

# Welcome to the World of Standards



## **TERRESTRIAL TRUNKED RADIO (TETRA); USER REQUIREMENT SPECIFICATION TETRA RELEASE 3; EMERGING BROADBAND DATA REQUIREMENTS**

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Broadband Critical, Communications Conference, 14-15  
February 2012

- 🌐 **Objectives**
- 🌐 **Timeline & Status**
- 🌐 **Inputs and informative Papers**
- 🌐 **Structure**
- 🌐 **Headline Content**
- 🌐 **Other Requirements?**

- **WG1 to produce a firm list of future requirements as an "Emerging Requirements Strategy" document**
  - Use MESA generated requirements, Analyses Masons collated requirements from TETRA Association inputs as a starting point
  - Early on saw the need to encompass the LEWP requirements
  - Targeted to add Mission Critical Infrastructure and Rail requirements
- **Need to show migration from TETRA and TETRAPOL**
- **Provide requirements for WG4 to enable them to propose solutions and write specifications**

- 24 March 2011 – TC-TETRA, Sophia Antipolis, Action 37/10 - WG1 to produce a firm list of future requirements as an "Emerging Requirements Strategy" document
- 14<sup>th</sup> September 2011 – First Draft
- 13<sup>th</sup> October 2011 – Review with WG1 in Tallinn
- 5<sup>th</sup> December 2011 – Second Draft
- 14<sup>th</sup>. December 2011- Review with WG1 in Bergen
- 27<sup>th</sup> January 2012 – Third Draft
- **February 2012 – Fourth Draft after Conference**
- **21<sup>st</sup> February 2012 – Review with WG1 in Berlin**
- **End February 2012 – Target WG1 Approval**
- **22<sup>nd</sup> March 2012 –Target TC-TETRA Approval**

- **ETSI TS 170001v 3.3.1. Project MESA; Service Specification Group-Services and Applications; Statement of Requirements**
- **ETSI TR 102 021-2 Ver. 1.3.1 User Requirement Specification TETRA Release 2.1; Part 2: High Speed Data**
- **Report for the TETRA Association-Public safety mobile broadband and spectrum needs. Final Report 8<sup>th</sup>. March 2010**  
**Analysys Masons**
- **ETSI SR doc TR 102 628 regarding “Additional spectrum requirements for future Public Safety and Security (PSS) wireless communication systems in the UHF frequency range”.**
- **Connecting America: The National Broadband Plan Chpt. 16 Public Safety, FCC March 2010**

- **The FCC Plan for a Public Safety Broadband Wireless Network, Jennifer A. Manner, Stagg Newman, Jon M. Peha, 2010, Telecommunications Policy Research Conference**
- **U.S. Department of Homeland Security  
Public Safety Communications Evolution**
- **U.S. Department of Homeland Security  
Interoperability Planning for Wireless Broadband**
- **Public Safety Mobile Broadband communications network –  
Operational requirements, Govt. Of Canada,**
- **Evolution of TETRA To a 4G All-IP Broadband Mission Critical  
Voice Plus Data Professional Mobile Radio Technology –  
Martin Steppler**
- **LEWP/RECG Matrix and TCCA Rail Forum Reqts., IP2012-01-12**

## 🌐 4.1 General

## 🌐 4.2 System requirements for Professional Users

## 🌐 4.3 Operational Requirements

- 4.3.1 Roaming Compatibility
- 4.3.2 Interoperability between present TETRA, Tetrapol or P25 ,BB MSs and present dispatchers
- 4.3.3 Priority
- 4.3.4 Data Throttling
- 4.3.5 QoS
- 4.3.6 Video Rate
- 4.3.7 Maintenance

## 4.4 Application requirements of PPDR

- 4.4.1 Location data
- 4.4.2 Multi-Media
- 4.4.3 Office applications
- 4.4.4 Download operational information
- 4.4.5 Upload operational information
- 4.4.6 Online database enquiry
- 4.4.7 Miscellaneous

## 4.5 Ranking of the criticality of Applications

- 4.5.1 First Priority, "Now", Group
- 4.5.2 Second Priority, Short", Group

- 4.5.3 Third Priority, "Medium", Group
- 4.5.4 Fourth Priority, " Long and Future", Group

## 4.6 Expected capability of TEDS

## 4.7 Applications identified today that cannot be satisfied by TEDS

## 4.8 Ranking of those applications by customer need

## 4.9 Requirements during migration to a new technology solution

## 5.0 If LTE is chosen

## 5.1 Some blue sky applications for the future (a search for the killer application)

- **Video and multi-media applications-principle drivers for BB**
- **Lots of data users in one locale also needs BB**
- **Will need PMR features and functionality**
- **PPDR will have systems requirements**
- **Evolution in data needs, operational practices and the extent to which data is mission critical**
- **Evolution in likely solutions**
  - TETRA 1, TETRAPOL, P25 voice plus other overlay data bearer or TEDS
  - TETRA 1/TEDS, TETRAPOL, P25 voice plus other data bearers or LTE
  - LTE-A voice and data

# Other Requirements?

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