

nsis ntlp discussion

<draft-shore-ntlp-00.txt>

- What was included
- What was omitted
- What should be removed

what was included

- Started with literal view of decision made in San Francisco (2205 + 2961)
- Excised IntServ-specific material and multicast support from 2205
- Kept TLV data format
- Kept 2205 + 2961 protocol machinery
- Changed base message types — now only one
- Oriented towards supporting widest variety of applications
- Globally-scoped flow identifier

what was excluded

- Needs to be filled in
 - Security (needs much more WG discussion)
 - IANA considerations
 - Fragmentation (needs much more WG discussion)
 - Mobility (needs more WG discussion)
 - Error/exception messages
 - NSLP interface needs brief discussion
- Good riddance
 - Multicast

rfc 2961

- Three basic functions:
 - Refresh overhead reduction (summary refreshes)
 - Message bundling (multiplexing)
 - Reliable delivery
- Refresh overhead reduction
 - Send identifier rather than idempotent messages
 - Slows down response to routing changes or node reboots (4 messages instead of 2)
 - Reasonably low-cost (MESSAGE_ID + timer), low-complexity
 - Probably should keep as an option, but firm up procedures
- Message bundling
 - Easy state, complex runtime
 - Complex security interactions
 - Increases packet size (obviously)
 - Would recommend dropping, **except** we should bundle NAT requests with other requests to reduce complexity around NAT traversal

rfc 2961 (cont.)

- Reliable delivery
 - No compelling demonstration of need
 - Adds considerable complexity, both in implementation and runtime
 - Improves our ability to secure NTLP (but possibly more than needed)
 - Should give serious consideration to dropping
- Not 2961 but should be changed:
 - "directionality" flag should be hop-by-hop flag