



MSEC Area 3 – Policy

(draft-irtf-smug-polreq-00.txt)

Presented by Patrick McDaniel

pdmcdan@eecs.umich.edu

IETF MSEC BOF

San Diego, CA

December 12, 2000



Problem

- ◆ How do we create, distribute, and enforce a session (security) policy?
- ◆ Policy is “... a statement of the entirety of security relevant parameters used to implement the group.”
 - who are the entities allowed to participate,
 - which mechanisms will be used to achieve mission critical goals
- ◆ Policy (from framework document)
 - Creation, Translation, Representation

Group vs. Peer Policy

- ◆ Similar objectives
 - Distribution of context defining policy
 - Collaboration/use of existing work
- ◆ Differences
 - Describes more dynamic, complex context
 - Local policies – participant requirements
 - More complex auth/access control models
 - N-party negotiation

Requirements

- ◆ Creation and translation
 - Flexible policy infrastructures (creation)
 - Synchronized, unambiguous policy (translation)
- ◆ Representation
 - Unambiguous, succinct, clear
 - Support a useful range of policies
 - Flexibility in integrating new policies
 - Support for existing infrastructures and approaches (PFWG, SPS, IPSec)

Building Blocks

- ◆ Policy system can be defined by these areas:
 - Identification
 - Mechanism
 - Authorization
 - Access Control
 - Verification
- ◆ ASN.1 structure (example: GSAKMP)

Documents

- ◆ Multicast Security Policy, P. McDaniel and H. Harney and P. Dinsmore and A. Prakash. June 2000.

draft-irtf-smug-mcast-policy-00.txt

- ◆ Multicast Security Policy Requirements and Building Blocks, P. McDaniel, H. Harney, A. Colegrove, A. Prakash, and P. Dinsmore. November 2000.

draft-irtf-smug-polreq-00.txt

A session (security) policy is ...

- ◆ “... a statement of the entirety of security relevant parameters and facilities used to implement the group.”
 - how security directs group behavior,
 - who are the entities allowed to participate,
 - which mechanisms will be used to achieve mission critical goals
- ◆ Note: not restricted to electronically distributed statements