Spectra2

Version 8.2 Release Notes

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Tektronix Communications, Inc (formerly Inet Technologies, Inc.)
3033 W President George Bush Highway
Plano, TX 75075 USA
469-330-4000 (voice)
www.tekcomms.com/spectra2 (URL)

Contacting Customer Support for Upgrades and Decodes
For additional information about this release, upgrades, or to request decodes, contact:

Technical Assistance Center (TAC) – Plano, Texas USA
Serves North America, South America, Latin America, Asia, UK, Europe, Middle East, Pacific Rim and Africa.

469-330-4580 (Customer Support voice)
469-330-4617 (Customer Support fax)
tektronix-nd-tac-us@tekcomms.com(Customer Support e-mail)

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1   Introduction

This document contains information pertaining to the Spectra2 version 8.2 release. This information is intended for individuals who are responsible for installing, deploying, using or supporting Spectra2. This release contains introduction of new features and fixes to some major and minor issues listed.

2   New Features

2.1   Media Testing: IPSMi-Gen2 based High Performance Media test solution

Spectra2 v8.2 introduces the next phase of high performance media support by allowing hundreds of thousands of voice RTP streams to be generated using the latest IPSMi-Gen2 cards. Both 1GE and 10GE interface type options are supported.

This enhancement targets voice network media elements such as SBC (Session Border Controller) and MGW (Media Gateway) for large scale RTP load testing.

This option is only applicable to IPSMi-Gen2 cards and is licensed based on total RTP Sessions.

2.2   Advanced Testing: Additional protocol and Node Interworking support in ASMG

Advanced Signaling and Media generator (ASMG) – introduced in Spectra2 v8.1 – is expanded in this release with the introduction of SIP and TCAP protocol support – along with the existing Diameter support - allowing for complex interworking and simulation scenarios to be scripted.
Model node simulations such as CSCF, PCRF and SIP-AS can now be created with advanced data exchange across messages and protocols.

This enhancement targets scripted simulation of nodes that perform protocol and interface interworking within IMS as well as EPC.

The new node interworking options are licensed per node type.

2.3   Diameter Testing: New Diameter S6b/H2 interface

Spectra2 v8.2 introduces a new Diameter interface (S6b/H2) targeted at testing non-3GPP access authorization procedures and PGW updates to 3GPP AAA server. This initial implementation of the S6b/H2 interface does not automatically handle the EAP contents required for AAA authentication and authorization when the subscriber registers via the S2c interface.

The S6b interface is a new licensable item.

2.4   CAMEL Testing: CAMEL Release 10 updates

Updates to the CAMEL decode allow for Release 10 based parameters to be fully scripted and decoded as part of testing elements such as SCP, MSS and Application Servers. Additional CAMEL IMS interworking extensions based on 3GPP TS 23.278 are also included.

2.5   Signaling Performance: Support of "Performance Cores" in ASM Generator

Spectra2 v8.2 enhances the performance of signaling transactions in ASMG by introducing the concept of performance cores (i.e. additional tasks to load share the processing of transaction generation). Additional TPS/CPS performance gain can now be realized with the same amount of hardware.

3 System Product Enhancements (SPEs)

Spectra2 v8.2 contains the following enhancements:

3.1 Media

6394   High Performance Media solution with 1GE/10GE IPSMi-Gen2 cards (Phase II)
Second phase of high performance IP Test solution introduced in Spectra2 v8.1 addressing large volume RTP voice media testing.

3.2 ASM Generator

6329   SIP and TCAP support in ASMG
Additional protocol support in ASMG allowing for combined complex scripting and information exchange. Additional node based model interworking options.

6418   Support for "Performance Cores" in ASMG
New option to enable additional board tasks to be spawned and share the transaction generation work in ASMG.

3.3 Decode

6387   Update CAMEL decode to Release 10
Updates on existing CAMEL decode to support Release 10 parameters.

6388   Update CAMEL decode to support CAMEL-IMS extensions
Updates on existing CAMEL decode to support new Release 10 IMS specific extensions.

3.4 Diameter

6322   Diameter Support for S6b interface
New Diameter interface for testing of non-3GPP access authentication and authorization from PGW to AAA server. This initial introduction of the interface does not include automated handling of EAP parameters.

4 Fixed Problem Reports (SPRs)

Tektronix corrected the following system problem reports (SPRs) in Spectra2 v8.2. The following lists the SPRs in alphabetical order by functional area.

4.1 Capture Analyzer

31497   Round trip delay values are always (-) running pQoS Analysis Report

4.2 Diameter

31818   Peg counters are not incrementing in Diameter S6a script

31694   Incorrect value is displayed in Visited-PLMN-id AVP using Diameter S6a

4.3 ISUP

31783   Timeslot to CIC Trunk Group mapping GUI limitation on non-contiguous values

31236   Can't delete Info element id from ISUP Access transport parameter

4.4 Multi-Generator

31286   If one multi-generator model stops early, stats for other models stop updating

4.5 SIP

31723   Nonce value in SIP Authentication header in PRACK message is incorrect

31678   Spectra 2 Client crash after 10 minute run with "Unable to map view of file" error

4.6 TCAP

31820   System crashes when doing put data on GSM MAP IMSI parameter