IEEE 802 Emergency Services ECSG

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Abstract: SG Status presentation to WGs

Presentation release statements

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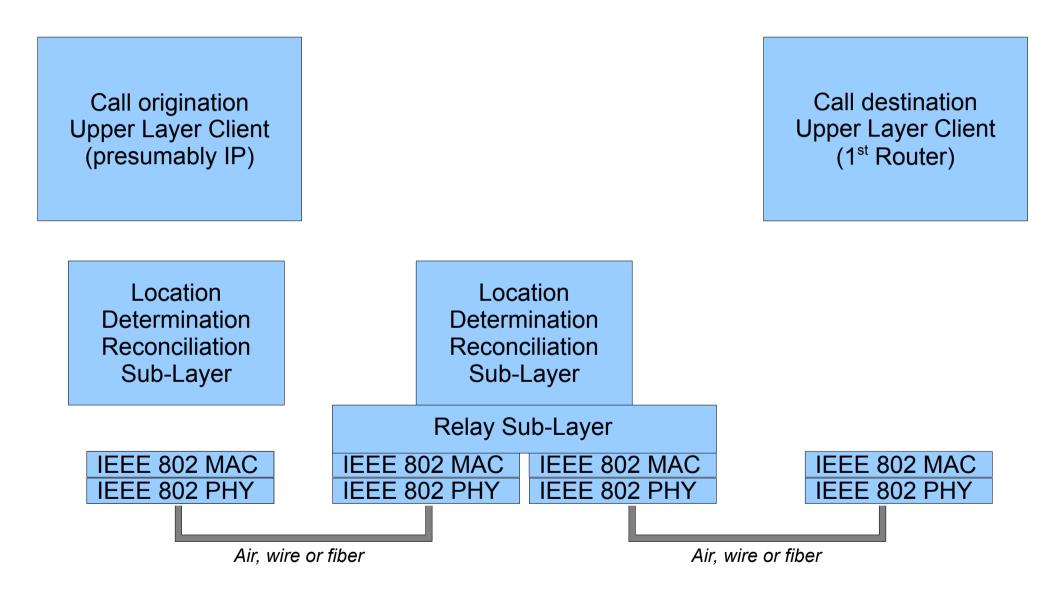
802 EMERGENCY SERVICES PRE-PAR BRIEFING

- 802 EMERGENCY SERVICE EC STUDY GRP
- CREATED BY EC AT END OF JULY MEETING
- TO DEVELOP ARCHITECTURE AND PLAN
- GEOFF THOMPSON, CHAIR

Major Tasks

- Satisfy legal requirements for E911 VoIP "calls" uniformly across 802 standards (equiv to cell)
- Work to IETF ECRIT as upper layer req'ts
- Big ticket tasks:
 - Call/Packet is identifiable as an "Emergency Call"
 - Goes to local call services @ 1st router (tunnel breakout)
 - Provide location information
 - Non-subscriber access

IEEE 802 EMERGENCY SERVICES ARCHITECTURE



Functions for 802 ES RSL (1)

- Follow ECRIT "calling endpoint" call model
- Present loc. info. to dest. Upper layers.
- Insert location information at source device
- Harmonize loc. info at source device (generate, store or transform)
- Detect ES call and provide "tunnel breakout"
- Provide whatever ES security that is necessary
- Provide Packet Type for ES
- Somehow assure that an IP address will be provided (requires upper layer support)

Functions for 802 ES RSL (2)

- Provide the same location information to nonemergency applications (with appropriate safeguards).
- LoST server access is a problem !!
 (If not a subscriber, foreign dial string is used & call is not yet identified as an ES call.)
- Accommodate both "wire database" and "calling endpoint" sourced location information.

Functions for 802 ES RSL (3)

- Determine and cache the location of the End Device in which it is embedded (per IETF ECRIT: 6.2, 6.3):
 - From locally provided facilities such as GPS, configuration data, etc.
 - As gathered and computed from network information
- Expected location format is LLDP per 6.5

Major Problem for 802 ES RSL

- End stations MUST know their location (per IETF ECRIT & ECRIT phone-bcp) before call initiation.
 - Difficult to guarantee this for non-subscribers.
 - Result is that best location info for non-subscribers may well be access/attachment point location.

Major Tasks (takeaway list)

- Satisfy legal requirements for E911 VoIP "calls" uniformly across 802 standards
- Work to IETF ECRIT as upper layer req'ts
- Big ticket tasks:
 - Call/Packet is identifiable as an "Emergency Call"
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802 Emergency Services ECSG

- PAR to be presented for approval in March
- We meet T/W/Th in "Vinings" room (Conf level)
- We need participation !!
- Reflector: ecsg-802-emergencyservices
- Web site: http://grouper.ieee.org/groups/802/ecsg/
- Chair: Geoff Thompson<thompson@ieee.org>
- Next interim co-loc w/ 802.16, La Jolla (1/11/10)

THANK YOU!!