

HIP Rendezvous Extensions

[draft-ietf-hip-rvs-03.txt](#)

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HIP Rendezvous Basics

- A HIP node might frequently change its IP address
- How to maintain reachability with new correspondents at its Rendezvous Server IP address

Rendezvous Extensions

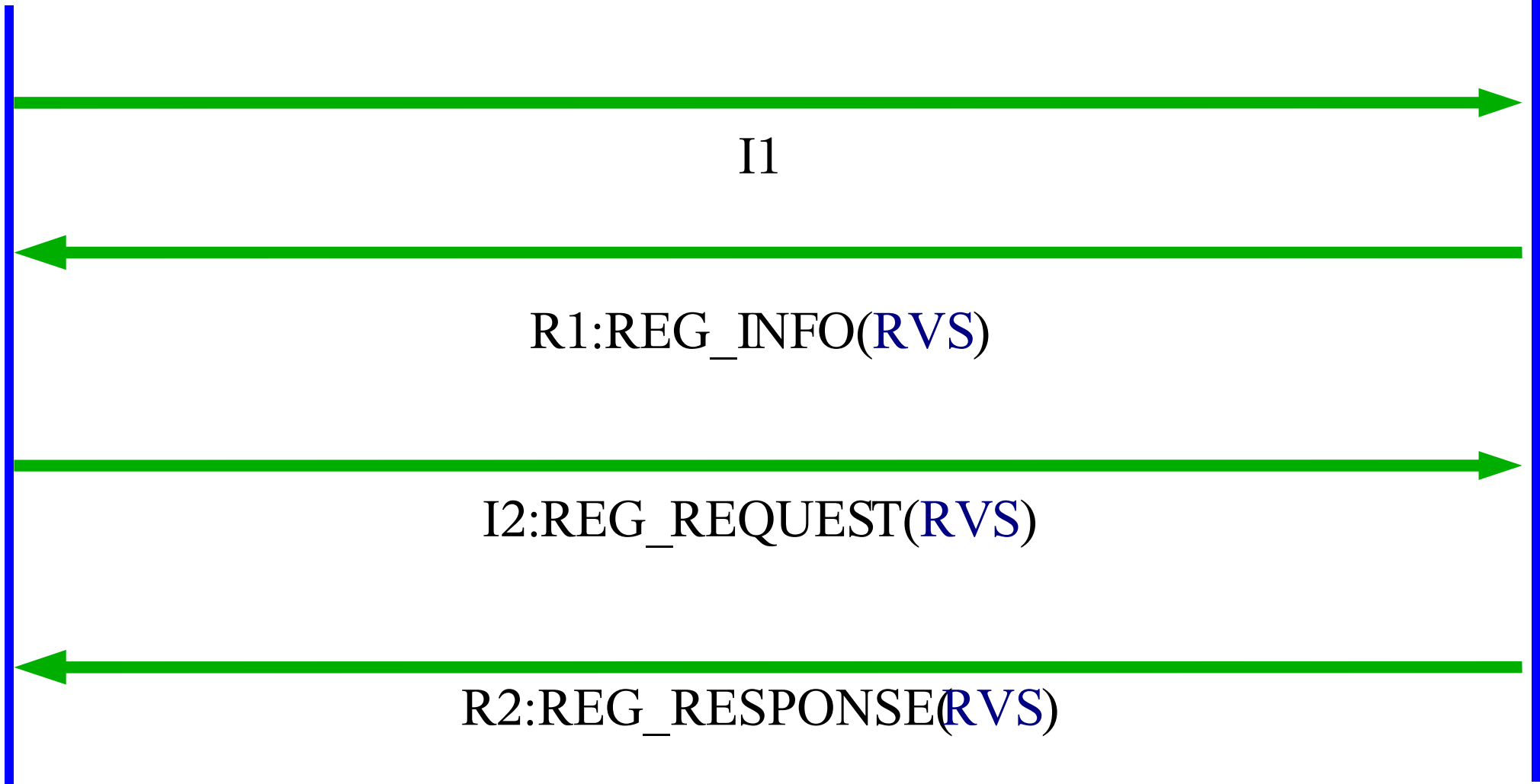
- Establish a Rendezvous Registration *with* a RVS
 - Relies on HIP Registration extensions
 - [I-D.koponen-hip-registration]
 - New HIP Registration Type: *RENDEZVOUS*
- Establish a HIP Association *via* a RVS
 - HIP Base Exchange extensions
 - New HIP Parameters:
 - *FROM* preserves original source IP address
 - *RVS_HMAC* protects I1 from RVS to responder
 - *VIA_RVS* signals the IP addresses of traversed RVSs

Rendezvous Registration

Protocol sketch

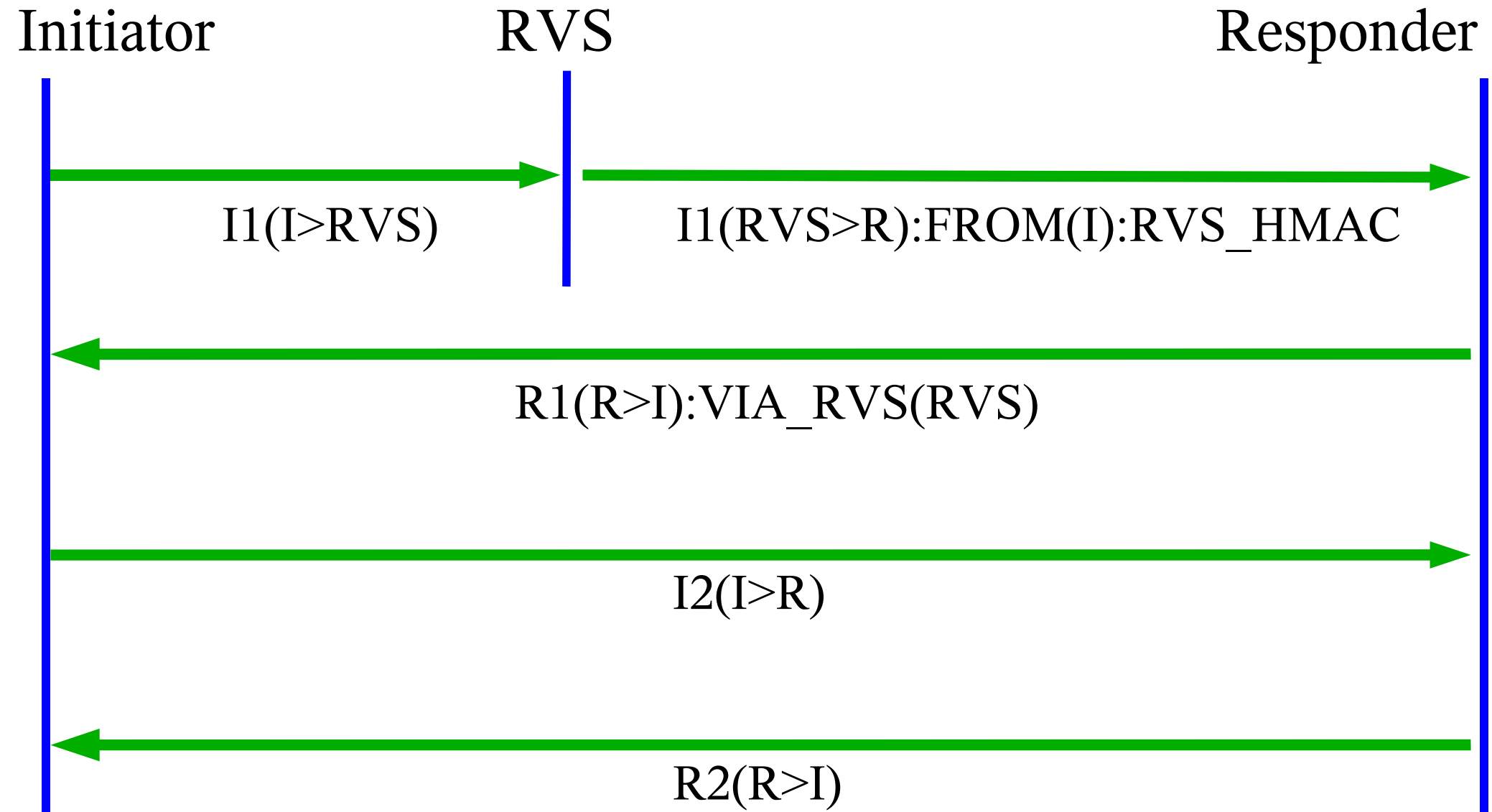
Requester

Registrar



RVS relaying I1

Protocol sketch



Changelog since -01

Editorial

- Rewritten introduction
 - Removed architectural considerations
 - Refer to [I-D.ietf-hip-arch]
- Parameters type code updated
 - Conformant with [I-D.ietf-hip-base]

Changelog since -01

Relaying of techniques

- Removed variations:
 - *I1_TUNNEL, I1_REWRITE, BIDIRECTIONAL*
- RVS rewrites I1 headers only
 - **SHOULD** rewrite I1 source IP address (egress filtering)
 - Then, **MUST** add to I1 *FROM* and *RVS_HMAC*

Changelog since -01

Constructing/Validating R1 when RVS is involved

- Removed dependency on [I-D.ietf-hip-mm]:
 - Removed text on *LOCATOR* usage in R1.
- Responder **MUST** add *VIA_RVS* to R1
- Initiator checks if it sent an I1 to the originator of R1
 - If addresses are compared, then I1 destination address **MUST** be compared with address in *VIA_RVS*

Appendix: Parameters Format

FROM

[illegible]

type	length
Address	

VIA_RVS

0	1	2	3
01234567890123456789012345678901			

type	length
Address	
...	
Address	