

SAMSUNG

**Deliver Advanced
Mission Critical Services**

with Samsung's MCPTX Solutions

Samsung MCPTX Key Features

MCPTX client

for various types of OS's
(Android, iOS, Windows)

Prearranged & Dynamic
Group Management
by Administration Tools

Commercially proven
3GPP standards compliant

Mission Critical communications

of voice, data, video
and more

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 Use Cases



Samsung MCPTX Solutions

MCPTX Server

MCPTX Client

MCPTX Applications

Administration Tool

Dispatcher

Mobile App

NFV Environment

- MCPTX
- Provisioning
- Presence
- GIS
- Recording



Carrier-grade solution



Desktop Console, Mobile



Android / iOS

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

Virtualized Core & RAN

Eco-system Support Solutions

PS-LTE Core

PS-LTE RAN

MCPTX service expansion with partners

NFV Environment

- EPC
- IMS
- HSS
- eMBMS
- PCRF
- LI

Customized Solution



Radio



Baseband

LMR Interworking

for centralized Network

Telephony Interworking

Web-based API

for 3rd party integration

RoIP Gateway

for local agency

IoT Interworking

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

* Compliant to 3GPP Release 15 standards

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**
<https://www.samsung.com/global/business/networks/insights/press-release/0423-samsung-powers-worlds-first-3gpp-compliant-nationwide-public-safety-network-with-mcptt-service-in-korea/>

Infographic:



- **Mission Critical Networks in Korea - Mission Critical Communications You can Rely On**
<https://www.samsung.com/global/business/networks/insights/blog/0423-mission-critical-networks-in-korea-mission-critical-communications-you-can-rely-on/>

Whitepaper:



- **Mission Critical Network Solutions**
https://images.samsung.com/is/content/samsung/assets/global/business/networks/insights/white-papers/0421_mission-critical-network-solutions/Mission_Critical_Network_Solutions-Technical_White_Paper-v1.0.0.pdf

Video:



- **Leading the Past, Present and Future of Mission Critical Services Industry**
<https://www.youtube.com/watch?v=JLaTNkNWcOo&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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