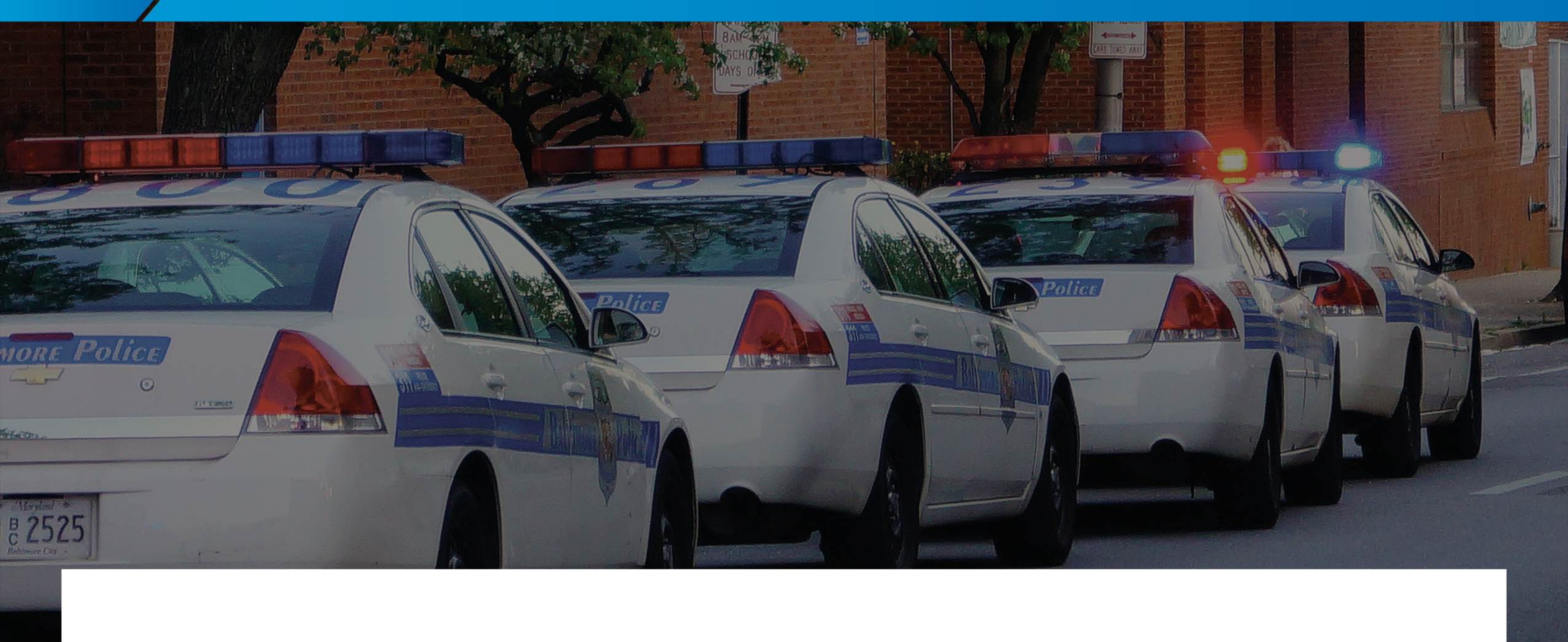


Innovating the Future of Connectivity

Cybertel, Integration Of MCX, Device





About Cybertel

Cybertel is an MCX server software and device manufacturer based in Korea (TAA-approved country). Making commercial launch of Push to Video service for Air-force Korea even in 2012, Cybertel has innovated SIP based mission-critical communication. In additions, the partnership with global network vendor in 2016 enables the company to complete 3GPP Release 17/18 level of MCX solution and deploy the solution to mission-critical customers. With its own device factory in Korea, Cybertel preloads MCX applications in its device and offers the benefit from fully secured and compliant devices without MCX device dependency.

Technology evolution



VoIP Solution

- 2000 Established
- 2005 SIP Billing system to 8,000 customers



World-First Push to Video Solution

- 2008 PTT solution(via Wimax)
- 2019 PTV solution to Air-force, Korea



Mission-critical communication

- 2017 3GPP MCx solution with global network partner
- 2019 LTE-R to Seoul Metro



MCX Device manufacturer

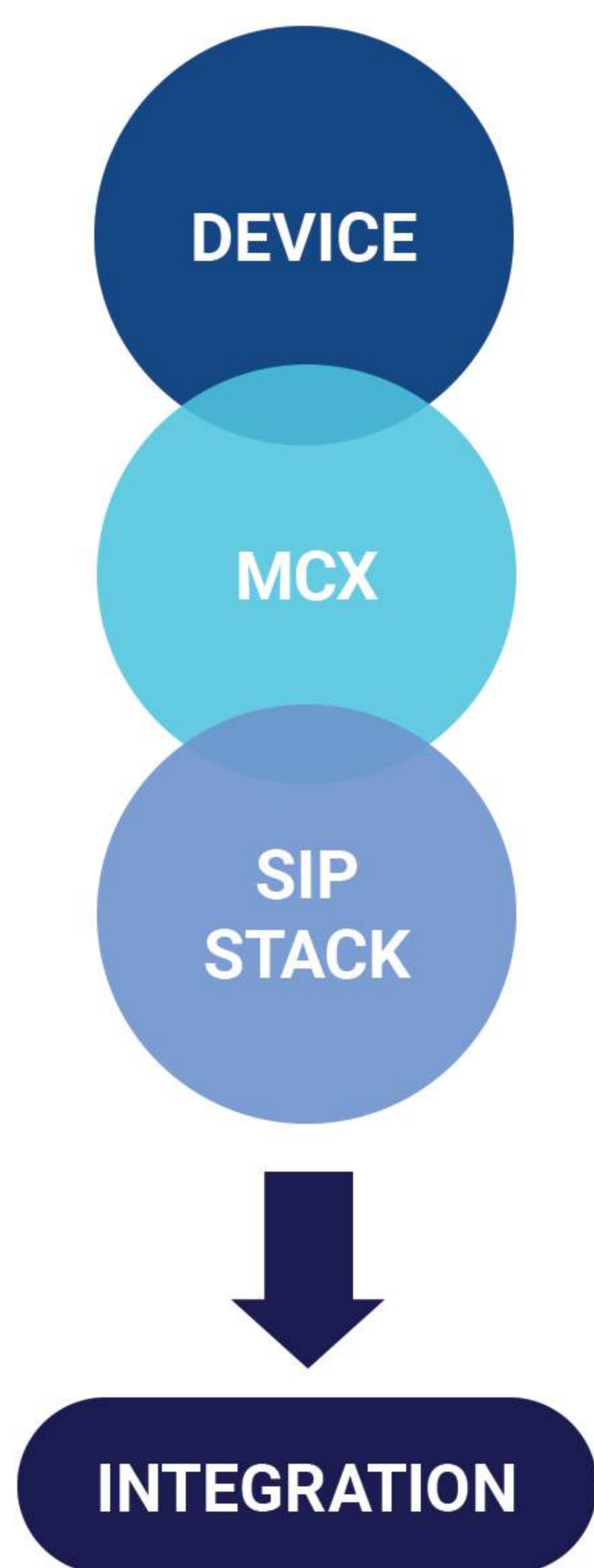
- 2020 Device factory in Korea
- 2022 MCX device for SafeNet



Preparation of Future Railway Communication

- 2021 5GRail Project with EU Union
- 2023 5G / 450MHz device(GA 2Q, 2024)





PTT Solution Provider

Cybertel provides PTT and VoIP software, offering end-to-end verification.

Preloaded Voice Applications

Cybertel preloads PTT and VoIP applications in its own factory. These native applications support full operational service.

Made in Korea

Cybertel manufactures MCX device in a TAA-approved country. A single language and management across both R&D and production facilitates swift and accurate process. Flexible SMT line offers 8 weeks maximum delivery lead time.



Device : CM65

CM65 device is designed with first responders in mind. It has a rugged, easy-to-operate design with loud & clear audio.

The device is for critical communication customers in Public safety, Metro/Railway, Military and Utility industry.

Ergonomic Form Factor

Secures Mission-Critical Operation

Outstanding Audio Quality

Accessories to meet Industry Needs



⚡ Industry accessory



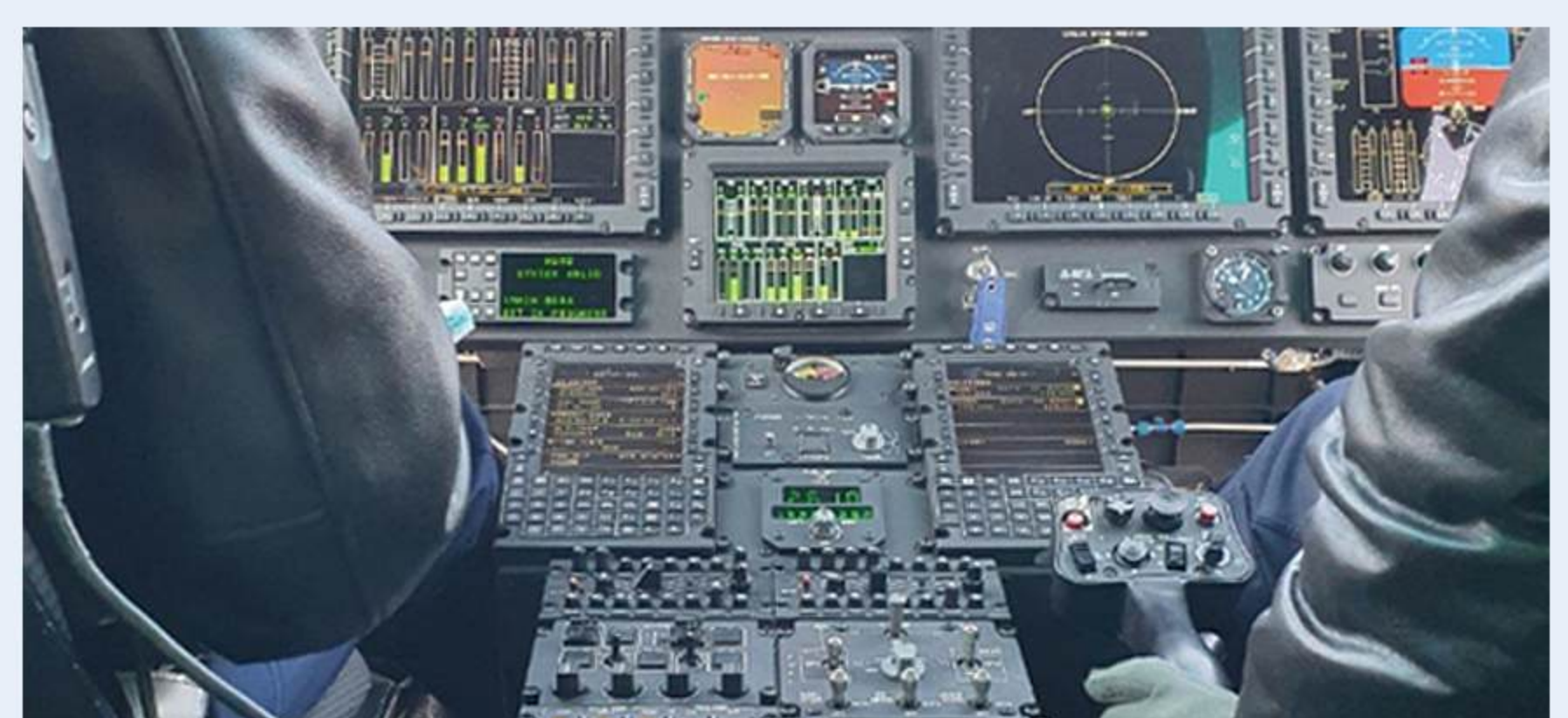
The Vehicle
Charger



The Motorcycle kit



The Helicopter kit



Device : LM75

Compact But Rugged MCX Device

World-First MCPTT device to support 5G & 450MHz.
Enhanced network coverage with extended antenna
Full-day operation with smart battery management



⚡ Accessory



Desktop cradle charger



6 Bay cradle charger



Bluetooth RSM



Bluetooth ear-mic

⚡ Specification

1 Qualcomm QCM6490 chipset insided

2 Dedicated 450MHz modem chipset(B31, 72, 87)

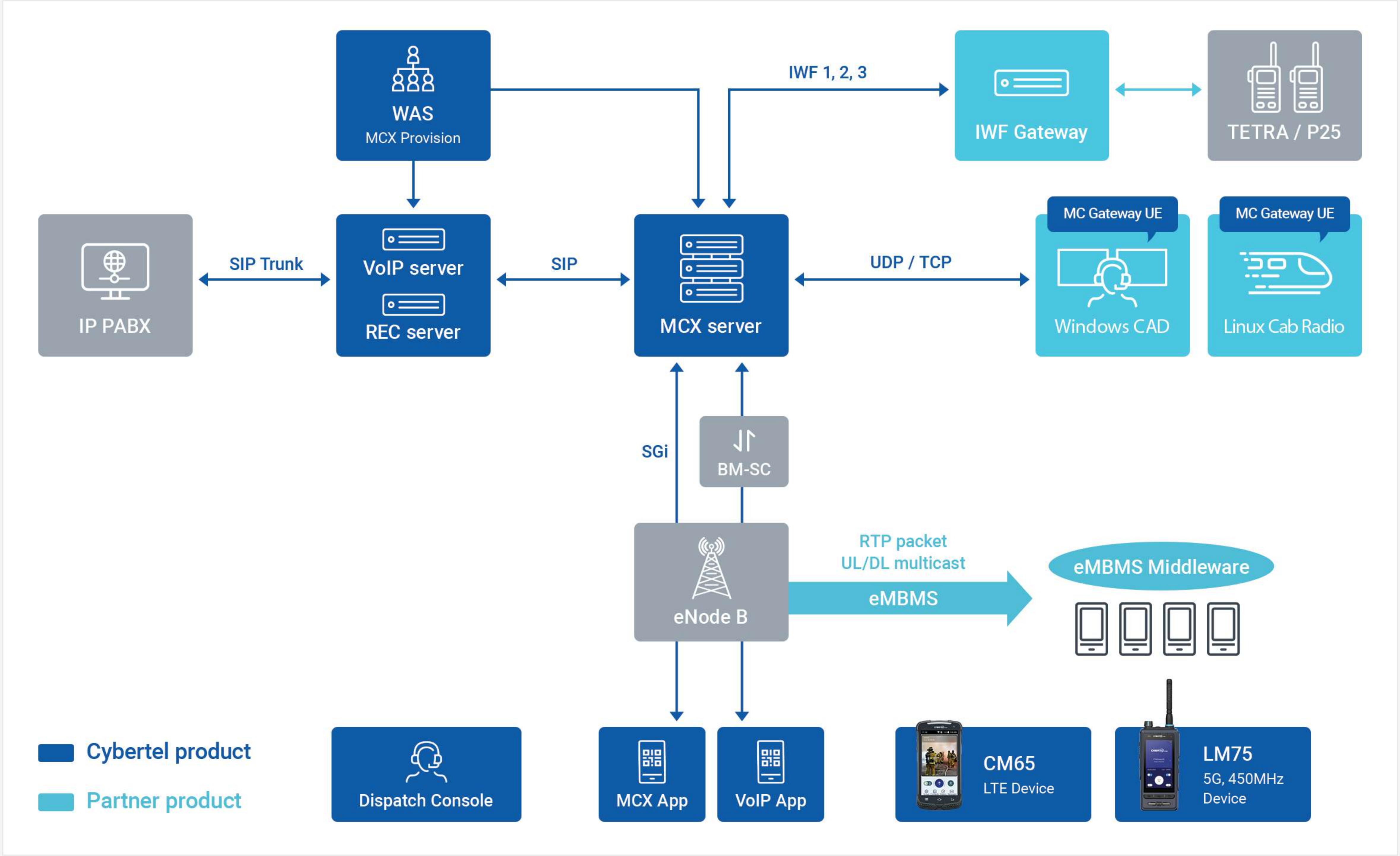
3 Front-faced loud speaker(3Watt)

4 DMR III DMO communication (optional)

5 Preloaded with Mission-critical applications (MCX, GIS, MDM)

MCX

MCX overview



Cybertel has live customers who utilized diverse use cases such as eMBMS multicast call in public safety, SIP Trunked to PaBX in utility communication and interoperability with Non-MCX Application in metro/railway.

Particularly, Cybertel has invented MCX middleware which running on Windows / Linux platform.

The middleware is directly installed in TETRA OCC / OBU in FRMCS and we can dramatically reduce interworking lead-time / effort. 3GPP recently defines the similar interface called MC gateway UE which enables MC service access for a MC service user on non-3GPP capable devices and for devices which are unable to host MC service client in TS 23.280 19.1.0

MCX solutions

