

NAT/Firewall NSIS Signaling Layer Protocol (NSLP)

[draft-ietf-nsis-nslp-natfw-14.txt](#)

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NSIS Working Group, 68th IETF meeting

Draft Update (1)

- Working group review comments incorporated.
- Removed leftover of NATFW_CREDENTIAL from Appendix D and IANA considerations
- NATFW_DTINFO object must be included when using the LE-MRM.
- NATs and firewalls need to have information about the used transport protocol
- Added text to Section 3.4 "Calculation of Signaling Session Lifetime"

Draft Update (2)

- Simplified Appendix A "Selecting Signaling Destination Addresses for EXT"
- Replaced terminology "upstream" by "inbound" and "downstream" by "outbound"
- Added new asynchronous notification 'NATFW signaling session lifetime expired'
- Changed NOTIFY semantics to allow sending inbound and outbound, depending on notification type

Draft Update (3)

- In Section 3.7.6.2 "Proxying for a Data Sender", added clarification on how to teardown the CREATE send by the proxy
- Clarified throughout the text what type of sessions is always meant, i.e., if either application session or NATFW NSLP signaling session
- Terminology: Clarified the "mode" terminology usage. There is now only the proxy mode operation left.
- Editorial changes to Section 2.8 "Multihomed Network with NAT" for better illustration

Draft Update (4)

- Clarified when the lifetime of a session starts in Section 3.2.3 "NATFW NSLP Signaling Sessions"
- Reworked the NAT semantics part of EXT
 - Some cases where missing

Review by Security Area Directorate

- Review by Catherine Meadows
- Clarifications for the security mechanisms demanded for
 - Section 5.2.3, data sender behind a firewall
 - Section 5.8, misuse of unreleased sessions
- Security consideration section considered to be too long.
 - Suggestion by Catherine: The detailed list of attacks should be removed.

Implementations

- University of Göttingen
 - <http://user.informatik.uni-goettingen.de/~nsis/>

- University of Coimbra
 - <http://nsis.dei.uc.pt/>

- University of Karlsruhe
 - <https://projekte.tm.uka.de/trac/NSIS/>

Next Steps

- Draft update addressing security comments
 - Deadline: April 2007
- Interop testing to gain implementation feedback?
- Working Group Last Call ready soon.