

FlexCore-EPC

The Complete LTE Core Network Package

FlexCore is your most cost effective Evolved Packet Core (EPC) solution, enabling commercially viable small LTE deployments such as remote site systems and minimal ad hoc networks. Begin with a low cost, flexible capacity EPC and add users and features to meet your growing business needs.

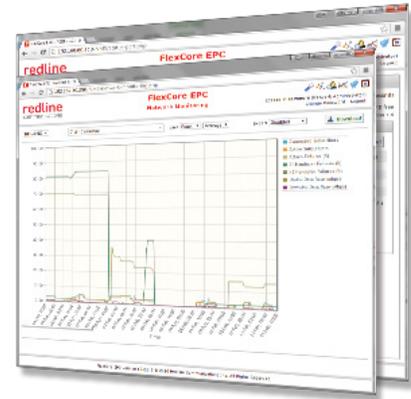
The FlexCore suite combines all five elements to deploy an LTE system:

- Mobility Management Entity (MME)
- Serving Gateway (SGW)
- Packet Data Network Gateway (PGW)
- Home Subscriber Server (HSS)
- Policy & Charging Rules Function (PCRF)

Deploy FlexCore with Red Hat Enterprise Linux (RHEL) on a wide range of commercial platforms, enabling wide flexibility such as deploying hardened laptops as mobile core solutions to provide localized EPC capability for military, public safety or industrial networks. Deployed on carrier-grade servers, FlexCore easily scales to service large mobile Enterprise networks using centralized or distributed architectures, with the performance and high availability to meet benchmarks of cellular operators.

FEATURES

- Pre-configured static or dynamic priorities for multiple user-types, applications and responder functions
- Deployable system co-located with the eNodeB is operational in minutes on a truck/car/COW
- Public safety grade MicroTCA and ATCA platforms and bladed architectures
- Supports Next-Generation 9-1-1 (NG9-1-1) Emergency Calls and the Commercial Mobile Alert System (CMAS)
- Broad interface support: S1, Sh, Rx, S6a, Gx, Gy, Gz, SGi, S5/S8, S10, S11 based on 3GPP R10 specifications
- Release 11 with backward compatible to R8/R9/R10 peer nodes and roadmap to R12



SYSTEM AT A GLANCE

All elements needed to deploy an LTE network

Scalable from 64 users/75 Mbps to >100K+ users/ 10+ Gbps

Intuitive management interface

Operates on wide range of commercial platforms

Centralized or distributed architecture plus redundancy to meet five-nines availability

Advanced core elements: MOCN, CSFB, GWCN and OCS/OFCS

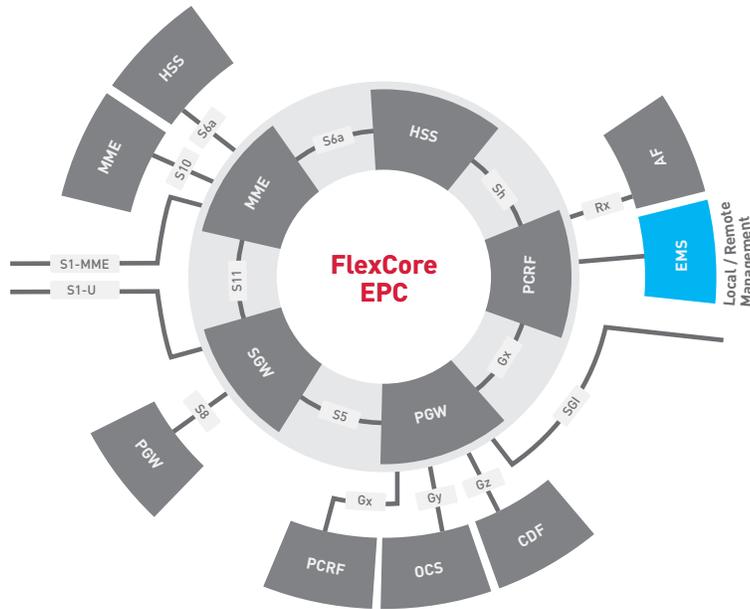
Optimized CAPEX for best price/performance

FlexCore-EPC SPECIFICATIONS

Features	PGW	SGW	MME	HSS	PCRF
IPv4 / IPv6 UE and Transport Support	✓	✓	✓	✓	✓
Database Backup	✓	✓	✓	✓	✓
Default and Dedicated Bearers	✓	✓	✓	✓	✓
Offline Charging (OFSC) Online Charging (OCS)	✓	✓	N/A	✓	✓
Quality of Service Class Identifiers (all 9 QCI)	✓	✓	✓	✓	✓
Lawful Interception	✓ ¹	✓ ¹	✓ ¹	✓ ¹	✓ ¹
High Availability	✓	✓	✓	✓	✓
Handover support	✓ SGW handover	✓ SGW handover	✓ X2, S1, inter-SGW inter-MME	N/A	N/A
Ciphering / Integrity Protection	N/A	N/A	✓	N/A	N/A
Subscriber Authentication	✓ ²	N/A	N/A	✓	N/A
IP Address Allocation	✓ ³	N/A	N/A	✓ Static IP allocation	N/A
Subscriber Tracing	✓	✓	✓	✓	N/A
Emergency Services	✓	✓	✓	✓	✓
Legacy 3G network Interworking (CSFB)	✓	✓	✓	✓	✓
Management interfaces for local / remote management	C' APIs EMS ³ SOAP-API SNMP V2/V3 MIBS	C' APIs EMS ³ SOAP-API SNMP V2/V3 MIBS	C' APIs EMS ³ SOAP-API SNMP V2/V3 MIBS	C' APIs EMS ³ SOAP-API CLI for bulk subscriber positioning	C' APIs EMS ³ SOAP-API

All specifications are subject to change without notice.

1. Future release; 2. Using external AAA server; 3. With web based GUI



Supported Hardware

Single Board Computers
 Desktop Servers
 Hardened Laptops
 Rack-mount servers
 Blade Servers

Supported Software

Database: PostgreSQL, SQLite
 Virtual Machine: VMWare, VirtualBox,
 QEMU & KVM