**Test Name**

Automation for Maintenance Functions

**Test Abstract**

The purpose of this test is to determine response to automation for data center fabric maintenance and troubleshooting capabilities. This test requires automation support.

The tests will include link failures, node failures, and NOS configuration changes on service connections.

**Test Topology**

A Side

B Side

Leaf / TOR

Spine / EOR

Border / Access



Dell

Srvr4

Dell

Srvr5

Dell

Srvr6

Dell

Srvr3

Dell

Srvr2

Dell

Srvr1



VPN Access

**Testbed Requirements**

Each switching and routing device in the network to utilize automation tooling to centralize troubleshooting and maintenance functions.

**Detailed Steps**

* Software upgrade
* Software downgrade
* Cost out a device for maintenance
* Poll network devices for operational status

**Results**

(Record data loss and service outage time for link down, node down, and configuration scenarios)

**Observations**

Note configuration complexity, or lack thereof.

Verify operationally capable of quickly identifying outage location.

**Defects**

(Note any observed defects and anticipated severity; e.g., Critical, Major, Minor)

**Conclusions**

(Note conclusions based on Test Results and Observations)