Automatic Multicast Tunneling
Open Source Development *

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* Funded by Cisco
AMT – Initial BSD Code

- Initial code for AMT Relay and Gateway for BSD were developed by Tom Pusateri
- No support for IGMPv3
- No support for forwarding IGMP requests from other hosts
- Was compliant with AMT draft version 3
AMT - Linux port

- Ported Tom’s BSD code to Linux
- Added support for IGMPv3
- Added support for forwarding IGMP requests from other hosts
- Compliant with AMT draft version 7
- Only receiving multicast in the AMT site is supported
IGMP Proxy

- Ported the IGMP proxy developed by Lahmadi Abdelkader of Loria, France
- Compliant with “IGMP/MLD Proxying” RFC (rfc-4605) except for NO MLD support
- Added support for configuring downstream and upstream interfaces
Linux AMT Gateway

- AMT Gateway and IGMP proxy run as two different daemons
- Gateway needs to be UP before the IGMP proxy
- Communication happens through TUN interface
- TUN is configured as upstream interface for the IGMP proxy
- The TUN interface can be configured while starting AMT gateway
AMT Gateway Architecture

Linux Box

IGMP Proxy

AMT Gateway

TUN

Downstream interfaces

AMT Site

AMT Tunnel

Unicast IP network
Interoperability

Linux AMT Gateway interoperates with

- Cisco Relay
- Open Source Relay
Testing

- Video Lan Server used as source
- VLC and TestMSF used as clients

- Test Environment:
Thank you