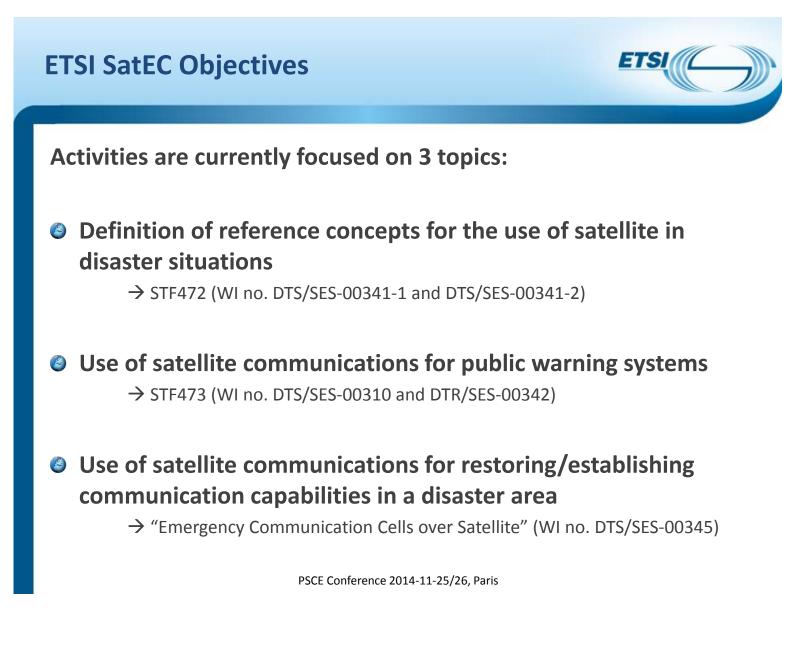
Welcome to the World of Standards



ETSI Technical Body SES/SatEC Satellite Earth Stations & Systems Satellite Emergency Communications

Specialist Task Force 472: Scenarios for Emergency satellite-assisted TLC Services Specialist Task Force 473: Alert Message Encapsulation

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STF 472 Overall Objectives

Reference scenarios for Emergency satellite-assisted TLC Services

1. Define scenarios for:

- Major earthquake in an urban environment
- Mass public transportation accident in countryside

2. Describe set of emergency responses to scenarios

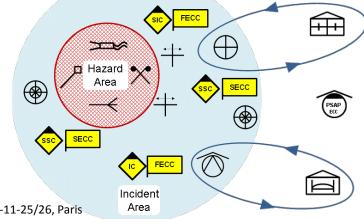
- Involved services
- Actors

3. Identify information exchanges between emergency services

- Source(s), sink(s)
- Content

4. Model topology and mobility

- (Quasi-)stationary actors
- Moving actors



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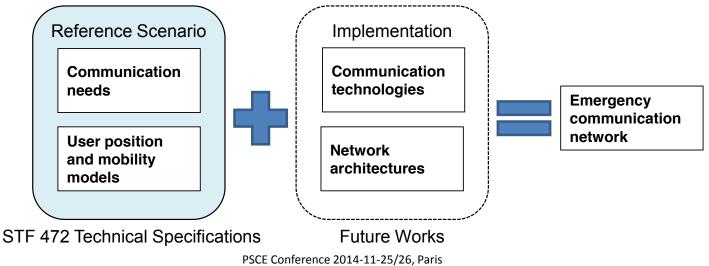
Approach and Next Steps



Fact-finding

- 18 semi-structured interviews in 6 countries (civil protection authorities emergency services, military, NGOs)
- Discussions and conferences, literature, personal experience and contacts

Translation of findings into reference scenario



STF 473 Overall Objectives



MAMES = Multiple Alert Message Encapsulation over Satellite

Ø Define a <u>powerful encapsulation scheme</u> with these main purposes:

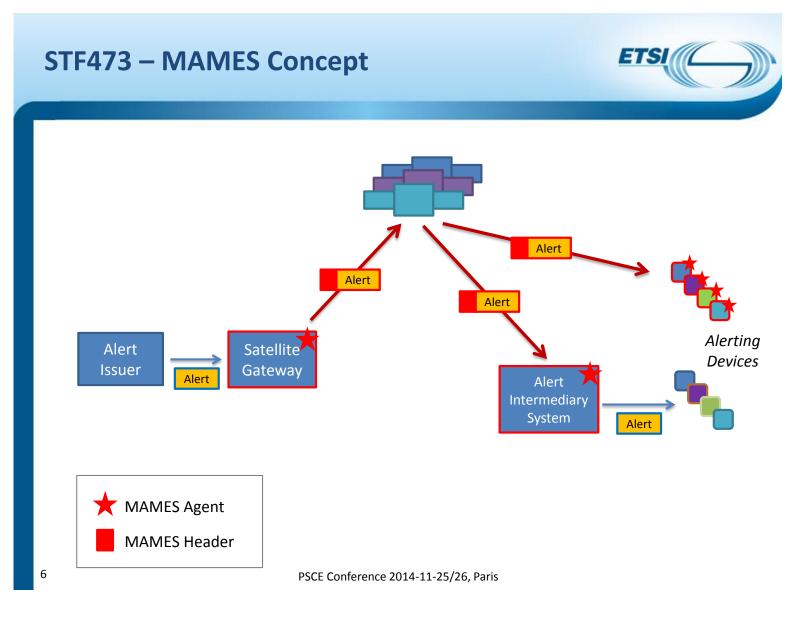
- <u>Encapsulate</u> arbitrary alert messages for transmission over satellite (incl. existing alerting formats like e.g. CAP, paging prot.);
- <u>Support</u> efficient targeting and rendering capabilities to better fit the needs of emergency authorities and the general population.
- Fit in the main <u>SatCom</u> and <u>SatNav</u> systems

Provide <u>enhanced capabilities</u> such as:

- Selective activation (based on space-time coordinates);
- Distribution to end-user devices and intermediary systems;
- Operation over unidirectional and bi-directional links (ACK support);
- Integrity verification and sender authentication;
- Support message concatenation.

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Contact/Feedback



http://portal.etsi.org/stfs/STF_HomePages/STF472/STF472.asp



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Contact/Feedback



http://portal.etsi.org/STFs/STF_HomePages/STF473/STF473.asp



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