One-Way Active Measurement Protocol Requirements

(draft-ietf-ippm-owdp-reqs-00.txt)

Functional Requirements

TEST STREAM

Poisson stream test packets should be supported…others?

DATA POST PROCESSING

Post-pocessing of data not required

RESULT DISTRIBUTION

Distribute measurement results via individual requests

Transfer results directly to end destination

PROTOCOL SEPARATION

Session setup/teardown/confirmation/retrieval

Actual measurement session

Security Considerations

HARD TO DETECT

  Results can not be tampered with

SECRECY / CONFIDENTIALITY

  Control protocol information should be kept confidential

AUTHENTICATION

  Peers should be able to authenticate each other with user ID and shared secret…..

INTEGRITY

  Control protocol and test protocol

MODES OF OPERATION

  Completely open (unauthenticated)

  Extremely secure (encrypted)

  Encrypted but leave timestamp in the clear