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## Patch Release Notes for Signaling Analyzer 4.0.1001

The Signaling Analyzer 4.0.1001 patch release introduces a few improvements and fixes to the current Signaling Analyzer software.

### General Fixes

The following issues are fixed in this patch release:

- Auto configuration functionality failed in real-time operation due to the protocol stack assignment information getting corrupted through user's configuration of real-time captures.
- Real-time auto configuration sometimes misclassified downlink DCH speech frames as PCH. This fix requires the right equipment (for example, "Motorola") to be selected as Equipment in Use, in Configuration.
- Abnormal application termination encountered at random when opening new \*.sal files generated through auto deciphering or buffer playback mechanism.
- Abnormal application termination encountered when attempting to save large call trace sequence diagrams to JPEG file. This has been fixed with a message, warning user that call trace sequence diagram, when detected too large to be saved to a JPEG file, will be truncated.
- Random abnormal application termination when starting a capture that was related to deciphering module unloading.
- Failure to play back AMR speech frames sent over the Iu interface. This problem occurred when PDU Type 14 PDUs are received with Procedure Indicator set to values other than 'initialization'.
- Failure to read \*.sal files with linkset information stored.
- Controls in Configuration view of Signaling Analyzer occasionally appeared as disabled after selecting usage of a particular module. Using the Refresh button did not resolve this issue.
- Double-clicking on a DNA that is in use did not release the DNA; instead it launched the Network Analyzer.
- High Density T1/E1 LIM selected from the checkbox when not highlighted will result in a configuration not sent to the NA application.
- UMTS RLC/MAC reassembly issues listed:
  - Signaling messages sent over the common transport channels (FACH/RACH) can sometimes be truncated.
  - PDUs with length indicators indicating Previous PDU terminates RLC SDU did not work, in the case when previous PDU has been discarded due to bad CRC, and retransmitted at a later time.
- Call Trace sequence diagram could not be drawn for some calls from cdma2000 call traces.
- "Call Trace Template Compilation Fail" error encountered in DNA-MX.

## **Decodes and Call Trace Fixes**

The following issues are fixed in this patch release:

- The display format for latitude and longitude for RANAP decodes are required to be in degrees and minutes
- Enable view filtering of IP information from different protocol layers
- IMSI not extracted from Common ID message on Iu interface during call trace
- Enhanced Iu Call Trace with signaling only option (without grouping of GTP and fragments, IuUP)
- Support of NBAP SIB decodes if it is a Complete (Segment Type) SIB
- ALCAP not grouped by Iub Call Trace when NBAP procedure has different transaction ID type
- MAP call trace and decode errors
- Incorrect RANAP procedure ID information
- ITU-2000 ISUP call traces over ITU MTP3, and MTP3B
- 3GPP Gb BSSGP decode errors on MS Capability and MS Radio Access Capability
- Update of ITU-T MTP3b SI selector value of 13, 14 to BICC, GCP
- "SCCP RLC messages" marked as out of sequence incorrectly
- Incorrect calculations in Iub/Iu/Gn combined call trace on the number of packets in uplink and downlink
- IMSI in the A interface call trace was displayed backwards
- MNC RANAP decode error

## **Enhancements**

The following enhancements are made available in this patch release:

- A set of line graphs specific to cdma2000 technology is added:
  - cdma2000 A10/A11 call setup time
  - cdma2000 R-P interface call success/failure
  - cdma2000 PPP authentication transaction time over R-P interface
  - cdma2000 PPP transaction time over R-P interface
- Extended support for 3GPP UMTS Iub deciphering (06-2003 and 12-2003)
- Extended support for UMTS Release 5 03-2004 auto-configuration and protocol decodes for Iub interface
- Last protocol and last message columns added to Traffic Overview
- Improvement to RLC/MAC reassembly efficiency for IP frames over Iub interface
- Added 24-bits PC support for MTP3b
- Added Bellcore-related protocols support