

Push-to-Talk Ecosystem: Evaluating Standards and Reviewing What's New Project 25 Updates



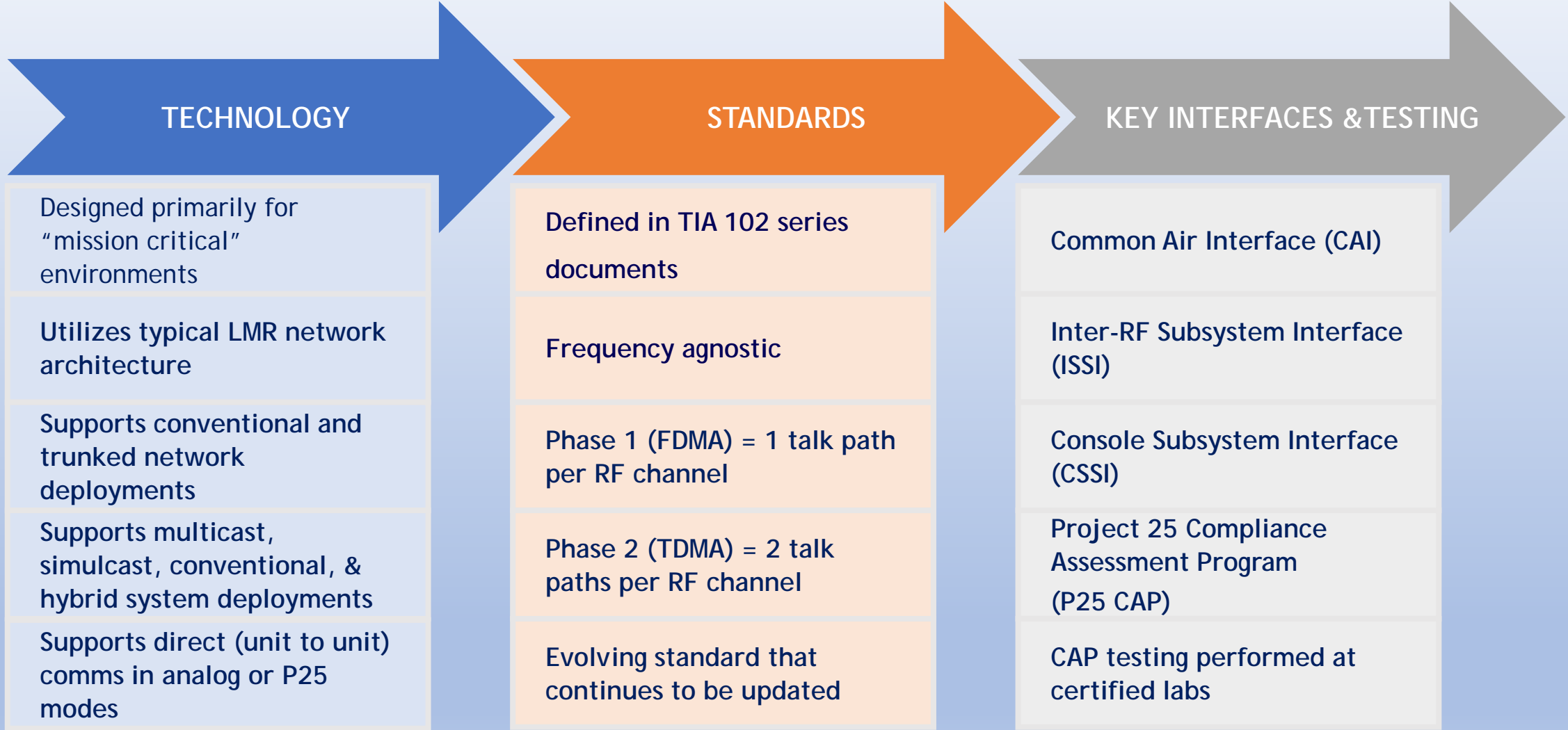
IWCE 2020 - Session VT23

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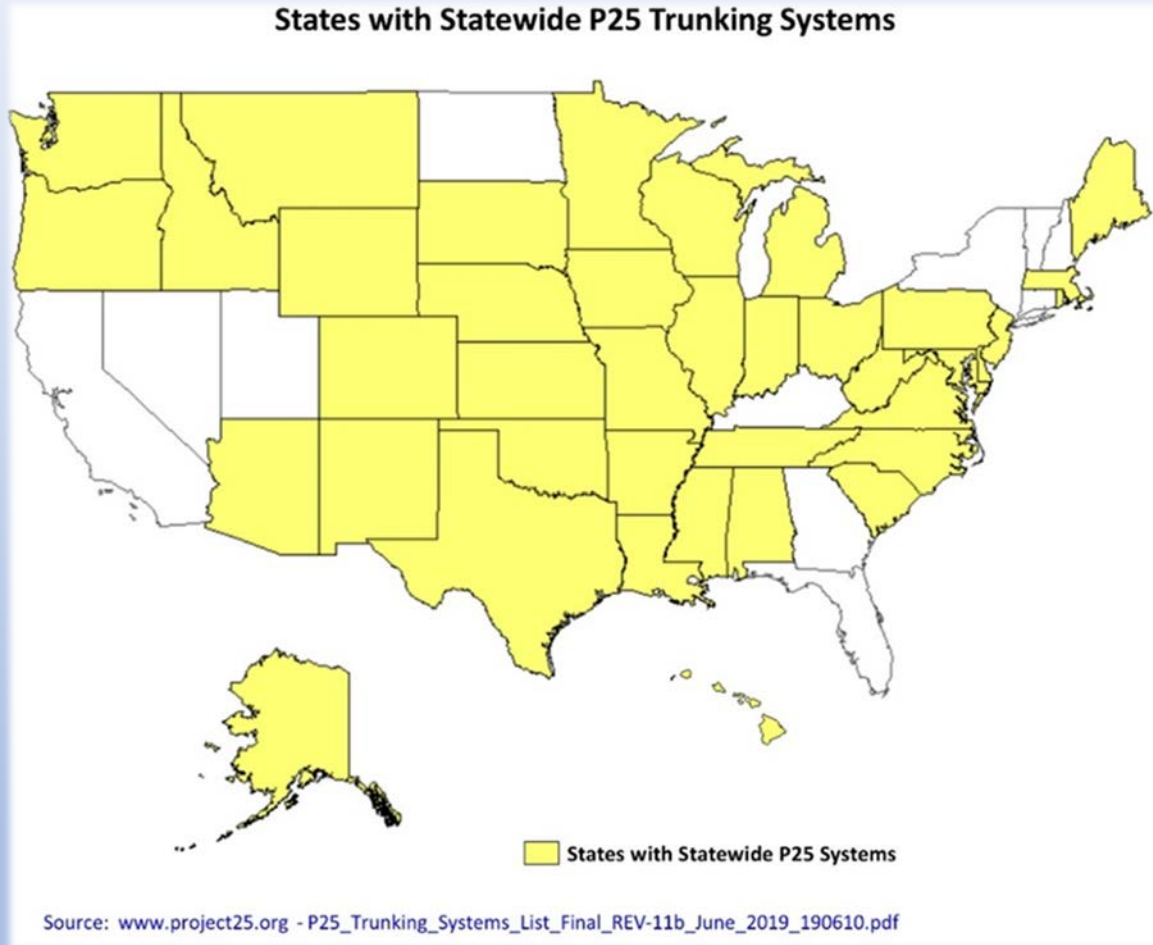
P25 Update Topics

- P25 Overview
- P25 Market Trends
- P25 and Broadband PTT - Challenges
- P25 Resources

P25 Overview



P25 Systems



Worldwide

- P25 Trunking Systems: 1017
 - P25 Phase 1: 653 systems
 - P25 Phase 2: 364 systems
- Conventional P25 systems: 1816

Source: <http://www.project25.org>

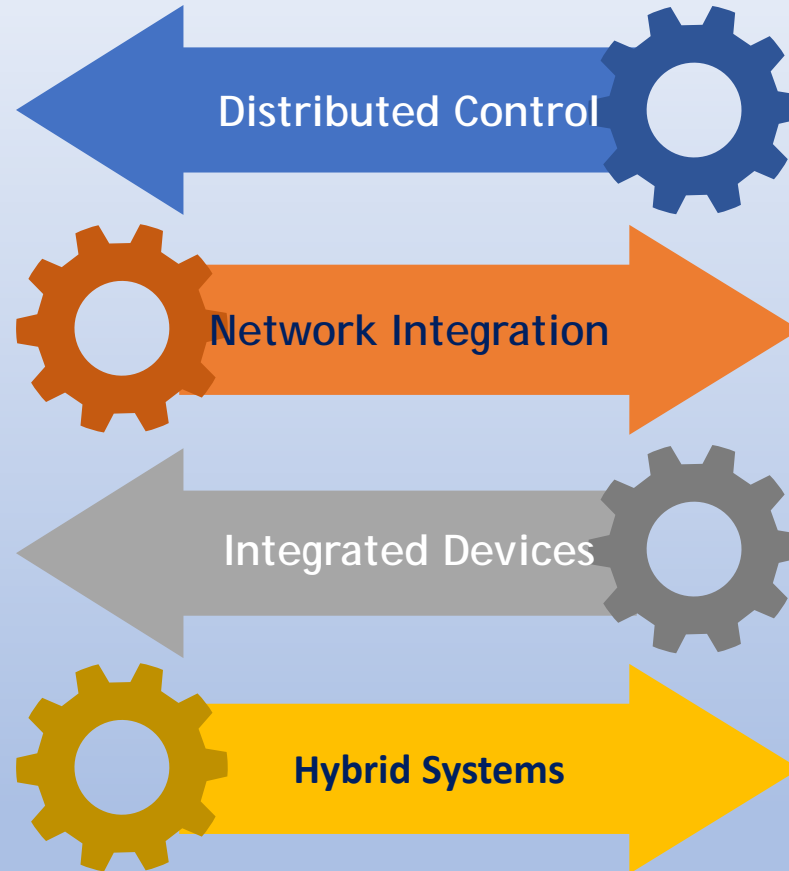
Notes:

- ❖ *Trunked system counts as of June 2019*
- ❖ *Conventional system counts as of March 2020*

P25 - Trends in the Market

Move from P25-to-P25 networking to interfaces with other systems, via ISSI:

- PTTToC - Carrier Integrated and Over the top
- PTTToBB - Wi-Fi and CBRS



Virtual server/controller architecture

- Simplifies system expansions
- Increases application redundancy
- Enhances system resiliency

Wi-Fi and/or LTE enabled P25 radios

- Coverage enhancement
- Programming updates

P25 and Broadband PTT Challenges

- Direct mode or Proximity Services (ProSe) limits
- Interoperability among carriers
- Interoperability among over the top (OTT) providers
- Managing operations across multiple networks
- Coverage, availability, security, reliability
- January 2020, NIST issued funding, in excess of \$6M, to three firms for Public Safety Innovation Accelerator Program: Mission Critical Voice Test Equipment (PSIAP-MCVTE)
 - Supports R&D for standardized MCPTT, MCVideo, & MCData test cases

P25 Resources

- Project 25 Technology Interest Group (PTIG)
 - www.project25.org
- P25 CAP
 - www.dhs.gov/science-and-technology/p25-cap
- P25 CAP Compliant Equipment
 - <https://www.dhs.gov/science-and-technology/approved-grant-eligible-equipment>

Thank You!

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