


MISSION CRITICAL SOLUTION (MCX)

MCX Plugtests™ Programme
(X Stands for MCPTT, MCDData and MCVideo)



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MCX - Mission Critical Solutions

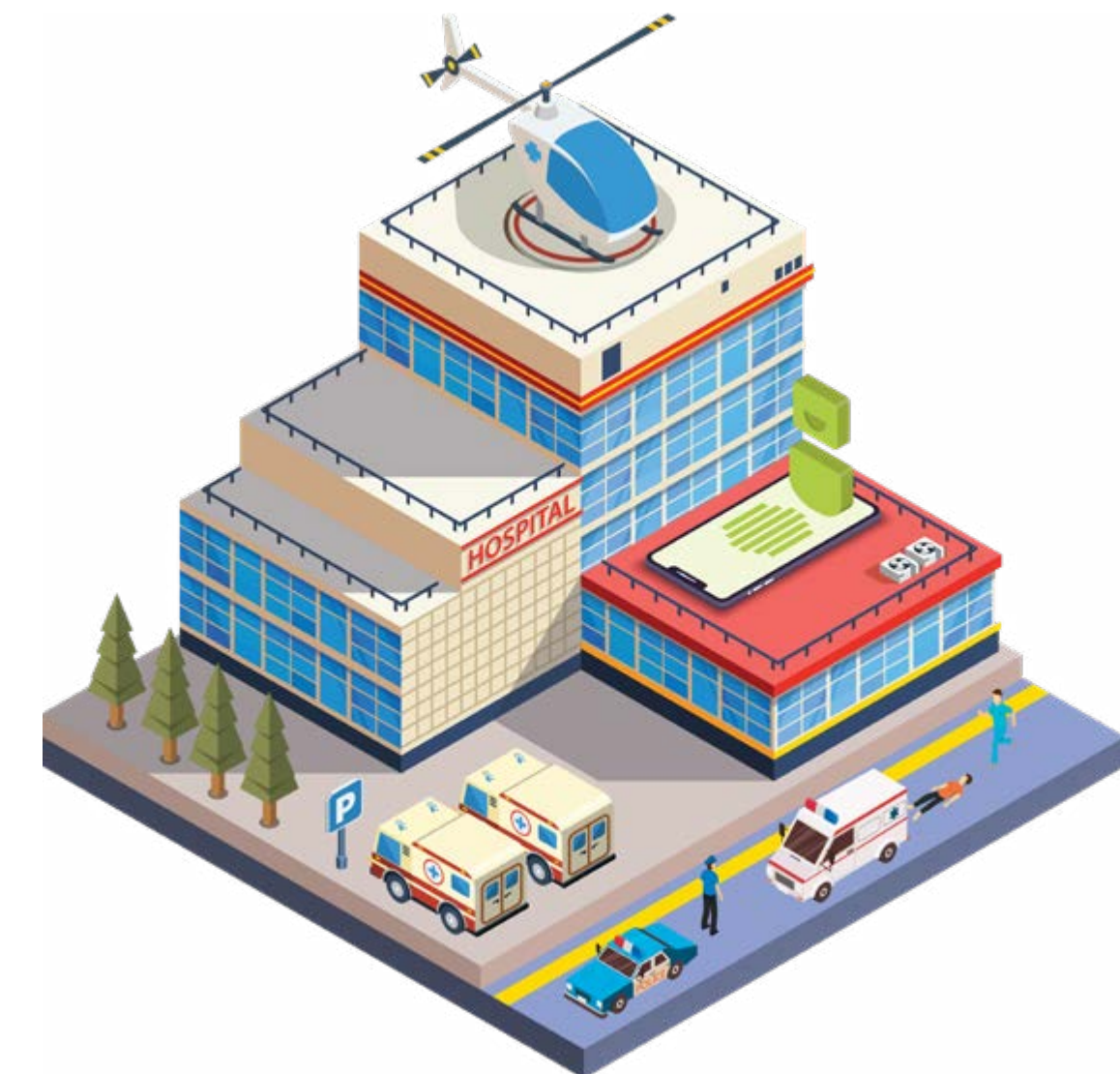
MCX TASSTA solution is applicable primarily to mission critical services using LTE access.

Certain MC service functions such as dispatch and administrative functions could also be supported via non-3GPP access networks.

The solution can be used for public safety applications and also for general commercial applications e.g. utility companies and railways.

Features

- MCPTT - Mission Critical Push-to-Talk over LTE
- MCDData - Mission Critical Data
- MCVideo Mission Critical Video



MCPTT - Mission Critical Push-to-Talk

A Push To Talk service provides an arbitrated method by which two or more users may engage in communication. Users may request permission to transmit (e.g., traditionally by means of a press of a button).

The MCPTT Service is intended to support communication between several users (a group call), where each user has the ability to gain access to the permission to talk in an arbitrated manner. However, the MCPTT Service also supports Private Calls between pairs of users.

Features

- Private call 1-1
- First to answer call 1-1 (many)
- Ambience listening call
- Remote ambience listening
- Group Call 1- many
- Chat Call 1 - many
- Board cast Call 1- many
- Temporary Groups
- Network On/Off
- Priority modes



MCVideo - Mission Critical Video

Mission Critical refers to meeting the needs of agencies providing Public Safety services such as Police, Fire and Ambulance services. Those needs include high reachability, availability and reliability of the service, low latency, realtime operating capabilities, highly secured operations, private and group communications, handling of emergencies and ability to provide prioritization.

- Video capture of the video information.
- Secure streaming and storing of the video information.
- Processing of the video information.
- Including the ability to annotate video frames and recognize video features.
- Transmission and control of the parameters relevant to those functions.
- Interoperability with other services and systems.

Features

- Video Streaming
- Surveillance Cameras
- Unmanned Aerial Vehicles



MCDData - Mission Critical Data

MCDData defines a service for Mission Critical Data services. As well as voice services, current mission critical users have been increasing their use of data services, including low throughput services on legacy networks and data services on commercial networks.

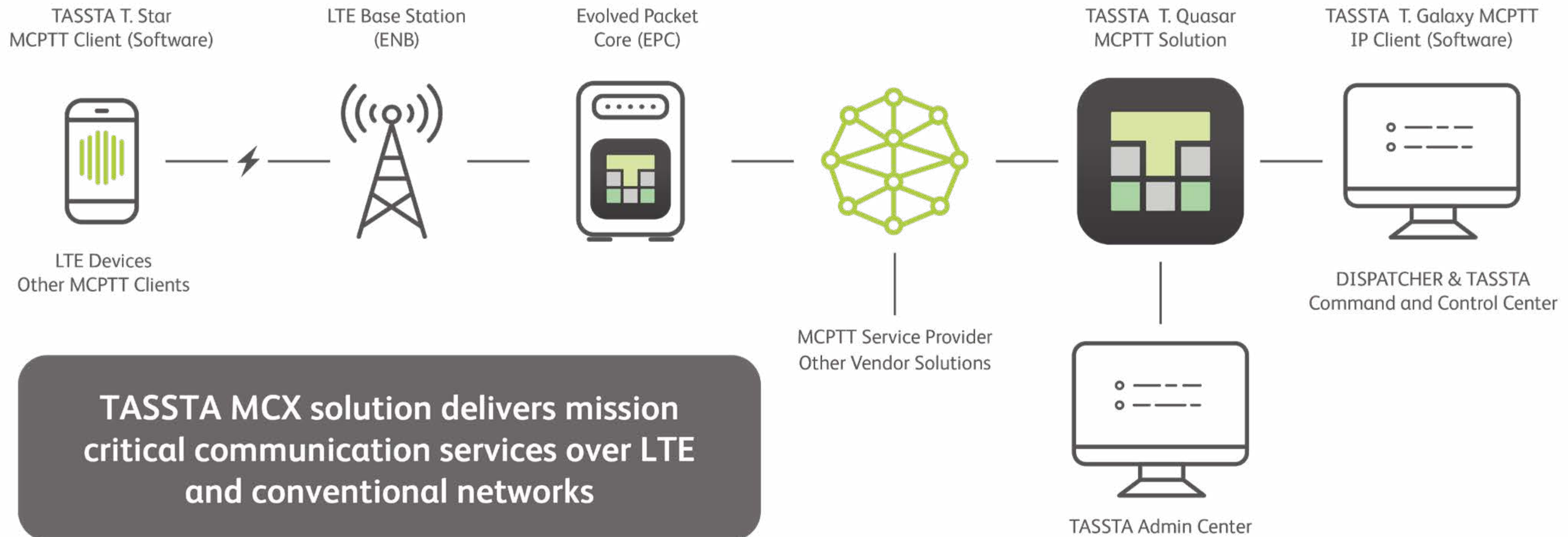
This need will continue to grow with the creation of the new multimedia services. The MCDData service needs to provide a means to manage all data connections of mission critical users in the field and provide relevant resources to the ones who need it.

Features

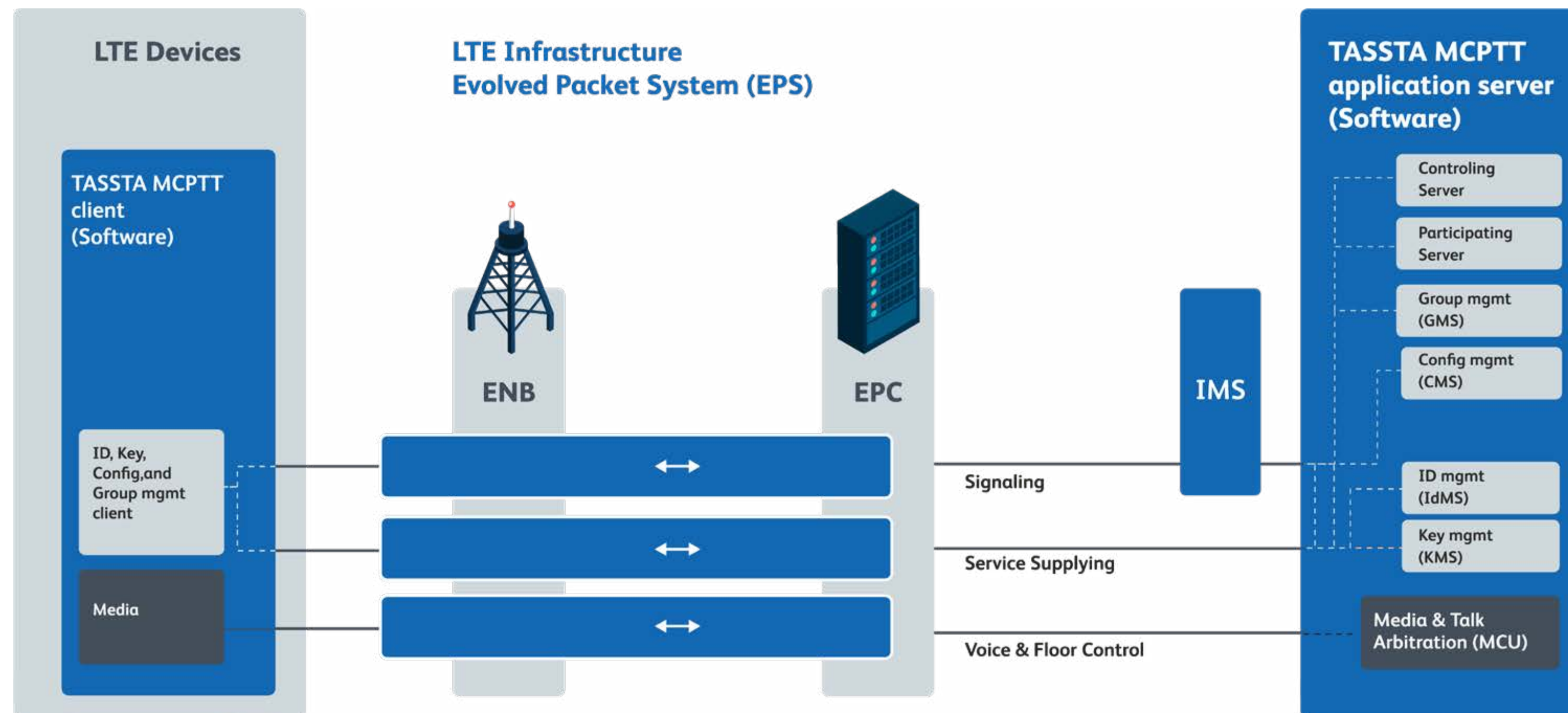
- Short Instant Messaging (private / group)
- File Sharing
- Location Sharing



TASSTA MCPTT Scheme



TASSTA MCPTT Technical Scheme



- GMS** Group Management Server
- CMS** Configuration Management Server
- IdMs** Identity Management Server
- KMS** Key Management Server
- MCU** Media Control Unit
- IMS** IP Multimedia System
- EPC** Evolved Packet Core
- ENB** Evolved Node Bs



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