The Staging Experience
Staging Document

• What it contains:
  – Staging Network Logical Topology
  – Physical Staging Rack-Stacking Plan
  – Addressing Plan
  – Staging Test Descriptions and results
  – Serial numbers of All Cisco equipment

Loads and Loads of Documentation!!
Found Issues

• CEF Inconsistency on 12404

The DDTS Logged:
CSCdw72626

Release Note:
When there are multiple paths available in IPv6 and the packets are CEF switched. If in this case one of the prefixes disappears (by a shutdown of an interface for example).

Then the redundant route disappears but the CEF entry still exists with result that some traffic will be blackholed towards an invalid next-hop

Cisco Systems
• CEF Inconsistency on 12404

Description:
The CEF entries in the 12404 are not dynamically updated correctly when the CORE topology changes. When for example a link goes down, then this info is propagated correctly with the means of ISIS. This happens pretty quickly. However the change of the routing table does not have a trigger effect on the CEF FIB when there are multiple paths in the CEF FIB, and the routing table change gets not reflected correctly because the bad path/route gets not deleted.

Result: the routing table is correctly updated, while for CEF the link that went down still exists.
Found Issues

• CEF Inconsistency on 12404

Workaround:
Clear the routing table to trigger an CEF update

Wait for new IOS with DDTS Fix
• BGP Password Authentication

The DDTS Logged:

**CSCdw95214**: ALIGN-3-SPURIOUS: Spurious memory access in bgp_password_parse

**CSCdx13342**: Spurious memory access and Traceback when config BGP peer-group (Duplicate of CSCdw95214)

**CSCdw92204**: FLO_ISP: Spurious memory access made at bgp_password_parse
Found Issues

• BGP Password Authentication

**Description:**
For the sake of security md5 Password authentication will be enabled between the BGP speaking routers. There is no issue when configuring a Password between the iBGP speakers in the 6NET cloud. There is an inconsistency when we try to do a Authentication on eBGP between a 6NET Core router (12404) and a NRN 7206 router. The authentication between two 12404’s seems to go OK as the eBGP session comes up.

**Workaround:**
Disable BGP Password Authentication between 12404 and 7206 routers. All other peerings between 12404 on BGP level are performing as expected

Cisco Systems
Found Issues

- ATM ptp IPv6 address issue

The DDTS Logged:
CSCdx10517

Release Note:
When a TAZ line card is running IPv6 under sub-interfaces, reloading RP will cause all v6 addresses lost under configured under TAZ.
IPv4 is working correctly.
• ATM ptp IPv6 address issue

**Workaround:**
This problem happens when encasulation configuration uses the following style:

```
pvc 0/1
    encapsulation aal5snap
```

when it uses:

```
atm pvc 1 0 1 aal5snap
```

The problem does not happen.
Found Issues

• ISIS Tuning

**Description:**
When trying to implement the ISIS tuning parameters the IOS code put restriction that secondary timer should be larger as initial wait.

After discussing with the ISIS IOS Development engineer the following values were entered in the 6NET core environment:

```
spf-interval 1 1 10
prc-interval 1 1 10
lsp-gen-interval 5 1 50
```
The Staging Experience

Pictures

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