



# **Project 25 Compliance Assessment Program Overview**

IEEE EMC Society DFW

Richardson, TX

November 18, 2008

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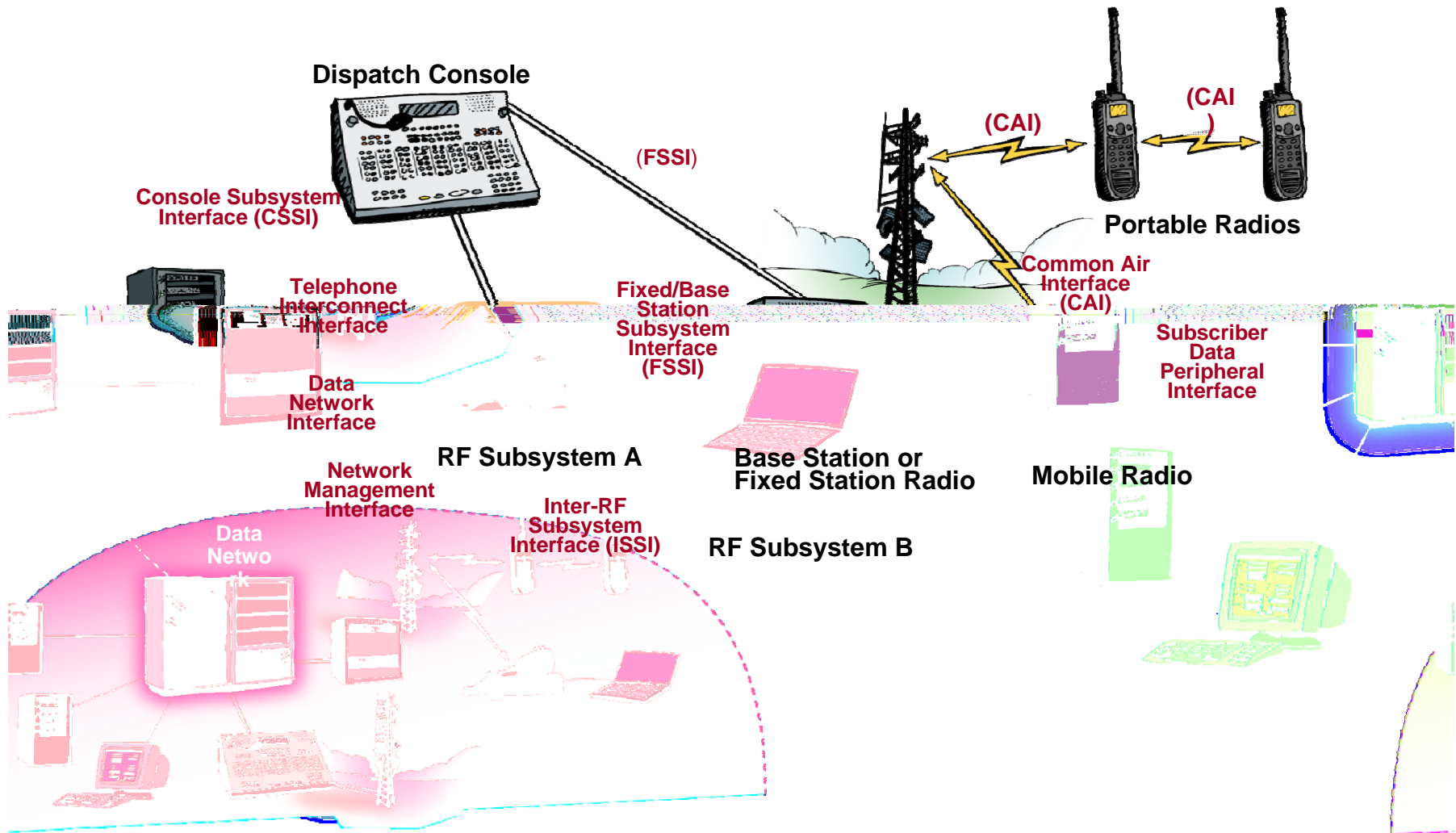
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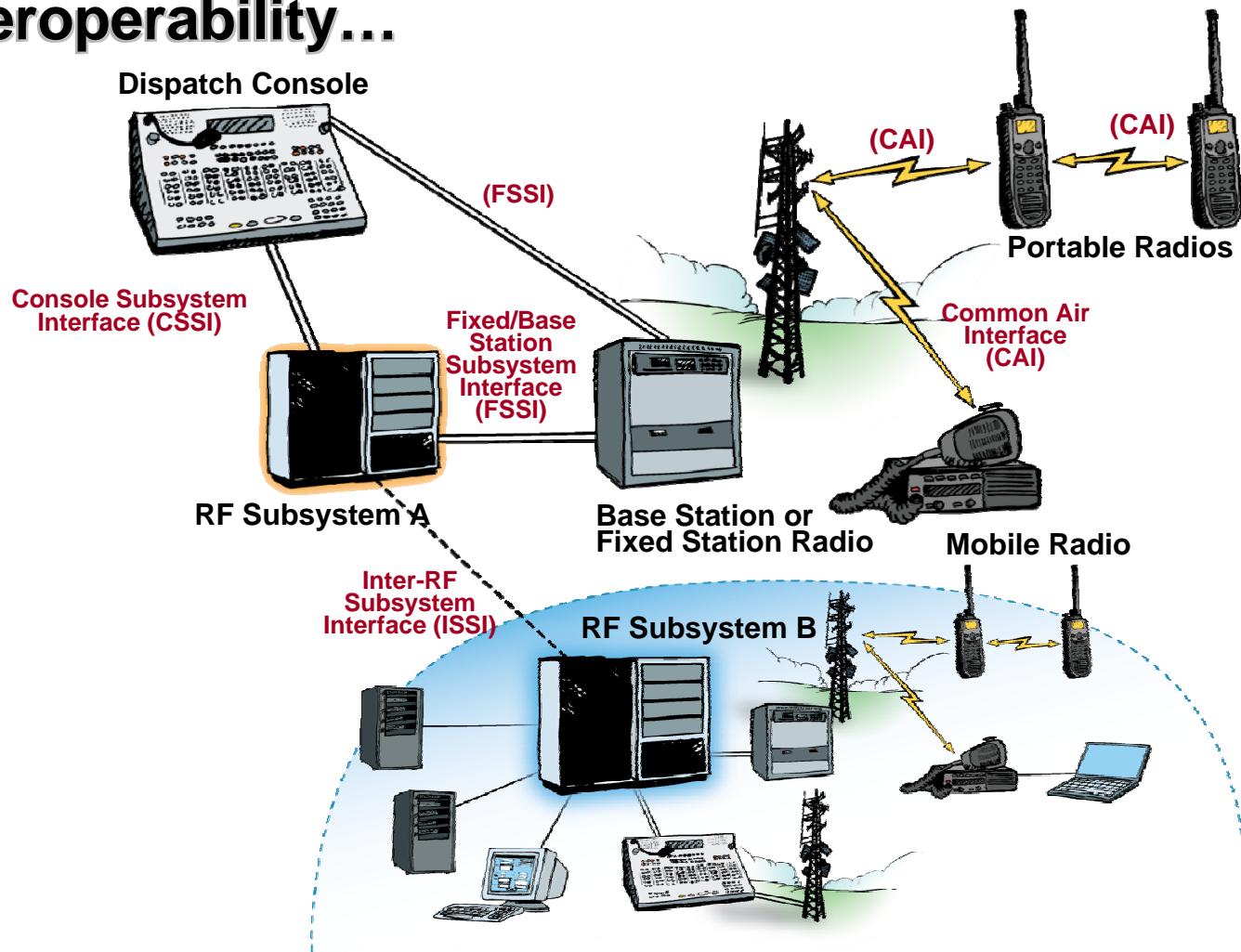
## **Project 25 Standards are Focused on Achieving Goals that Benefit the Public Safety Community**

<b><i>P25 Goals</i></b>	<b><i>Impact on Public Safety Community</i></b>
<b>Graceful Migration</b>	Allows an agency to move from a legacy system to a new system easily
<b>Competition in System Life-Cycle Procurements</b>	Users can select from multiple vendors that build innovative products to the same standards
<b>Interoperability</b>	Supports the sharing of information via voice and data signals on demand, in real time, when needed, and as authorized
<b>Practitioner Driven Approach</b>	Vendors develop public safety communications products that are driven by practitioner needs and requirements
<b>User Friendly Equipment</b>	Radio systems operate in consistent and familiar ways requiring the least mental and physical interaction by the operator
<b>Robust Compliance Assessment Program</b>	A comprehensive P25 assessment program will ensure that vendor products are tested and can be trusted to be P25-compliant
<b>Spectrum Efficiency</b>	Takes advantage of finite spectrum resources so more users can operate within limited bandwidths

There are eight P25 interfaces to be standardized, however...



# ...P25 is focused on four that have the broadest impact on public safety communications interoperability...



## **P25 CAP Guiding Principles**

- Independent oversight
- Auditable processes
- Definition of compliance jointly developed by users and manufacturers
- Content of declarations and reports jointly defined by users and manufacturers

# Independent Oversight

- Independent labs:
  - 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> party labs to participate
  - all labs will participate as 3<sup>rd</sup> party
- NIST defined processes based on international best practices:
  - ISO/IEC 17011, 17025, 17050
- *Recognition in lieu of accreditation*
- Laboratories assessed by independent parties prior to participation

## **Auditability**

- Labs and/or manufacturers subject to periodic audits
- Detailed and summary testing reports required of participating P25 manufacturers


*Intended to ensure ongoing quality processes and sound documentation practices to promote repeatable testing*

# Supplier's Declarations of Compliance (SDoC)

## SDoC Report

- Not a *certification*
- Summarizes the “who, what, when, where, how and why” of testing
- Signed by responsible company officials
- References the formal testing accomplished on the product
- Will be posted in a repository

## *Notional Published SDoC*



Project 25 Compliance Assessment Working Group

### SUPPLIER'S DECLARATION OF COMPLIANCE

No. XXXXX  
Place of Issue: <Name of Manufacturer>  
Date of Issue: January 12, 2007

<Name of Manufacturer> located at <street address> <city>, <ST> <zip> in <Name of Country> hereby declares that Project 25 portable subscriber units <product name> with installed options <list of installed options and configuration information> comply with the Federal Communications Commissions Rules and Regulations 47 CFR Part 90, and the following Project 25 standards:

**Performance test procedures:**  
TIA-102.CAAA-A, *Digital C4FM/CQPSK Transceiver Measurement Methods*, November 2002  
TIA-102.CAAB-A, *Land Mobile Radio Transceiver Performance Recommendations – Project 25 – Digital Radio Technology, C4FM/CQPSK Modulation*, September 2002

**Conformance test procedures:**  
TIA-102.CAxx, *Project 25 Conformance Test Procedures Conventional Voice Equipment – Level 1*, <month & year>  
TIA-102.CAxx, *Project 25 Conformance Test Procedures Conventional Voice Equipment – Level 2*, <month & year>  
TIA-102.CAxx, *Project 25 Conformance Test Procedures Trunked Voice Equipment – Level 3*, <month & year>  
TIA-102.CAxx, *Project 25 Conformance Test Procedures Trunked Voice Equipment – Level 4*, <month & year>

**Interoperability test procedures:**  
TIA-102.CABC, *Project 25 Interoperability Test Procedures Voice Operation in Trunked Systems*, December 2006  
TIA-102.CABA, *Project 25 Interoperability Test Procedures Conventional Voice Equipment*, February 2002

<Signature> <Date>  
<printed name>, <title or function of official> Date

# Summary Test Report

## Notional Summary Test Report

Project 25 Compliance Assessment  
Interoperability Test Report  
Common Air Interface  
Trunked Mode Operation

Motorola ASTRO 25

Test Case	Description	Radio #1	Radio #2	Radio #3	Radio #4	Radio #5	Radio #6	Radio #7	Radio #8	Radio #9
3.1	Basic Group Call Tests									
3.1.1	Basic Group Call Test - One RF Site (Test 1.1)	P	P	P	P	P	P	P	P	P
3.1.2	Talk Group Privacy Test - One RF Site (Test 1.2)	P	P	P	P	P	P	P	P	P
3.1.3	Group Call Late Entry Subscriber Test - Subscriber Initially Set for a Different Talk Group - One RF Site (Test 1.3)	P	P	P	P	P	P	P	P	P
3.1.4	Group Call Late Entry Subscriber Test - Subscriber Initially Involved in a Unit to Unit Call - One RF Site (Test 1.4)	P	P	P	P	P	P	P	P	P
3.1.8	Group Call Late Entry Subscriber Test - Subscriber Initially Involved in a Unit to Unit Call - Two RF Sites (Test 1.8)	P	P	P	P	P	P	P	P	P
3.2	Queued or Denied Group Call Tests									
3.2.1	Busy Queuing and Call Back Test for Group Call - One RF Site (Test 2.1)	P	P	P	P	P	P	P	P	P
3.2.3	Call Originator Subscriber Unit Not Valid Test - One RF Site (Test 2.3)	P	P	P	P	P	P	P	P	P
3.2.4	Target Talk Group Not Valid Test - One RF Site (Test 2.4)	P	P	N/A	P	P	P	P	P	P
3.3	Announcement Group Call Tests									
3.3.1	Basic Announcement Group Call Test - One RF Site (Test 3.1)	P	P	N/A	P	P	P	P	P	P
3.4	Protected Traffic Channel Tests									
3.4.1	Group Call Protected Traffic Channel Test - One RF Site (Test 4.1)	P	P	N/A	P	P	P	P	N/A	P

P25 Trunked Interoperability Test Report v6 Page 9 of 9

Provides 'at-a-glance' summary reviews of test results

- CAPPTG to define summary test reports with key product configuration info, test cases executed and test case verdicts
- Participating labs must use approved, common report formats
- Summaries available upon request
- Company proprietary detailed test reports subject to independent review by auditors

# Governing Board

- P25 CAP/GB Purpose
  - The P25 CAP/GB represents the ***collective interests of organizations that procure P25 equipment***. It establishes the policies of the P25 CAP, and assists the DHS OIC CAP Program Manager in the administration of the program.
  - The P25 CAP/GB issues Compliance Assessment Bulletins (CAB)s in support of the operation of the P25 CAP. These CABs, will constitute the collective body of information used by DHS OIC to develop requirements that must be met by equipment suppliers that participate in the P25 CAP.
  - The P25 CAP/GB is an independent body

# Governing Board

- Members

- Luke Klein-Berndt, Chair, DHS OIC
- Tom Sorley, Vice-Chair, City of Houston
- Kurt Fischer, Lab Program Manager, NIST
- Jim Downes, DHS OEC
- Rob Zanger, DOJ
- Martin McCoy, WyoLink
- David Steingraber, Wisconsin Office of Justice Assistance
- Pat Kenealy, Michigan Public Communications System
- Rick Adams, LA Sheriff's Department
- Dereck Orr, ex-officio, NIST/OLES

# P25 Compliance Assessment Work Flow

