MLDv2 User Authentication Problem Statement

draft-sarikaya-mboned-mldauth-ps-00.txt

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Background

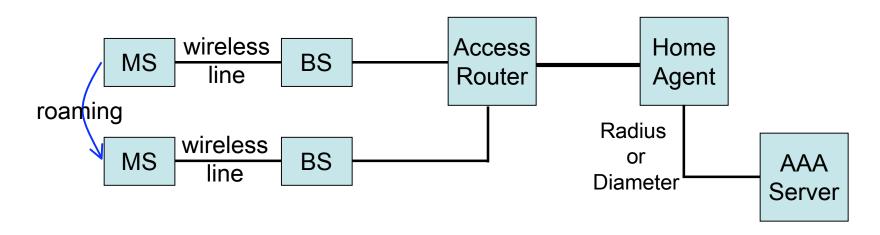
- Lack of accounting and access control in IP multicast makes it difficult to be widely deployed.
- Functional requirements related to AAA for IP multicasting to be used in commercial services have been stated in draft-ietf-mboned-maccntreq.
- Towards the solution, a framework for specifying AAA in IP multicast services is being developed in draft-ietf-mboned-multiaaa-framework.
- Our draft's main motivation is to add mobility requirements to draft-ietf-mboned-maccnt-req.

Problem Statement

- MLDv2 currently does not support user authentication while the user joins the multicast group.
- Access provider/ network service provider and content provider may be different entities, multi-domain AAA operation needed for authenticating mobile station is complicated.

Architectural Considerations

- Mobile station (node) wants to use multicast services such as Mobile TV.
- MS mobility may be managed by HA.



Requirements

- Authentication between MS and HA MUST support MS mobility/roaming.
 - EAP is a suitable candidate for such requirement because it is currently the de facto authentication protocol and can be used with AAA protocols like Radius or Diameter. It also supports mobility.
- Optimization between network- and application-layer authentications.
 - MSEC GKM protocol may be used by CP for DRM. It has its own authentication and authorization functions.
 - MSEC is mainly an application layer solution. For MLDv2 authentication, MSEC solution may not be applicable.
 - Therefore, there will probably be 2 different authentication schemes running on different layers.
 - A optimization between the 2 set of authentication schemes may help improve users' seamless usage experience.

Next Step

- Need more comments and feedback
- Need to investigate a WG for solution activity
- Accept this draft as a WG I-D?

Comments?

Thanks!