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TEST PLAN AND ACCEPTANCE RECORD

Test plan for SDD-NET-001 against the requirements and failure conditions of SRA-NET-001

Test document — plan complete; results are recorded at acceptance

CAPABILITY	DOCUMENT	VERSION	DATE
Networking	STP-NET-001	1.5	Nov 4, 2026

WRITTEN BY

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What this document is. The proof half of the pair. Every requirement row and every failure condition in the architecture has a test here with a method, a pass criterion and an evidence item to capture, except the four the Tests line names with its reason (R1, R12, F4, F9). The results columns are filled at acceptance. The moment they are filled from a build, SRA-NET-001 §7 gets its validation. Structure follows the validation chapters in Juniper's JVD (test objectives, test results summary, validated devices), Nutanix NVD-2031 §8 (test plan) and Dell H19686.1 §5.

Document control

Document	STP-NET-001	Version	1.5
Issued	Nov 4, 2026	Status	Issued by Symbeeo
Classification	Public	Supersedes	1.4, Oct 10, 2026
Capability	Networking	Author	Mark Winston
Role	Principal Network Architect		
Tests	SRA-NET-001 R2–R11, R13–R15 and F1–F3, F5–F8, F10 (R1 is an input; R12 is an operations measure; F4 waived, covered by the T8 coverage survey; F9 waived, site power has no automatic recovery to test) SDD-NET-001 cut-over steps 1, 3 and 5		
Credentials	CCIE, CISSP, CCSP, CCISO, CISM, Adopting Zero Trust (Forrester)		
Approval	Approved by Edwin Ozer, Founder, Oct 10, 2026 (version 1.4). Version 1.5 issued by Symbeeo, Nov 4, 2026.		
Sign-off	"The customer's named acceptor signs the results; the practice lead countersigns. Acceptance = every T-case marked pass or waived with a reason."		

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Table 1. Revision history

Date	Version	Change
Sep 15, 2026	1.0	First issue.
Sep 21, 2026	1.1	Corrections to wording, figure numbering and citations.
Sep 27, 2026	1.2	Revised to current platform versions and the current document format.
Sep 29, 2026	1.3	The two waivers named in the Tests line (F4, F9) are recorded in §4; the optical platform release is set on the day of staging.
Oct 10, 2026	1.4	Approval line now reads: approved by the Founder, issued by Symbeeo. Mark Winston remains the author.
Nov 4, 2026	1.5	T10–T12 and T17 and the device table moved to the Cisco NCS 1014, as SRA-NET-001 v1.5; T11 pass mark and evidence now read from the OTNSec session state.

1 · Scope, environment, entry and exit

Scope. Campus core and access, wireless, SD-WAN, DCI, OOB, and enforcement-point readiness, for a typical buyer of SDD-NET-001. **Environment.** Staged at Symbeeo for T1–T6; on site for the rest. **Entry criteria.** SDD-NET-001 signed; prerequisites P1–P8 closed; software baseline recorded. **Exit criteria.** Every T-case pass or waived with a written reason and the client's initials; evidence archive handed over.

Evidence captured for every case. Command output or controller screenshot with timestamp; device name and software version; tester's initials. Each case also names, in its own column, the evidence it produces: a log extract, a screenshot, a per-device quality record (serial, software, test result, kept in §3) or a failover timing. The Evidence captured column stays empty until the case runs.

2 · Test cases

Table 2. Test cases

ID	Tests	Method	Pass criterion	Evidence it produces	Result	Evidence captured	Date · initials
T1	R2 access port speed and power	connect a CW9178I and a 90 W load to a 9300X-48HX port; read negotiated speed and PoE draw	10G negotiated; 90 W delivered	log extract: interface status and inline-power output for the port; per-device quality record	☐ pass ☐ fail		
T2	R3 stack bandwidth	show stack ring status on each built 9300X stack (2 members, SDD-NET-001 §3.2)	StackWise-1T ring up, full	log extract: stack-port summary	☐ pass ☐ fail		
T3	R4 uplinks	show interface on both 100G uplinks per stack	both up at 100G, one to each core member	log extract: both uplink interfaces, per stack	☐ pass ☐ fail		
T4	R5 core pair	show StackWise Virtual status on the 9500X pair	active/standby healthy, dual-active detection configured	log extract: StackWise Virtual and dual-active detection status	☐ pass ☐ fail		

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ID	Tests	Method	Pass criterion	Evidence it produces	Result	Evidence captured	Date · initials
T5	R14 OOB	reach every device console via the console server with in-band down	100 % of devices reachable	log extract: console-server session log, one line per device, timestamped	☐ pass ☐ fail		
T6	R15 802.1X readiness	enable 802.1X in monitor mode on one closet	authentications logged for every port	log extract: authentication sessions per port; screenshot of the policy server's log	☐ pass ☐ fail		
T7	R6 wireless capacity	20 Wi-Fi 7 clients on one CW9178I, 6 GHz, iperf	aggregate ≥ 3 Gbps [A]; no drops	iperf3 JSON output per client; controller screenshot of the client table	☐ pass ☐ fail		
T8	R7 coverage	walk survey against the predictive design	−67 dBm or better on 5/6 GHz in all covered areas	survey report with one coverage screenshot per floor	☐ pass ☐ fail		
T9	R8, F5 controller HA (failover test)	fail the active CW9800M with 50 clients connected	no client disconnect; failover ≤ 3 s [A]	failover timing from a client ping log; log extract of the controller's switchover	☐ pass ☐ fail		
T10	R10 DCI capacity	400GbE client to client across each NCS 1014 chassis pair (dca-opt-01 to dcb-opt-01, dca-opt-02 to dcb-opt-02), line-rate test on both at once	400 Gb/s on each pair, 2 × 400 Gb/s in all, zero errors over 1 h	test-set report export (throughput and error counters, 1 h, per pair)	☐ pass ☐ fail		
T11	R11 DCI encryption (proof of encryption in transit)	confirm line encryption active on both wavelengths	OTNSec session state SECURED, cipher AES-GCM-256, on the lit trunk of all four chassis	log extract per chassis: `show controllers odu-flex R/S/I/P otnsec`	☐ pass ☐ fail		
T12	F7 one wavelength down (failover test)	pull the line fiber of one chassis pair under 400 Gb/s of test traffic that the DC fabrics' routed links spread over both pairs (SDD-NET-001 §4.3)	all 400 Gb/s continues on the second wavelength, now at half capacity (400 Gb/s); switch ≤ 50 ms [A]	failover timing derived from the test set's loss count	☐ pass ☐ fail		
T13	F1 one access uplink down (failover test)	pull one 100G uplink under load	convergence < 1 s (R13); no session loss	failover timing from the traffic loss count	☐ pass ☐ fail		
T14	F3 one core member down (failover test)	power off one 9500X member	convergence < 1 s; all SVIs up on survivor	failover timing; log extract of SVI status on the survivor	☐ pass ☐ fail		
T15	F2 access stack member down (failover test)	power off one member of a stack	other members carry; stack re-elects	log extract: stack re-election and member status	☐ pass ☐ fail		
T16	F6 one WAN transport down (failover test)	disconnect one transport at a branch under a voice call	call continues; SD-WAN steers within seconds	failover timing from the SD-WAN event log; call-quality record	☐ pass ☐ fail		

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ID	Tests	Method	Pass criterion	Evidence it produces	Result	Evidence captured	Date · initials
T17	F8 NCS 1014 chassis down (failover test)	power off one chassis (dca-opt-01) under the T12 load of 400 Gb/s spread over both pairs	DCI continues on the other chassis pair (dca-opt-02 to dcb-opt-02) at half capacity, carrying all 400 Gb/s	test-set report export; log extract of the surviving chassis	☐ pass ☐ fail		
T18	F10 in-band management lost	shut the management VLAN	every device reachable via OOB and LTE	log extract: console-server and LTE session log per device	☐ pass ☐ fail		
T19	R9 IPsec throughput at HQ	IPsec test flow through the HQ SD-WAN edge pair (hq-wan-01/02), the hub	hardware IPsec engaged; throughput as designed [A]	log extract: crypto-engine counters; iperf3 output	☐ pass ☐ fail		
T20	QoS end to end	mark voice at access, read markings at core, WAN edge, DCI	EF preserved at every hop	packet-capture extract at each hop	☐ pass ☐ fail		
T21	cut-over step 3	move one SVI to the new core and back	move and rollback each ≤ 5 min, no outage	change log with timestamps for move and rollback	☐ pass ☐ fail		
T22	cut-over step 5	migrate one floor's SSID	clients roam to the new SSID; old SSID rollback works	controller screenshot of the client table before and after	☐ pass ☐ fail		
T23	Encryption in transit, management and user plane (R14, SDD §4.4, §6.4)	attempt Telnet, HTTP and SNMPv1/v2c to one device of every class; read SSH, SNMPv3, WLAN and SD-WAN tunnel security	no clear-text management protocol answers; SSH v2 and SNMPv3 authPriv only; corp SSID WPA3-Enterprise; SD-WAN tunnels up under IPsec	log extract per device class; screenshot of the corp WLAN security settings; tunnel status extract	☐ pass ☐ fail		
T24	Encryption at rest (SDD §6.4, §8)	read stored secrets on one device of every class; inspect the as-built and evidence archive	no clear-text secret in any configuration (secrets hashed, stored keys encrypted); archive stored encrypted in the client's repository	redacted log extract of the secret lines per device class; screenshot of the archive's encryption setting	☐ pass ☐ fail		
T25	Security logs reach the client's collector (R14, SDD §6.4)	raise a test event (failed login) on one device of every class	each event visible at the client's collector within 60 s [A], with device name and timestamp	screenshot of the collector search showing one event per device class	☐ pass ☐ fail		

3 · Validated components and versions

Planned software was read on Sep 24, 2026 and is read again on the day of staging. Software at test, serial and test result stay empty until the test runs: together they are the per-device quality record.

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3.1 Devices and software

Table 3. Devices and software

Device	Model	Planned software, read Sep 24, 2026	Software at test	Serial	Test result	Validated in
	Catalyst 9300X-48HX	IOS XE 17.18.4 [S]				T1–T3, T6, T13, T15, T23–T25
	Catalyst 9500X-60L4D	IOS XE 17.18.4 [S]				T4, T14, T20, T21, T23–T25
	CW9178I	IOS XE 17.18.4a with APSP2, image served by the controller [S]				T7, T8, T22
	CW9800M (the Catalyst 9800-40 is not used: end of sale Dec 31, 2025)	IOS XE 17.18.4a with APSP2 [S]				T9, T22, T23–T25
	SD-WAN edge, Cisco G2 Secure Router range, model at quote [A]	Cisco recommended release on the day of staging [A]				T16, T19, T20, T23–T25
	NCS 1014 × 4 (dca-opt-01/02, dcb-opt-01/02), each with an NCS1K14-2.4T-K9 line card and a CIM8-C-K9	IOS XR 26.x, release current on the day of staging [A]				T10–T12, T17, T23–T25
	Console server, management switch, LTE router, models at quote [A]	recorded at staging [A]				T5, T18, T23–T25

Sources for the planned software: Cisco's recommended releases for Catalyst 9300X/9500X (page updated Sep 4, 2026) and TAC-recommended releases for the Catalyst 9800 family with Wi-Fi 7 (page updated Sep 3, 2026); URLs in SRA-NET-001 §9.2.

3.2 Test tools

Table 4. Test tools

Tool	Version	Used in
iperf3	3.21, released Apr 9, 2026 [S] `https://software.es.net/iperf/news.html`, read Sep 24, 2026	T7, T19
400GbE Ethernet test set, two 400GbE ports (one per chassis pair, T10) [A]	make, model and firmware recorded when the kit is fixed [A]	T10, T12, T13, T14, T17
Wi-Fi 7 test clients (20)	device model and OS version recorded when the kit is fixed [A]	T7, T9, T22
Wireless survey tool and adapter	product and software version recorded when the kit is fixed [A]	T8
Optical power meter or OTDR	model and calibration date recorded when the kit is fixed [A]	T10–T12 (loss budget, SDD P3)
Packet-capture tool	product and version recorded when the kit is fixed [A]	T20
Voice handsets for the call test	model and firmware recorded when the kit is fixed [A]	T16

A case run with a tool whose version is not recorded here is not evidence and is run again [A].

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4 · Acceptance record

Table 5. Acceptance record

	Name	Role	Signature	Date
Client acceptor				
Symbeeo test lead				
Symbeeo practice lead				

Waivers: F4 (one AP down), covered by the T8 coverage survey; F9 (site power lost), which has no automatic recovery to test; both to be initialed by the client at acceptance. Open defects are recorded at acceptance.

Acceptance terms:

- **Acceptance is positive and signed.** It exists only when the client's named acceptor signs the table above. Silence, use of the network in production, or the passing of a deadline is never acceptance.
- **Review window.** The client has **10 business days** from delivery of the results to review them [A].
- **Fix window.** For any failed case, Symbeeo has **10 business days** to fix it, then the case is run again and the client has **one re-review** [A].
- **Warranty.** The warranty starts on the date of signed acceptance.

The 10-and-10 are defaults drawn from the 5–30 day range found in public contracts, marked [A]; the Founder can set others per engagement.

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SYMBEEO

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Figures are as published by their sources on the dates given in this document; figures marked [A] are assumptions.

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