

SIP Identity using Media Path

draft-wing-sip-identity-media-00

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IPR Notice

- Cisco has claimed IPR on this technique

<http://www1.ietf.org/ietf/IPR/cisco-ipr-draft-wing-sip-identity-media-00.txt>

Motivation: SBCs Break SIP-Identity Signatures

- RFC4474 signs the SIP body
 - including SDP
- SBCs rewrite SDP (m=/c= lines)

Requirement

- Identity should survive rewriting of SDP

Result of SIP-Identity-Media

- Retain Domain Identity (rather than last Service Provider's identity)

SIP-Identity-Media

dwing@cisco.com

+14085255314@cisco.com

1234@cisco.com

SIP-Identity (RFC4474)

dwing%cisco.com@sp1.example.com

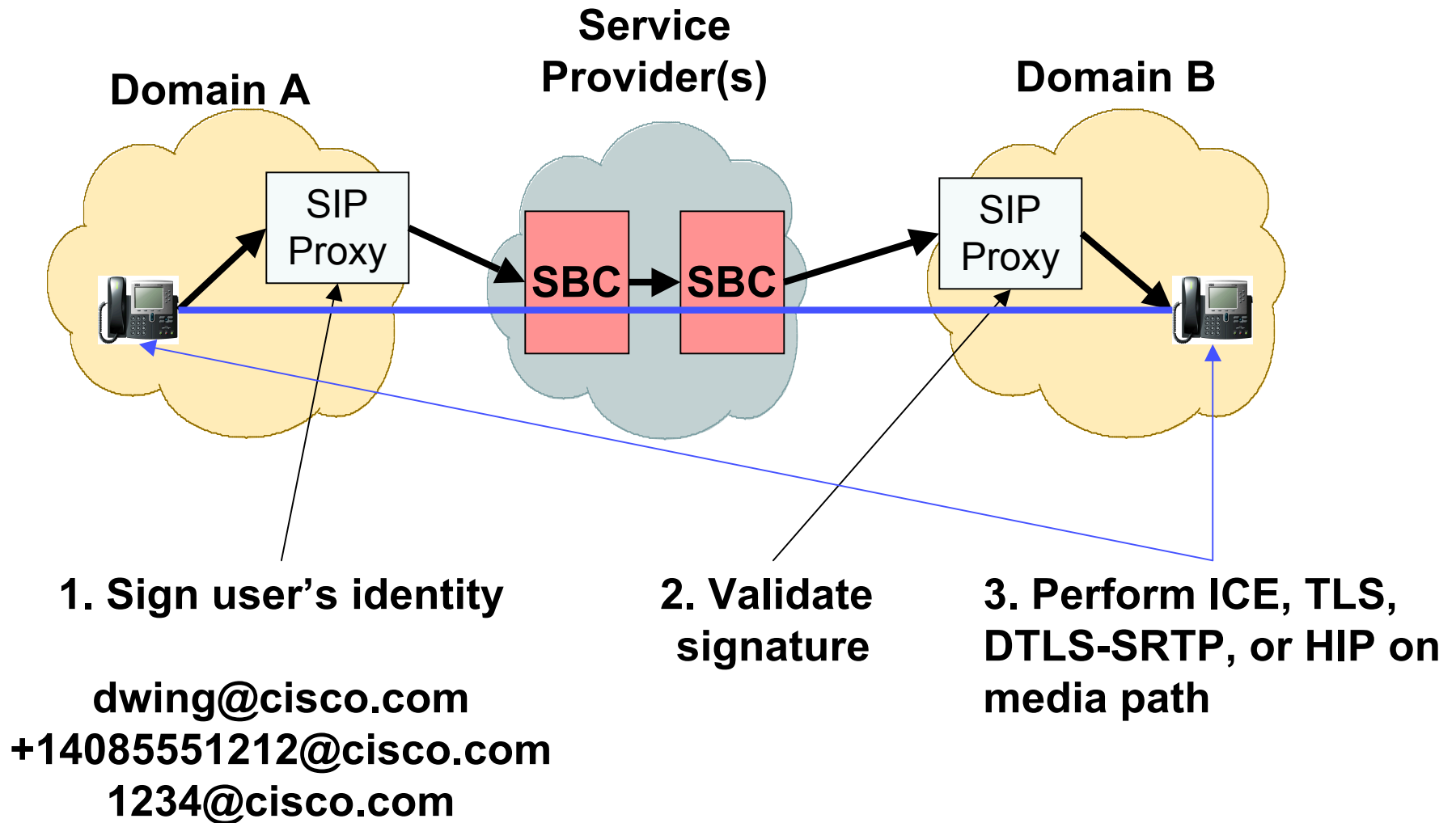
[+14085255314@sp1.example.net](#)

+14085255314@sp2.example.net

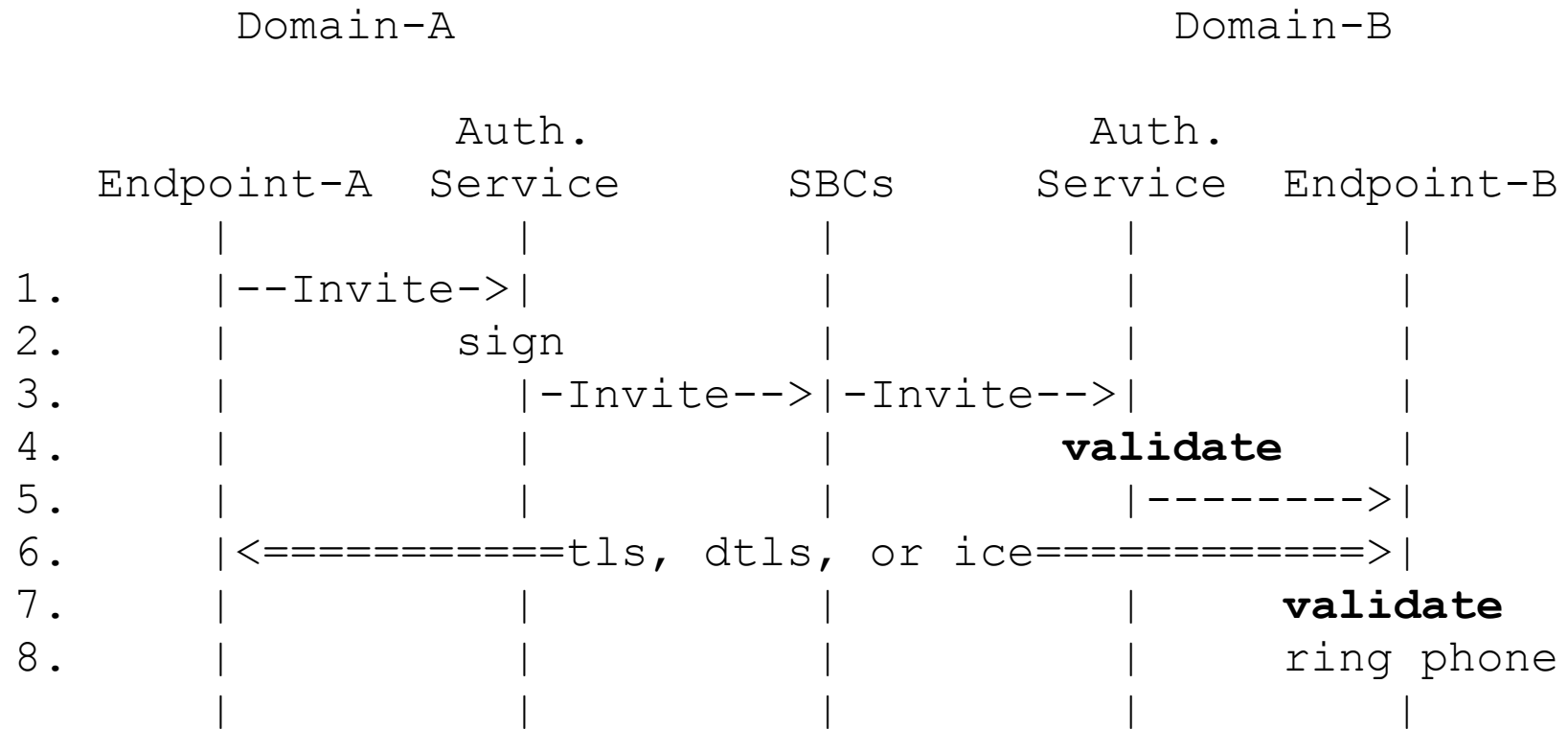
1234%cisco.com@sp1.example.net

- Works with SBCs that modify SDP

Diagram of Operation



Call Flow



Questions

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Backup Slides

Technical Differences from SIP-Identity (RFC4474)

- Replay protection requires running ICE (with extension), DTLS-SRTP, TLS, or HIP
 - On endpoint or domain-operated SBC
 - Firewalls or SBCs may block media path until '200 Ok'
- Avoids public key operations for intermediate domains (service providers)
- Endpoint does a public key operation
 - Might already be doing it (DTLS-SRTP, HIP)