MCPTT PRIORITY
(Mission Critical Push To Talk)

IETF#95
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Public safety service for the first responders
  • Not a citizen to authority emergency call

Support for
  • Group call
  • Point to point call
  • Priority per group
    – Tactical groups, patrol groups etc.
  • Priority per user role
    – Incident commander, fire brigade leader etc.
  • Increased priority based on criticality of situations:
    – The public safety worker's life is endangered
    – Someone in the public in a life threatening situation
  – Large number of users and groups with different priorities
Service developed in 3GPP to

- Let the MCPTT service run over public networks
- Provide the same feature set as in existing dedicated public safety networks (Tetra and P25)
- Reuse as much as possible from OMA PoC
- Service requirements in 3GPP 22.179, architecture in 23.179, protocols in 24.379-384
- Reuse existing priority mechanisms from 3GPP networks
  - P-CSCF uses the SIP Resource-Priority header field for other applications

Priority used to

- Prioritize request handling
  - Request queuing
- Request access network resources
- Determine if pre-emption is needed

It shall be possible to set Priority levels based on situation, user roles, group function

It shall be possible to change Priority dynamically during the call
PRIORITY CONTROL FUNCTIONS

– MCPTT server:
  • Service aspects of MCPTT users
  • Authorizes service requests
  • Can modify the priority

– UE configuration of MCPTT priority levels
  • UE configured with values for when to use a certain priority level
• Defines two Session Initiation Protocol (SIP) Resource-Priority namespaces to meet the 3GPP MCPTT requirements
  – Pre-emption
  – Queueing
• Namespace values indicate priority levels
MCPTT1, preemption

- mcptt1.0 (lowest priority)
- mcptt1.1
- mcptt1.2
- mcptt1.3
- mcptt1.4
- mcptt1.5
- mcptt1.6
- mcptt1.7
- mcptt1.8
- mcptt1.9
- mcptt1.10
- mcptt1.11
- mcptt1.12
- mcptt1.13
- mcptt1.14
- mcptt1.15 (highest priority)
MCPTT2, queueing

- mcptt2.0 (lowest priority)
- mcptt2.1
- mcptt2.2
- mcptt2.3
- mcptt2.4
- mcptt2.5
- mcptt2.6
- mcptt2.7
- mcptt2.8
- mcptt2.9
- mcptt2.10
- mcptt2.11
- mcptt2.12
- mcptt2.13
- mcptt2.14
- mcptt2.15 (highest priority)
NEXT STEPS

• Adopt the draft
• AD sponsored
THE END

THANK YOU FOR LISTENING!