	10 hours
SSD Performance	9.6TB (960GB)	3 hours

Performance Type	Media Pack Size (Drive Size)	Rebuild Time for One Drive (Approx.)
	19.2TB (1920GB)	6 hours

The rebuild time increases with client load, and decreases as less data remains to be rebuilt.

Workspaces with One-Disk Protection are rebuilt before Workspaces with Two-Disk Protection, due to their higher vulnerability to a second drive failure.

Media Mirroring and System Performance

For mirrored Workspaces, Avid NEXIS clients can continue working through an Engine failure without interruption or needing to reconnect. To ensure all clients can work seamlessly through an Engine failure, provision the shared-storage system with enough bandwidth to account for an Engine being offline.

Hardware and Software Requirements

To meet the stringent needs of media applications the Avid NEXIS family of storage solutions is built using patented intellectual property in Avid NEXIS software running on Avid NEXIS hardware. Avid tests and qualifies configurations of Avid NEXIS software deployed on Avid NEXIS hardware. The Avid NEXIS System Director is designed to allow the binding of Avid NEXIS *only*. Avid has not published its file system specifications, protocols, or file system APIs used among the components of the file system (Avid NEXIS System Director, Avid NEXIS client, Avid NEXIS expansion engines) and these are subject to change without notice. Therefore, any connection of third party storage as part of an Avid NEXIS file system is not a licensed, approved or supported configuration.




Avid NEXIS | Cloud Storage does not support third-party editing clients.

The full compatibility matrix of Avid editors and hardware is available on the Avid support site at the following URL: http://avid.force.com/pkb/articles/en_US/compatibility/Avid-Video-Compatibility-Charts

The following table lists the compatibility between Avid NEXIS and editors from vendors other than Avid:

Qualified Third-Party Editing Clients on On-Premise Avid NEXIS Workspaces

Software	Version
Apple Final Cut Pro X (see “Final Cut Pro X Software” on page 26)	10.4.2 and higher  <i>As of Final Cut Pro X 10.4, you can store library files on Avid NEXIS instead of on local drives.</i>
Adobe Premiere Creative Cloud	Premiere Pro 2018 (v12.1.1) and higher
Blackmagic Design DaVinci Resolve	14.3 and higher
Grass Valley EDIUS Pro	9 and higher

Supported Client Operating Systems

The following table lists the currently supported client operating systems with on-premise Avid NEXIS. All of the listed client operating systems support single or dual 10 Gb Ethernet network interface cards.



Avid NEXIS | Cloud Storage supports only Windows and Linux clients.

Supported Client Operating Systems and Updates

Operating System	Version and Notes
macOS Mojave (64 bit kernel)	10.14 or higher with latest updates
macOS High Sierra (64 bit kernel)	10.13 or higher with latest updates
macOS Sierra (64 bit kernel)	10.12.2 or higher with latest updates
CentOS Linux	7.4, kernel version 3.10.0-693 7.5, kernel version 3.10.0-862
Red Hat Linux	6.5, kernel versions 2.6.32-431 and 2.6.32-696
Windows 10	Latest Updates Defer automatic driver updates; see “Preventing Windows 10 Automatic Driver Updates” on page 19
Windows 8.1	Latest Updates
Windows 7 (64 bit)	Latest Service Pack and see “Installing Avid NEXIS Client Software on Windows 7 and Windows Server 2008 R2” on page 18
Windows Server 2016	Latest Service Pack
Windows Server 2012 R1 and R2	Latest Service Pack
Windows Server 2008 R2	Latest Service Pack
Windows Storage Server 2008 R2 (64 bit)	Latest Service Pack and see “Installing Avid NEXIS Client Software on Windows 7 and Windows Server 2008 R2” on page 18

Installing Avid NEXIS Client Software on Windows 7 and Windows Server 2008 R2

The Avid NEXIS Client driver for Windows uses an SHA-2 certificate. On Windows 7 and Windows Server 2008 R2 clients, the Avid NEXIS Client software will install, but the Client Manager will not see any Avid NEXIS or ISIS systems. Make sure Windows Updates are enabled, or install Microsoft Hotfix KB3033929, which allows applications with an SHA-2 certificate to run.

For more information, see <https://www.microsoft.com/en-us/download/details.aspx?id=46148>

Upgrading Avid NEXIS Client Software on Linux

For information on upgrading Avid NEXIS Client software on a Linux client, see the Avid NEXIS Client Guide and this link: [Upgrading Linux Clients from a bin File on a MediaCentral Server](#).

Supported Browsers in an Avid NEXIS On-Premise Environment

The following are the minimum browser versions qualified for the current Avid NEXIS release stream. These browsers were qualified with the client operating systems supported in the current release.



When installing Avid NEXIS software on a new Engine, Avid recommends using the Google Chrome or Mozilla Firefox browser.

Supported Client Browser per Operating System

Operating System	Minimum Browser Version
Windows	Microsoft Edge Mozilla Firefox Google Chrome
macOS	Apple Safari Mozilla Firefox Google Chrome
Red Hat Enterprise Linux (RHEL), CentOS Linux	Mozilla Firefox (see “Known Issues” on page 22)

Windows 10 Updates Might Prevent Client Manager from Connecting to Systems

After you update a Windows 10 client using certain Windows Updates the Client Manager might not display or be able to connect to any Avid NEXIS systems. If this happens, close and quit the Client Manager, then uninstall and reinstall the Avid NEXIS client software on the system.

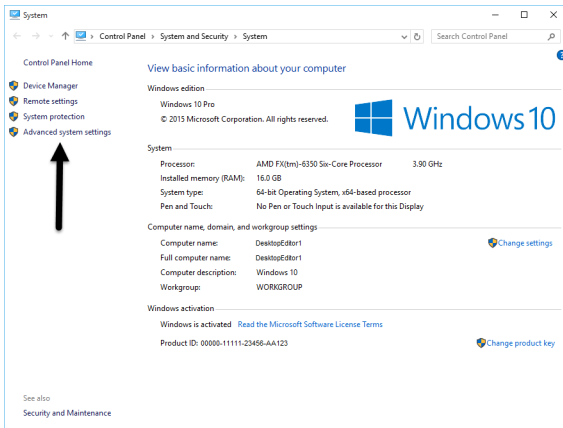
The Windows Updates causing this problem are:

- Windows 10 KB3176495 (OS Build 14393.51)
- Windows Creators Update Version 1703 (OS Build 15063.138 or Insider Preview Build 16299)
- Windows Fall Creators Update Version 1709 (OS Build number 10.0.16299)
- Windows 10 Version 1803
- Definition Update for Windows Defender Antivirus KB2267602 (Definition 1.267.836.0)

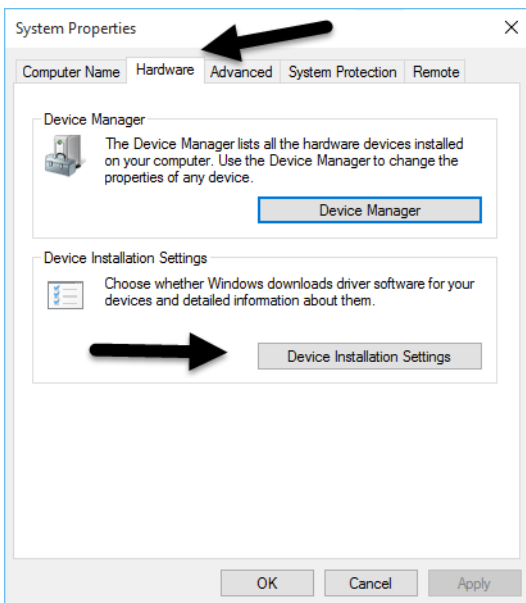
Preventing Windows 10 Automatic Driver Updates

On client systems running Windows 10, automatic Windows driver updates can remove critical NIC driver settings needed for the correct functioning of the Avid Client. To prevent disruption of clients running Windows 10 (Professional and Enterprise), you can defer automatic driver updates as follows:

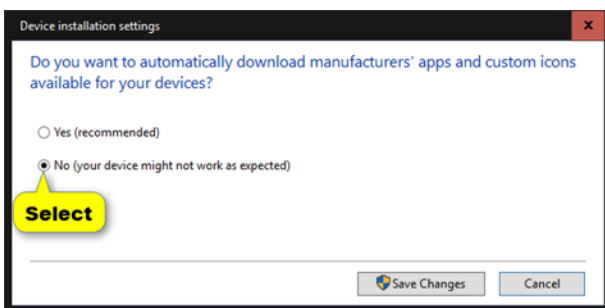
1. Right-click the “This PC” icon (formerly called “This Computer”).
2. Select Properties.
3. Select Advanced System Settings.



4. Click the Hardware tab, then click Device Installation Settings.



5. Select the option “No” to prevent downloading apps and icons automatically.



6. Click Save Changes.

Support for Symantec™ Endpoint Protection

Symantec Endpoint Protection v14 has been qualified on ISIS and Avid NEXIS (version 7.2 and higher) clients in an Interplay environment.



Do not install Symantec on the Avid NEXIS system, and do not scan network drives from an ISIS or Avid NEXIS client. For more information, see *Using Antivirus Software in an Interplay Production or Interplay Central Environment*.

ATTO® ThunderLink™ 10 GbE and 40 GbE Adapters for Mac

Avid NEXIS v2018.5 and higher supports using several ATTO ThunderLink adapters for Mac clients. See the *Avid NEXIS Network and Switch Guide* for details.

Get the latest ATTO driver from their website. Install the appropriate driver for your operating system. Use all the default values and settings.



On macOS 10.13 (High Sierra) or higher clients, you might need to unblock ATTO from the Security & Privacy preferences in the System Preferences menu.

For Windows clients using ATTO 10GbE adapters, see “[Intel® Adapters and Drivers](#)” on page 21.

Myricom® Driver for Mac OS

The Avid NEXIS kit includes a Myricom driver named myri10ge-1.3.5avid-1500-macosx.dmg for Mac clients to enable 10Gb connections. Install the driver from the Drivers\Avid NEXIS Client\Myricom folder in the Avid NEXIS software kit.



If using a 10GbE Myricom connection to Avid NEXIS, MacOS 10.14 is not supported. Either continue to use an older MacOS version (10.12 or 10.13), or use a supported 10GbE connection, such as ATTO Thunderlink or Sonnet Solo™ 10G (copper only).



If using VMWare on Windows clients, use the 10GbE drivers that come with the Windows OS, not the Myricom driver.



On macOS 10.13 (High Sierra) clients, you might need to unblock Myricom from the Security & Privacy preferences in the System Preferences menu.

Intel® Adapters and Drivers

See the Avid NEXIS Network and Switch Guide for supported Intel (and Intel-based ATTO) NICs.

VMWare ESXi™

The Avid NEXIS v2018.5 Client is supported with VMWare ESXi v6.0.0 (Update 1) using a VMXNET3 adapter with the Mellanox ConnectX-3 adapter and the Mellanox ESX OFED Driver version 1.9.10.2 or later.

VMWare on Windows

To use VMWare on Windows clients, use the 10GbE drivers that come with the Windows OS, not the Myricom drivers. The Avid NEXIS Client software no longer changes the speed of the VMWare virtual NIC to 1 Gb.

Qualified and Approved Avid NEXIS Switches

For a list of the current qualified and approved switches for use in the Avid NEXIS Production Network (APN), see the *Avid NEXIS Network and Switch Guide* on the [Avid NEXIS Documentation KB page](#).

Known Issues

The following are known issues with Avid NEXIS software or third-party vendors.

Avid NEXIS System Issues

The following issues relate to the Avid NEXIS system (including hardware) and Management Console.

- New HP® workstations (for Media Composer) are shipped with HP Velocity preinstalled. However, the LiveQoS® filter driver installed by HP Velocity causes Media Composer errors such as delayed write failures and unsaved project settings.

Workaround: On HP workstations with HP Velocity, disable the LiveQoS filter driver on the NICs used for Avid NEXIS connections.

- On systems running Red Hat 6.5, Firefox browser version 17.0.10 cannot connect to the Management Console. Firefox version 17.0.10 is the highest version supported on Red Hat 6.5. Try using an older Firefox version.
- When services fail over from one controller to the other in a system with redundant controllers, no information is displayed in the Management Console System Status History or in the system Logs about the resource migration (on Avid NEXIS versions v18.4 and earlier).
- When looking at switch statistics for the Dell N2024, Dell N3024, and NETGEAR XS712T, you might see the OutDiscard counter (on Dell switches) or the Transmit Packets Discarded counter (on the NETGEAR switch) incrementing. This is acceptable as long as the rate of discards is no more than 1% of the total packets transmitted, or as long as workflows are not experiencing any dropped frames.

Avid NEXIS | Cloud Storage Issues

The following are known issues with Avid NEXIS | Cloud Storage.

- For Avid NEXIS | Cloud Storage systems that were commissioned with a proof-of-concept (pre-18.6.0) release, a manual configuration change may be necessary. On the Avid NEXIS server, if any file `/avid/mnt/storagemanagerX/uServerX.conf` (where X is the MP index: 0, 1, 2, et cetera) includes mention of "UseIPAddr2=", you need to manually edit the file and delete that line. In some cases, the public IP address of the server may be set in this parameter, which may result in write failures by Avid NEXIS clients. This issue affects only Cloud-based servers whose upgrade path (commissioning) began with version 18.5.0 or earlier. Avid NEXIS servers commissioned with 18.6.0 (inclusive) and later are not subject to the problem.

Data Migration Utility Issues

The following are known issues with the Avid NEXIS Data Migration Utility, introduced in Avid NEXIS version 2018.9.

- During a migration, if either the source or destination system is disconnected from within the Client manager interface, the migration is interrupted and fails.

Workaround: Do not disconnect from systems in the Client Manager while a migration is occurring.

Client Issues

The following are known issues with the Avid NEXIS client software. When a workaround exists, it appears in the paragraph directly following the issue description.

- When attempting to install tools downloaded from the Management Console (LDAP Sync Tool, File Gateway, and the Avid NEXIS Toolbox) onto a Windows system, you might see a message that the file is considered unsafe because Windows cannot read the publisher certificate from Avid.

Workaround: You can safely click “Run anyway” to install the tool or utility.

- If the Client Manager is connected to an Avid NEXIS system with dual controllers and the System Director service has failed over to the second controller, the Management Console launch button in the Client Manager does not redirect to the new System Director and cannot successfully open the Management Console.

Workaround: To launch the Management Console for an Avid NEXIS system, either open a browser and enter its IP address, or add the IP address of the redundant controller to the Remote Hosts list in the Client Manager.

- macOS 10.13 and higher has enhanced security. By default, third-party kernel extensions that were not previously installed are denied. If you are installing the Avid NEXIS client on a macOS 10.13 or higher system for the first time, during the installation process, watch for the System Extension Blocked alert, and click OK to allow the Avid NEXIS client installer to complete. See the Apple Technical Note [TN2459](#).

Workaround: To see if anything was denied during installation and allow it, do the following:

1. As Administrator, open System Preferences.
2. Click Security and Privacy.
3. Click the General tab.
4. Click the lock button to make changes.
5. See if any applications or drivers are listed in the dialog box as having been denied. If so, click Allow apps downloaded from the App Store and identified developers.
6. Close the System Preferences window.

- On a client with multiple NICs, all network paths from the client to a particular Avid ISIS or Avid NEXIS must be via NICs with the same speed.
- Do not use a computer running macOS Sierra to install Avid NEXIS software on a new Engine or System Director Appliance.
- If the Avid NEXIS Client software is installed accidentally on OS X 8.5 (or any other unsupported OS X version), running the uninstaller does not work.

Workaround: Use AppCleaner (a free download) to uninstall the Avid NEXIS v6.0 Client software.

1. Download AppCleaner from: <http://www.freemacsoft.net/appcleaner/>
2. Follow the instructions for removing an application (in this case, Avid NEXIS v6.0 Client).
3. Restart the Mac.

- On Mac Pro 5,1 using a 2 x 1Gb connection to the Avid NEXIS system, you might not receive expected data rates.
- During Media Pack rebuilds the Engine performance might not reach the full Engine rating.
- If one workspace in Client Manager is mounted by Mapping a Network drive in Windows, when you unmount the workspace and then mount a different workspace in Client Manager manually using the same drive letter, Windows Explorer displays the previous workspace name instead of the new workspace name.
- The estimated amount of space available (usually measured in an amount of time at a particular resolution) might differ between what Avid NEXIS calculates and what the Avid editing system calculates. Avid NEXIS accurately reports the amount of space available for file storage. The Avid editing application accounts for overhead in formatting of the media and is more conservative in reporting how much space is available.
- The Macintosh Finder might display the Avid ISIS or Avid NEXIS folder contents incorrectly, such as the contents of folders containing items whose name includes a pound sign (#) followed by numeric characters. For example, “project # 12” might be erroneously displayed with some items duplicated and some items missing.

Workaround: Avid recommends avoiding the use of names that include a pound sign (#) followed by numeric characters.

- The Path Diagnostics customized setting for Posix tests does not work correctly on the Macintosh clients.

Workaround: Use the default option to automatically select the File Access Method instead.

File Gateway Issues

The following are known issues with the Avid NEXIS File Gateway software.

- After using the Configuration Editor to create a CIFS share, it is possible to open the network drive mounted by the Configuration Editor and delete all the directories (Workspaces) in the PartitionRoot folder. However, the Workspaces are not removed from view in the Management Console (they are not deleted from the perspective of the Avid NEXIS system, and no logs reflect the deletions). Deleting a Workspace by any method deletes all the data in the Workspace. Unless your Workspaces are backed up separately, there is no way to recover them.

For best results, do not delete directories (Workspaces) from the mount points. Always (and only) delete Workspaces using the Management Console.

- On Red Hat Linux 6.5 clients, copy and paste operations done within Avid NEXIS Workspaces using the Desktop's graphical File Browser return errors about insufficient space. However, terminal (command line) operations work.

Workaround: If you need the ability to drag and drop (copy/paste) into Avid NEXIS Workspaces using the File Browser, do the following:

To support File Browser Copy/Paste operations:

1. Add your user name to the `fuse` group with the following command:


```
sudo usermod -a -G fuse <username>
```
2. Log out, then log back in to start a new session with the new group membership credentials.
3. Open the File Browser.
4. From the File menu, select Connect to Server.
5. In the Service type drop-down list, choose Windows share.
6. Enter the following information:
 - a. In the Server field, enter the File Gateway server name.
 - b. In the Share field, enter the Workspace name.
 - c. In the User Name field, enter the user name.
7. Click Connect.
8. Enter the Avid user's password.
9. Click Connect again.

This workaround allows copy/paste operations within the CIFS shares using the Desktop's graphical File Browser. You can also access the Workspace in a terminal window using the full path to the Workspace name; for example: `/home/user_name/.gvfs/CIFS_share_name`.

Special Notes

This section contains important information about the Avid NEXIS environment.

User Permissions

A user account with Administrator privileges is required to install the Avid NEXIS client software on your workstations.

LDAP Requires ASCII User Names and Passwords

The Avid implementation of LDAP (Lightweight Directory Access Protocol) requires that you restrict LDAP user names and passwords to ASCII. The LDAP/Avid NEXIS Account Synchronizer searches for groups and their users on an LDAP server and synchronizes (reconciles) user and group accounts by adding or removing users and/or groups from Avid NEXIS.

Fast User Switching Not Supported

Fast User Switching is a Windows feature that allows multiple user accounts to log on to a computer simultaneously. Fast User Switching is enabled by default in Windows computers. The Fast User Switching feature and multiple concurrent logged on user modes are not supported in the Avid NEXIS environment. The Avid NEXIS software does not distinguish the different drive letters mapped to the same workspaces on the same computer. Conflicts appear in the following two scenarios:

- When one user maps a drive letter to one workspace and another user maps the same drive letter to a different workspace
- When one user maps a workspace to one drive letter, and another user maps a different drive letter for the same workspace.

Macintosh Resource Files and Windows Clients

If Macintosh files are copied to a Windows system with the Macintosh resource fork files, the resource fork files cannot be copied to mounted workspaces from a Windows client. Avid NEXIS does not accept Macintosh resource fork files from Windows clients. Appropriate “properties” error messages are displayed if this is attempted.

Adobe Premiere Pro

Avid has tested Adobe Premiere Pro as a client in Avid NEXIS environments.

Adobe Premiere clients follow the same guidelines for Client Manager Preference settings as Avid editors. The default Client Type setting is set to Medium Resolution (limited to resolutions that draw 16 MB/s or less). Use the High Resolution setting when working with High Definition media (resolutions that draw higher than 16 MB/s). There are some HD resolutions that draw less than 16 MB/s for a single stream, but you should still use the High Resolution setting (for example, XDCAMHD 50). For more information, see the Knowledge Base at www.avid.com/support.

Final Cut Pro X Software

Avid has tested Final Cut Pro X as a client in the Avid NEXIS environments. There is no Avid restriction on the QuickTime version. Use the QuickTime version recommended in the Final Cut Pro application. Avid NEXIS supports Final Cut Pro X Macintosh clients in Switched Media Network (Layer 2), Routed Media Network (Layer 3), and Non-media Optimized Network (Mixed Layer 2 and 3) environments.

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