
Version 9.1.0.8

Release Date: February 22, 2013

Component Versions

1. LTE Emulators : 9.1.0.8
2. LTE Emulators Console: 9.1.0.8

Resolved Issues

Issue #	Summary
6957	UE-Initiated bearer modification procedure fails if same bearer is modified multiple times.
7253	Occasionally PGW Emulator terminates during Piggyback dedicated bearer creation with 1000 or more UEs.
7284	Polaris MME can not handle PathSwitchRequest message with unexpected IE.
7299	HSS-initiated UE Detach procedure fails for more than 5-10 UEs.
7336	MME shows incorrect packet count for "Service Request" message
7337	Emulator Console 9.x does not support eNB Emulator 4.2
7302	EPC nodes terminates abnormally after 12-14 hours while running overnight test-cases.

Version 9.1.0.7 Beta

Release Date: February 8, 2013

Component Versions

1. LTE Emulators : 9.1.0.7 Beta
2. LTE Emulators Console: 9.1.0.7 Beta

Resolved Issues

Issue #	Summary
7211	Packet loss is more than 50% when Downlink data traffic exceeds 100 Mbps.
7224	PGW Emulator terminates abnormally if it is reset after simulating various operations with 1000 or more UEs.
7228	Security Capability IE in Handover Request S1AP message contains incorrect information.
7301	MME crashes during Attach if the APN provided by the UE is not allowed by subscription.

Version 9.1.0.6 Beta

Release Date: February 1, 2013

Component Versions

1. LTE Emulators : 9.1.0.6 Beta
2. LTE Emulators Console: 9.1.0.6 Beta

New in Release 9.1

1. S6a interface in MME to communicate with external HSS
2. S13 interface in MME to communicate with external EIR
3. IPv6 user plane traffic – only on default bearer
4. Trace in SGW and PGW
5. Roaming – Home-Routed

Resolved Issues

Issue #	Summary
6536	Support for MME Configuration Update
6896	Parameter "UE Aggregate Maximum Bit Rate" needs to be configurable from MME.
6989	MME does not send UE Context Release command after receiving Initial Context Setup Failure from eNB.
6992	Sometimes MME does not send response to Service Request message.
6997	Script error while performing Attach-Detach regression test.
7007	Throughput drops if eNB makes UE idle frequently with ongoing DL data.
7008	Request for DNS configuration during Attach procedure
7021	MME Crash during S1 Handover
7027	Attach fails when UE requests to attach with a non-default APN.
7045	MME assigns same MME-UE-S1AP-ID to more than one active UE
7164	Crash observed at SGW while performing UL TCP and DL UDP with single GBR bearer created for 16 UEs
7171	MME sends Error Indication message after receiving MME Configuration Update Ack message.
7172	MME does not send MME Configuration Update message to all connected eNBs
7220	While performing ERAB setup and delete iteration we see misbehavior at PGW, SGW and MME
7227	MME throwing "None of the specified UEs are registered with this MME" error while performing Attach-Detach after 120 iterations
7234	During Handover Preparation phase, MME sends malformed target-to-source-transparent-container in "Handover Command" S1AP message.

Known Issues

Issue #	Summary
7096	PGW Emulator does not support Downlink IPv6 traffic on Dedicated Bearers
7211	Packet loss is more than 50% when Downlink data traffic exceeds 100 Mbps.
7224	PGW Emulator terminates abnormally if it is reset after simulating various operations with 1000 or more UEs.
7253	Occasionally PGW Emulator terminates during Piggyback dedicated bearer creation with 1000 or more UEs.

Version 9.0.0.10

Release Date: November 27, 2012

Component Versions

1. MME, SGW and PGW Emulators : 9.0.0.10
2. LTE Emulators Console: 9.0.0.10

Supported Signalling Procedures (compliant to 3GPP Release 9 standards)

1. S1 Setup, S1 Close, S1 Flex
2. S1 Reset: eNB Initiated and MME Initiated
3. SCTP Multi-homing on S1-MME
4. UE Attach: Initial Attach with IMSI / old GUTI
5. UE Detach: UE Initiated and Network Initiated
6. UE Context Release
7. Service Request
8. Tracking Area Update
9. Downlink Data Notification / Paging
10. Dedicated Bearer Activation: UE and Network Initiated
11. Bearer Modification: UE and Network Initiated
12. Bearer Deactivation: UE and Network Initiated
13. S1-Based Handover - with or without MME and SGW relocation
14. X2-Based Handover - with or without SGW relocation
15. Multiple PDN Connection and Disconnection
16. Trace support in MME
17. Overload
18. Location Reporting on S1-MME
19. SGW selection in MME based on Tracking Area
20. UE IPv4 address allocation by PGW using DHCP based
21. Closed Subscriber Groups and Open, Closed and Hybrid Access control to support Home eNB

Other Features

1. End-to-end IPv4 traffic on default and dedicated bearers
2. ICMP and UDP traffic generation using internal traffic generator
3. Simulation of abnormal and failure scenarios for negative testing
4. Procedure and Packet statistics for each protocol
5. Protocol timer configuration
6. Separate IP Address for each 3GPP interface