



***Phil Godfrey***

Chairman

TETRA + Critical Communications Association



# ***The TCCA Perspective***

TETRA + Critical Communications Association  
Montreal Workshop 2014



# *The TCCA*

- The TCCA is a Members Association
- It represents the interests of all those for whom Mobile Communications are critical to their ability to do their job.





# *Critical Communications users*



Presentation on behalf of the TETRA + Critical Communica





# *Critical Communications users*



Defined to satisfy the needs of those that work in groups and therefore need to communicate in groups.

- *Mission Critical users*
- *Business Critical users*



# ***User categories***

---

- Public Safety (Police, Fire, Ambulance)
- Utilities (Gas, Electricity, Water)
- Transport (Rail, Metro, Bus, Trams, Ports, Airports)
- Fuel and Power Generation
- Petrochemical
- Mining
- Military and Paramilitary



# *TCCA History*

- Initially set up to support TETRA
- Increasing demand for Mission Critical Mobile Broadband





# *TCCA Philosophy*

- Encourage the adoption of Open Standards
- Encourage free and open competition amongst suppliers
- Ensure full interoperability between different manufacturers equipment
- Avoid the multiple standards of the past
- Drive the development of a single set of standards for Critical Broadband







# *Proprietary Technologies*

- Faster route to product availability than standards based solutions





# Failed Standards

- Betamax
- VLP
- ERMES (European Radio Messaging System)
- Telepoint





# *Proprietary Technologies*

- Faster route to product availability than standards based solutions
- Critical Communications market is not the same as the cellular market
- Serious drivers for producing and purchasing proprietary solutions





# User Needs

- France
  - *Need to replace their aging Tetrapol networks*
- UK
  - *Existing contracts for the provision of mobile communications will expire from 2016*
  - *Procurement is underway but existing technology does not meet the requirements*





# ***TCCA on Standardisation***

---

- Fast and efficient Standardisation process
- Utilise existing expertise
  - *3GPP for their knowledge of Core LTE technology*
  - *OMA for their past experience of PoC, device management location, presence and other service enablers*
  - *ETSI - TCCE for their knowledge of critical communications requirements and functionality*





# Summary

- Existing Critical Comms users have high expectations
- Please recognise the urgency of Critical Comms standards development
- Proprietary solutions are not in the best interests of our users
- Standards based solutions are needed





# Summary

- Existing Critical Comms users have high expectations

Simplex Calls  
Duplex Calls  
Broadcast Calls  
Direct Mode  
Telephony  
SDS  
Circuit/Packet Data  
Wideband Data  
GPS Protocol  
etc.

Stun  
Kill  
Short Number Address  
Emergency Calls  
Seamless roaming  
Equipment interope  
Key management  
Peripheral Equipmer  
Interface  
Callout

Pre-emptive Priority  
Access Priority  
Priority Call  
Discreet Listening  
Late Entry  
Ambience Listening  
Area Selection  
Dynamic Group Numb  
Assignment  
Talking Party Identification

Area Selection  
Handover  
Roaming  
Gateways  
Repeaters  
Air I/F Encryption  
E to E Encryption  
OTAR  
ISI  
etc.





***Thank You***

**TCCA**  
TETRA + Critical Communications Association