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

draft-holmberg-dispatch-mcptt-rp-namespace

- 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

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- 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!