

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 4.2.0.18

Release Date: November 03, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.18
- 2.LTE Emulators Console: 4.2.0.18

Resolved Issues

Issue #	Summary
6883	MME configuration transfer failure due to wrong criticality value.
6738	Some times MME is not sending E-RAB request message to eNB
6724	Support added for running multiple emulator instances in a single system. Note: 1.The LTE Emulators installer downloads the libnfnetlink and libnetfilter_queue packages from the Internet. This is supported for Ubuntu and Fedora distributions. 2.On the emulator system, run "lsmod" and check if the modules ip_queue and ip6_queue are loaded. 3.If these modules are loaded, unload them using "rmmod ip_queue" and "rmmod ip6_queue" commands. 4.Check if the nfnetlink_queue and nfnetlink modules are loaded in system by using "lsmod" command. 5.If these modules are not loaded, load them using "insmod nfnetlink " and "insmod nfnetlink_queue" commands in this order.

Known Issues

Issue #	Summary
6490	The S1-MME Reset operation from eNodeB does not change the State of the UE in the MME->UE tab in the MME console.
6491	Handover issue in MME in certain scenarios.
6887	On rare occasions PGW emulator does not pass user plane traffic. Workaround restart PGW emulator.

Version 4.2.0.16**Release Date:** October 08, 2012**Component Versions**

- 1.LTE Emulators : 4.2.0.16
- 2.LTE Emulators Console: 4.2.0.16

Resolved Issues

Issue #	Summary
6608	eNB stops sending initial UE message when found a UE is ECM-connected from a UE group.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab, MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.
6490	The S1-MME Reset operation from eNodeB does not change the State of the UE from MME->UE tab.
6491	Handover issue in MME in specific scenario.

Version 4.2.0.15

Release Date: September 28, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.15
- 2.LTE Emulators Console: 4.2.0.15

Resolved Issues

Issue #	Summary
6630	ERAB ID showing as "zero" in the ERAB list.
6647	MME is unable to process E-RAB Release Indication message.
6636	MME is sending "Activate Dedicate EPS bearer context request " even after receiving negative response for ERAB Request.
6222	Delete packet filter from UE isn't working for security parameter index "FFFFFFFF".But from SGW & PGW ,it is working properly.
6607	Showing duplicate UE subscriber profile after loading .cfg file in Registered Subscribers(UE's) in HSS.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.
6490	The S1-MME Reset operation from eNodeB does not change the State of the UE from MME->UE tab.
6491	Handover issue in MME in specific scenario.

Version 4.2.0.14**Release Date:** August 30, 2012**Component Versions**

- 1.LTE Emulators : 4.2.0.14
- 2.LTE Emulators Console: 4.2.0.14

Resolved Issues

Issue #	Summary
6566	Problem with Bearer resource modification request message
6544	MME continue to send Paging to a crashed ENB, even after the UE is attached again through original ENB
6501	MME should process initialUE message received from an UE with known m-TMSI value by sending initialContextSetup message.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.
6490	The S1-MME Reset operation from eNodeB does not change the State of the UE from MME->UE tab.
6222	Delete packet filter from UE isn't working for security parameter index "FFFFFFFF".But from SGW & PGW ,it is working properly.
6491	Handover issue in MME in specific scenario.

Version 4.2.0.13

Release Date: August 2, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.13
- 2.LTE Emulators Console: 4.2.0.13

Resolved Issues

Issue #	Summary
6503	PGW should send PTI IE in Create Bearer Request Packet during UE-initiated Bearer resource allocation.
6496	GTPu End Marker message decode failed at SGW.
6501	MME should process initialUE message received from an UE with known m-TMSI value.
6494	Multiple PDN connection for UE gives wrong priority level in ERABSetup Request packet from MME to eNodeB.
6493	SGW does not forward Uplink traffic for a specific configuration.
6495	EPC cannot handle "Delete packet filters from existing TFT" received in Bearer Resource Modification Request.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.
6490	The S1-MME Reset operation from eNodeB does not change the State of the UE from MME->UE tab.
6222	Delete packet filter from UE isn't working for security parameter index "FFFFFFFF".But from SGW & PGW ,it is working properly.
6491	Handover issue in MME in specific scenario.

Version 4.2.0.12**Release Date:** July 13, 2012**Component Versions**

- 1.LTE Emulators : 4.2.0.12
- 2.LTE Emulators Console: 4.2.0.12

Resolved Issues

Issue #	Summary
6466	MME is not responding to(PS+CS) Combined Attach.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.

Version 4.2.0.11

Release Date: June 27, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.11
- 2.LTE Emulators Console: 4.2.0.11

Resolved Issues

Issue #	Summary
6477	MME should notify duplicate eNB id if same eNB id comes from another IP address.
6475	SGW doesn't send downlink data notification in co-located mode while traffic started and idle mode triggered from UE.
6466	MME is not responding to(PS+CS) Combined Attach.
6465	SGW is sending GTP packet with TEID "0x00000000" for the UE which is in idle mode.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.

Version 4.2.0.10**Release Date:** June 6, 2012**Component Versions**

- 1.LTE Emulators : 4.2.0.10
- 2.LTE Emulators Console: 4.2.0.10

Resolved Issues

Issue #	Summary
6442	UL Traffic meant for dedicated bearer goes over default bearer on S5u
6444	Attach fails for MCC : 001 & MNC : 01
6452	MME crashes during the UE attach procedure with external HSS

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab, MME -GTPv2-C tab and UE NAS tab respectively.
6385	Home to Hybrid eNodeB ChangeCell for 10 UE, with SGW and MME relocation and multiple PDN fails in Ubuntu 64 bit due to wrong tunnel count.

Version 4.2.0.9

Release Date: May 28, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.9
- 2.LTE Emulators Console: 4.2.0.9

Resolved Issues

Issue #	Summary
6335	Management based trace is not working from SGW/PGW side for more than 256 UE's.
6385	Discrepancy in S1u,S5u tunnel count observed for 10 UE's in case of Home to Hybrid ChangeCell procedure execution.
6431	UE doesn't get IPv4 address from DHCP server when PDN connection is subscribed for IPv4v6.
6433	Change Cell During Data Transfer for 10 UEs leads to eNodeB crash.
6436	Attach fails, while using different subnet IP for s1mme and s11 interface for MME emulator.

Known Issues

Issue #	Summary
6162	Discrepancy in statistics and procedure during S10 handover, DL data notification from SGW and Paging under MME NAS tab,MME -GTPv2-C tab and UE NAS tab respectively.

Version 4.2.0.8

Release Date: May 18, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.8
- 2.LTE Emulators Console: 4.2.0.8

Resolved Issues

Issue #	Summary
6113	Handover with MME and SGW relocation for #UE= 10 gives 'S1-U Connections' count '30' instead of '10' from 'User Metrics'
6162	Discrepancy in statistic and procedure during Service Request, S10 handover, DL data notification from SGW and Paging.
6233	S1-U tunnel at EnodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6236	Getting wrong count at S1-U tunnel (EnodeB) during S10-HandOver with SGW relocation.
6247	Wrong UE IP observed after default PDN disconnection.
6271	Handover with MME and SGW relocation gives wrong S1-U Connections (for #UE=1 the Current value is '3')from 'User Metrics'.
6283	After generating Internal traffic,incorrect traffic graph shows under PGW GTP-U tab.
6285	Handover is not successful in roaming home routed scenario (for #UE=1)
6294	Handover with MME and SGW relocation gives wrong S1-U Connections from 'User Metrics' when UE have multiple bearers.
6313	Application error generated and PGW emulator crashes while trying to initiated Traffic from PGW.
6349	Error Messages are generated in few different configuration and scenario.
6386	After deleting dedicated bearer,IPv4 traffic should flow through default bearer but it fails.
6419	After resetting the MME Emulator,MME is carrying the list of old UEs while activating trace.
6424	Same IP is allocated for multiple UE ,when the UE getting it's IP from DHCP server.
6427	While creating PLMN, MNC value can not be set to 0.

Known Issues

Issue #	Summary
6335	Management based trace is not working from SGW/PGW side for more than 256 UEs.
6385	Discrepancy in S1u,S5u tunnel count observed for 10 UE's in case of Home to Hybrid ChangeCell procedure execution.
6429	EnodeB initiated bearer deletion in co-located mode cause MME crash.

Version 4.2.0.7

Release Date: May 7, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.7
- 2.LTE Emulators Console: 4.2.0.7

Resolved Issues

Issue #	Summary
6273	Trace Deactivation does not work on the 1st click.
6401	Unable to issue Reset Message, when no UE are connected
6414	Handover Failure happened , when triggered Inter-MME handover.

Known Issues

Issue #	Summary
6113	Handover with MME and SGW relocation for #UE= 10 gives 'S1-U Connections' count '30' instead of '10' from 'User Metrics'
6162	Discrepancy in statistic and procedure during Service Request, S10 handover, DL data notification from SGW and Paging.
6233	S1-U tunnel at EnodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6236	Getting wrong count at S1-U tunnel (EnodeB) during S10-HandOver with SGW relocation.
6247	Wrong UE IP observed after default PDN disconnection.
6269	MME initiated detach after tracking area update in gives 'S1-U Connections' count '45' instead of '0' from 'Use Metrics'
6271	Handover with MME and SGW relocation gives wrong S1-U Connections (for #UE=1 the Current value is '3')from 'User Metrics'.
6283	After generating Internal traffic,incorrect traffic graph shows under PGW GTP-U tab.
6285	Handover is not successful in roaming home routed scenario (for #UE=1)
6294	Handover with MME and SGW relocation gives wrong S1-U Connections from 'User Metrics' when UE have multiple bearers.
6301	Attach for second time in roaming scenario generated a error in Log message as 'Failed to retrieve UE data from Context Table '
6313	Application error generated and PGW emulator crashes while trying to initiated Traffic from PGW.
6335	Management based trace is not working from PGW side.
6349	Error Messages are generated in few different configuration and scenario.
6386	After deleting dedicated bearer,IPv4 traffic should flow through default bearer but it fails.

Version 4.2.0.6

Release Date: May 4, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.6
- 2.LTE Emulators Console: 4.2.0.6

Resolved Issues

Issue #	Summary
6267	Bearer modification is not working properly for TFT change.
6409	Attach fails for attach PDN type IPv4 & IPv6,when the configuration is made only for IPv4v6.

Known Issues

Issue #	Summary
6113	Handover with MME and SGW relocation for #UE= 10 gives 'S1-U Connections' count '30' instead of '10' from 'User Metrics'
6162	Discrepancy in statistic and procedure during Service Request, S10 handover, DL data notification from SGW and Paging.
6233	S1-U tunnel at EnodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6236	Getting wrong count at S1-U tunnel (EnodeB) during S10-HandOver with SGW relocation.
6247	Wrong UE IP observed after default PDN disconnection.
6269	MME initiated detach after tracking area update in gives 'S1-U Connections' count '45' instead of '0' from 'Use Metrics'
6271	Handover with MME and SGW relocation gives wrong S1-U Connections (for #UE=1 the Current value is '3')from 'User Metrics'.
6273	Trace Deactivation does not work on the 1st click.
6283	After generating Internal traffic,incorrect traffic graph shows under PGW GTP-U tab.
6285	Handover is not successful in roaming home routed scenario (for #UE=1)
6294	Handover with MME and SGW relocation gives wrong S1-U Connections from 'User Metrics' when UE have multiple bearers.
6301	Attach for second time in roaming scenario generated a error in Log message as 'Failed to retrieve UE data from Context Table '
6313	Application error generated and PGW emulator crashes while trying to initiated Traffic from PGW.
6335	Management based trace is not working from PGW side.
6349	Error Messages are generated in few different configuration and scenario.
6386	After deleting dedicated bearer,IPv4 traffic should flow through default bearer but it fails.

Version 4.2.0.5

Release Date: May 1, 2012

Component Versions

1.LTE Emulators : 4.2.0.5

2.LTE Emulators Console: 4.2.0.5

Resolved Issues

Issue #	Summary
6276	eNodeB crashes for S1-HO with SGW relocation (for 10 UEs) in Multi_PDN scenario.
6404	S1-setup fails, when user establish s1-setup for second time. Connection refuse by eNB(Socket ID mismatch)
6385	RG-Home-to-Hybrid-ENodeB-ChangeCell.tcl for 10 UE's with SGW relocation and multiple PDN leads to ENodeB emulator crash.
6250	While loading a configuration file, Edit Emulated Nodes cannot be done.
6253	UE attaches successfully with the HSS PDNType, which is different from the PDNType present in PGW .
6302	Conditional IE missing in Create Bearer Request message transmitted by SGW(Co-located mode).
6395	Test Cases with 10 UEs leads to crash in eNodeB emulators when run in batch in specific operating system.
6376	MME is not initiating paging for IDLE UE on initiating DL data from S-GW in Co-located SGW/PGW mode.

Known Issues

Issue #	Summary
6247	Wrong UE IP is observed after default PDN disconnection .
6236	Getting wrong count at S1-U tunnel (EnodeB) during S10-HandOver with SGW relocation.
6233	S1-U tunnel at EnodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6267	Bearer modification is not working properly for TFT change.
6162	Discrepancy in statistic and procedure during Service Request, S10 handover, DL data notification from SGW and Paging.
6283	After generating Internal traffic,incorrect traffic graph shows under PGW GTP-U tab.
6273	Trace Deactivation does not work on the 1st click.
6386	After deleting dedicated bearer,IPv4 traffic should flow through default bearer but it fails.

Version 4.2.0.4

Release Date: April 20, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.4
- 2.LTE Emulators Console: 4.2.0.4

Resolved Issues

Issue #	Summary
6368	Test Cases with 10 UEs leads to crash in eNodeB emulators when run in batch in specific operating systems
6340	EnodeB crashes when traffic generator is started from ENB side for 100 UE.
6181	In Start user traffic dialog box,Internet Host ipv4 address is present,even when PDN context for ipv6 is created in PGW & HSS.

Known Issues

Issue #	Summary
6248	S10 HO with SGW relocation fails after creating 1 dedicated bearer for each of the 3 PDN's with pdn types v4, v6 & v4v6 resp .
6247	Wrong UE IP is observed after default PDN disconnection .
6253	UE attaches successfully with the HSS PDNType, which is different from the PDNType present in PGW .
6236	Getting wrong count at S1-U tunnel (EnodeB) during S10-HandOver with SGW relocation.
6233	S1-U tunnel at EnodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6267	Bearer modification is not working properly for TFT change.
6376	MME is not initiating paging for IDLE UE on initiating DL data from S-GW in Co-located SGW/PGW mode.

Version 4.2.0.3**Release Date:** April 13, 2012**Component Versions**

- 1.LTE Emulators : 4.2.0.3
- 2.LTE Emulators Console: 4.2.0.3

Known Issues

Issue #	Summary
6248	S10 HO with SGW relocation fails after creating 1 dedicated bearer for each of the 3 PDN's with pdn types v4, v6 & v4v6 resp .
6247	Wrong UE IP is observed after default PDN disconnection .
6253	UE attaches successfully with the HSS PDNType, which is different from the PDNType present in PGW .
6236	Getting wrong count at S1-U tunnel (ENodeB) during S10-HandOver with SGW relocation.
6233	S1-U tunnel at ENodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6267	Bearer modification is not working properly for TFT change.
6376	MME is not initiating paging for IDLE UE on initiating DL data from S-GW in Co-located SGW/PGW mode.

Version 4.2.0.2

Release Date: April 12, 2012

Component Versions

- 1.LTE Emulators : 4.2.0.2
- 2.LTE Emulators Console: 4.2.0.2

Resolved Issues

Issue #	Summary
6379	IPv4 DL or UL traffic not forwarded in co-located mode when protocol identifier =1 is selected as a TFT during bearer creation.

Known Issues

Issue #	Summary
6248	S10 HO with SGW relocation fails after creating 1 dedicated bearer for each of the 3 PDN's with pdn types v4, v6 & v4v6 resp .
6247	Wrong UE IP is observed after default PDN disconnection .
6253	UE attaches successfully with the HSS PDNType, which is different from the PDNType present in PGW .
6236	Getting wrong count at S1-U tunnel (ENodeB) during S10-HandOver with SGW relocation.
6233	S1-U tunnel at ENodeB,getting wrong count during S1-HandOver with Piggy backed bearer after 2nd iteration.
6267	Bearer modification is not working properly for TFT change.
6376	MME is not initiating paging for IDLE UE on initiating DL data from S-GW in Co-located SGW/PGW mode.