

Early Warning in the IETF

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CAP message transport

- How to carry a CAP message in SIP?
- Focuses on publish – subscribe and conveyance of CAP documents in SIP messages.
- Document:
<http://tools.ietf.org/html/draft-rosen-sipping-cap>

Challenges of PubSub in Early Warning

- Security
 - Authorize the sender of the early warning messages (also considering roaming)
- Scalability
 - Information about the interested recipients needs to be stored
 - Alerts rarely happen
 - Scoping according to
 - geographical location of the events
 - type of alerts.
- Congestion handling

Next Steps:

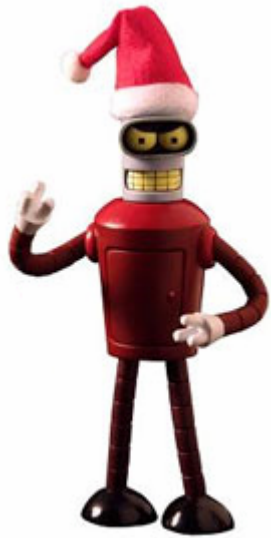
Authority-to-Citizen Alert (ATOCA) IETF BOF

- Initially planned for Nov. 2008; postponed to March 2009
- Mailing list:
 - <https://www1.ietf.org/mailman/listinfo/earlywarning>
- Announcement:
 - <http://www.ietf.org/mail-archive/web/ecrit/current/msg05579.html>
- Proposed Deliverables:
 - Requirements
 - Framework
 - Various protocol and mechanism enhancements to meet the requirements identified

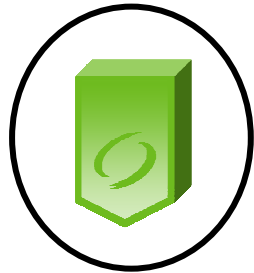
On CAP

- A number of elements/attributes are specified in a flexible way leaving room for further interpretation.
- As argued in <http://tools.ietf.org/html/rfc5218> this is not necessarily a high priority success criteria.
- Implications for overall system depends a lot on the envisioned usage of CAP (also outside the early warning space)
 - Tsunami / earth quake warning vs. weather warnings distributed via RSS feeds
 - Early warning vs. REACT project alike usage

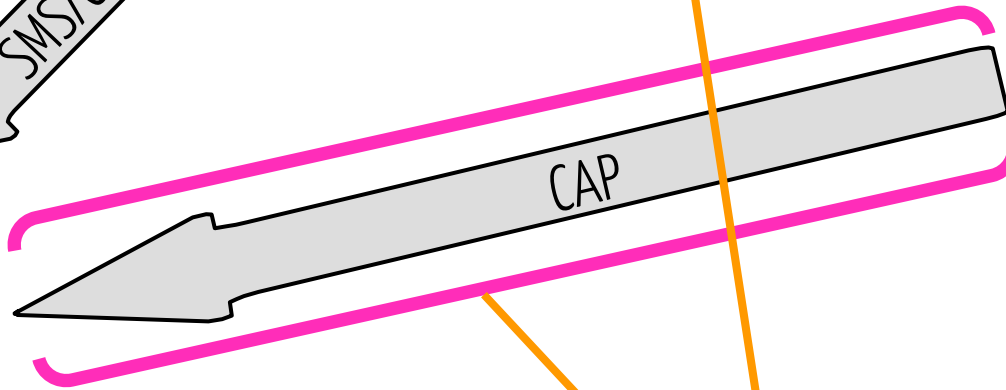
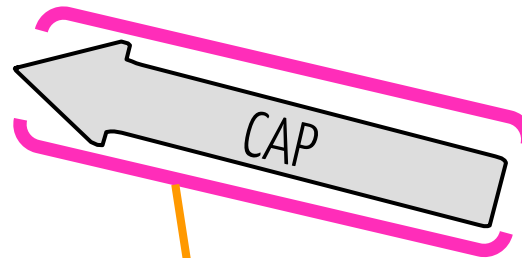
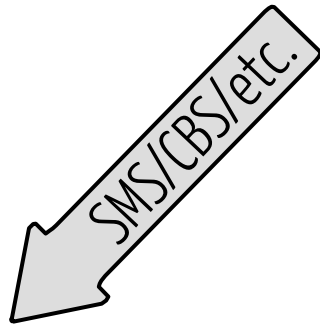
User



Aggregator



End Host



Entity
issuing
alerts

Interoperability issues
quite different between
these approaches.

Issues

- When more automatic processing between a larger number of entities is desired → more interoperability issues → more strictly defined semantics necessary.
- Best current practices available for user interface aspects? (e.g., style sheets, etc.)
- Who ensures that CAP profiles are backwards compatible?
 - Is there an expert review process for CAP profiles?