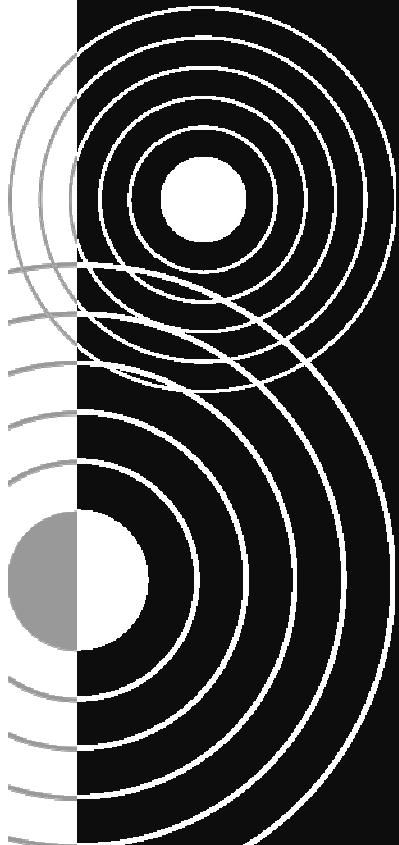


PUBLIC SAFETY DATA COMMUNICATION ROADMAP

Proposal to setup a working group
PSCE forum, Warsaw,
December 1st , 2011



BACKGROUND (1)

- Today's communication tools for public safety services cover only voice and low bitrate data
- There is a need for high data rate wireless communication
 - Situational awareness on site (e.g. Video transmission and
 - Data access)
- No "official" solution for high data rate wireless communication available
 - No dedicated spectrum available in this decade
 - No budgets available for dedicated broadband network
- Workarounds used:
 - Public networks e.g. UMTS, HSDPA
 - Wifi, WiMAX, wireless meshed Networks
- New wireless communication technology LTE (Long Term Evolution)

BACKGROUND (2)

LTE

- PPDR need mission critical wireless data solution
- USA's PPDR have decided: LTE, 700 MHz - and Europe ???
- Security, resilience, availability is a big issue
- Commercial networks are only a "work-around" as long as dedicated spectrum and/or network is not available
- Sharing of spectrum for "Critical Infrastructure Operators" is ok.
- Sharing of infrastructure with Commercial Operators may be ok.
- LTE needs "Public Safety Features" – when will they be available?
- Migration TETRA/TETRAPOL to LTE / in parallel / ...
- Spectrum planning has to be done now.

*LTE as potential communications technology for Public Safety operations –
a usability study taking into account the aspects "private vs. shared network"*

M. Blaha, 2011 08 05

PSCE Data Communication Working group (1)

Main Questions:

- Is LTE as communication technology generally usable for incident management for public safety services What has to be done to make it usable in the next 5 years?
- How to find possible and acceptable business models for operators and PS to support the co-existence and sharing of Networks in a mobile virtual network operator environment?
- How to integrate Satellite communication S-Band, Ka-Band?
- Can concepts of Service oriented Architectures (SoA) be integrated in the solutions?

PSCE Data Communication Working group (2)

Goal of the working group is to create a white paper:

- Roadmap and recommendations for LTE usage
- Regulatory aspects
- Advice to public safety organisation
- Input for EC for FP8 program as a research topic
- Input for industry and operators (planning, benefits)

PSCE Data Communication Working group (3)

Coordination with Broadband working group of TCCA necessary.

Input:

- Public Safety User requirements and scenarios for data communication
- LTE technological and commercial roadmap

Timeframe

- Draft of Whitepaper in 12 months (December 2012), PSCE Conference Rome.
- Final in 18 Months (July 2013)

Next steps

Call for participants and supporters:

- Public Safety Users
- Industry with LTE solutions
- Operators providing LTE services
- Research organisations interested in broadband communication
- Seven PSCE members confirmed their support already

Kick-off January/February 2012.

Agreement of goals and frame until Mid of February 2012

Working tools:

- Phoneconferences, once a month
- Personal meetings at the PSCE- Forum

Backup Slide

Current list of participants:

- Harold Linke – HITEC Luxembourg
- David Lund - HW Communications
- Frank Brouwer - WMC
- Roberto - HI-Iberia
- Robert Borgström - Ericsson
- Wojciech Dymowski, Adam Flizikowski - ITTI
- Manfred Blaha – Ministry of Interior, Austria
- Braam van den Ende – TNO
- Kate Yeadon – EPT

07 December 2011