

A Use Case for SIP Certificate Authentication

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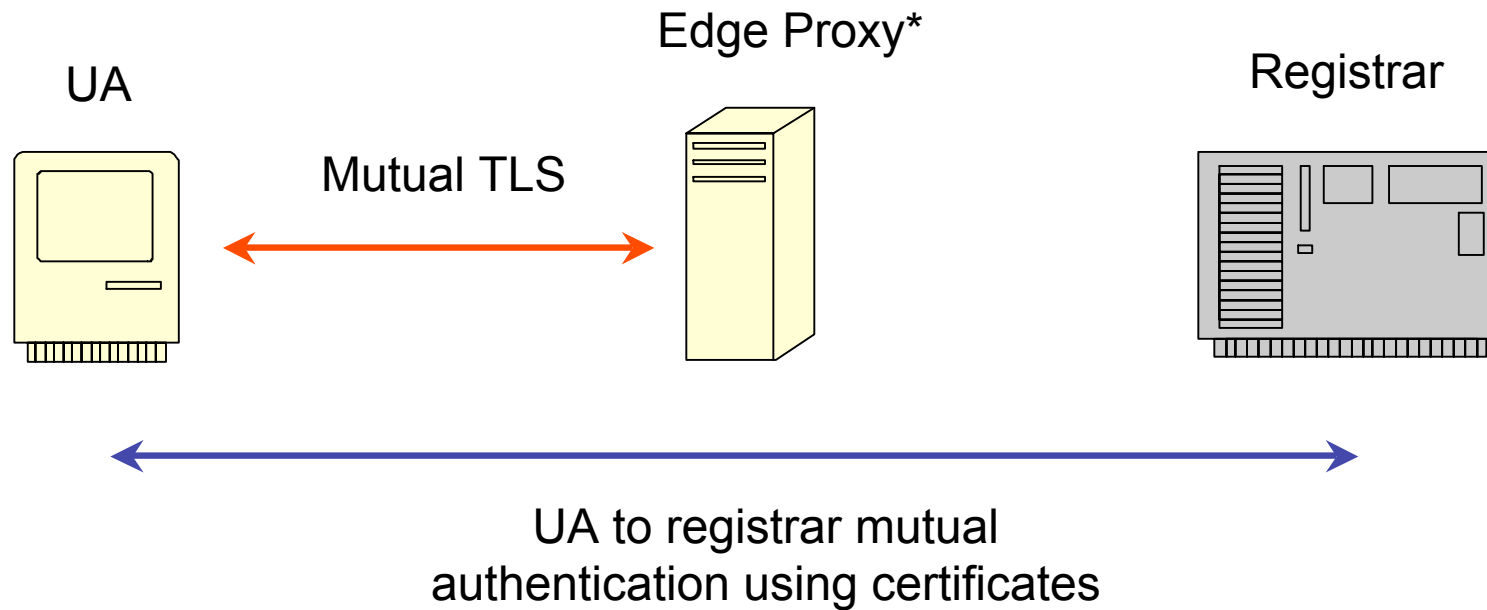
Introduction

- SIP today:
 - Allows SIP Digest from UA to registrar for authentication
 - Enhancements have been made for AKA (RFC 3310)
- What's missing?:
 - How do we use certificates to authenticate UAs across multiple proxies (e.g., during registration)?
 - Use Case in `draft-dotson-sip-certificate-auth-03`

Why?

- Certificates offer strong authentication credentials
- Can enable authentication without preconfiguration in the SIP network
- Existing and planned deployments rely on certificates
- Support from the community that the work should be done

Use Case for SIP Certificate Auth - Registration



*Edge proxy may or may not be in same trust domain as registrar

Requirements

- Some of the requirements in draft-dotson-sip-certificate-auth-03:
 - Define SIP-based mechanisms to enable certificate authentication between UA and registrar
 - Need procedures for messaging and certificate management
 - Ensure mechanisms operate in the presence of NATs, Firewalls and middleboxes
- Do we think this needs to be solved?
 - Preliminary feedback from WG members supports these requirements and use case
- Can a work item for cert-based authentication in SIP be considered as part of the WG to build common, interoperable implementations?