LTE SGW Reference Application

Release Notes

1225420 1.12a

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1

Software and Product Information

Software Information

The software provided on the delivery media is:

Table 1-1: Software information

Software name	LTE SGW Reference Application
Part number	1000420
Version	1.1

Product Information

This software is part of:

Table 1-2: Product information

Product name	LTE SGW Reference Application
Part number	1000420

Fault-Tolerance/High-Availability Compatibility

None.

Release Information

This software release (version 1.1) is the initial general release.

Options

None.

Description

The motivation behind this software release is to build a reference application to process the signalling between MME and PDN Gateway.

This software is a complete implementation of the following specification(s):

1. 3G TS 29.274, version 1.3.0 (2008-10), Evolved GPRS Tunnelling Protocol for Control Plane.
2. 3G TS 29.281, version 8.1.0 (2008-10), GPRS Tunnelling Protocol for User Plane.

2

LTE SGW Reference Application Features

The features added for this release are:

1. Supports all lower layer configurations and Trigger binding procedures.
2. Supports S1-U, S11 and S5/S8 interfaces.
3. Supports path management procedure (echo procedures) between multiple core network nodes at S11 interface.
4. Supports multiple UEs and sessions [single session per UE].
5. Supports multiple Attach and Detach procedures of UEs.
6. Supports eGTP tunnel management - Creation, Management, Deletion.
7. Supports Data Transfer between two end applications.
8. ERAB setup release from CNE.
9. CNE initiated Detach procedure.
10. Multiple UE, each with single Dedicated Bearer support.

3

Interface Changes

This section describes the changes made to the interfaces.

3.1 Upper Interface

SGW Application is at top most layer in the protocol stack, it does not have any upper interface.

Backward Compatibility

As there is no upper interface, backward compatibility is not applicable.

3.2 Lower Interface

SGW Application has one lower interfaces:

3.2.1 EGT Interface

The EGT upper Interface of eGTP layer is used by SGW Application.

Refer to *EGT Interface Service Definition* document for details.

3.3 Layer Manager

Initial release of layer manager interface.

Refer to *LTE SGW Reference Application Service Definition* document for details.

Backward Compatibility

This is the initial release (version 1.1), backward compatibility is not applicable.

3.4 System Services

Initial release of the systems services interface.

Backward Compatibility

This is an initial release 1.1, backward compatibility is not applicable.

4

Code Fixes

There are no code fixes as this is the initial release of the LTE SGW Reference Application.

5

Open Issues

There no open issues relevant with LTE SGW Reference Application software release, version 1.1.

6

File Changes

This section lists all the files added, deleted, or modified for this release.

6.1 Files Added

This section lists the files added for this release.

6.1.1 Common Files

The common files added for this release are:

Table 6-1: LQO Common Files

lqo.c	lqo.h	lqo.x

6.1.2 Product Files

The product files added for this release are:

Table 6-2: LTE SGW Reference Application Product files

qo.h	qo_eu_ex_ms.c	qo_ptmi.c
qo.x	qo_eu_ptli.c	qo_utl.c
qo_app.c	qo_ex_ms.c	qosm.c
qo_err.h.c	qo_id.c	qosm.h
qo_eu.x	qo_li.c	qosm.x
qo_mi.c	qosm_ex_ms.c	qosm_tst.c

Table 6-2: LTE SGW Reference Application Product files

qo_ptli.c	qosm_hicfg.c	qosm_utl.c
qosm_egcfg.c	qosm_qocfg.c	

6.1.3 Sample Files

The sample files added for this release are:

Table 6-3: LTE SGW Sample files

envopt.acc	smqoexms.c	smqoptmi.c

6.2 Files Deleted

This section lists the files deleted for this release.

6.2.1 Common Files

No common files are deleted for this release.

6.2.2 Product Files

No product files are deleted for this release.

6.2.3 Sample Files

No sample files are deleted for this release.

6.3 Files Modified

This section lists the files modified for this release.

6.3.1 Common Files

No common files are modified for this release.

6.3.2 Product Files

No product files are modified for this release.

6.3.3 Sample Files

No sample files are modified for this release.

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Open Source Software Usage

Open Source Software (OSS) components were not used during the development of LTE SGW Reference Application software.

8

Software Conformance to Manuals

The LTE SGW Reference Application software conforms to the following documentation:

Note: These documents have been released with version 1.1 of the LTE SGW Reference Application software. Check Trillium's Customer Support website for any document addenda.

1091420 – *LTE SGW Reference Application Functional Specification*

Table 8-1: Functional Specification changes

Version	Date	Author	Description
1.1	June 06, 2010	Venumadhav Prabhu	Initial release. Conforms to LTE SGW Reference Application software release, version 1.1

1092420 – *LTE SGW Reference Application Service Definition*

Table 8-2: Service Definition changes

Version	Date	Author	Description
1.1	June 16, 2010	Rishi Raj	Initial release. Conforms to LTE SGW Reference Application software release, version 1.1