

Workload Identifier Scope Hint

`draft-rosomakho-tls-wimse-cert-hint-00`

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TLS
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mTLS is awesome

- For bots
- For workloads
- For certain proxies
- For OT/IoT

- But not for user facing web browsers

No easy way to enable mTLS

- Typically, separate TLS server endpoint is required

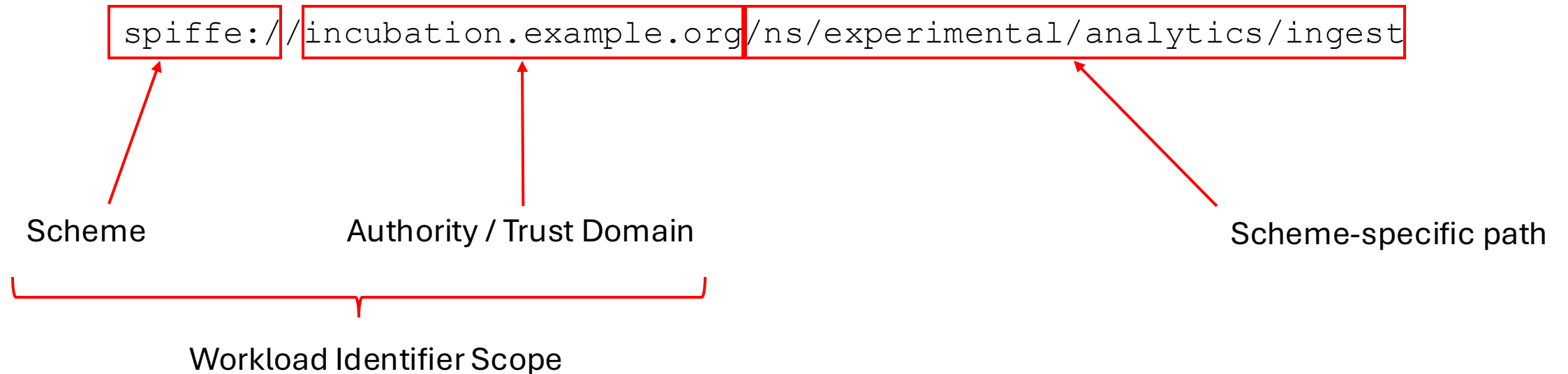
OpenAI Mutual TLS Beta Program

Updated: 26/03/2025

OpenAI Mutual TLS allows organizations to configure an additional layer of security for their OpenAI API traffic. Once configured, API requests should be made to <https://mtls.api.openai.com> (or <https://mtls-eu.api.openai.com> for EU Data Residency

WIMSE workload identifier

An absolute URI



The proposed TLS ClientHello extension

- Contains list of workload identifier scopes
- Presence of extension indicates that:
 - Client will not freak out from CertificateRequest
 - Client can provide a Certificate for any of listed workload identifier scopes
- Server may use the hint in other implementation-specific ways

But if my workload identifier scopes need privacy?

- Empty list is valid
 - With empty list this mechanism essentially becomes request mTLS flag
- ECH is a privacy friend
- Approaches could be combined
 - Empty list in Outer ClientHello
 - List of Workload Identifier Scopes in Inner ClientHello

Thank you!

Is this something of interest for the working group?