

HIP DNS Extensions

[draft-ietf-hip-dns-02.txt](#)

Julien Laganier, Pekka Nikander

HIP WG, 63rd IETF
Paris, France

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Status

- Two new DNS RRs used by HIP nodes
- The HIPHI allows a HIP node to store:
 - Its HI and/or HIT
- The HIPRVS allows a HIP node to store:
 - Its Rendezvous Servers' FQDN or IP address

Cross-area review by some dnsext members

Thanks to Olaf Kolkman and Edward Lewis !

Changelog since -01

Resolver behavior

- Added example of resolver query behavior
- Clarify that getting multiple RRs requires multiple DNS queries (and not one ANY)
- Remaining issue: Do we want to:
 - Mandate that first one query is made, and when completed, others are issued in parallel?
 - Let it as an implementation choice.

Changelog since -01

RR Presentation Format

- HIT
 - Base16 encoding (aka Hex)
 - « . » if not present
 - No whitespace allowed
- HI
 - Base64 encoding
 - « . » if not present
 - Whitespace allowed
 - HIPHI examples fits in the I-D 72 characters limit :)

Changelog since -01

Security Considerations

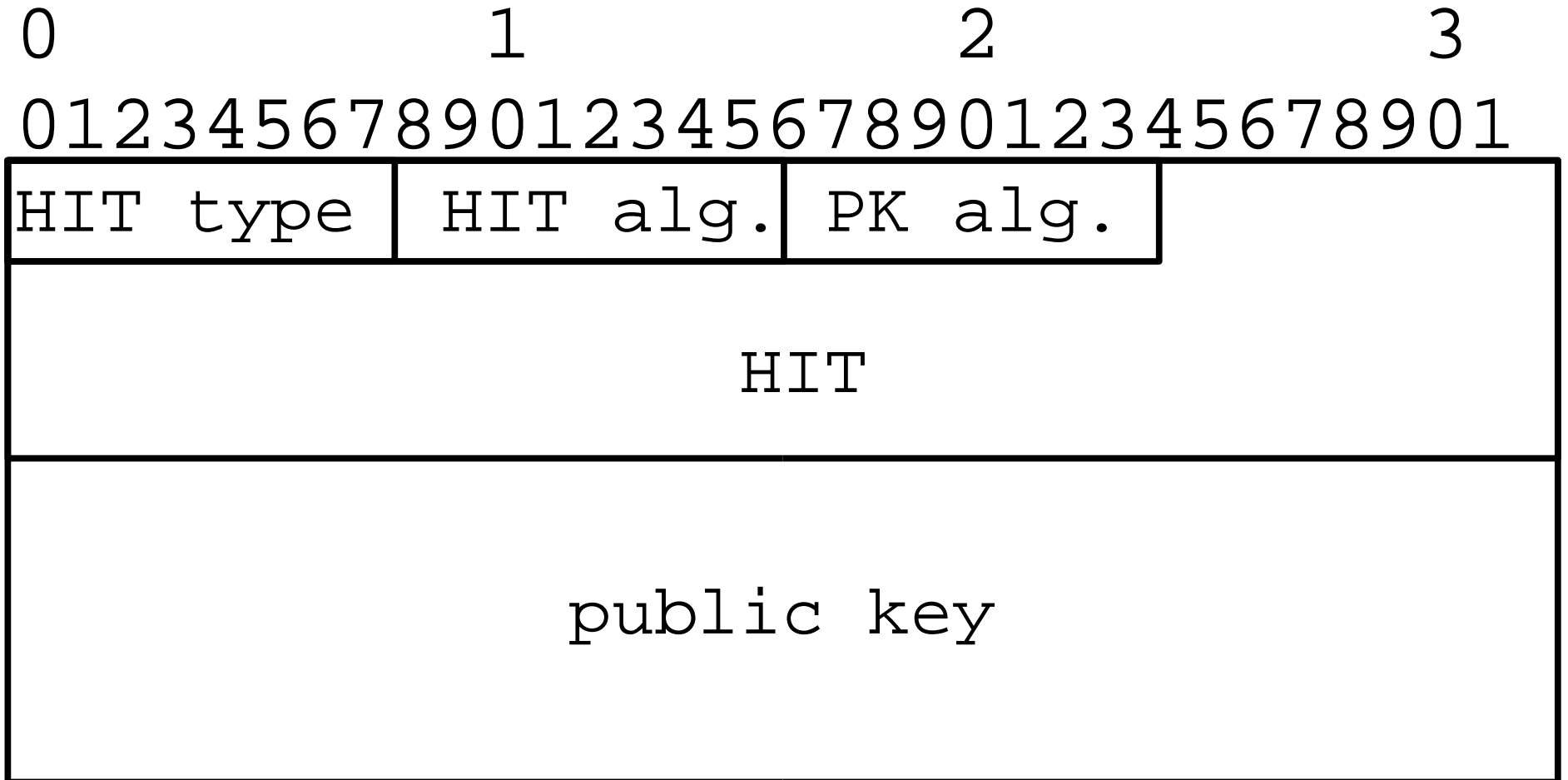
- Mentions that these RR as subject to threats of RFC3833 (Threat Analysis of the Domain Name System)

Next Steps

- Ready for WG Last Call?

Annex: HIP RRs

HIPHI RR



HIT type={1,2} HIT alg.={SHA1}
PK alg.={RSA,DSA}

HIPRVS RR

0 1 2 3
01234567890123456789012345678901

preference	type	
Rendezvous Server		
...		
Rendezvous Server		