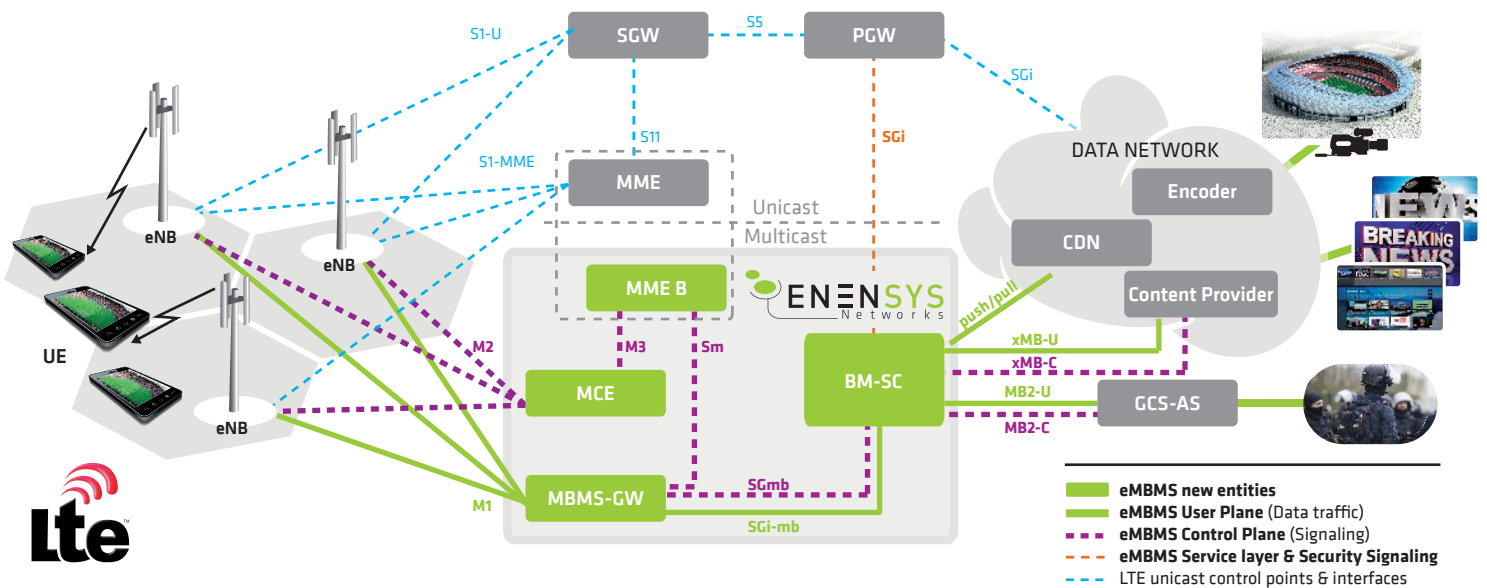




MobiBMSC

Next Era Distributed Cloud LTE Broadcast Server



MOBIBMSC IS ENENSYS' LTE BROADCAST (EMBMS) VIRTUALIZED SOLUTION THAT ENABLES THE DELIVERY OF MULTIMEDIA CONTENT OVER 4G/LTE NETWORKS IN BROADCAST MODE. FROM EPC DOWN TO THE EMBMS RECEIVER, IT GENERATES SERVICE ANNOUNCEMENT, ENCAPSULATES MULTIMEDIA CONTENT INTO EMBMS BEARERS, AND DELIVERS THESE BEARERS OVER THE M1/SGIMB INTERFACE.

Running inside the core network, the **MobiBMSC** operates either as a standalone BM-SC or integrates the eMBMS gateway, MME B or MCE to provide a complete LTE Broadcast solution. **MobiBMSC** supports all the required 3GPP standardized interfaces to control all EPC elements involved in the delivery of broadcast content over the 4G network.

The **MobiBMSC** supports the latest approved 3GPP release which allows operators to roll out advanced eMBMS services mixing potentially different types of media over networks with heterogeneous unicast/broadcast coverage.

The **MobiBMSC** is designed as a scalable and flexible architecture, through the use of virtual machine instances which allows to accommodate all known customer deployments needs. The **MobiBMSC** fits well into the distributed cloud concept featuring its GeoCluster technology that connects to local delivery servers and allows operators to instantiate broadcast capacity close to their subscribers.

The **MobiBMSC** has been developed with simplicity in mind. It is delivered in the form of virtual appliances that can be easily and freely instantiated according to the needs. Its streamlined WEB UI allows to control all system and service configuration parameters.

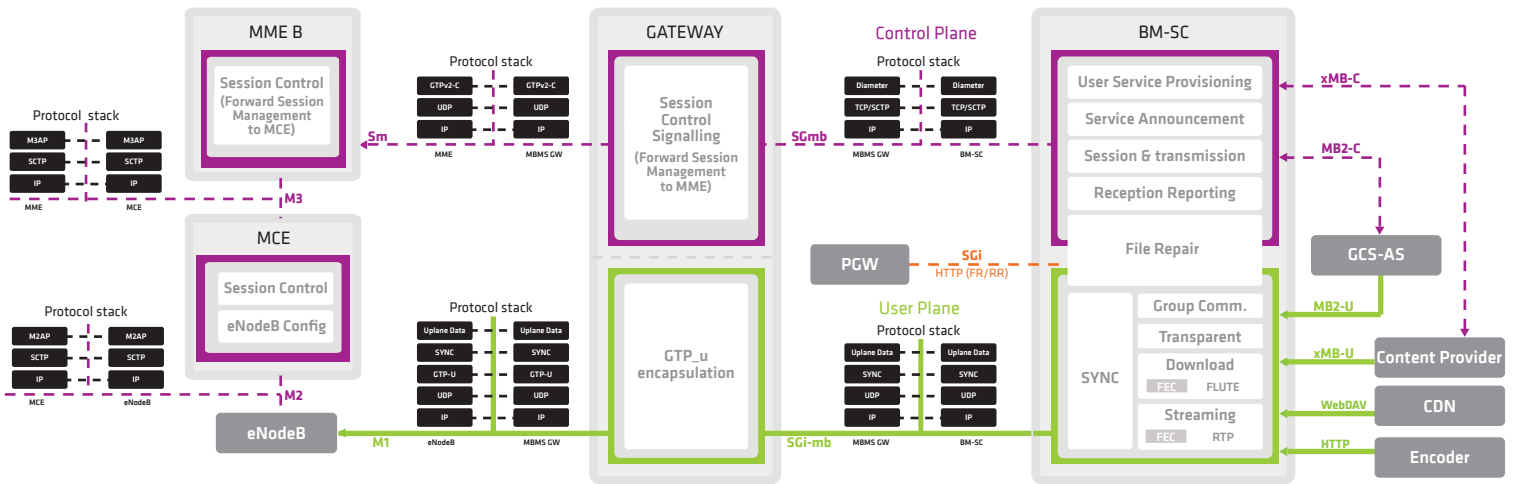
APPLICATIONS

- Multimedia Streaming Services (Audio, Video, Live)
- Pre-Download Services (Popular Videos, OS Updates)
- File Carousel Services (Weather, Traffic forecast, ...)
- Public Safety and Mission Critical (MCPTT)

BENEFITS

- Seamless integration into 4G/LTE EPC network
- Add eMBMS capability to legacy LTE networks
- System scales smoothly as eMBMS services gain popularity
- Fully compliant to 3GPP Rel14
- Virtualization enables resource optimization and cost-effective service roll-out
- Distributed architecture that adapts to network configurations and deployment strategies
- Highly reliable with 1+1 or N+P redundancy





FEATURING

| | |
|-------------------|---|
| 3GPP standard | eMBMS support over LTE Full 3GPP Rel14 support |
| Time Management | NTP client (multicast & unicast) SNTP server (multicast & unicast) SYNC protocol (SYNC PDU 0, 1, 3) |
| Security | Certificate Management Protected I/F: SNMP, NTP, SNTP, GUI, I/F to CDN/Encoders |
| Device Management | SNMP, compliant to SMiv2 HTML5 Web based GUI or CLI Alarms configuration & Monitoring System usage Statistics reporting Remote and scheduled SW upgrades |
| eMBMS | SACH support File Delivery & Group Communication FEC no-code, Raptor10 File Repair (Symbol based) Reception Reporting |
| System | Pure virtualized SW solution Distributed architecture Dynamic Scalability 1+1 or N+P redundancy Resource based Load Balancing IPv4 / IPv6 support for all interfaces |

INTERFACES

| | |
|-------------------|--|
| Content Providers | REST API, HTTP/HTTPS, WebDAV |
| 3GPP | Sm, SGmb, SGI-mb, SGI, M1, M2, M3, MB2-C, MB2-U, xMB-C, xMB-U |
| Monitoring | SNMPv3 |

PHYSICAL

| | |
|--------------|------------------------------------|
| Requirements | Running on standard Telecom Server |
|--------------|------------------------------------|

OPTIONS

| | |
|----------------------------------|----------------------------------|
| Feature based | |
| Packaging | BM-SC or BM-SC/GW/MME-B/MCE |
| File Delivery Service | FLUTE based download service |
| File Carousel Service | FLUTE based download service |
| Media Streaming Service | DASH over FLUTE download service |
| MCPTT Service | Group Communication Delivery |
| Capacity based | |
| Number of Active Bearers | Manage concurrent traffic |
| Max System Output Bitrate | Aggregated over all SGmb or Sm |
| Max Bearer Bitrate | Set "content pipe" max size |
| SGi Maximum Bitrate | Manage file repair bandwidth |

