

CubeAgent CC

3GPP 4G/5G eMBMS Mission Critical Middleware



ENENSYS CubeAgent CC is the Platform and Modem agnostic Middleware for optimizing Mission Critical and Public Safety Communications

The CubeAgent CC for Critical Communications, is a 3GPP Standard based eMBMS Middleware that provides Multicast-Broadcast services in 4G and 5G for Mission Critical Push-To-Talk, Mission Critical Video and Mission Critical Data. It comes along with an SDK helping application developers to easily drive Multicast/Broadcast 4G/5G capable modems. A variety of Multicast/Broadcast capable modems are supported through either AIDL, AT Commands or native C APIs.

Group Communication APIs

The CubeAgent CC provides Critical Communications LTE APIs to manage and monitor group communication services, including eMBMS Google APIs and MCOP.

3GPP Compliant

The CubeAgent CC Modem Abstraction Layer allows CubeAgent Mobile to be integrated with any LTE modem supporting eMBMS. The CubeAgent CC implements the 3GPP release 14 and is compatible with any compliant eMBMS multicast server.

The CubeAgent CC implements powerful FEC decoding algorithms (Raptor 10, LDPC) to efficiently correct error transmissions.

Deployment on any Platform

The CubeAgent CC can be deployed on any Android eMBMS capable device. It can also be ported on many operating systems, such as embedded Linux.

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Applications

- Mission Critical Push-to-Talk
- Mission Critical Video
- Mission Critical Data

Other benefits

- Low memory footprint
- 3GPP standard compliant
- Optimal QoE
- Multi-Platform
- Multi-Modem

Technical specifications

INPUTS

Application

HTTP(s) player requests, HTTP monitoring API

Session Configuration

3GPP TS 26.346

FEC

Raptor10: RFC-6681/5053, LDPC: RFC-5170, RS: RFC-5510

Transport

Flute streams (RFC-6726)
RTP (RFC 3550)
Transparent Mode

Packaging Format

Transparent Mode for MC-Video and MC-PTT

File Download (MC-DATA)

Any Format

Protocols and API's

HTTP and HTTPS Support
Google API's
MCOP API's

Operation, Maintenance and Monitoring

REST API (HTTP JSON)

FEATURES

Standard

eMBMS and Critical Communications 3GPP compliant

Platform Independent

Runs on a variety of CPU architectures (X86, ARM, MIPS) and any OS

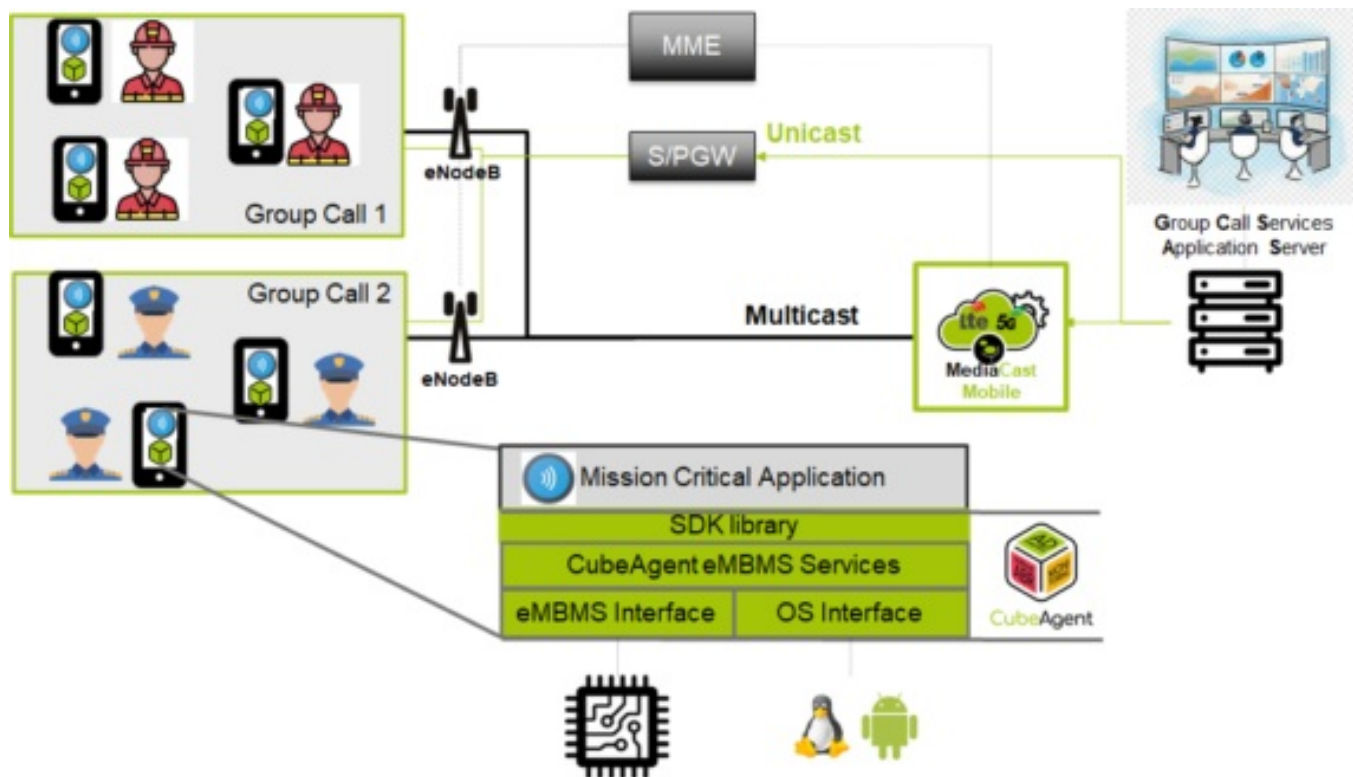
FEC

Powerful Forward Error Correction

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CubeAgent CC Architecture



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Ordering codes

XLEV-CAC0-0020

CubeAgent CC license fee for up to 20K devices

XLEV-CAC0-0100

CubeAgent CC license fee for up to 100K devices

XLEV-CAC0-0050

CubeAgent CC license fee for up to 50K devices

XLEV-CAC0-1100

CubeAgent CC license fee for more than 100K devices