

Introduction

The LTE Emulators emulate a number of 3GPP LTE network elements, including the Evolved NodeB (ENodeB), the Mobile Management Entity (MME), the Serving Gateway (SGW) and the PDN Gateway (PDN-GW). The Emulators are implemented according to the 3GPP Release 8 standards. The Emulators implement the network interfaces and the communication protocols required for the emulated ENodeB, MME, S-GW and PDN-GW to operate in an LTE/SAE network.

Version 3.2.0.4

Release Date: June 14, 2011

Component Versions

1. LTE Emulators : 3.2.0.4
2. LTE Emulators Console: 3.2.0.4

New in Release 3.2

1. Support for simulation of X2 based handover.
2. Enhanced support for home-eNB with Hybrid Access Control.
3. Support for OTA provisioning of CSG subscribers using the NAS control plane.

Resolved Issues

Issue #	Summary
5218	MME does not advertise all local IP addresses in Capabilities Exchange Request message on S6a when multi-homing is used.
5220	Local licensing does not work on 64-bit Fedora 13.
5251	MME Emulator cannot handle a unsuccessful Create Session Response with Cause =0.
5273	UE-initiated Bearer Resource Modification or PGW-initiated Bearer Update does not work after multiple UE operations on the same UE.
5276	When the SGW Emulator is used to emulate both an SGW and a PGW, the Create Session Response sent by the PGW does not contain the "F-TEID for S5/S8 PGW GTP-C Interface" IE.
5306	eNodeB Emulator crashes if MME does not respond to SCTP INIT at all.
5479	MME IP address entered at time of S1-MME setup is not saved in the saved configuration file.
5480	Detaching UE from the emulator does not work all the time.
5481	Discovery of other Polaris machines should remember the broadcast address. Should be able to have a /23 bit mask.
5489	EPC does not replay GERAN security capabilities of UE in SEC MODE COMMAND

Known Issues

Issue #	Summary
5006	S1AP Protocol Stack can not handle ERROR INDICATION packets properly.
5077	Console shows wrong GTP-U tunnel count in SGW GTP-U tab when eNodeB-initiated S1 Reset is performed for a group of 400 UEs.
5124	NAS policy configuration (Respond with Error using EMM Status) does not work for Attach Request and TAU Request if S10 (MME relocation) or S3 (inter-RAT procedures) interface is used.
5247	S1-Handover with MME relocation with a large group of UEs makes MME Emulator unstable.
5282	MME-initiated S1 Reset does not work properly after UE Attach.
5305	ENodeB Emulator crashes for Service request procedure when no MME exists for the PLMN selected by UE.
5309	LTE Emulator cannot handle IPv4 address/mask value 0.0.0.0/0 in Bearer filter component.
5365	TAI list in Attach Accept is not correct when UE Attaches through a CSG cell and more than one CSG cells serving different TA are present.

Issue #	Summary
5470	S1-Handover without MME and SGW relocation with a large group of UEs makes MME Emulator unstable when UEs move from one hybrid cell to another.
5485	S1-Handover with MME and SGW relocation with a large group of UEs makes MME Emulator unstable when UEs move from CSG cell to hybrid cell
5486	S1-Handover with MME relocation with a large group of UEs makes MME Emulator unstable when UEs move from hybrid cell to a macro ENodeB.
5488	New S1 setup Request received during existing S1 context is considered as unexpected message.
5532	MME emulator becomes unstable while running various procedures with large group of UEs .
5534	S1-Handover from home ENodeB to macro ENodeB with MME and SGW relocation with a large group of UEs makes MME Emulator unstable
5539	UE-Initiated Bearer Resource Allocation / Modification procedures should be supported for UE groups.
5544	X2-Based Handover is not working after S1-Handover for the same UE.
5545	Destination address is not correct in UL/DL ping traffic generated by LTE Emulators running on 64bit OS.