



128T RELEASE NOTES

VERSION 4.1.5-2

Abstract

16 August 2019

Note: The 4.1.5-2 release requires the 128T-installer 2.3.0 or greater. By default, the latest installer will automatically be used.

PRODUCT ENHANCEMENTS

Overlapping IP address support for adjacencies: DHCP Overlapping IP addresses are private IP addresses that are the same but in different router locations in the 128T network topology. While previous releases did not prevent or warn on this type of configuration, this capability is now supported in the 4.1.5 release and should only be used when all routers are upgraded to 4.1.5. See **I95-29842** under the Caveats section if your network is currently setup with DHCP Overlapping IP addresses.

This release also addresses the following items.

4.1.5-2

- **I95-30078** HA node communication failure resulting in missing routes
- **I95-30387** 'path MTU is unresolvable' alarm after 128T restart or BFD link erroneously shows 100% packet loss when device is behind a NAT

4.1.5-1

- **I95-25787** Overlapping IP address support for adjacencies (see Special considerations below)
- **I95-27406** CTRL-C does not terminate PCLI tab completion
- **I95-28337** Loss of connectivity between peer nodes resulted in client request failures
- **I95-29135** salt-minion fails to reconnect to Conductor upon interface state change on Router
- **I95-29136** Configured PCLI session limit warning not provided
- **I95-29173** PCLI device interface tab completion configuration may result in unexpected output
- **I95-29188** Performance improvements for distributing large configurations from Conductor to routers
- **I95-29206** Routers establish connections to the Conductor in a way that avoids "thundering herd" problems

- **I95-29217** Inaccurate "There are changes waiting to be validated. Click the validate button to refresh the list." message in the configuration section of the conductor UI
- **I95-29238** Entering new configuration on with single-line-commands result in configuration not being honored
- **I95-29252** Allow dynamic VLAN reconfiguration
- **I95-29278** Revertible path failover can sometimes not revert a session
- **I95-29282, I95-27182** Restart of the standby conductor node may impact access to active Conductor node
- **I95-29283** System default Linux ARP table size is increased to correspond with number of peering routers
- **I95-29289** Redundant interface may be incorrectly considered down when peer node is shutdown
- **I95-29364** Node not transitioning from starting state on initial deployment
- **I95-29367** Application can fault when disabling a T1 Interface
- **I95-29377** Application can fault when disabling a LAN Interface that is configured for DHCP
- **I95-29430** Commit Progress indicator does not transition if commit is performed with validation errors
- **I95-29502** Reduced internal messaging on path SLA state changes, improving flow move responsiveness
- **I95-29688** Interprocess communication failure resulted in 'show system' showing partial data
- **I95-29841** Missing case security policy may cause an application fault
- **I95-29744** Restart of the standby node may result in failed sessions
- **I95-29282** System reboot may result in leader for Conductor taking an extended time to resolve

SPECIAL CONSIDERATIONS

- When configuring network-interface adjacencies via the PCLI the peer is now required. If the peer is missing the PCLI will provide a message that it is required:

"Argument 'peer' is required"

- Running a Mixed I28T Version Network (4.1.5 and below 4.1.5) duplicate IP addresses that create peer connections to the same peer are not supported. Performing this type of configuration will result in validation failures and block configuration commits.

CAVEATS

- **195-29842** Nodes with Overlapping DHCP addresses will not be displayed when 'show peers' command is run
 - Symptom:* Nodes with Overlapping DHCP addresses will not be displayed in the output of show peers
 - Conditions:* After upgrading to 4.1.5 and if Overlapping DHCP addresses are being used in the network topology
 - Corrective Action:* After upgrading the Conductors perform a commit operation from either the PCLI or the Conductor GUI
- **195-29733** Conductor UI may not provide an indication that a refresh is in progress (flashing blue dot)
 - Symptom:* When selecting the Router to refresh the available versions to upgrade, the flashing blue indicator may not be present
 - Conditions:* Shortly after both HA conductors have been upgraded and the refresh button is selected for a router
 - Corrective Action:* N/A, no user corrective action can be performed. Waiting for a moment will result in the appearance of the solid blue dot if an upgrade is available (Note: Both conductors must be running a version greater than or equal to the target router version)
- **195-29592** Conductor UI and/or PCLI may not update the asset software version correctly
 - Symptom:* The Conductor UI and/or the PCLI may not correctly reflect the software version running on the asset
 - Conditions:* After the asset has been upgraded
 - Corrective Action:* If the asset is not updated after ~5 minutes after an upgrade is performed, the salt-minion will need a restart on the asset node that does not update the version. This is done with the following command on the node as the root linux user:

```
"systemctl restart salt-minion"
```
- **195-29271** PCLI/Netconf subsystem may fault on exit
 - Symptom:* PCLI or Netconf session may fault
 - Conditions:* On session exit (either exit from PCLI or direct Netconf session exit)
 - Corrective Action:* N/A, no user corrective action is required.
- **195-27946** Commit may fail on conductor when node in router pair is stopped
 - Symptom:* When performing a commit to a router where one of the nodes is offline, the commit from the Conductor may not respond or may fail. Performing a validate operation a second time may provide the following error response:
"✘ Validating..."
% Error: Candidate configuration is invalid:

1. A request of type validate is already in progress"

Conditions: When a node in the router pair is offline.

Corrective Action: The validate operation is sent from the conductor to the nodes to verify that the configuration is correct. The validate will timeout to the node that is offline. Bring the node back online and perform the operation a second time.

- **195-27944** Network error may cause upgrade to fail and not retry.
 - **Symptom:** The following message is provided on the Conductor UI

"The upgrade failed because: NetworkError when attempting to fetch resource."

Conditions: When upgrading the Conductor from the Conductor GUI

Corrective Action: Verify the conductor can reach the 128T repository, once verified to be accessible, perform the upgrade operation again.

- **195-29134** "save tech-support-info" fails to create tech support file

Symptom: "save tech-support-info" fails with the following error message:

```
"Error: Failed to execute the 'save-tech-support-info' RPC: Fatal error creating tarball"
```

Conditions: When configuration exports have been saved with spaces in the name of the exported configuration file

Corrective Action: Remove the saved configuration files with spaces in the name and avoid using spaces when exporting configuration. Note: Exporting configuration files with spaces in the name may be prevented in a future release.

- **195-28766** 'Conductor PCLI shows configuration change when no changes have been performed

Symptom: Conductor PCLI may incorrectly provide an * that there is a candidate configuration change

Conditions: Unknown

Corrective Action: Perform the PCLI command on the router to update the information on the conductor.

- **195-27808** 'sync peer addresses router force' from conductor may not trigger router to send address information from peer

Symptom: When performing the following command on the conductor PCLI 'sync peer addresses router force' the router may not provide the peer address information

Conditions: Unknown

Corrective Action: None, if the configuration has not changed this indicator can be ignored. A comparison can be performed with:

"compare config running candidate"

- **I95-27722** Alarms for Peer not reachable may persist after nodes are back and operational

Symptom: Alarms for a peer not reachable provided in on the Conductor

Conditions: Unknown, seen after system upgrade

Corrective Action: NA, The alarms will clear within 15 minutes.

- **I95-30103** Entering flat configuration into PCLI does not always create the configuration

Symptom: When performing configuration using flat (or cut and paste of the complete flat configuration line) the configuration is not applied

Conditions: When a configuration object does not previously exist and setting an attribute of that configuration object. For example in the following configuration line:

"configure authority tenant one name one"

if the "tenant one" configuration object does not exist, the tenant object will not be created. If it does exist then the command will set the attribute "name" to "one"

Corrective Action: On initial creation, do not use flat configuration operations for creating the configuration.