Deliver Advanced Mission Critical Services with Samsung's MCPTX Solutions
Commercially proven 3GPP standards compliant
Mission Critical communications of voice, data, video and more

Prearranged & Dynamic Group Management by Administration Tools
Dispatcher for desktop and mobile

GIS

Standards-ready, carrier-grade MCPTX-LMR Interworking aligned with 3GPP standard

LMR Interworking for P25, DMR, TETRA, etc.

QoS, Priority & Preemption with KPI support for various call types

SDK & Web API for ecosystem Partners

Samsung MCPTX Key Features

MCPTX client for various types of OS’s (Android, iOS, Windows)
Samsung MCPTX Use Cases

Public Safety
Mission critical communications for public safety agencies: police, fire and emergency

Logistics
Real-time communications for logistics industry

Manufacturing
Push-To-Talk communications with potential IoT services for operational efficiency

Railway/ Maritime
Push-To-Talk communications for officers and crew on railways and maritime
* LTE-R is ETCS-2 compatible

Defense
Secure communications for critical field operation

Utility/ Oil & Gas/ Mining
Mission critical communications for production efficiency

Samsung MCPTX
Samsung MCPTX Solutions

**MCPTX Server**
- MCPTX Applications
- Administration Tool
- Carrier-grade solution

**MCPTX Client**
- Dispatcher
- Desktop Console, Mobile
- Android / IOS

**Virtualized Core & RAN**
- PS-LTE Core
  - EPC
  - IMS
  - HSS
  - eMBMS
  - PCRF
  - LI
- Customized Solution
- PS-LTE RAN
- Radio
- Baseband

**Eco-system Support Solutions**
- MCPTX service expansion with partners
  - LMR Interworking
    - for centralized Network
  - RoIP Gateway
    - for local agency
  - Telephony Interworking
  - IoT Interworking
  - Web-based API
    - for 3rd party integration
  - Client SDK
    - for 3rd party developers

**Features and Functionalities**
- MCPTT/Voice, MCVideo, MCData*
- QPP (QoS, Priority, Preemption)
- Call priority support for
  - Private/Group call
  - Emergency/Broadcast call
  - Ad-hoc call
- Emergency alert
- End-to-End security (AES-256)
- CALEA compliance
- Real-time presence
- GIS-based location service
- Ambient listening
- Talk group scanning
- Standards-based LMR interworking
- Contact/Group management from mobile
- Mobile client support for ruggedized and COTS Android/iOS devices
- eMBMS support

* Scalable from compact on-premises for enterprise to full-scale operator data center solution.
* Public cloud deployments are also supported.

Deliver Advanced Mission Critical Services with Samsung’s MCPTX Solutions
Samsung has been a pioneer in the mobile telecommunications market for more than two decades. Armed with considerable knowledge and technical experience in a variety of key technologies, including VoLTE and eMBMS, as well as its position as an end-to-end LTE solution vendor, Samsung has become one of the industry’s strongest solution providers for PS-LTE network deployments.

Moreover, Samsung actively participates in the establishment of global standards for PS-LTE and is the world’s first standards-based nationwide PS-LTE solution provider. With nationwide coverage, the network serves as a unified platform that helps ensure interoperability among various public safety institutions which delivers real-time accessibility and enhanced communication capabilities among public safety agencies and personnel in emergency situations.

With its dedication to providing world-class solutions, Samsung incorporates only the most reliable and efficient technologies and services into its mission critical network portfolio and works closely with our customers to ensure that deployments reflect the needs of customers, end-users and markets alike.
For more information about Samsung’s MCPTX solutions, please see the links below:

Press release:
- Samsung Powers World’s First 3GPP-Compliant Nationwide Public Safety Network in Korea

Infographic:
- Mission Critical Networks in Korea - Mission Critical Communications You can Rely On

Whitepaper:
- Mission Critical Network Solutions

Video:
- Leading the Past, Present and Future of Mission Critical Services Industry
  https://www.youtube.com/watch?v=JLaTNkWcQo&t=10s
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About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

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