



DEFENSE INFORMATION SYSTEMS AGENCY

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IN REPLY REFER TO: Joint Interoperability Test Command (JTE)

3 November 2022

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric Operating System (OS) 10.5

- References: (a) Department of Defense Instruction 8100.04, "DoD Unified Capabilities (UC)," 9 December 2010
(b) Office of the Department of Defense Chief Information Officer, "Department of Defense Unified Capabilities Requirements 2013, Change 2," September 2017
(c) through (g), see Enclosure

1. Certification Authority. Reference (a) establishes the Joint Interoperability Test Command (JITC) as the Joint Interoperability Certification Authority for the Department of Defense Information Network (DoDIN) products, Reference (b).

2. Conditions of Certification. The Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric Operating System (OS) 10.5 is hereinafter referred to as the System Under Test (SUT). The SUT meets the critical requirements of the Unified Capabilities Requirements, Reference (b), as an Assured Services Local Area Network (ASLAN) Core, Distribution, and Access switch and is certified for joint use with the conditions described in Table 1. This certification expires upon changes that affect interoperability, but no later than the expiration date specified in the DoDIN Approved Products List (APL) memorandum.

This extension of the certification is for Desktop Review (DTR) 4. DTR 4 was requested to add the Dell PowerSwitch E3224F-ON to the list of certified SUT components as a Layer 2 (L2)/Layer 3 (L3) Access-only switch.

See Table 4 for an updated list of certified components, and Paragraph 4 for additional details.

Table 1. Conditions

Table with 3 columns: Description, Operational Impact, Remarks. Row 1: UCR Waivers. Row 2: None.

(Table continues next page.)

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric OS 10.5

Table 1. Conditions (continued)

Description		Operational Impact	Remarks
TDR#	Conditions of Fielding		
DEL-0730-002	EDG-000080: Per ASLAN testing and vendor documentation, the SUT does not support PoE IAW either 802.3af-2003 or 802.3at-2009. CoF: The SUT is certified for only data and VVoIP endpoints that do not require PoE, such as CCA, UCCS, and Soft Clients.	Minor with CoF	On 29 October 2019, DISA adjudicated this discrepancy as minor with CoF.
DEL-0730-004	IP6-000490: Per Dell Letter of Compliance, Stateless Address Autoconfiguration and Manual Address Assignment, IAW IP6-000490: Non-Comply - User must select desired flag values when enabling router advertisements. CoF: Managed Address Configuration flags must be set to desired value when implemented by the user. Vendor to include configuration in deployment guide.	Minor with CoF	On 29 October 2019, DISA adjudicated this discrepancy as minor with CoF.
DEL-0730-005	EDG-000210 (Part A): Per IO-3 ASLAN testing, SUT generates VRRPv3 checksums for IPv4 traffic in a different manner than other heterogeneous vendors. CoF: SUT must be configured with VRRPv2 to support Distribution switch failover in less than 5 seconds within an IPv4 infrastructure.	CLOSED (See note 1.)	On 29 October 2019, DISA adjudicated this discrepancy as minor with vendor POA&M. Updated per DTR 2 testing via TN 1907701 for the Dell Z-Series ASLAN.
	EDG-000210 (Part B): Per IO-3 ASLAN testing, SUT recovery time exceeds 5 seconds. CoF: For failback recovery, site required to schedule ASI.	Minor with CoF	On 29 October 2019, DISA adjudicated this discrepancy as minor with CoF.
DEL-0730-006	EDG-000010: Per IO-17 ASLAN testing, S4148U has multiple port profiles, which enable/disable and configure the speed of the 40/100G uplink ports. CoF: S4148U-ON certified as Access Only with port profile 1; other port profiles are not certified.	Minor with CoF	On 29 October 2019, DISA adjudicated this discrepancy as minor with CoF.
DEL-0730-009	EDG-000200: With DTR 1 testing of the N3248TE switch with auto-negotiate test procedure IO-14, the SUT did not support half duplex. CoF: Both sides must be set to auto-negotiate	Minor with CoF	On 6 July 2021, DISA adjudicated this discrepancy as minor with CoF.
DEL-0730-010	EDG-000200: With DTR 1 testing of the N3248TE switch with Force Mode test procedure IO-15, the SUT did not support hard setting to 10/100M or half duplex. CoF: Both sides must be set to auto-negotiate	Minor with CoF	On 6 July 2021, DISA adjudicated this discrepancy as minor with CoF.
TDR#	Open Test Discrepancies		
DEL-0730-003	IP6-000390: Per Dell LoC, Router Advertisement inconsistencies are not logged.	CLOSED (See note 2.)	On 29 October 2019, DISA adjudicated this discrepancy as minor with vendor POA&M. Updated per DTR 1.
DEL-0730-007	EDG-000090: Per IO-13 ASLAN testing and only applying to S4248FBL-ON: SUT re-marks IPv4 DSCP values but does not remark IPv6 DSCP values.	CLOSED (See note 3.)	On 5 November 2019, DISA adjudicated this discrepancy as minor with vendor POA&M. Updated per DTR 3.
DEL-0730-008	Cybersecurity Requirements 4.2: Per Dell LoC, the SUT is partially compliant with CYB-045000 and non-compliant with CYB-056000, CYB-056010, CYB-056020, CYB-059030, CYB-060000, CYB-060010, and CYB-073060.	None UCR Change Requirement	On 15 October 2019, DISA adjudicated this discrepancy as UCR Change Requirement as the CS requirements (Section 4) are designated to be removed in the next official version release of the DCR. Until then, prior adjudications have noted these requirements as change requirements.

(Table continues next page.)

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Table 1. Conditions (continued)

NOTE(S):			
1. TDR DEL-0730-005: On 13 September 2022, DISA re-adjudicated and closed Part A of this TDR based on DTR 2 testing for the Dell Z-Series ASLAN TN 1907701, Reference (c), which demonstrated full support for the VRRPv3 checksums for IPv4 traffic requirement with the SmartFabric OS 10.5.4.0 software certified via DTR 3 with this TN. Part B of this TDR (failback recovery) remains Minor with CoF.			
2. TDR DEL-0730-003: Closed with DTR 1 based on the Vendor's updated LoC showing compliance to IP6-000390 requirements.			
3. TDR DEL-0730-007: Closed with DTR 3 based on removal of the Dell Switch S4248FBL-ON due to EOS, effective April 2021.			
LEGEND:			
802.3af-2003	Power over Ethernet up to 15.4 Watts	IAW	In Accordance With
802.3at-2009	Power over Ethernet up to 25.5 Watts	IO	Interoperability
ASI	Authorized Service Interruption	IP	Internet Protocol
ASLAN	Assured Services Local Area Network	IPv4	Internet Protocol version 4
CCA	Call Connection Agent	IP6/IPv6	Internet Protocol version 6
CoF	Condition of Fielding	LoC	Letter of Compliance
CS	Cybersecurity	POA&M	Plan of Action and Milestones
CYB	Cybersecurity	PoE	Power Over Ethernet
DCR	DoDIN Capabilities Requirements	SUT	System Under Test
DEL	Dell	TDR	Test Discrepancy Report
DISA	Defense Information Systems Agency	TN	Tracking Number
DoDIN	Department of Defense Information Network	UCCS	Unified Capabilities Conference System
DSCP	Differentiated Services Code Point	UCR	Unified Capabilities Requirements
DTR	Desktop Review	VRRP	Virtual Router Redundancy Protocol
EDG	Edge	VRRPv2	VRRP version 2
EOS	End-Of-Sale	VRRPv3	VRRP version 3
G	Gigabit	VVoIP	Voice and Video over Internet Protocol

3. Interoperability Status. Table 2 provides the SUT interface interoperability status, Table 3 provides the Capability Requirements and Functional Requirements status, and Table 4 provides a DoDIN APL Product Summary, to include subsequent DTR updates.

Table 2. SUT Interface Status

Interface (See note 1.)	Applicability			Status	Remarks
	Co	D	A		
Network Management Interfaces					
IEEE 802.3i (10BaseT UTP)	C	C	C	Met	
IEEE 802.3u (100BaseT UTP)	C	C	C	Met	
IEEE 802.3ab (1000BaseT UTP)	C	C	C	Met	
Access (User) Interfaces (See note 2.)					
IEEE 802.3i (10BaseT UTP)	C	C	C	Not Tested	See note 3.
IEEE 802.3u (100BaseT UTP)	C	C	C	Not Tested	See note 3.
IEEE 802.3u (100BaseFX)	C	C	C	Not Tested	See note 3.
IEEE 802.3ab (1000BaseT UTP)	C	C	C	Met	See note 4.
IEEE 802.3z (1000BaseX Fiber)	C	C	C	Met	See note 4.
IEEE 802.3bz (2.5/5GBaseX)	O	O	O	Not Tested	See note 3.
IEEE 802.3ae (10GBaseX)	C	C	C	Met	
IEEE 802.3by (25GBaseX)	O	O	O	Met	
IEEE 802.3ba (40GBaseX)	O	O	O	Met	
IEEE 802.3cd (50GBaseX)	O	O	O	Met	
IEEE 802.3ba (100GBaseX)	O	O	O	Met	

(Table continues next page.)

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric OS 10.5

Table 2. SUT Interface Status (continued)

Interface (See note 1.)	Applicability			Status	Remarks														
	Co	D	A																
Uplink (Trunk) Interfaces (See note 2.)																			
IEEE 802.3ab (1000BaseT UTP)	C	C	C	Met	See note 4.														
IEEE 802.3z (1000BaseX Fiber)	C	C	C	Met	See note 4.														
IEEE 802.3bz (2.5/5GBaseX)	O	O	O	Not Tested	See note 3.														
IEEE 802.3ae (10GBaseX)	C	C	C	Met															
IEEE 802.3by (25GBaseX)	O	O	O	Met															
IEEE 802.3ba (40GBaseX)	O	O	O	Met															
IEEE 802.3cd (50GBaseX)	O	O	O	Met															
IEEE 802.3ba (100GBaseX)	O	O	O	Met															
<p>NOTE(S):</p> <p>1. Table 3 depicts the SUT high-level requirements. Table 3-2 of Enclosure 3 in Reference (d) provides a detailed list of requirements.</p> <p>2. Core, Distribution, and Access products must minimally support one of the interfaces listed in this table as conditional for the given role. Other rates and standards may be provided as optional interfaces.</p> <p>3. The SUT does not support this (conditional or optional) interface.</p> <p>4. USAISEC-TIC tested the 10/25/40/50/100GBaseX interfaces, but not the 1000BaseT and 1GBaseX interfaces. Analysis determined the 1000BaseT and 1GBaseX interfaces are low risk for certification based on the Vendor's Letters of Compliance to comply with the IEEE 802.3 standards and the testing data collected at all other data rates.</p> <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">A Access</td> <td style="width: 50%;">GBaseX Gigabit Ethernet over Fiber or Copper</td> </tr> <tr> <td>BaseFX Megabit Ethernet over Fiber</td> <td>IEEE Institute of Electrical and Electronics Engineers</td> </tr> <tr> <td>BaseT Megabit (Baseband Operation, Twisted Pair) Ethernet</td> <td>O Optional</td> </tr> <tr> <td>BaseX Megabit Ethernet over Fiber or Copper</td> <td>SUT System Under Test</td> </tr> <tr> <td>C Conditional</td> <td>TIC Technology Integration Center</td> </tr> <tr> <td>Co Core</td> <td>USAISEC U.S. Army Information Systems Engineering Command</td> </tr> <tr> <td>D Distribution</td> <td>UTP Unshielded Twisted Pair</td> </tr> </table>						A Access	GBaseX Gigabit Ethernet over Fiber or Copper	BaseFX Megabit Ethernet over Fiber	IEEE Institute of Electrical and Electronics Engineers	BaseT Megabit (Baseband Operation, Twisted Pair) Ethernet	O Optional	BaseX Megabit Ethernet over Fiber or Copper	SUT System Under Test	C Conditional	TIC Technology Integration Center	Co Core	USAISEC U.S. Army Information Systems Engineering Command	D Distribution	UTP Unshielded Twisted Pair
A Access	GBaseX Gigabit Ethernet over Fiber or Copper																		
BaseFX Megabit Ethernet over Fiber	IEEE Institute of Electrical and Electronics Engineers																		
BaseT Megabit (Baseband Operation, Twisted Pair) Ethernet	O Optional																		
BaseX Megabit Ethernet over Fiber or Copper	SUT System Under Test																		
C Conditional	TIC Technology Integration Center																		
Co Core	USAISEC U.S. Army Information Systems Engineering Command																		
D Distribution	UTP Unshielded Twisted Pair																		

Table 3. SUT Capability Requirements and Functional Requirements Status

CR/FR ID	UCR Requirement (High-Level) (See note 1.)	UCR 2013 Change 2 Reference	Status												
1	General LAN Switch and Router Product Requirements (R)	7.2.1	Partially Met (See note 2.)												
2	LAN Switch and Router Redundancy Requirements (R)	7.2.2	Partially Met (See note 2.)												
3	LAN Product Requirements Summary (R)	7.2.3	Partially Met (See notes 2 and 3.)												
4	Multiprotocol Label Switching (O)	7.2.4	Not Tested (See note 4.)												
5	IPv6	5.2	Partially Met (See note 2.)												
<p>NOTE(S):</p> <p>1. The annotation of "required" refers to a high-level requirement category. Enclosure 3 of Reference (d) addresses the applicability of each sub-requirement.</p> <p>2. Reference Table 1 for conditions.</p> <p>3. A USAISEC-TIC-led Cybersecurity test team conducted Security testing and published the results in a separate report, Reference (e).</p> <p>4. The SUT does not support this optional requirement.</p> <p>LEGEND:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">CR Capability Requirement</td> <td style="width: 50%;">R Required</td> </tr> <tr> <td>FR Functional Requirement</td> <td>SUT System Under Test</td> </tr> <tr> <td>ID Identification</td> <td>TIC Technology Integration Center</td> </tr> <tr> <td>IPv6 Internet Protocol version 6</td> <td>UCR Unified Capabilities Requirements</td> </tr> <tr> <td>LAN Local Area Network</td> <td>USAISEC U.S. Army Information Systems Engineering Command</td> </tr> <tr> <td>O Optional</td> <td></td> </tr> </table>				CR Capability Requirement	R Required	FR Functional Requirement	SUT System Under Test	ID Identification	TIC Technology Integration Center	IPv6 Internet Protocol version 6	UCR Unified Capabilities Requirements	LAN Local Area Network	USAISEC U.S. Army Information Systems Engineering Command	O Optional	
CR Capability Requirement	R Required														
FR Functional Requirement	SUT System Under Test														
ID Identification	TIC Technology Integration Center														
IPv6 Internet Protocol version 6	UCR Unified Capabilities Requirements														
LAN Local Area Network	USAISEC U.S. Army Information Systems Engineering Command														
O Optional															

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Table 4. DoDIN APL Product Summary

Product Identification					
Product Name	Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches				
Software Release	SmartFabric OS 10.5 (See note 1.)				
UCR Product Type(s)	ASLAN Core/Distribution/Access Switch				
Product Description	The SUT delivers voice-class availability, 1/10/25/40/50/100 GbE RJ-45/SFP+/QSFP+/QSFP28 for switching VoIP, video, and data traffic.				
DoDIN Certified Function	Component/Sub-component Name (See notes 2, 3, and 4)	Tested Version (See note 1.)	Remarks		
ASLAN Core/Distribution/Access	S4112F-ON S4112T-ON S4128F-ON S4128T-ON S4148F-ON S4148T-ON S4148FE-ON S4148U-ON S4248FB-ON S5212F-ON S5224F-ON S5232F-ON S5248F-ON S5296F-ON	SmartFabric OS 10.5.4.0	Redundant power modules		
ASLAN Access	N3245TE-ON (See note 5.) N3248TE-ON (See note 5.)	SmartFabric OS 10.5.4.0	Redundant power modules		
Component/Sub-component added with DTR 4 (See note 6.)					
Component (See notes 3 and 6.)	Version (See note 1.)	Sub-Component	Description	Blocking Factor (See note 7.)	
				C/D	A
E3224F-ON L2/L3 Access-Only Switch	SmartFabric OS 10.5.4.0	N/A	28x 10GbE SFP+ ports 2x 100GbE QSFP28 ports	N/A	Met
NOTE(S):					
1. The SUT was initially certified with Software Release version SmartFabric OS 10.5.1.6. With DTR 3, the SmartFabric OS Software Release version was updated from 10.5.1.6 to 10.5.4.0.					
2. Table 3-3 in Enclosure 3 of Reference (c) provides the detailed descriptions on the initially tested components and sub-components.					
3. Components bolded and underlined were tested by USAISEC-TIC. The other components in the family series were not tested; however, JITC certified the other components for joint use because they utilize the same software and similar hardware as tested and certified components and JITC analysis determined they were functionally identical for interoperability certification purposes.					
4. With DTR 3, the S4248FBL-ON model was removed due to End-of-Sale in April 2021.					
5. With DTR 1, the N3245TE-ON model was added to this certification as a Layer 2/Layer 3 Access only switch based on testing conducted at USAISEC-TIC from 24 May through 11 June 2021 with software patch 10.5.1.6 to the SmartFabric OS 10.5 Software Release version. Furthermore, the N3248TE-ON was submitted as standalone only and is therefore not certified for the stacking configuration.					
6. With DTR 4, the Dell PowerSwitch E3224F-ON model was added without additional testing based on analysis and similarity to the previously tested and certified Dell PowerSwitch N3248TE-ON.					
7. Blocking Factor is defined as the ratio of all traffic to non-blocked traffic (i.e., a blocking factor of 8 to 1 means that 12.5 percent of the traffic must be non-blocking). Access products shall not have a blocking factor that exceeds 8 to 1. Distribution and Core products shall not have a blocking factor that exceeds 2 to 1.					
LEGEND:					
A	Access	N/A	Not Applicable		
APL	Approved Products List	OS	Operating System		
ASLAN	Assured Services Local Area Network	QSFP+	Quad Small Form-factor Pluggable Plus		
C	Core	QSFP28	28Mbps Signaled Quad Small Form-factor Pluggable		
D	Distribution	RJ-45	Registered Jack 45		
DoDIN	Department of Defense Information Network	SFP+	Small Form-factor Pluggable Plus		
DTR	Desktop Review	SUT	System Under Test		
EMC	Egan, Marino & Curly	TIC	Technology Integration Center		
GbE	Gigabit Ethernet	UCR	Unified Capabilities Requirements		
JITC	Joint Interoperability Test Command	USAISEC	U.S. Army Information Systems Engineering Command		
L2/L3	Layer 2 / Layer 3	VoIP	Voice over Internet Protocol		

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric OS 10.5

4. Test Details. This extension of the certification is based on DTR 4. The original certification, documented in Reference (d), was based on interoperability (IO) testing, review of the Vendor's Letters of Compliance (LoC), Defense Information Systems Agency (DISA) adjudication of open test discrepancy reports (TDRs), and the DISA Certifying Authority Recommendation for inclusion on the DoDIN APL. The United States Army Information Systems Engineering Command (USAISEC), Mission Engineering Directorate (MED), Technology Integration Center (TIC), hereafter referred to as USAISEC-TIC, conducted testing at Fort Huachuca, Arizona, from 19 August through 20 September 2019, using test procedures derived from Reference (f), and completed review of the Vendor's LoC on 1 October 2019. DISA completed adjudication of outstanding TDRs on 5 November 2019. A USAISEC-TIC-led Cybersecurity (CS) test team conducted CS testing and published the results in a separate report, Reference (e). Enclosure 2 of Reference (d) documents the test results and describes the tested network and system configurations. Enclosure 3 of Reference (d) provides the detailed interface, capability, and functional requirements and test results.

DTR 4 was requested to add the Dell PowerSwitch E3224F-ON to the list of certified SUT components as an L2/L3 Access-only switch.

JITC analysis determined no further CS or IO testing was required because the new Dell PowerSwitch E3224F-ON had similar hardware and operated with the same SmartFabric OS 10.5.4.0 software as the previously certified Dell PowerSwitch N3248TE-ON, did not change the certified IO features and functions or approved CS posture of the SUT, and was therefore low risk for certification without additional testing. In addition, with inclusion of the E3224F-ON with this DTR, the SUT Product Name was updated to Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches. Analysis of this DTR request was based on current UCR 2013 Change 2 test procedures, Reference (g). Furthermore, there were no past due CS or IO Vendor POA&Ms.

Based on analysis, no change to the certified SUT IO features and functions, and no past due Vendor POA&Ms, JITC approves DTR 4.

In addition, the current CS posture of the SUT is documented in a separate report, Reference (e).

5. Additional Information. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Sensitive but Unclassified Internet Protocol Data (formerly known as NIPRNet) e-mail. Interoperability status information is available via the JITC System Tracking Program (STP). STP is accessible by .mil/.gov users at <https://stp.fhu.disa.mil/>. Test reports, lessons learned, and related testing documents and references are on the JITC Industry Toolkit (JIT) at <https://jit.fhu.disa.mil/>. Due to the sensitivity of the information, the CS Assessment Package containing the approved configuration and deployment guide must be requested directly from the Approved Products Certification Office (APCO) via e-mail: disa.meade.ie.list.approved-products-certification-office@mail.mil. All associated information is available on the DISA APCO website located at <https://aplits.disa.mil/>.

JITC Memo, JTE, Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100 and S5200 Series, and S4248FB-ON, N3245TE-ON, N3248TE-ON, and E3224F-ON Switches with Software Release SmartFabric OS 10.5

6. Point of Contact (POC). JITC POC: Ms. Lorraine Gardner, commercial telephone (520) 538-5221, DSN telephone 312-879-5221, FAX DSN 312-879-4347; e-mail address: lorraine.gardner.civ@mail.mil; mailing address: Joint Interoperability Test Command, ATTN: JTE (Ms. Lorraine Gardner), P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The APCO tracking number for the SUT is 1905804.

FOR THE COMMANDER:

Enclosure a/s

LAWRENCE T. DORN
Chief
Specialized Test Division

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ADDITIONAL REFERENCES

- (c) Joint Interoperability Test Command (JITC) Memo, JTE, “Extension of the Joint Interoperability Certification of the Dell EMC Networking PowerSwitch Z9264F-ON, Z9332F-ON, and Z9432F-ON with Software Release SmartFabric Operating System (OS) 10.5,” 03 August 2021 (Tracking Number 1907701, DTR 2)
- (d) JITC Memo, JTE, “Joint Interoperability Certification of the Dell EMC Networking PowerSwitch S4100, S4200, and S5200 Series with Software Release SmartFabric OS 10.5, December 2019
- (e) JITC, “Cybersecurity Assessment Report for Dell EMC Networking PowerSwitch S-Series, Software Release SmartFabric Operating System (OS) 10.5, Tracking Number (TN) 1905804,” October 2022
- (f) JITC, “Assured Services Local Area Network (ASLAN) and Non-ASLAN Test Procedures Version 1.0 for Unified Capabilities Requirements (UCR) 2013 Change 2,” October 2017
- (g) JITC, “Assured Services Local Area Network (ASLAN) and Non-ASLAN Test Procedures Version 1.1 For Unified Capabilities Requirements (UCR) 2013 Change 2,” April 2022 (Draft)