Stream Control Transmission Protocol (SCTP) Network Address Translation Support

draft-ietf-tsvwg-natsupp-22.txt

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Status

- Reviews received from
  - Magnus Westerlund
  - Claudio Porfiri
  - Martin Duke
- Some of the comments can be addressed (clarification, corrections, additions)
- Claudio / Magnus bring up a fundamental issue

SCTP NAT

- A NAT can change the source/destination addresses of a packet, but not the source/destination port numbers.

- Multihoming support requires special handling due to consistent handling of NAT functions on different paths.

- How to handle local port number collissions?

Two Ways of Doing NAT

- Using the port numbers with the verification tag as a association identifier
  - 46-bit of randomness
  - Requires changes in association lookup in the end-points
- Classical way of doing NAT (not NAPT)
  - Needs the end-points to take care of port number collisions
  - No changes in association lookup