

# CubeAgent Mobile

Carrier Grade LTE Broadcast component for any device



**CubeAgent Mobile is ENENSYS' eMBMS client. It implements eMBMS over LTE to enable consuming OTT Live contents, VOD and Mission Critical**

The CubeAgent Mobile provides Multicast/Broadcast services (eMBMS and 5GMBMS) for Video Delivery, Push VoD and Push Files. It comes with an SDK to help application developers to easily drive Multicast/Broadcast capable 4G/5G capable modems. A variety of eMBMS capable modems are supported through either AIDL, AT Commands or native C APIs.

## NorthBound APIs for Video Streaming and VOD

The CubeAgent Mobile provides APIs to manage DASH and HLS live contents, including the dynamic switch between unicast and broadcast (MooD). APIs for file download are provided too, so applications can receive scheduled VOD or any large files over LTE-B.

## 3GPP Compliant

The CubeAgent Modem Abstraction Layer allows CubeAgent Mobile to be integrated with any LTE modem which supports eMBMS. It works with a growing number of LTE chips, including The CubeAgent Mobile implements the 3GPP release 14 and is compatible with ENENSYS' MediaCast Mobile and other compliant eMBMS multicast servers.

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

## Deployment on any Platform

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

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## Applications

- OTT TV delivery for mobile subscribers
- 4G/5G backhauling for OTT TV services
- Live sport and popular contents delivery to many subscribers simultaneously
- Deliver popular VoD content to binge-watchers
- Deliver massive software updates to Set-Top-Boxes and consumer devices

## Other benefits

- CPU friendly with low memory footprint (can run on feature phones and other low-end CPEs)
- Compliant with the eMBMS 3GPP standard
- Provides optimal user experience through low latency and guaranteed bitrates
- Easy to deploy on Android devices and quick to port to Linux (and other) equipment
- Management of various eMBMS modems
- Dynamic configuration according to operators networks

## Technical specifications

### INPUT

#### Application

API calls (Java, C, Google APIs, MCOP)

#### Service announcement

3GPP (TS 26.346)

#### FEC

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

#### Transport

Flute streams (RFC-6726), RTP streams with FEC frame

### OUTPUT

#### Packaging Format

DASH, HLS with MPEG-TS, ISOBMFF, CMAF

#### Protocols

HTTP, HTTPS, and RTP

#### File Download

Any File format

#### Notifications

Events sent to registered applications

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## PHYSICAL

### Hardware

ARM, x86, MIPS

### Operating System

Android, Linux, Tizen

## FEATURING

### Standard

3GPP compliant eMBMS

### Latency

Ultra-Low latency CMAF and Fast Zapping

### Platform Independent

Runs on many CPU architectures (X86, ARM, MIPS) and any OS

### Analytics

Quality-of-Service and Consumption reports

### Multi-Profiles

Supports multi-profile Dash or HLS streams

### VOD

Scheduled file downloads

### FEC

Powerful Forward Error Correction

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## Ordering codes

### XLEV-CAL0-0005

CubeAgent license fee for up to 5 Million devices. Price per device.

### XLEV-CAL0-2000

CubeAgent license fee for more than 20 Million devices. Price per device.

### XLEV-CAL0-0020

CubeAgent license fee for up to 20 Million devices. Price per device.