

AVID LEARNING SERVICES

Certification Exam Study Guide



Avid Certified Support Representative Avid NEXIS

Exam	ACSR Avid NEXIS
Exam Code	NX423
Type of Exam	Multiple choice
Certification Level	Avid Certified Support Representative (ACSR)
Duration	60 minutes
No. of Questions	50
Passing Score	80% (40 correct answers)
Exam Language	English

Target Audience

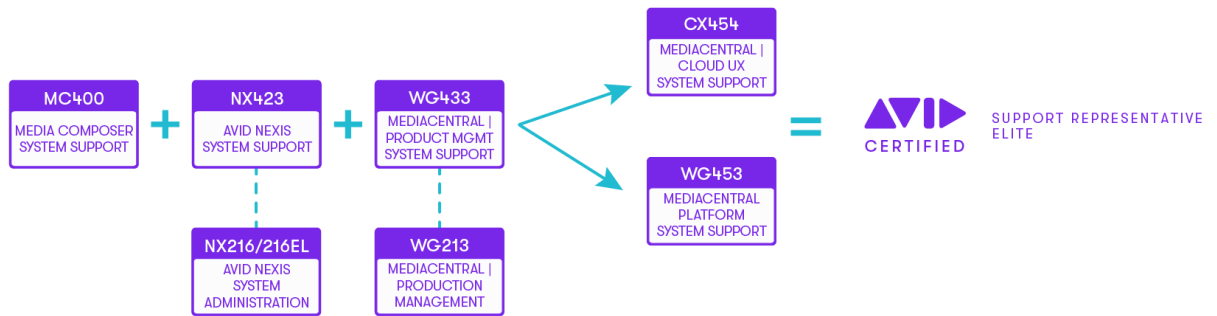
Technical support staff, technical managers, installers, advanced administrators and others who need to install, maintain, or support Avid NEXIS shared storage systems.

Exam Preparation

Successful candidates will have extensive Avid NEXIS experience. Although course attendance is not required to take the certification exam, Avid highly recommends candidates attend the following course

- [NX423 ACSR Avid NEXIS System Support](#)

Certification



The certification path provides a defined process by which individuals can prepare for the certification exam and, by extension, the role of ACSR Avid NEXIS. This path is designed to ensure that candidates have sufficient knowledge of and experience with the client systems that will be connected to the Avid NEXIS system they will be supporting.

Completing the recommended course(s), coupled with hands-on experience will help you build the skills and competencies need to pass the exam. Course attendance is optional, however. If you feel you have considerable, real-world experience implementing, installing, administering, and troubleshooting Avid NEXIS systems, then you may register and take the exam at any time.

Next Steps: Once you achieve ACSR Avid NEXIS certification, consider taking the ACSR MediaCentral | Production Management System Support (WG433) course. This is the next step toward the ACSR Elite certification.

Certification Topics

The following topics are included in the certification exam. You should be well-versed in the technical and operational details of the following:

1. NEXIS Overview
 - a. Explain the NEXIS Architecture including:
 - i. Filesystem
 - ii. Media Pack
 - iii. Storage Group
 - iv. Workspace
 - b. Explain the intercommunication between the System Director, Media Pack, and Client
 - c. Describe the two types of NEXIS Filesystem
 - d. Describe the various client network locations
2. NEXIS Hardware
 - a. System Director
 - i. Describe the physical connections
 - ii. Explain the steps of the software install
 - iii. Describe System Director configuration
 - b. NEXIS Engines
 - i. Describe Engine models
 - ii. Explain Storage Controllers
 - iii. Identify power supply considerations
 - c. Explain NEXIS cabling
 - i. Infrastructure fiber
 - ii. Infrastructure copper
 - iii. Client copper
 - iv. Client fiber
 - d. Calculate NEXIS system bandwidth
 - e. Describe the use of third-party switches
 - i. Approved models
 - ii. Advantages
3. NEXIS software
 - a. Software install
 - b. NEXIS Management Console
 - c. NEXIS Agent
 - d. Client Manager
 - e. Benchmark Utility/Path Diag
4. Explain the differences between NEXIS|PRO and NEXIS|Enterprise
 - a. Hardware
 - b. Software

5. Explain the steps of a NEXIS upgrade
 - a. System Director
 - b. NEXIS Engines
 - c. Clients

6. NEXIS Clients
 - a. Hardware platforms
 - b. Supported operating systems
 - c. Network interface cards
 - i. 1 Gb
 - ii. 10 Gb
 - d. Calculate client bandwidth based on connection type
 - e. Bandwidth testing
 - f. Third party software interaction

7. NEXIS Troubleshooting
 - a. Drive replacement
 - b. Redistribution
 - c. Network Degraded
 - d. Rectifying Files
 - e. Client connectivity problems

8. Basic Networking
Demonstrate understanding of basic networking concepts and tools
 - a. Subnet Mask
 - b. Gateway
 - c. Ping
 - d. ARP
 - e. Link Aggregation
 - f. DNS
 - g. Windows Firewall

Practice Questions

The following questions are not part of the current NX423 exam but are similar to the questions likely to be asked.

1. Where can you find information to identify the IP address of a device sending bad packets to a Media Pack
 - a. **“Network Tools” in the NEXIS Management Console**
 - b. The NEXIS Client Manager
 - c. **“Network Statistics” in the NEXIS Agent**
 - d. **“Network Statistics” in the Switch Blade Agent**
 - e. The NEXIS Network Utility
2. Which tool is used to set the IP addresses of a NEXIS engine?
 - a. The NEXIS Agent
 - b. The System Director Agent
 - c. The Network Configuration Tool
 - d. The NEXIS Management Console
 - e. The NEXIS Software installer
3. True or False: NEXIS clients must always be running the same software version as the System Director
 - a. True
 - b. False
4. True or False: NEXIS requires DNS for proper operation
 - a. True
 - b. False
5. Which of the following is NOT required to configure a second Storage Controller?
 - a. A second IP address
 - b. A second NEXIS Engine
 - c. A cable interconnecting the two Storage Controllers
 - d. A 10 Gb connection for each NEXIS Storage Controller to the switch
 - e. None of the above
6. Which condition will result from incorrect Client Manager Windows Firewall settings?
 - a. The client will not be able to connect to the NEXIS
 - b. The client will connect to the NEXIS but cannot mount workspaces
 - c. The client will be limited to 50% bandwidth
 - d. The client will be able to write to NEXIS but not read from the NEXIS
 - e. The client will be able to read from NEXIS but not write to the NEXIS

7. Which tool can be used to test the bandwidth of a Linux client?
 - a. PathDiag
 - b. IO PerfMeter
 - c. NEXIS Disk Tester
 - d. Benchmark Utility
 - e. None, Linux clients are not supported

8. What is the approximate redistribution period when a NEXIS drive is removed from its slot?
 - a. 30 MB/s
 - b. 1 hour for each terabyte of data
 - c. 1 hour for 360 GB of data
 - d. Removing a drive from its slot does not cause redistribution
 - e. Redistribution is not supported on Avid NEXIS

9. Which of the following indicates a failure of a passive Storage Controller?
 - a. Rectifying files
 - b. Metadata Error
 - c. Server Performance Degraded
 - d. Memory Error
 - e. Storage Controllers load balance, there is no passive controller

10. True or false: Avid recommends that Storage Groups contain an odd number of Media Packs
 - a. True
 - b. False

11. What is a Media Pack?
 - a. A NEXIS Engine which has been bound to the filesystem
 - b. A drive which has been bound to the filesystem
 - c. Each group of 40 drives in an EXIS | E5 Engine
 - d. Each group of 10 drives in a NEXIS Engine
 - e. None of the above

12. Use of which of the following NEXIS Tools is required when requesting replacement hardware?
 - a. The NEXIS Agent
 - b. The Log Aggregator
 - c. The LDAP Sync Tool
 - d. Client Agent
 - e. The NEXIS Profiler

13. Which of the following NEXIS components would you upgrade first?
 - a. System Director Appliance
 - b. Upper Storage Controller
 - c. Lower Storage Controller
 - d. Drives None of the above

14. Which action should be performed first after inserting a replacement drive into the NEXIS Engine?
- Bind to filesystem
 - Add to Storage Group
 - Check firmware version
 - Wait for Redistribution to complete
 - None of the above
15. What does a status of Network Degraded indicate?
- A Media Pack is receiving bad packets
 - The NEXIS network is down
 - NEXIS Engine failure
 - Third party switch failure
 - A or B
16. Link Aggregation is required for:
- A NEXIS system with more than 12 Media Packs
 - A NEXIS system with more than 8 Media Packs
 - A NEXIS system with more than 4 Media Packs
 - A NEXIS Engine with 2 Storage Controllers
 - Dual network connections from a Storage Controller
17. Which of the following NEXIS supported third-party switches can support more than 8 NEXIS Engines?
- 2 stacked Dell N2024 switches
 - 2 stacked Dell N3024 switches
 - 2 cascaded Cisco 4948E switches
 - 1 Dell4048 switch
 - None of the above
18. Under what circumstances is it necessary to add an Intel i350 card to an HP Z440 for NEXIS connectivity?
- Always
 - When dual connecting to the NEXIS network
 - When connecting as a Routed Client
 - For all Non-Media Optimized clients
 - Never
19. **When must a Macintosh client's MTU be set?**
- Always
 - When connecting via a 10Gb device
 - When dual connecting to the NEXIS network
 - For all Routed Clients
 - For all Non-Media Optimized clients

20. Which condition might make no Media Packs show up?

- a. Invalid IP address
- b. Storage Controller failure
- c. Missing System Director filesystem
- d. Third party switch failure
- e. All of the above**

Answers to Practice Questions

Use the answers below to check your knowledge on the practice questions.

1. C
2. A
3. False
4. False
5. B
6. D
7. D
8. D
9. E
10. False
11. A
12. B
13. A
14. E
15. E
16. E
17. D
18. B
19. B
20. E