

POLARIS NETWORKS FUNCTIONAL TESTER

Release Notes

Date: 06 April, 2018

Introduction

The Polaris Functional Tester is an automated test suite for testing the correctness of an implementation of the LTE Mobile Management nodes (i.e. MME, and Combined-SGW-PGW) according to 3GPP TS 36.413 (S1 Application Protocol), TS 24.301 (NAS), TS 29.274 (GTPv2-C), TS 29.272 (Diameter) and other relevant Release 8-11 standards.

Version 13.0.0.6

Release Date: April 06, 2018

Component Versions

Polaris Functional Tester: 13.0.0.6

Total Number of available test cases

- SPGW : 173
- MME : 786 (Deleted: **15** test-cases)
- PGW : 387 (Deleted: **4** test-cases)
- SGW : 344

Modifications in this release

Functional Tester	Removed Test-cases
MME	7.2.13, 14.7.11, 14.7.12, 14.8.1.8, 14.8.2.3, 17.2.1.3, 18.1.2.1, 2.1.67, 20.1.1.2, 20.1.1.3, 20.1.1.4, 20.1.1.6, 20.1.2.2, 20.1.2.3, 20.1.2.4
PGW	4.3.3, 6.5.1, 6.5.2, 6.5.3

Resolved Issues

Issue #	Summary
15521	PGW-FT: TC-26.3.1: UL TFT missing in Flow Information thus the UL data is getting dropped by PGW so TC fails.
15791	SGW-FT: TC-3.1.1.4: Test MME does not send Release Access Bearer Request after receiving DL Data Notification for Connected UE.

Known Issues

Issue #	Summary
15774	SGW-FT: UE should support IPv6 PDN.

Version 13.0.0.5

Release Date: March 28, 2018

Component Versions

Polaris Functional Tester: 13.0.0.5

Total Number of available test cases

- SPGW : 173
- MME : 801
- PGW : 391
- SGW : 344

New in this release

- Tester Client tool can run on both Linux (CentOS, Ubuntu) as well as Windows (Win-7, Win-8) platforms.
- Test batch run duration has been reduced significantly due to enhancement in SCTP session handling.
- Support for DRA in between DUT and Diameter Nodes for Gx, Gy and Gz.
- Enhanced to support the PGW(part of SUT) is configured as a NAT box.

Resolved Issues

Issue #	Summary
15875	PGW-FT: Post-able section should support separate handling of S5/S8 GTP and IP-CAN session termination.
15874	PGW-FT: All test builder test cases are able to handle dual stack User plane and Dynamic UE IP Allocation.
15708	PGW-FT: Support for DRA in between DUT and Diameter Nodes for Gx, Gy and Gz.
15654	PGW-FT: After exchange of CER-CEA, FT should wait for a user configure-able wait timer prior to test execution.
14211	SGW-FT: Enhance TC 2.4.3.1, to include Change Reporting Support functionality.
15865	SGW-FT: TC 2.10.1.3 to up-held the test objective Test_MME should send MBreq with T-Flag set to Zero.
15817	PGW FT should display Error/Warning msg when the established PDN session is not cleaned-up properly in the post-amble section.
15973	SGW FT: Test_PGW and Test_eNB sends DL/UL GTP-U Data with incorrect Length value in GTP-U header.
15970	PGW FT: Test_SGW sends UL GTP-U Data with incorrect Length value in GTP-U header, leading the DUT to drop the packet.
15971	PGW-FT: Added new test case where internet host will send DL data smaller than minimum ethernet frame size(64 bytes)
15521	PGW-FT: TC-26.3.1: UL TFT missing in Flow Information thus the UL data is getting dropped by PGW so TC fails.
15754	SGW-FT: TC-2.13.6.1: Test eNB(FT) should not send end markers to target SGW(DUT) during S1-HO with SGW relocation.
15791	SGW-FT: TC-3.1.1.4: Test MME does not send Release Access Bearer Request after receiving DL Data Notification for Connected UE.
15937	PGW-FT: TC-9.1.1: FT does not send Delete Bearer Response and that cause the next test case failure.

Known Issues

Issue #	Summary
15774	SGW-FT: UE should support IPv6 PDN.

Version 11.3.0.11**Release Date:** December 29, 2017**Component Versions**

Polaris Functional Tester: 11.3.0.11

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- None

Resolved Issues

Issue #	Summary
16030	FT always fails to initialize Test System after one failure to do so.
16021	In CLI mode, FT fails to overwrite the previous setup/config files after execution of polaris<dut>ft -setup command.

Known Issues

Issue #	Summary
16146	Test_PCRF fails to re-establish Gx TCP session with DUT, if DUT reloads in between tests during test execution. Thus remaining tests fail.

Version 11.3.0.10**Release Date:** December 27, 2017**Component Versions**

Polaris Functional Tester: 11.3.0.10

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Enhanced support to upgrade polarisft configurations for Ubuntu Platform.
- Added additional options for Diameter Session Management.

Resolved Issues

Issue #	Summary
15568	Polaris FT may not behave properly when user tries to abort a test case during test execution.
15749	FT nodes may take much time to initialize with ipv6 address. For the time being work around for this problem is to add the Ipv6 addresses manually before running the test case.

Known Issues

Issue #	Summary

Version 11.3.0.9

Release Date: November 20, 2017

Component Versions

Polaris Functional Tester: 11.3.0.9

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Support for DRA in between DUT and Diameter Nodes for Gx, Gy and Gz.
- Enhanced to support the PGW(part of SUT) is configured as a NAT box.

Resolved Issues

Issue #	Summary
15875	Post-able section should support separate handling of S5/S8 GTP and IP-CAN session termination.
15708	Support for DRA in between DUT and Diameter Nodes for Gx, Gy and Gz.
15654	After exchange of CER-CEA, FT should wait for a user configure-able wait timer prior to test execution.

Known Issues

Issue #	Summary
15568	Polaris FT may not behave properly when user tries to abort a test case during test execution.
15749	FT nodes may take much time to initialize with ipv6 address. For the time being work around for this problem is to add the Ipv6 addresses manually before running the test case.

Version 11.3.0.8

Release Date: November 08, 2017

Component Versions

Polaris Functional Tester: 11.3.0.8

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Dynamic S1-U IP Address allocation for SPGW-FT.
- Additional AVP support for CCR.

Known Issues

Issue #	Summary
15568	Polaris FT may not behave properly when user tries to abort a test case during test execution.

Version 11.3.0.7**Release Date:** October 20, 2017**Component Versions**

Polaris Functional Tester: 11.3.0.7

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Enhanced TCP link support for various diameter nodes.

Known Issues

Issue #	Summary
15568	Polaris FT may not behave properly when user tries to abort a test case during test execution.

Version 11.3.0.6

Release Date: October xx, 2017

Component Versions

Polaris Functional Tester: 11.3.0.6

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Test batch run duration has been reduced significantly due to enhancement in SCTP session handling.

Resolved Issues

Issue #	Summary
15534	Sometimes the FT-Console takes a long time to open a previously saved test results file.

Known Issues

Issue #	Summary
15568	Polaris FT may not behave properly when user tries to abort a test case during test execution.

Version 11.3.0.5

Release Date: August 16, 2017

Component Versions

Polaris Functional Tester: 11.3.0.5

Total Number of available test cases

- ◆ Combined-SGW-PGW: 173
- ◆ MME: 794

New in this release

- Added 116 new test-cases to test the DUT as Combined-SGW-PGW.
- Added the following new features:
 - Batch Management.
 - A new context-menu in Test Explorer added to edit test script.

Known Issues

Issue #	Summary
15534	Sometimes the FT-Console takes a long time to open a previously saved test results file.

Version 11.3.0.2 Beta

Release Date: March 31, 2017

Component Versions

Polaris Functional Tester: 11.3.0.2 Beta

Total Number of available test cases

- Combined-SGW-PGW: 57
- MME: 794

New in this release

- Added 57 new test-cases to test the DUT as the Combined-SGW-PGW.
- Added new Client tools 'FT-Console', 'Test-Builder' and 'Packet-Builder', along with the existing CLI utility.
- Facilitated so that the Tester service can run on Linux (CentOS), and Tester Client tools can run on both Linux (CentOS and Ubuntu) as well as Windows (Win-7 and Win-8) platforms.

Known Issues

Issue #	Summary

Version 11.2.0.1 Beta

Release Date: November 07, 2016

Component Versions

- Polaris Functional Tester: 11.2.0.1 Beta
- Polaris Functional Tester Test Procedures: 11.0.0

Total number of available test cases

Test cases: 794

New in this release

- Test tool supports the Linux platform.
- Tests can be run using the Command Line Interface (CLI) utility. Please see 'Polaris Functional Tester Linux User Guide' for details.

Renamed / Deleted / Moved test cases

- Deleted MME interactive test-cases.
i.e. 1.3.1, 1.5.3, 12.3.8, 13.1.1.1, 14.3.1.1, 14.8.1.9, 15.2.12, 21.3.1, 21.3.2, 21.3.3, 23.3.8, 6.1.2.1.1.1, 6.1.2.1.1.2, 6.1.2.2.1, 6.1.2.2.2, 6.1.2.2.3, 6.1.1.3.1, 6.1.1.5.2, 6.1.1.6.2, 6.1.2.1.2, 6.2.2.1.2, 6.2.4.3.7, 6.2.4.3.8, 6.2.4.5.7, 6.2.4.5.6.

Known Issues

Issue #	Summary