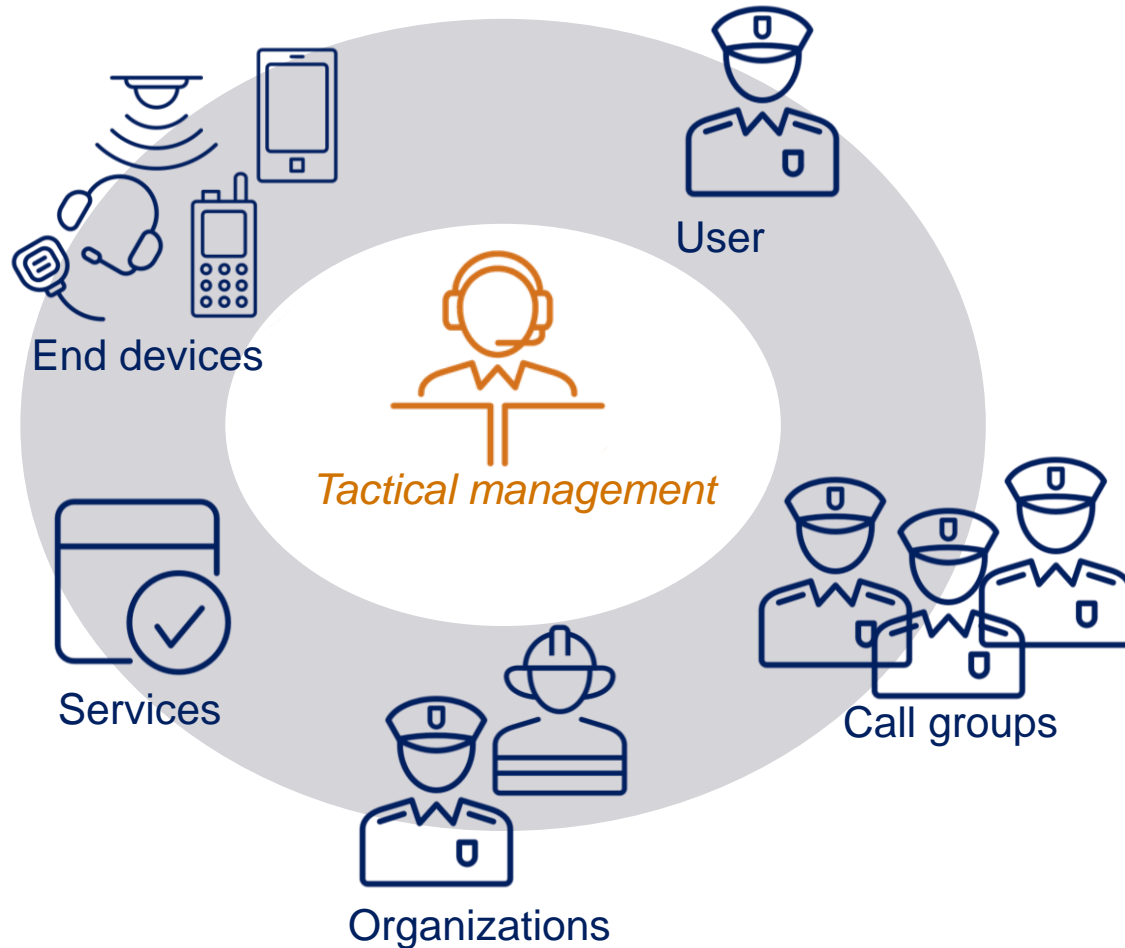




TETRA and broadband: Paths to cross-technology tactical management

Stephanie Strassner

AIRBUS



What does tactical management mean?

Tactical management enables the administration of mission-critical networks to be adapted to the situation and individual users

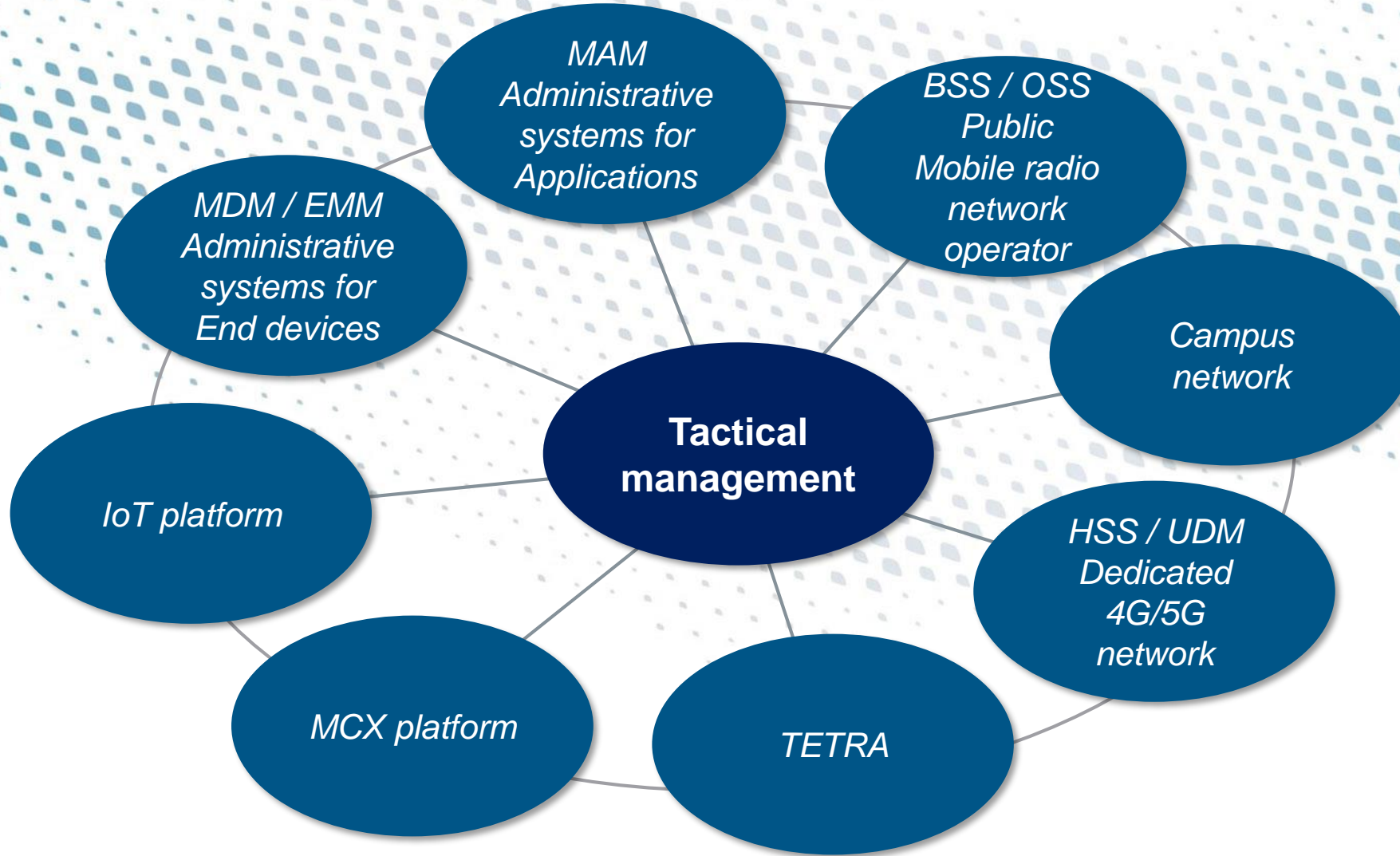
Tactical configuration adjustments affect a large number of users with their individual devices, applications, services and groups

What are the requirements?

- Tactical configuration adjustments affect a large number of users with their individual devices, applications, services and groups
- Communication structures are situational
- Event-based cooperation of a large number of independent organizations with their respective hierarchical user groups
- Separation of technical operations and tactical management
- High transparency
 - about the skills of the participants
 - on the current and planned tactical configuration
- Consistency of tactical management across technologies



Technologies - Services - Priorities - Contracts



What is the status?

3GPP TS 22.179 version 17.1.0 Release 17

20

ETSI TS 122 179 V17.1.0 (2022-04)

4.6 Overview of MCPTT priorities


4.6.1 MCPTT priority model

Many non-public safety 3GPP users today subscribe to one particular priority and QoS level of service (e.g., "gold", "silver" or "bronze"), which always provides fixed differentiation. This model, effective and relatively straightforward for non-public safety users, falls short when it comes to the needs of the public safety applications.

MCPTT Priority and QoS is situational. The MCPTT Service is intended to provide a real-time priority and QoS experience for MCPTT calls, as public safety users have significant dynamic operational conditions that determine their priority. For example, the type of incident a responder is serving or the responder's overall shift role needs to strongly influence a user's ability to obtain resources from the 3GPP system.

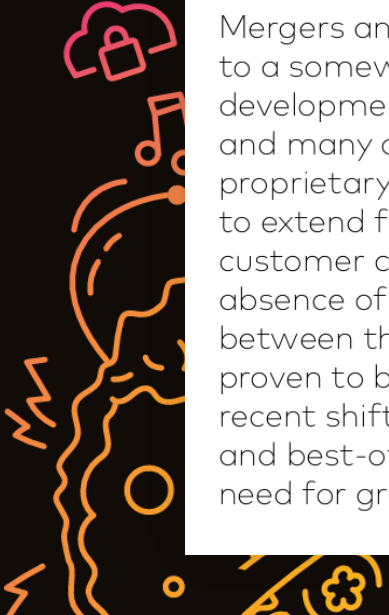
Source: 3GPP, TS22.179 version 17.1.10, 2022

What is the status?



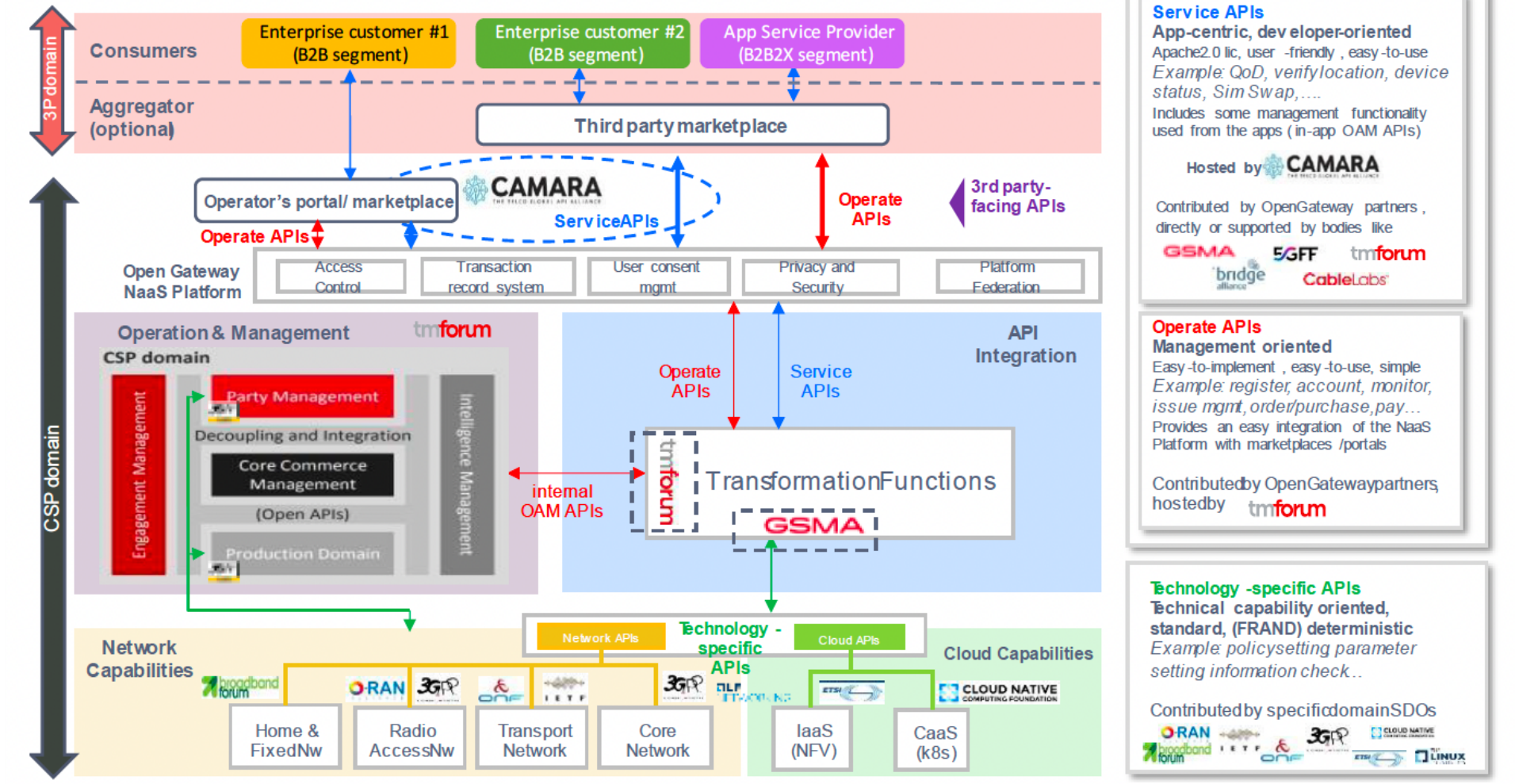
The Case for API Standardization

TM Forum's Open API program, the importance of industry-wide adoption, and future prospects for Service Provider IT applications



Over the past three to four decades, service providers have developed and implemented siloed solutions to handle specific business verticals. Mergers and consolidations further contributed to a somewhat disjointed approach to system development. Vendors such as Amdocs, Ericsson, and many others have traditionally created proprietary best-of-suite software applications to extend functionality across areas including customer care, provisioning, and billing. In the absence of a standardized framework, integrations between these mission-critical systems have often proven to be both costly and risky. Even the more recent shift of CSPs to cloud native technologies and best-of-breed solutions has only amplified the need for greater transparency and alignment.

User provisioning ecosystem



Source: <https://www.gsma.com/futurenetworks/wp-content/uploads/2023/05/The-Ecosystem-for-Open-Gateway-NaaS-API-development.pdf>

Tactical management of the future

- What principles?
- Which use cases?
- Which processes?
- Which technical interfaces?
- Existing broadband integrations and PoC?
- What could the tactical management of the future look like under the conditions discussed?



Tactical management of the future

Despite the wide variety of devices, transmission technologies and apps, the same still applies:

- **One** event
- **One** tactically responsible person
- **One** or MORE guided participants in the field
- The focus is on the users and its communication structures

Consequences:

- Tactical management is only useful if applied uniformly for existing and future services
- Ensuring transparency with dynamic adaptability of the configuration is the central function of tactical management.
- Reducing complexity is the central premise

The function of tactical management is independent of the technology

The Tactical Administrator requires:

- Consistency
- Transparency
- Easy to Use