The Mission Critical Open Platform (MCOP)

©Bittium

The Mission Critical Open Platform (MCOP) collaborative project, driven by the U.S. Department of Commerce's National Institute of Standards and Technology (NIST), aims to meet the challenges of the emerging and complex MCPTT ecosystem. The project, set to complete by mid-2019, will define, develop and validate an open platform that identifies neat interfaces between the different technologies and reduce the integration efforts.

The 3GPP-defined MCPTT overall system is complex not only in terms of the technologies involved, but also the number and sometimes conflicting interests of hardware and network equipment vendors and service providers required for deploying, testing or researching an entire end-to-end solution.

The MCOP will remove the entry barriers of multiple technologies and proprietary platforms. It will ensure interoperability, and provide a catalyst for more players to enter this niche market by making the business case more attractive.

The MCOP will:

- Gather and agree on **common requirements** for the platform from industry
- Analyze **architecture problems**
- Define an **open platform** including different level APIs
- **Validate** the architecture and intermediate APIs
- Deploy and maintain a sustainable **live on-site and online testbed**
- **Disseminate** the results

Benefits for user organisations:

- **Improved** MCPTT awareness and encourage informed decision and purchases
- **Easier** to plan product integration
- **No dependence** on a single vendor
- **Hands-on** trials and training

MCOP Partners
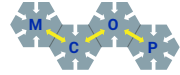
University of the Basque Country, Spain

The University of the Basque Country (UPV/EHU) leads the MCOP project. It is a teaching and research institution founded in 1985. The MCOP research group, NQaS (Networking, Quality and Security), has more than 15 years' experience in mobile networking and security R&D projects. Beyond the pure research activities mainly accomplished by the permanent staff, the research group involves a team of engineers who are primarily devoted to building prototypes, demos and pilots for validation purposes. *www.ehu.eus*

Bittium

Bittium specializes in the development of reliable, secure communications and connectivity solutions, leveraging its 30 year legacy of expertise in advanced radio communication technologies. Bittium provides Bittium Tough Mobile™ LTE smartphones, Bittium SafeMove® secure connectivity solutions and other innovative products for public safety, military and government customers in more than 40 countries. *www.bittium.com*

Expway

Expway is the LTE Broadcast expert, enabling mobile carriers, device manufacturers, and content delivery networks to monetize the mobile video-streaming explosion. Expway delivers content efficiently and cost effectively through the last mile, from the mobile carrier antenna to the end-user device, with consistent high-quality-of-experience. Expway is the only vendor to offer both the the LTE-Broadcast server and the device middleware. Expway is an active member and key influencer of the 3GPP. . *www.expway.com*

TCCA

TCCA represents all standard mobile critical communications technologies and complementary applications. We believe in and promote the principle of open and competitive markets worldwide through the use of open standards and harmonised spectrum. TCCA is a 3GPP Market Representation Partner and our Members actively contribute in the 3GPP working groups. *www.tcca.info*