Automatic Multicast Tunneling Open Source Development *
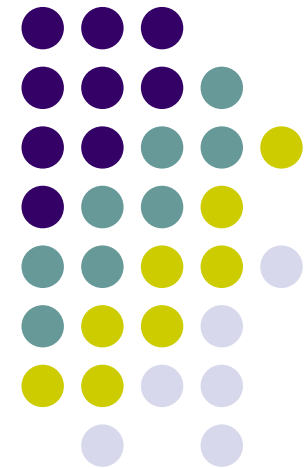
Sachin Karisiddappa

Dr. Kamil Sarac

Univ. Texas at Dallas

UTD The University of Texas at Dallas

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 <u>NO</u> MLD support

- Added support for configuring downstream and upstream interfaces
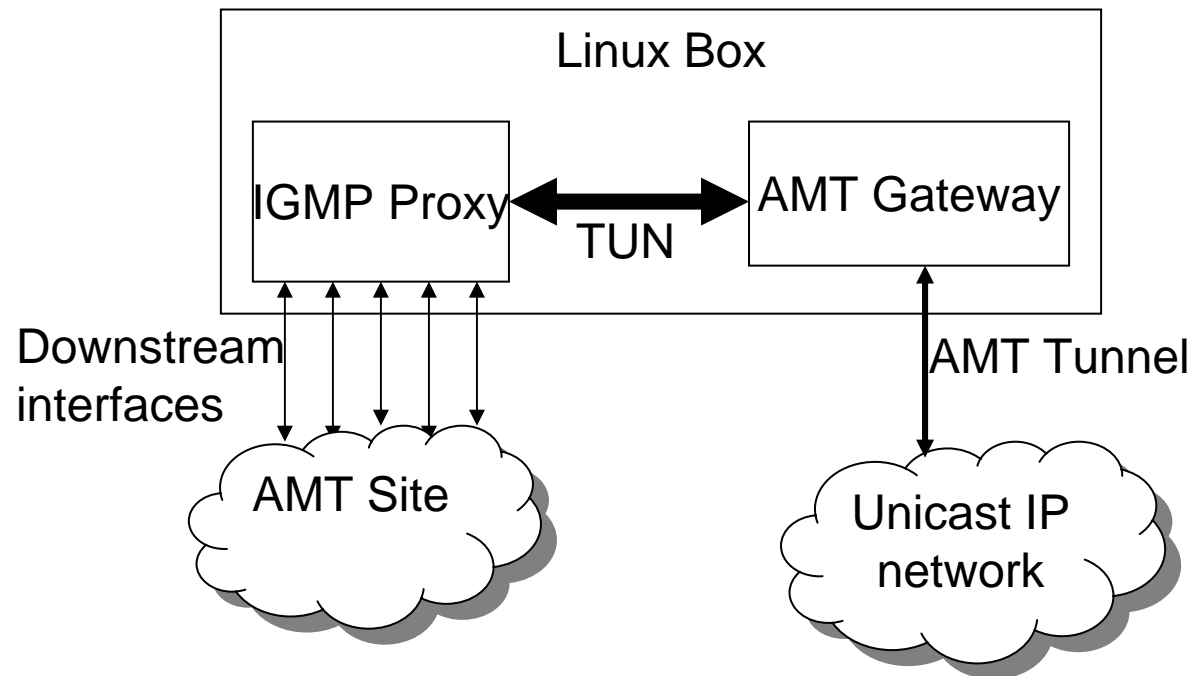
The University of Texas at Dallas

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
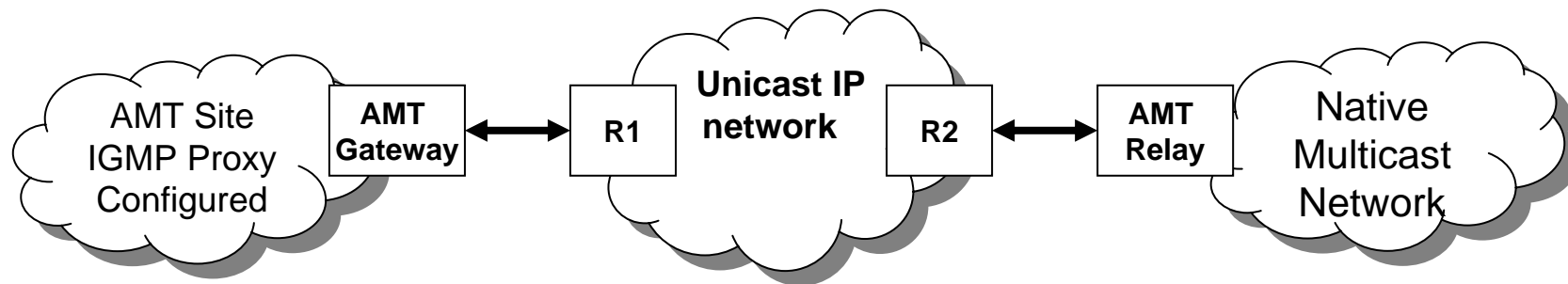
Interoperability

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

The University of Texas at Dallas