Token-Based Port Mapping

draft-begen-avt-token-for-portmapping-02

IETF 79 – November 2010

Ali C. Begen, Dan Wing and Tom Van Caenegem
{abegen, dwing}@cisco.com, Tom.Van_Caenegem@alcatel-lucent.be
Example: SSM + Unicast Retransmissions

SSM Source

RTP/RTCP Multicast

Unicast Feedback

Server (w/ Feedback Target)

NAT

Client

Unicast RTP/RTCP
Token Protects from Bandwidth Attacks

Token retrieval is done once

Same Token is used until the server decides the Token is invalid
Changes in the Latest Version

- This is a stand-alone document that provides a viable solution for Port Mapping
  - Explains the motivation
  - Requirements for the server and client sides
  - Defines message formats
  - Provides information on how to generate and validate Tokens
  - Explains how the Tokens work in networks with CGNs
Next Steps

- Adopt this draft and normatively use it in the RAMS draft