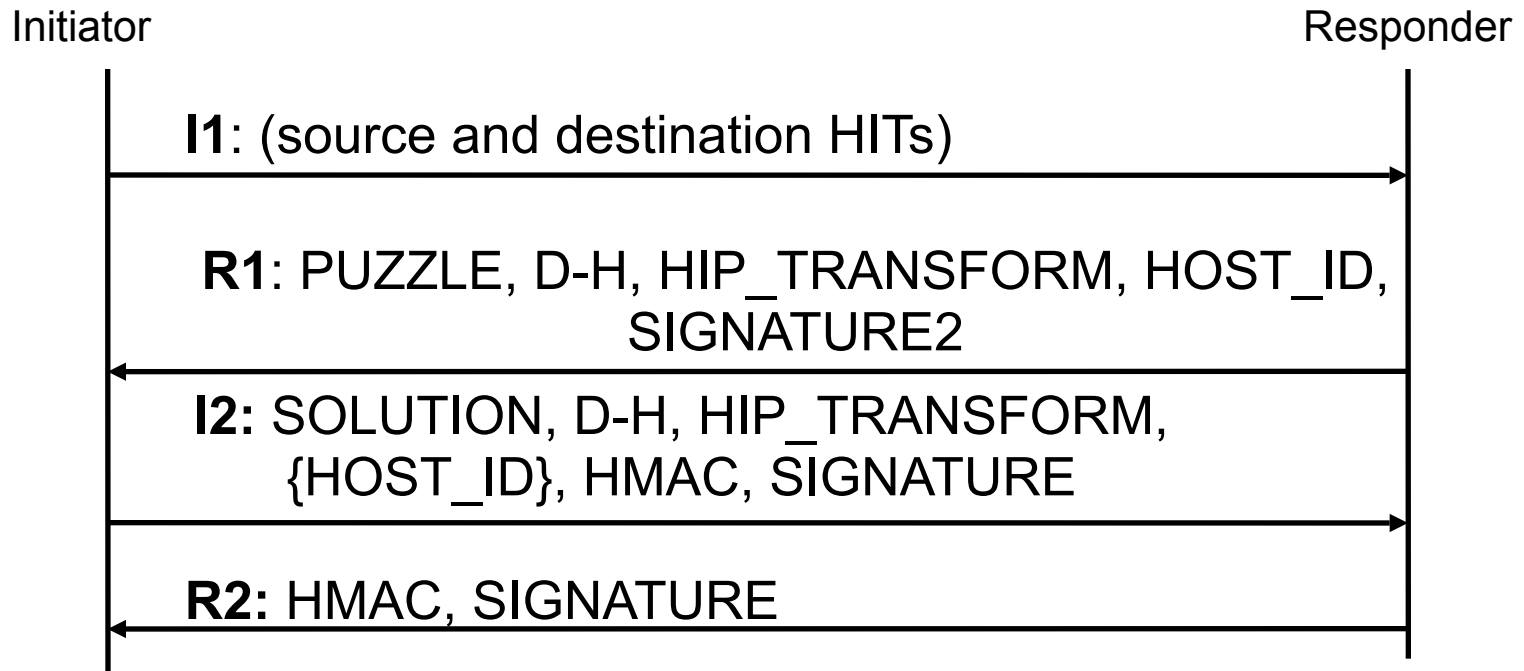


HIP base specification draft-ietf-hip-base-02

Petri Jokela and Pekka Nikander

The HIP base exchange



Base HIP: additional messages

- CER
- UPDATE
 - change connection parameters
 - usage defined in separate documents
- NOTIFY
 - provide fault information to the peer
- CLOSE – CLOSE_ACK

Changes between -01 and -02

- ESP transform usage moved to draft-jokela-hip-esp-00
 - Modular structure, enables new transforms
- A new restriction for HIT values
 - All HITs must begin with binary 01 or 10
 - The restriction to be lifted at January 1st 2009
- Appendix A (API) removed (issue 54)
- User data transmission format "negotiation" (issue 55)
 - Type values 2048-4095 reserved for transforms
 - Parameters in preferred order, not in type order

Current open issues

- Issue 49: IANA considerations section
 - This section is missing
- Issue 53: Move LSIs into a separate draft; **relatedly**
- Issue 31: LSI 1.0.0.0/8 allocation from IANA
 - No actions taken yet

New open issues

- HIT formation with SHA-1
 - Use HMAC instead of plain hash?
 - Use SHA-256?
 - Update HIT length to 256 bits?
- Generalisations as proposed by Tom
 - A separate presentation
- Comments received from Tuomas Aura
 - To be handled on the mailing list

Next steps

- Resolve the new open issues at the mailing list
 - Generalisation
 - Comments from Tuomas Aura
- Update implementations?
- Working group last call by Paris?