



Storage Area Network (SAN) Checklist for Sharing Peripherals Across the Network Security Technical Implementation Guide Version 1 Release 1.3

19 MAY 2006

Developed by DISA for the DOD

Database Reference Number:		CAT I:
Database entered by:	Date:	CAT II:
Technical Q/A by:	Date:	CAT III:
Final Q/A by:	Date:	CAT IV:
		Total:

UNCLASSIFIED UNTIL FILLED IN

CIRCLE ONE

FOR OFFICIAL USE ONLY (mark each page)

CONFIDENTIAL and SECRET (mark each page and each finding)

Classification is based on classification of system reviewed:

Unclassified System = FOUO Checklist Confidential System = CONFIDENTIAL Checklist Secret System = SECRET Checklist Top Secret System = SECRET Checklist

Site Name	
Address	
Phone	

Position	Name	Phone Number	Email	Area of Responsibility
IAM				
IAO				

Summary of Changes

19 MAY 2006 – Modified various vulnerability checks and fixes.

14 April 2006 – Added VMS 6.0 review procedures.

14 April 2006 – Added VMS 6.0 Vulnerability Key to each checklist item.

VMS 6.0 SPAN SAN Review Procedures

The following is an outline of the process for performing a SPAN SAN review and entering the results using VMS 6.0.

- 1. Ensure that asset is registered in VMS under the correct organization. The asset will have the posture of Computing → Network → Data Network → SANS → SANS Switch or SANS Device depending on the asset type. If the asset has an identifiable operating system the posture will also include the appropriate OS.
- 2. If the asset is registered skip to Step 4 otherwise you must register the asset. You will find the appropriate selection criteria by selecting Asset Finding Maint → Assets/Findings → By Location → your location → Computing and then click on the file icon to create the asset.
- 3. On the General tab fill out the Host Name and appropriate values for the other fields on this tab.
- 4. Determine the enclave that the asset is within.
- 5. If the asset is in the correct enclave, skip to step 9.
- 6. Enter the enclave on the Systems/Enclaves tab of the asset creation / or update screen.
- 7. For registered enclaves, choose the enclave.
- 8. If the enclave is not present, contact your team lead or your IAM and report that the enclave is not present.
 - NOTE: Every effort should be made when registering or updating an asset to include the asset within an enclave.
- 9. Since at this time there is no scripted review process that automatically generates an import file, only the fields required by VMS need to be filled in unless there are other elements in the asset posture that require specific fields for their scripts. Any additional fields may be filed in for documentation purposes. The more documentation the better for identifying the system correctly.
- 10. Print the Checklist and perform a manual review for the SAN component,
- 11. Manually key results into VMS.
 - Reviewers: By navigating to the pertinent visit, selecting the asset, and expanding the appropriate element for this review.
 - Systems Administrators: by navigating to the your location, selecting the asset and expanding the appropriate element for review. If the asset is not found in the visit, contact your Team Lead and have them enter the asset into the visit.

 The appropriate element will be SANS Switch or SANS Device depending upon
 - The appropriate element will be SANS Switch or SANS Device depending upon the assets posture.
- 12. Process any additional reviews required by additional elements within the asset posture.

19 MAY 2006

SAN03.001.00

V0006603 CAT I

Zoning is not used to protect the SAN.

3500.2 IA Control:	ECCD-2, ECCD-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1
Vulnerability	Zoning is not used to protect the SAN
Checks	
	SPAN SAN03.001.00
	The reviewer with the assistance of the IAO/NSO, verify that zoning is used to protect the SAN
Fixes	
	SPAN SAN03.001.00
	Develop a zone topography, from the topography create a plan to implement zoning, obtain CM approval of the plan and then, following the plan, reconfigure the SAN to support zoning.
OPI	EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN03.002.	00 V0006608 CAT II Hard zoning is not used to protect the SAN.
JANUS.002.	100 V000000 CAT II Hard 2011ing is not used to protect the OAN.
3500.2 IA Control:	ECCD-1, ECCD-2
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.3
Vulnerability	Hard zoning is not used to protect the SAN.
Checks	
	SPAN SAN03.002.00
	The reviewer, with the assistance of the IAO/NSO, will verify that hard zoning is used to protect the SAN.
Fixes	
	SPAN SAN03.002.00
	If zoning has not been implemented, develop a zone topography, from the topography create a plan to implement hard zoning, obtain CM approval of the plan and then, following the plan, reconfigure the SAN to support hard zoning.
	If zoning has been imple
OPE	EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	

SAN03.003.00

V0006605 CAT II

The default zone visibility is not set to "none"

8500.2 IA Control:	ECCD-2, ECCD-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1
Vulnerability	The default zone visibility setting is not set to "none".
Checks	
5	SPAN SAN03.003.00
	Reviewer with the assistance of the IAO/NSO, verify that the default zone visibility setting is set to "none" If this setting is not available mark this check as N/A.
Fixes	
\$	SPAN SAN03.003.00
	Locate all clients that have not been explicitly placed into a zone. Create a plan to explicitly place these clients into the correct zone(s) and after doing so the plan will include the modification of the default zone visibility setting to "none". Obta
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
. 10.001	
SAN03.004.0	00 V0006606 CAT III Hard zoning, using Port World Wide Names (PWWN)
SAN03.004. (8500.2 IA Control:	
SAN03.004.0 8500.2 IA Control: References:	ECCD-1, ECCD-2
SAN03.004.0 8500.2 IA Control: References:	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1
SAN03.004.(8500.2 IA Control: References: Vulnerability Checks	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1
SAN03.004.(8500.2 IA Control: References: Vulnerability Checks	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1 Hard zoning, using Port World Wide Names (PWWN), is not used to protect the SAN.
SAN03.004.(8500.2 IA Control: References: Vulnerability Checks	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1 Hard zoning, using Port World Wide Names (PWWN), is not used to protect the SAN. SPAN SAN03.004.00 The reviewer with the assistance of the IAO/NSO, verify that hard zoning, using Port World Wide Names (PWWN), is used to
SAN03.004.0 8500.2 IA Control: References: Vulnerability Checks	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1 Hard zoning, using Port World Wide Names (PWWN), is not used to protect the SAN. SPAN SAN03.004.00 The reviewer with the assistance of the IAO/NSO, verify that hard zoning, using Port World Wide Names (PWWN), is used to
SAN03.004.0 8500.2 IA Control: References: Vulnerability Checks	ECCD-1, ECCD-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1 Hard zoning, using Port World Wide Names (PWWN), is not used to protect the SAN. SPAN SAN03.004.00 The reviewer with the assistance of the IAO/NSO, verify that hard zoning, using Port World Wide Names (PWWN), is used to protect the SAN.
SAN03.004.0 8500.2 IA Control: References: Vulnerability Checks	SPAN SAN03.004.00 The reviewer with the assistance of the IAO/NSO, verify that hard zoning, using Port World Wide Names (PWWN), is used to protect the SAN. SPAN SAN03.004.00 The reviewer with the assistance of the IAO/NSO, verify that hard zoning, using Port World Wide Names (PWWN), is used to protect the SAN. SPAN SAN03.004.00 Develop a plan to migrate the SAN to Hard Zoning, obtain CM approval of the plan, and the implement the plan.

SAN03.005.00 V00

V0006607 CAT I

The zoning tables on all affected HBAs reset

8500.2 IA Control:	DCSS-2, DCSS-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.3.1.1
Vulnerability	The zoning tables on all affected HBAs are not reset (force a state change update) after making zoning changes.
Checks	
	SPAN SAN03.005.00
	The reviewer will interview the IAO/NSO to validate that the zoning tables on all affected HBAs are reset (force a state change update) after making zoning changes. This reset is a manual activity so the interview is to find that the IAO/NSO is aware of this requirement and does it.
Fixes	
\$	SPAN SAN03.005.00
	Develop and document a procedure to reset (force a state change update) all effected HBAs whenever SAN zoning configuration changes are made.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.001.0	00 V0006609 CAT III SAN devices not added to the site SSAA
SAN04.001.0 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA).
8500.2 IA Control: References:	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA).
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA).
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 The reviewer will interview the IAO/NSO to validate that SAN devices are added to the site System Security Authorization
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 The reviewer will interview the IAO/NSO to validate that SAN devices are added to the site System Security Authorization
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 The reviewer will interview the IAO/NSO to validate that SAN devices are added to the site System Security Authorization Agreement (SSAA).
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 The reviewer will interview the IAO/NSO to validate that SAN devices are added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 Update the SSAA following the SSAA review and acceptance procedures to include the SAN.
8500.2 IA Control: References: Vulnerability Checks	DCID-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 SAN devices are not added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 The reviewer will interview the IAO/NSO to validate that SAN devices are added to the site System Security Authorization Agreement (SSAA). SPAN SAN04.001.00 Update the SSAA following the SSAA review and acceptance procedures to include the SAN.

SAN04.002.00 V0006610 CAT II

Compliance with Network Infrastructure and Enclave

3500.2 IA Control	DCCS-2, DCCS-1
References	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
Vulnerability	The SANs are not compliant with overall network security architecture, appropriate enclave, and data center security requirements in the Network Infrastructure STIG and the Enclave STIG
Checks	·
	SPAN SAN04.002.00
	The reviewer will interview the IAO/NSO to validate that SANs are compliant with overall network security architecture, appropriate enclave, and data center security requirements in the Network Infrastructure STIG and the Enclave STIG
Fixes	
	SPAN SAN04.002.00
	Perform a self assessment with the Network Infrastructure checklist and the Enclave checklist or schedule a formal review with FSO.
OPI	EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes	
Notes	
SAN04.003. 3500.2 IA Control	, , , , , , , , , , , , , , , , , , ,
SAN04.003. B500.2 IA Control References	: VIVM-1
SAN04.003. B500.2 IA Control References	VIVM-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 All security related patches are not installed.
SAN04.003. B500.2 IA Control References Vulnerability	VIVM-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 All security related patches are not installed.
SAN04.003. B500.2 IA Control References Vulnerability	VIVM-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 All security related patches are not installed.
SAN04.003. B500.2 IA Control References Vulnerability	SPAN SAN04.003.00 The reviewer will, with the assistance of the IAO/NSO, verify that all security related patches are installed.
SAN04.003. 3500.2 IA Control References Vulnerability Checks	SPAN SAN04.003.00 The reviewer will, with the assistance of the IAO/NSO, verify that all security related patches are installed.
SAN04.003. 3500.2 IA Control References Vulnerability Checks	SPAN SAN04.003.00 The reviewer will, with the assistance of the IAO/NSO, verify that all security related patches are installed.
SAN04.003. 3500.2 IA Control References Vulnerability Checks	SPAN SAN04.003.00 The reviewer will, with the assistance of the IAO/NSO, verify that all security related patches are installed. SPAN SAN04.003.00 After verifying that the patches do not adversely impact the production SAN, create a plan for installing the patches on the SAN, obtain CM approval of the plan, and implement the plan installing the patches.

SAN04.004.00 V00

V0006619 CAT II

Component Compliance with applicable STIG

8500.2 IA Control:	DCCS-2, DCCS-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
Vulnerability	Prior to installing SAN components (servers, switches, and management stations) onto the DOD network infrastructure, components are not configured to meet the applicable STIG requirements.
Checks	
;	SPAN SAN04.004.00 The reviewer will interview the IAO/NSO and view VMS to verify that prior to installing SAN components (servers, switches, and management stations) onto the DOD network infrastructure, components are configured to meet the applicable STIG requirements.
Fixes	
;	SPAN SAN04.004.00 Perform a self assessment using the applicable checklists or scripts on any component device that has not been reviewed or request a formal review from FSO.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.005.0	00 V0006622 CAT II Servers and hosts OS STIG Requirements
	00 V0006622 CAT II Servers and hosts OS STIG Requirements DCCS-2, DCCS-1
8500.2 IA Control:	
8500.2 IA Control: References:	DCCS-2, DCCS-1
8500.2 IA Control: References:	DCCS-2, DCCS-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
8500.2 IA Control: References: Vulnerability Checks	DCCS-2, DCCS-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
8500.2 IA Control: References: Vulnerability Checks	DCCS-2, DCCS-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 Servers and other hosts are not compliant with applicable Operating System (OS) STIG requirements. SPAN SAN04.005.00 The reviewer will interview the IAO/NSO and view the VMS to verify that servers and other hosts are compliant with applicable
8500.2 IA Control: References: Vulnerability Checks	DCCS-2, DCCS-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 Servers and other hosts are not compliant with applicable Operating System (OS) STIG requirements. SPAN SAN04.005.00 The reviewer will interview the IAO/NSO and view the VMS to verify that servers and other hosts are compliant with applicable
8500.2 IA Control: References: Vulnerability Checks	DCCS-2, DCCS-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 Servers and other hosts are not compliant with applicable Operating System (OS) STIG requirements. SPAN SAN04.005.00 The reviewer will interview the IAO/NSO and view the VMS to verify that servers and other hosts are compliant with applicable Operating System (OS) STIG requirements.
8500.2 IA Control: References: Vulnerability Checks	SPAN SAN04.005.00 The reviewer will interview the IAO/NSO and view the VMS to verify that servers and other hosts are compliant with applicable Operating System (OS) STIG requirements. SPAN SAN04.005.00 The reviewer will interview the IAO/NSO and view the VMS to verify that servers and other hosts are compliant with applicable Operating System (OS) STIG requirements. SPAN SAN04.005.00 Perform a self assessment using the applicable OS checklists or scripts on any server or host in the SAN that has not been reviewer or request a formal review from FSO.

SAN04.006.00 V000

V0006623 CAT I

Anti-virus on servers and host.

8500.2 IA Control:	ECVP-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
Vulnerability	Vendor supported, DOD approved, anti-virus software is not installed and configured on all SAN servers in accordance with the applicable operating system STIG on SAN servers and management devices and kept up-to-date with the most recent virus definition
Checks	
\$	SPAN SAN04.006.00
	The reviewer will verify that vendor supported, DOD approved, anti-virus software is installed and configured on all SAN servers in accordance with the applicable operating system STIG on SAN servers and management devices and kept up-to-date with the most recent virus definition tables. If an OS review has reciently been completed verify that the anti-virus check was not a finding. Otherwise perform a manual check as described in the applicable OS checklist.
Fixes	
;	SPAN SAN04.006.00
	Install and correctly configure a DOD approved anti-virus.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
	NO MONOCON CATILL CAN Topology Drowing
SAN04.007.0	00 V0006628 CAT II SAN Topology Drawing
SAN04.007.0 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCHW-1
8500.2 IA Control: References:	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not
8500.2 IA Control: References: Vulnerability Checks	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not
8500.2 IA Control: References: Vulnerability Checks	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00 The reviewer will interview the IAO/NSO and view the drawings supplied to verify that a current drawing of the site's SAN
8500.2 IA Control: References: Vulnerability Checks	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00
8500.2 IA Control: References: Vulnerability Checks	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00 The reviewer will interview the IAO/NSO and view the drawings supplied to verify that a current drawing of the site's SAN
8500.2 IA Control: References: Vulnerability Checks	DCHW-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00 The reviewer will interview the IAO/NSO and view the drawings supplied to verify that a current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment.
8500.2 IA Control: References: Vulnerability Checks	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00 The reviewer will interview the IAO/NSO and view the drawings supplied to verify that a current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment. SPAN SAN04.007.00 Create drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment.
8500.2 IA Control: References: Vulnerability Checks	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4 A current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment is not being maintained. SPAN SA04.007.00 The reviewer will interview the IAO/NSO and view the drawings supplied to verify that a current drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment. SPAN SAN04.007.00 Create drawing of the site's SAN topology that includes all external and internal links, zones, and all interconnected equipment.

SAN04.008.00

V0006631 CAT II

Physical Access to SAN Network Devices

8500.2 IA Control:	PECF-1, PECF-2
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4
Vulnerability	All the network level devices interconnected to the SAN are not located in a secure room with limited access.
Checks	
5	SPAN SAN04.008.00
	The reviewer will interview the IAO/NSO and view the network level devices to verify whether they are located in a secure room with limited access.
Fixes	
5	SPAN SAN04.008.00
	Develop a plan to move the network level devices to a location/room where the can be physically secured in a manner appropriate to the classification level of the data the handle. Obtain CM approval of the plan and then implement the plan moving the devi
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.009.0	00 V0006632 CAT II SAN Fabric Switch User Accounts with Passwords
SAN04.009.0 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the
8500.2 IA Control: References:	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B Individual user accounts with passwords are not set up and maintained for the SAN fabric switch.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B Individual user accounts with passwords are not set up and maintained for the SAN fabric switch. SPAN SA04.009.00 The reviewer, with the assistance of the IAO/NSO, will verify that individual user accounts with passwords are set up and
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B Individual user accounts with passwords are not set up and maintained for the SAN fabric switch. SPAN SA04.009.00 The reviewer, with the assistance of the IAO/NSO, will verify that individual user accounts with passwords are set up and
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B Individual user accounts with passwords are not set up and maintained for the SAN fabric switch. SPAN SA04.009.00 The reviewer, with the assistance of the IAO/NSO, will verify that individual user accounts with passwords are set up and maintained for the SAN fabric switch.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1, Chairman of the Joint Chiefs of Staff Manual (CJCSM) 6510.01, "Defense-in-Depth: Information Assuran Appendix B Individual user accounts with passwords are not set up and maintained for the SAN fabric switch. SPAN SA04.009.00 The reviewer, with the assistance of the IAO/NSO, will verify that individual user accounts with passwords are set up and maintained for the SAN fabric switch. SPAN SA04.009.00 Develop a plan to reconfigure the SAN fabric switch to require user accounts and passwords. This plan also needs to include the creation and distribution of user accounts and passwords for each administrator who requires access to the SAN fabric switch.

SAN04.010.00 V0006

V0006633 CAT III

Sensitive Data in Transit Encryption

8500.2 IA Control:	ECNK-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1
Vulnerability	All fabric switches for SANs that process sensitive information are not configured to use a FIPS 140-1/2 validated algorithm to encrypt switch-to-switch communications.
Checks	
•	SPAN SAN04.010.00
	The reviewer will, with the assistance of the IAO/NSO, verify that all fabric switches are configured to use a FIPS 140-1/2 validated algorithm to encrypt switch-to-switch communications for SANs that process sensitive information.
Fixes	
;	SPAN SAN04.010.00
	Develop a plan to reconfigure the SAN fabric switches to use FIPS-140-1/2 validated algorithms to encrypt switch-to-switch communications for SANs that process sensitive information. Obtain CM approval for the plan and then implement the plan.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.011.0	00 V0006634 CAT III SAN Switch encryption and DOD PKI
	00 V0006634 CAT III SAN Switch encryption and DOD PKI IAIA-2, IAIA-1, ECNK-1
8500.2 IA Control:	••
8500.2 IA Control: References:	IAIA-2, IAIA-1, ECNK-1
8500.2 IA Control: References:	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information SPAN SAN04.011.00 The reviewer will, with the assistance of the IAO/NSO, verify that fabric switches are protected by encryption and DOD PKI and that the manufacturer's default keys are changed prior to attaching to the SAN Fabric for SANs processing sensitive information.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information SPAN SAN04.011.00 The reviewer will, with the assistance of the IAO/NSO, verify that fabric switches are protected by encryption and DOD PKI and that the manufacturer's default keys are changed prior to attaching to the SAN Fabric for SANs processing sensitive information.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information SPAN SAN04.011.00 The reviewer will, with the assistance of the IAO/NSO, verify that fabric switches are protected by encryption and DOD PKI and that the manufacturer's default keys are changed prior to attaching to the SAN Fabric for SANs processing sensitive information.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information SPAN SAN04.011.00 The reviewer will, with the assistance of the IAO/NSO, verify that fabric switches are protected by encryption and DOD PKI and that the manufacturer's default keys are changed prior to attaching to the SAN Fabric for SANs processing sensitive information. SPAN SAN04.011.00 Develop a plan to implement encryption, DOD PKI and change the manufacturers default keys. Obtain CM approval for the plan and then execute the plan.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1, ECNK-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 The fabric switches are not protected by encryption and DOD PKI and/or that the manufacturer's default keys have not been changed prior to attaching to the SAN Fabric for SANs processing sensitive information SPAN SAN04.011.00 The reviewer will, with the assistance of the IAO/NSO, verify that fabric switches are protected by encryption and DOD PKI and that the manufacturer's default keys are changed prior to attaching to the SAN Fabric for SANs processing sensitive information. SPAN SAN04.011.00 Develop a plan to implement encryption, DOD PKI and change the manufacturers default keys. Obtain CM approval for the plan and then execute the plan.

SAN04.012.00

V0006635 CAT II

SAN Network Management Ports Fabric Switch

3500.2 IA Control	DCBP-1
References	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1
Vulnerability	Network management ports on the SAN fabric switches except those needed to support the operational commitments of the sites are not disabled.
Checks	
	SPAN SAN04.012.00
	The reviewer will, with the assistance of the IAO/NSO, verify that all network management ports on the SAN fabric switches are disabled except those needed to support the operational commitments of the sites.
Fixes	
	SPAN SAN04.012.00
	Develop a plan to locate and disable all network management ports that are not required to support the operational commitments of the sites. Obtain CM approval of the plan and then execute the plan.
OPI	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes	
SAN04.013.	00 V0006636 CAT II SAN management out-of-band or direct connect
SAN04.013.	
3500.2 IA Control	•
3500.2 IA Control References	DCBP-1
3500.2 IA Control References	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method.
References Vulnerability	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method.
References Vulnerability	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method.
References Vulnerability	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method. SPAN SAN04.013.00 The reviewer will interview the IAO and view the SAN network drawings provided.
References Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method. SPAN SAN04.013.00 The reviewer will interview the IAO and view the SAN network drawings provided.
References Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method. SPAN SAN04.013.00 The reviewer will interview the IAO and view the SAN network drawings provided.
References Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.1 SAN management is accomplished using the out-of-band or direct connection method. SPAN SAN04.013.00 The reviewer will interview the IAO and view the SAN network drawings provided. SPAN SAN04.013.00 Develop a plan to migrate the SAN management to an out-of-band network or a direct connect method. Obtain CM approval for the plan and implement the plan.

SAN04.014.00

V0006637 CAT III

Management Console to SAN Fabric DOD PKI protected

8500.2 IA Control:	IAIA-2, IAIA-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
Vulnerability	Communications from the management console to the SAN fabric are not protected using DOD PKI.
Checks	
5	SPAN SAN04.014.00
	The reviewer will, with the assistance of the IAO/NSO, verify that communications from the management console to the SAN fabric are protected using DOD PKI.
Fixes	
•	SPAN SAN04.014.00
	Develop a plan to migrate to the use of DOD PKI authentication between the SAN management console and the SAN fabric. Obtain CM approval of the plan and implement the plan.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.015.0	00 V0006638 CAT III Default PKI keys
SAN04.015.0 8500.2 IA Control:	·
8500.2 IA Control:	·
8500.2 IA Control: References:	IAIA-2, IAIA-1
8500.2 IA Control: References:	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 The manufacturer's default PKI keys have not been changed prior to attaching the switch to the SAN Fabric.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 The manufacturer's default PKI keys have not been changed prior to attaching the switch to the SAN Fabric. SPAN SAN04.015.00 The reviewer will, with the assistance of the IAO/NSO, verify that the manufacturer's default PKI keys have been changed prior
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 The manufacturer's default PKI keys have not been changed prior to attaching the switch to the SAN Fabric. SPAN SAN04.015.00 The reviewer will, with the assistance of the IAO/NSO, verify that the manufacturer's default PKI keys have been changed prior
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 The manufacturer's default PKI keys have not been changed prior to attaching the switch to the SAN Fabric. SPAN SAN04.015.00 The reviewer will, with the assistance of the IAO/NSO, verify that the manufacturer's default PKI keys have been changed prior to attaching the switch to the SAN Fabric.
8500.2 IA Control: References: Vulnerability Checks	IAIA-2, IAIA-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 The manufacturer's default PKI keys have not been changed prior to attaching the switch to the SAN Fabric. SPAN SAN04.015.00 The reviewer will, with the assistance of the IAO/NSO, verify that the manufacturer's default PKI keys have been changed prior to attaching the switch to the SAN Fabric. SPAN SAN04.015.00 Depending on the functionality allowed by the device, develop a plan remove, disable or change the manufacturer's default PKI certificate so that it cannot be used for identification and authorization. Obtain CM approval for the plan and implement the pl

SAN04.016.00 V0

V0006639 CAT III

FIPS 140-1/2 for management to fabric.

8500.2 IA Control:	ECNK-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
Vulnerability	The SAN is not configured to use FIPS 140-1/2 validated encryption algorithm to protect management-to-fabric communications.
Checks	
•	SPAN SAN04.016.00
	The reviewer will, with the assistance of the storage administrator, verify that the SAN is configured to use FIPS 140-1/2 validated encryption algorithm to protect management-to-fabric communications.
Fixes	
5	SPAN SA04.016.00
	Develop a plan to implement FIPS-140-1/2 validated encryption to protect management-to-fabric communications. Obtain CM approval of the plan and execute the plan.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.017.0	00 V0006645 CAT I Password SAN Management Console and Ports
SAN04.017.0 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	IAIA-1, IAIA-2
8500.2 IA Control: References:	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
8500.2 IA Control: References: Vulnerability Checks	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
8500.2 IA Control: References: Vulnerability Checks	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 All SAN management consoles and ports are not password protected.
8500.2 IA Control: References: Vulnerability Checks	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 All SAN management consoles and ports are not password protected. SPAN SAN04.017 The reviewer will, with the assistance of the IAO/NSO, verify that all SAN management consoles and ports are password
8500.2 IA Control: References: Vulnerability Checks	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 All SAN management consoles and ports are not password protected. SPAN SAN04.017 The reviewer will, with the assistance of the IAO/NSO, verify that all SAN management consoles and ports are password
8500.2 IA Control: References: Vulnerability Checks	IAIA-1, IAIA-2 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2 All SAN management consoles and ports are not password protected. SPAN SAN04.017 The reviewer will, with the assistance of the IAO/NSO, verify that all SAN management consoles and ports are password protected.
8500.2 IA Control: References: Vulnerability Checks	SPAN SAN04.017.00 Develop a plan for implementing password protection on the SAN's management consoles and ports. Obtain CM approval of the plan and execute the plan.

SAN04.018.00

V0006646 CAT I

Default SAN Management Software Password

8500.2 IA Control:	IAIA-1, IAIA-2
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.2
Vulnerability	The manufacturer's default passwords have not been changed for all SAN management software.
Checks	
5	SPAN SAN04.018.00
	The reviewer will, with the assistance of the IAO/NSO, verify that the manufacturer's default passwords have been changed for all SAN management software.
Fixes	
\$	SPAN SAN04.018.00
	Develop a plan to change manufacturer's default passwords for all SAN management software. Obtain CM approval of the plan and implement the plan.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.019.0	00 V0006647 CAT I SAN Fabric Zoning List Deny-By-Default
SAN04.019.0 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site.
8500.2 IA Control: References:	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site. SPAN SAN04.019.00 The reviewer will, with the assistance of the IAO/NSO, verify that SAN fabric zoning lists are based on a policy of Deny-by-
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site. SPAN SAN04.019.00 The reviewer will, with the assistance of the IAO/NSO, verify that SAN fabric zoning lists are based on a policy of Deny-by-
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site. SPAN SAN04.019.00 The reviewer will, with the assistance of the IAO/NSO, verify that SAN fabric zoning lists are based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site.
8500.2 IA Control: References: Vulnerability Checks	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The SAN fabric zoning lists are not based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site. SPAN SAN04.019.00 The reviewer will, with the assistance of the IAO/NSO, verify that SAN fabric zoning lists are based on a policy of Deny-by-Default with blocks on all services and protocols not required on the given port or by the site. SPAN SAN04.019.00 Develop a plan to identify all services and protocols needed by each port in the SAN, modify the routing lists to enforce a Deny-by-Default policy and allow only the identified services and protocols on each port that requires them. Obtain CM approval fo

SAN04.020.00 V0006648 CAT III

Logging Failed Access to Port, Protocols, Services

8500.2 IA Control:	ECAR-2, ECAR-1, ECAR-3
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3
Vulnerability	Attempts to access ports, protocols, or services that are denied are not logged
Checks	
:	SPAN SAN04.020.00
	The reviewer will, with the assistance of the IAO/NSO, verify that all attempts to any port, protocol, or service that is denied are logged.
Fixes	
;	SPAN SAN04.020.00
	Develop a plan to implement the logging of failed or rejected ports, protocols or services requests. The plan should include a projection of the storage requirements of the logged events. Obtain CM approval of the plan and execute it.
ОРЕ	
Notes:	
SAN04.021.0	00 V0006652 CAT II SNMP usage and configuration.
SAN04.021. (8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCBP-1
8500.2 IA Control: References:	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG. SPAN SAN04.021.00 With the assistance of the IAO/NSO, verify that if Simple Network Management Protocol (SNMP) is used, it is configured in accordance with the guidance contained in the Network Infrastructure STIG section 5.1.2.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG. SPAN SAN04.021.00 With the assistance of the IAO/NSO, verify that if Simple Network Management Protocol (SNMP) is used, it is configured in accordance with the guidance contained in the Network Infrastructure STIG section 5.1.2.
8500.2 IA Control: References: Vulnerability Checks	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG. SPAN SAN04.021.00 With the assistance of the IAO/NSO, verify that if Simple Network Management Protocol (SNMP) is used, it is configured in accordance with the guidance contained in the Network Infrastructure STIG section 5.1.2.
8500.2 IA Control: References: Vulnerability Checks	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 Simple Network Management Protocol (SNMP) is used and it is not configured in accordance with the guidance contained in the Network Infrastructure STIG. SPAN SAN04.021.00 With the assistance of the IAO/NSO, verify that if Simple Network Management Protocol (SNMP) is used, it is configured in accordance with the guidance contained in the Network Infrastructure STIG section 5.1.2. SPAN SAN04.021.00 Develop a plan to implement SNMP that is compliant with the Network Infrastructure STIG. Obtain CM approval and execute the plan.

SAN04.022.00 \

V0006656 CAT I

Authorized IP Addresses allowed for SNMP

8500.2 IA Control:	DCBP-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3
Vulnerability	Unauthorized IP addresses are allowed Simple Network Management Protocol (SNMP) access to the SAN devices.
Checks	
5	SPAN SAN04.022.00
	The reviewer will, with the assistance of the IAO/NSO, verify that only authorized IP addresses are allowed Simple Network Management Protocol (SNMP) access to the SAN devices. This can be done with by checking the ACLs for the SAN device ports.
Fixes	
\$	SPAN SAN04.022.00
	Develop a plan to restrict SNMP access to SAN devices to authorized IP addresses. Obtain CM approval for the plan and implement the plan.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.023.0	00 V0006657 CAT II Only Internal Network SNMP Access to SAN
SAN04.023.0 8500.2 IA Control:	·
8500.2 IA Control:	·
8500.2 IA Control: References:	EBRP-1
8500.2 IA Control: References:	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3
8500.2 IA Control: References: Vulnerability Checks	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3
8500.2 IA Control: References: Vulnerability Checks	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The IP addresses of the hosts permitted SNMP access to the SAN management devices do not belong to the internal network.
8500.2 IA Control: References: Vulnerability Checks	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The IP addresses of the hosts permitted SNMP access to the SAN management devices do not belong to the internal network. SPAN SAN04.023.00 The reviewer will, with the assistance of the IAO/NSO, verify that the IP addresses of the hosts permitted SNMP access to the
8500.2 IA Control: References: Vulnerability Checks	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The IP addresses of the hosts permitted SNMP access to the SAN management devices do not belong to the internal network. SPAN SAN04.023.00 The reviewer will, with the assistance of the IAO/NSO, verify that the IP addresses of the hosts permitted SNMP access to the
8500.2 IA Control: References: Vulnerability Checks	EBRP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 The IP addresses of the hosts permitted SNMP access to the SAN management devices do not belong to the internal network. SPAN SAN04.023.00 The reviewer will, with the assistance of the IAO/NSO, verify that the IP addresses of the hosts permitted SNMP access to the SAN management devices belong to the internal network. The ACLs for the SAN ports should be checked.
8500.2 IA Control: References: Vulnerability Checks	SPAN SAN04.023.00 Develop a plan to restrict SNMP access to SAN devices to only internal network IP addresses. Obtain CM approval of the plan and implement the plan.
8500.2 IA Control: References: Vulnerability Checks Fixes	SPAN SAN04.023.00 The reviewer will, with the assistance of the IAO/NSO, verify that the IP addresses of the hosts permitted SNMP access to the SAN management devices of the hosts permitted SNMP access to the SAN management devices belong to the internal network. SPAN SAN04.023.00 The reviewer will, with the assistance of the IAO/NSO, verify that the IP addresses of the hosts permitted SNMP access to the SAN management devices belong to the internal network. The ACLs for the SAN ports should be checked. SPAN SAN04.023.00 Develop a plan to restrict SNMP access to SAN devices to only internal network IP addresses. Obtain CM approval of the plan and implement the plan. EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:

19 MAY 2006 V000 SAN04.024.00

V0006660 CAT III

Fibre Channel network End-User Platform Restricted

8500.2 IA Control:	DCBP-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3
Vulnerability	End-user platforms are directly attached to the Fibre Channel network or access storage devices directly.
Checks	
;	SPAN SAN04.024.00
	The reviewer will, with the assistance of the IAO/NSO, verify that end-user platforms are not directly attached to the Fibre Channel network and may not access storage devices directly. If the SAN is small with all of its components collocated, this can be done by a visual inspection but in most cases the reviewer will have to check the SAN network drawing.
Fixes	
;	SPAN SAN04.024.00
	Develop a plan to remove end-user platforms from the SAN. Obtain CM approval for the plan and implement the plan.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
SAN04.025.0	00 V0007081 CAT II SAN Fixed IP Required.
SAN04.025. 0 8500.2 IA Control:	·
8500.2 IA Control:	·
8500.2 IA Control: References:	DCBP-1
8500.2 IA Control: References:	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses. SPAN SAN04.25.00 The reviewer with the assistance of the SA will verify that all SAN components are configured with fixed IP addresses.
8500.2 IA Control: References: Vulnerability Checks	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses. SPAN SAN04.25.00 The reviewer with the assistance of the SA will verify that all SAN components are configured with fixed IP addresses. SPAN SAN04.025.00
8500.2 IA Control: References: Vulnerability Checks Fixes	DCBP-1 SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses. SPAN SAN04.25.00 The reviewer with the assistance of the SA will verify that all SAN components are configured with fixed IP addresses. SPAN SAN04.025.00 Configure all SAN components to have fixed IP addresses.
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8500.2 IA Control: References: Vulnerability Checks Fixes	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.4.3 SAN components are not configured with fixed IP addresses. SPAN SAN04.25.00 The reviewer with the assistance of the SA will verify that all SAN components are configured with fixed IP addresses. SPAN SAN04.025.00 Configure all SAN components to have fixed IP addresses. EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:

SAN05.001.00 V

V0006661 CAT II

Backup of critical SAN Software and configurations

8500.2 IA Control:	COSW-1
References:	SHARING PERIPHERALS ACROSS THE NETWORK SECURITY TECHNICAL IMPLEMENTATION GUIDE 2.5
Vulnerability	Fabric switch configurations and management station configuration are not archived and/or copies of the operating system and other critical software for all SAN components are not stored in a fire rated container or are not collocated with the operational
Checks	
S	SPAN SAN05.001.00
	The reviewer will interview the IAO/NSO and view the stored information to verify that all fabric switch configurations and management station configuration are archived and copies of the operating system and other critical software for all SAN components are stored in a fire rated container or otherwise not collocated with the operational software.
Fixes	
\$	SPAN SAN05.001.00
	Develop a plan that will ensure that all fabric switch configurations and management station configuration are archived and copies of the operating system and other critical software for all SAN components are stored in a fire rated container or otherwise
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	