
WIMSE Architecture

(draft-ietf-wimse-arch-02)

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Overview

Changes since Last IETF

- Update to Identity and Trust Domain
- Expanded Use Cases:
 - Impersonation
 - Batch Processing

Next Steps

Workload Identity

Composed of

- Trust Domain
- Workload Identifier
- Workload Identity Credentials

* Bootstrapping identity as well, but this section has not changed much

Trust Domain

- A trust domain is a logical grouping of systems that share a common set of security controls and policies.
 - Trust domains **SHOULD** be identified by a fully qualified domain name
 - A trust domain maps to one or more trust anchors for validating X.509 certificates and a mechanism to securely obtain a JWK Set [[RFC7517](#)] for validating WIMSE WIT tokens
 - If two identifiers differ only by trust domain they still refer to two different entities.
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Workload Identifier

scheme://*trust-domain*/*path*

URI from RFC 5280

- Trust domain as IP address is discouraged
- Path defined by scheme and deployment
- X.509 URI SAN
- WIT 'sub' claim

- SPIFFE SVIDs are valid workload identifiers
 - Scheme = spiffe
 - Should we define a *wimse* scheme?
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Workload Identity Credentials

- X.509
 - WIT (S2S work)
 - What about identity jwts (bearer)?
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Workload Identity Definition in Multiple Documents

Currently in both S2S and Arch Spec

**Can we remove from S2S
and reference Arch
Document?**

Expanded Use Cases

New Text for

- Impersonation & Delegation
- Asynchronous and Batch Processing

* Thanks to Ken McCracken

Next steps

1. **Terminology & Alignment with other WIMSE Documents** (Many Open Issues)
 2. **Threat Model**
 3. **Authorization & Context** (Integration with Transaction Tokens)
 4. **Cross Domain**
 5. **Expanded use cases** (Impersonation, Async, etc)
 6. **Attestation & Bootstrapping**
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PRs and Discussion are Welcome

Interim(s)?
