

MEMORANDUM

After-Hours Test Plan — UniFi UDR7 Cutover Test

Prepared for CFS technical follow-up

Date	April 2026
Subject	Test whether the UniFi UDR7 can operate as the primary router for the main CFS network with the MikroTik RouterBoard and Cisco ASA removed from the live path.
Objective	Determine whether the UDR7 can carry the core CFS data network cleanly and identify any remaining dependency on the Cisco ASA, MikroTik, or current DNS design.
Window	After-hours only, with adequate time reserved for rollback if needed.

Background. Prior testing established that the UDR7 can obtain WAN service directly from the Spectrum/Charter EN2251 cable modem after a modem reboot. Prior testing also showed partial success operating the UDR7 on the live 192.168.44.x network, with both Wi-Fi and Ethernet clients working once DNS fallback was added. The remaining open questions are whether the Cisco ASA is still a hidden dependency and whether DNS remains the primary limiting factor during a production-style cutover test.

Important caution: The phone environment may still depend on firewall behavior, QoS, STUN, or other Cisco-linked handling. A successful data-network cutover does not necessarily guarantee phone success without additional adjustments.

Pre-Test Checklist

- Confirm the UDR7 is configured for the intended CFS LAN subnet and DHCP range.
- Confirm only one device will provide active routing and DHCP during the test window.
- Verify the intended internal DNS target and confirm whether temporary public DNS fallback will be used for this test.
- Have a wired laptop and at least one Wi-Fi client ready for validation.
- Document the current cable layout with photos before disconnecting anything.
- Review and keep the rollback sequence in hand before beginning.

Test Procedure

1. Disconnect the EN2251 modem from the current production routing path and connect it directly to the UDR7 WAN port.
2. Power-cycle the EN2251 modem if necessary so that the UDR7 receives a fresh lease and a public WAN IP.
3. **Disconnect the MikroTik broadband router** cables from the active CFS network so it is fully out of the live path.
4. **Unplug power from the Cisco ASA 5506-X** so it cannot remain as an active or hidden dependency during the test.
5. Connect a UDR7 LAN port to the Netgear switch so the UDR7 becomes the only active router / gateway for the main CFS network during the test.
6. Verify that test clients receive the expected IP configuration from the UDR7, including IP address, gateway, and DNS settings.

Validation Sequence

7. Basic internet access
 - Confirm a wired laptop can browse the internet.
 - Confirm a Wi-Fi client can browse the internet.
8. DNS and internal resource access
 - Verify resolution of public websites.
 - Verify reachability of the internal DNS / domain controller host.
 - Verify access to file server and printer resources as needed.
9. Phone system check
 - Confirm whether phones boot and register.
 - Place an outbound test call if phones appear online.
 - Note call quality or any registration / voicemail failure.

Success Criteria

- The UDR7 receives WAN service directly from the EN2251 modem.
- The UDR7 provides routing and DHCP for the 192.168.44.x network without the MikroTik or Cisco in path.
- Wired and Wi-Fi clients can reach both internet and internal resources.
- The test clearly reveals whether the phone system still depends on the Cisco ASA or related firewall behavior.

Rollback Plan

10. Disconnect the UDR7 from the live CFS switch path.
11. Reconnect the original modem / router path.
12. Reconnect the MikroTik as previously installed.
13. Restore power to the Cisco ASA.
14. Restore original switch uplinks and cabling.
15. Verify internet service and place an outbound phone test call before leaving the site.

Post-Test Notes to Capture

- Whether EN2251 required a reboot
- UDR7 WAN status and IP lease results
- Client DHCP / gateway / DNS behavior
- Internet and internal-resource test results
- Phone behavior with Cisco removed from service
- Exact cable changes made and the final state of the network when leaving the site

state 0

Charter Modem EN2251 B522231F562
Charter Router A92218330ADC 192.168.44.?? 192.168.1.1 admin/admin??
Netgear FS728TP switch 24 x 10/100 Mbps RJ-45 PoE, 2 x 1Gb Copper, 2 x 1Gb Combo SFP 192.168.44.13 192.168.0.239 admin/password
PANDUIT patch panel
APC Back-UPS CS 350
MikroTik RouterBoard RB3011UiAS-RM 192.168.44.19
CISCO ASA 5506-x firewall 192.168.1.1
TP-Link wifi access point
Dell PowerEdge R720 5FH48Y1 > CFSDC2 (Domain Controller) 192.168.44.60 > CFSFS (File Server) 192.168.44.61 > CFSPRN (Print Server) 192.168.44.62 > VJUMP (Jump Box/Admin VM) 192.168.44.30

This is the current state of the CFS IT network architecture as of March 14, 2026.

