

Use of EAP for SIP Media Authorization

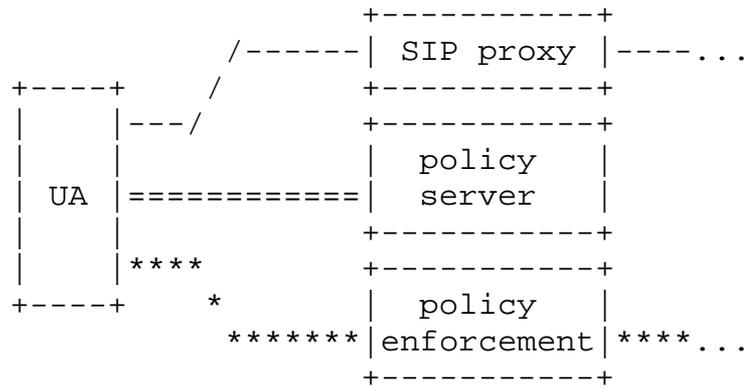
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Problem

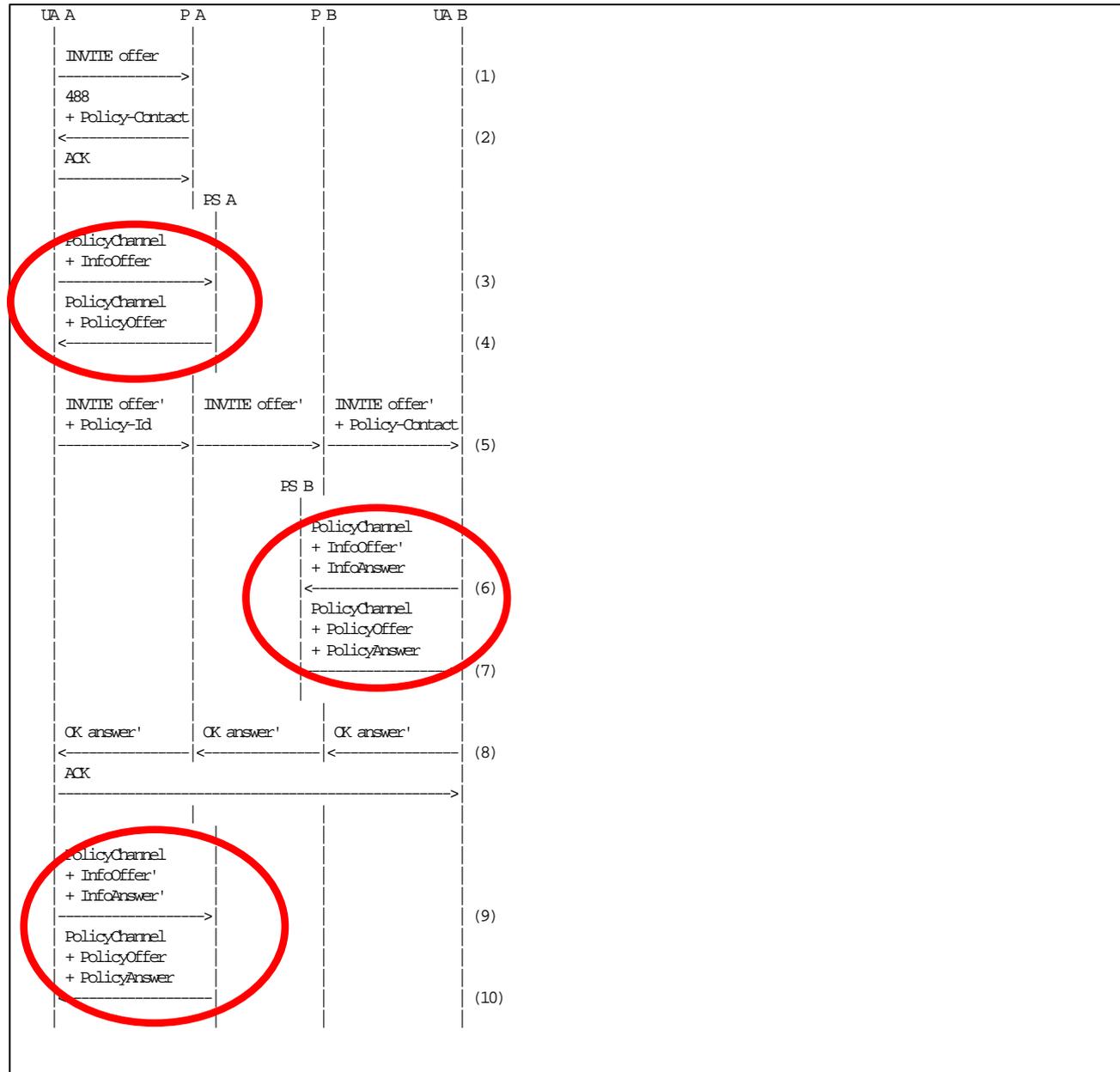
- SIP Events [RFC 3265] to implement a “session policy channel” (as currently defined in draft-ietf-sip-session-policy) provides a good general purpose solution, but:
- SIP Events is an inefficient realization of the policy channel for limited bandwidth access networks (4 large SIP messages per exchange).
- Large SIP messages take a significant amount of time to be transported between the endpoint and the network.
- In 3GPP IMS all SIP message are routed through the home network, even if policy server is in visited network.

Overview

- Service providers may have policies that apply to the media types negotiated for SIP sessions and media types, codecs etc may require authorization during SIP session establishment.
- Current session policy solution are not designed for bandwidth constrained links.



--- SIP Signaling
 === Policy Channel
 *** Media



Solution

- Encapsulate the policy channel (e.g. Info Answer) within an EAP TLV.
- Determine media authorization information, at L2, in parallel to AAA authentication.
- Media authorization can be implemented more efficiently using EAP.
- XML can be compressed within the TLV.
- EAP TLV is carried within a EAP tunnelled method (e.g. EAP-FAST).

Tunnelled Method Reqs

- Media authorization could become an optional tunnelled method requirement

Document Status

- draft-mccann-emu-spol-framework-00 (To Be Submitted?)
- draft-mccann-emu-spol-policy-protocol-00 (To Be Submitted?)
- XML compression negotiation (SigComp?)