Automatic Multicast Tunneling
Open Source Development *

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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
- Downstream interfaces
- AMT Site
- Unicast IP network
- AMT Tunnel

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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:
AMT Gateway & IGMP Proxy

- Can download both at www.cs.utdallas.edu/amt
Thank you