

06 November 2023

# Supply Chain Integrity, Transparency, and Trust (SCITT)

This session is being recorded

# Agenda

- |  |               |
|--|---------------|
| ● Welcome and Introduction (5 min):              | Chairs        |
| ● Why SCITT is COOL (5 mins):                    | Henk Birkholz |
| ● Recap since 117 (5 mins):                      | Henk Birkholz |
| ● Registration Policies (15 mins):               | Jon/Cedric    |
| ● API & Receipt Updates (15 mins):               | Orie Steele   |
| ● Hackathon Report (15 min):                     | Jon           |
| ● Next Steps and WG operations for 119 (15 min): | Chairs        |
| ● AOB Open Mic (20 min – BE CONCISE!):           | All           |
| ● Wrap-up and Conclusion (5 min):                | Chairs        |

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- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)

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# IETF-118 Links

- Agenda

<https://datatracker.ietf.org/meeting/agenda>

- Meetecho and other information

<https://www.ietf.org/how/meetings/preparation>

- If you need technical assistance, see the Reporting Issues page:

<https://www.ietf.org/how/meetings/issues/>

# Any Volunteers?



# HedgeDoc

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# Why is SCITT Cool

Henk Birkholz

# Why is SCITT Cool

**It's a simple and scalable authenticity layer for  
endorsement** **ing along supply**



# Why is SCITT Cool (some more detail)

One compact (CBOR), well-profiled (CDDL) signing mechanism (COSE) that enables:

1. a thin, minimalistic authenticity layer wrapped around your supply chain statements
2. registration (aka notarization) of your supply chain statements for later audits after the fact
3. off-line verifiable receipts that prove you are honest about being transparent with your product statements (and under which conditions these statement were made transparent)

# Recap Since 117

Henk Birkholz

# Architecture Updates

- [PR #94: Signed Statement Issuance, Registration](#)
- [PR #95: BCP 14 rules for SHOULD/SHOULD NOT](#)
- [PR #105: Cleanup of remaining references to Claims](#)
- [PR #107: Clarification of Feed purpose and differentiate from reg\\_info](#)
- [PR #108: Use CWT Claims in Headers](#)
- [PR #113: Proposal to rephrase the Reg\\_Info definition](#)
- [PR #114: Rename Feed to Subject](#)
- [PR # 119: Clarify Consumer/Verifier Terminology](#)



- [Detailed Software Supply Chain Uses Cases for SCITT](#)
- [PR #4: Add Versioning Use Case](#)
- Use Case: WGLC still on this week
  - Feedback via [scitt@ietf.org](mailto:scitt@ietf.org)

# Registration Policies

Jon Geater

Cedric Fournet



Registration Policy *"is a simple set of rules evaluated by the Transparency Service to determine admissibility of a Statement"*

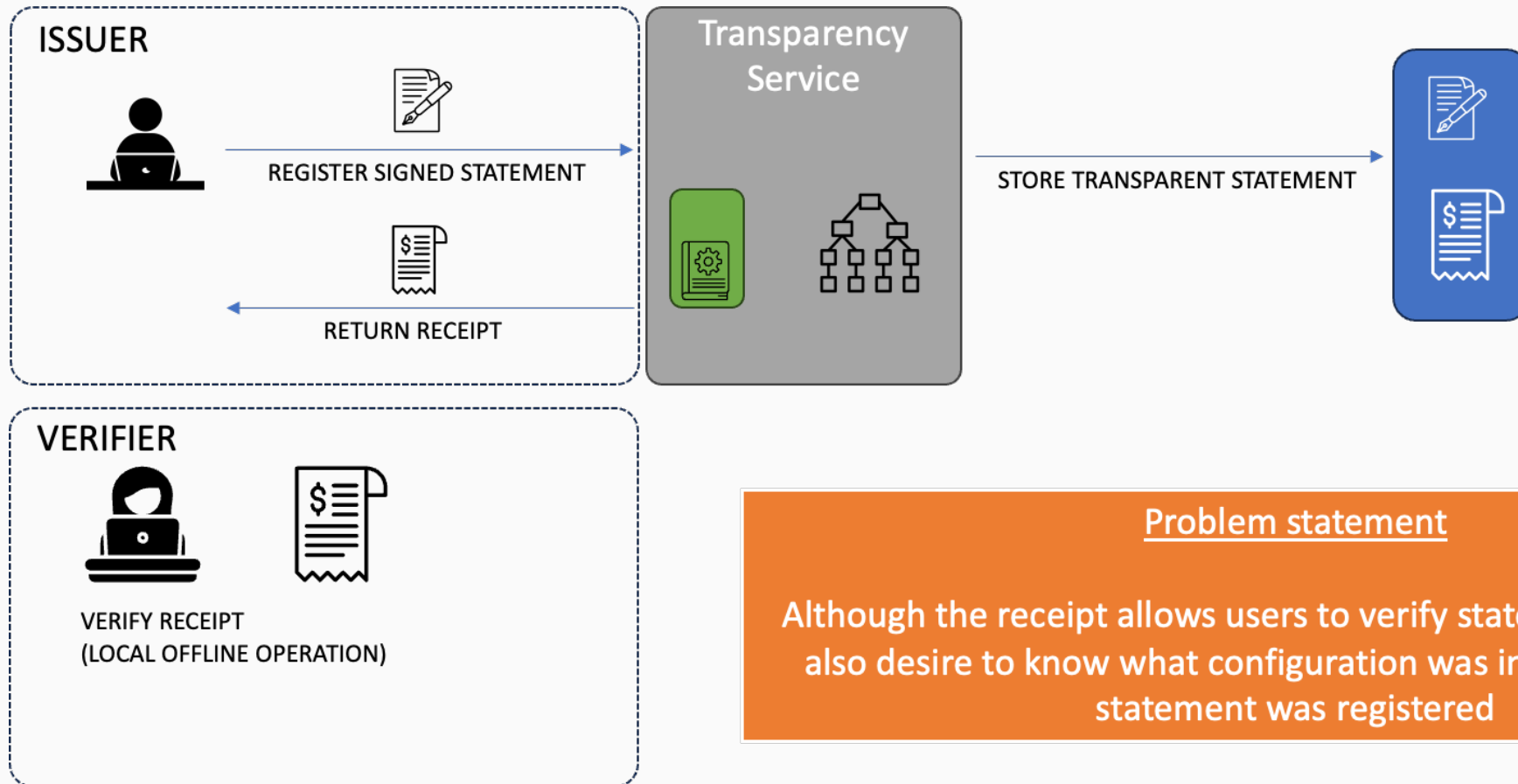
# Assumed Requirements

- We need to stay payload-agnostic and interoperable
- We cannot predict all use cases or data inputs, so while some defined conventions are a good idea, the structures must be extensible
- General access control concerns:
  - API implementation concerns
  - Anti-spamming
  - Mandatory identification of statement issuers  
(note protocol clients and message-based signing + DID are *not the same*)
- Specific Statement registration concerns:
  - The owner of a Feed (now original Issuer of a Subject) should be able to limit which other Issuers can write to that feed
  - Where Statements are related to each other or to the real world in ways that the Issuer or Client cannot reasonably know or evaluate, the Transparency Service should be able to decide to reject the Statement
  - Verifiers can see what Registration Policy was in force when a Transparent Statement was created

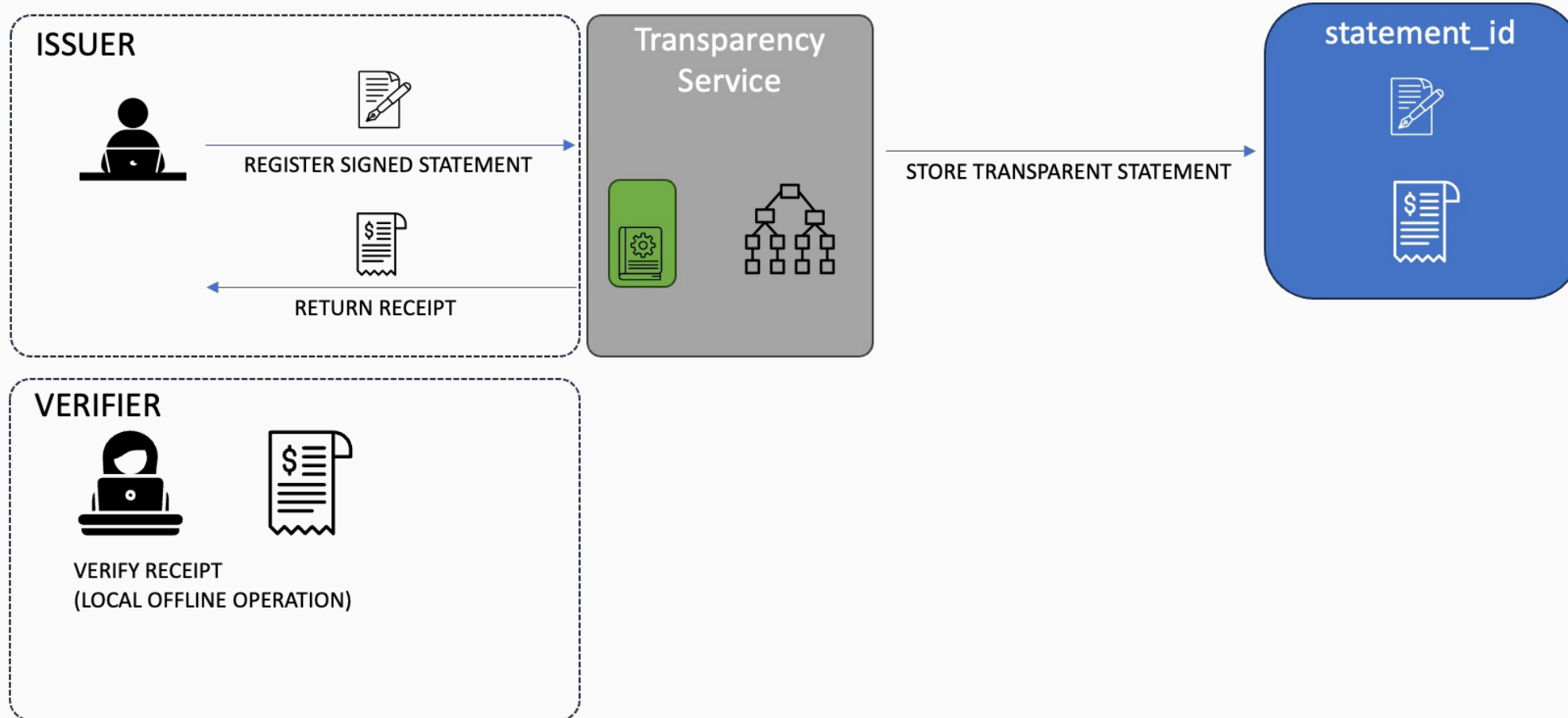
# Direction of Travel

- Observing recent progress there's an opportunity for Registration Policies to be worked out between now and -119
- Splitting the concerns signposts a route towards progress one-bite-at-a-time
  - Very specific Registration Policy concepts: Protocol elements sufficient to enable the signaling from the Issuer to the Transparency Service for semantic evaluation of Statement admissibility  
(but ONLY syntactic interoperability, not semantic inference, Transparency Service operation or specific policy languages)
  - Protocol elements and architecture guidance sufficient to enable simple front-edge access control for identification of protocol clients and anti-spamming, etc.  
(This may obviate itself through development of SCRAPI??)

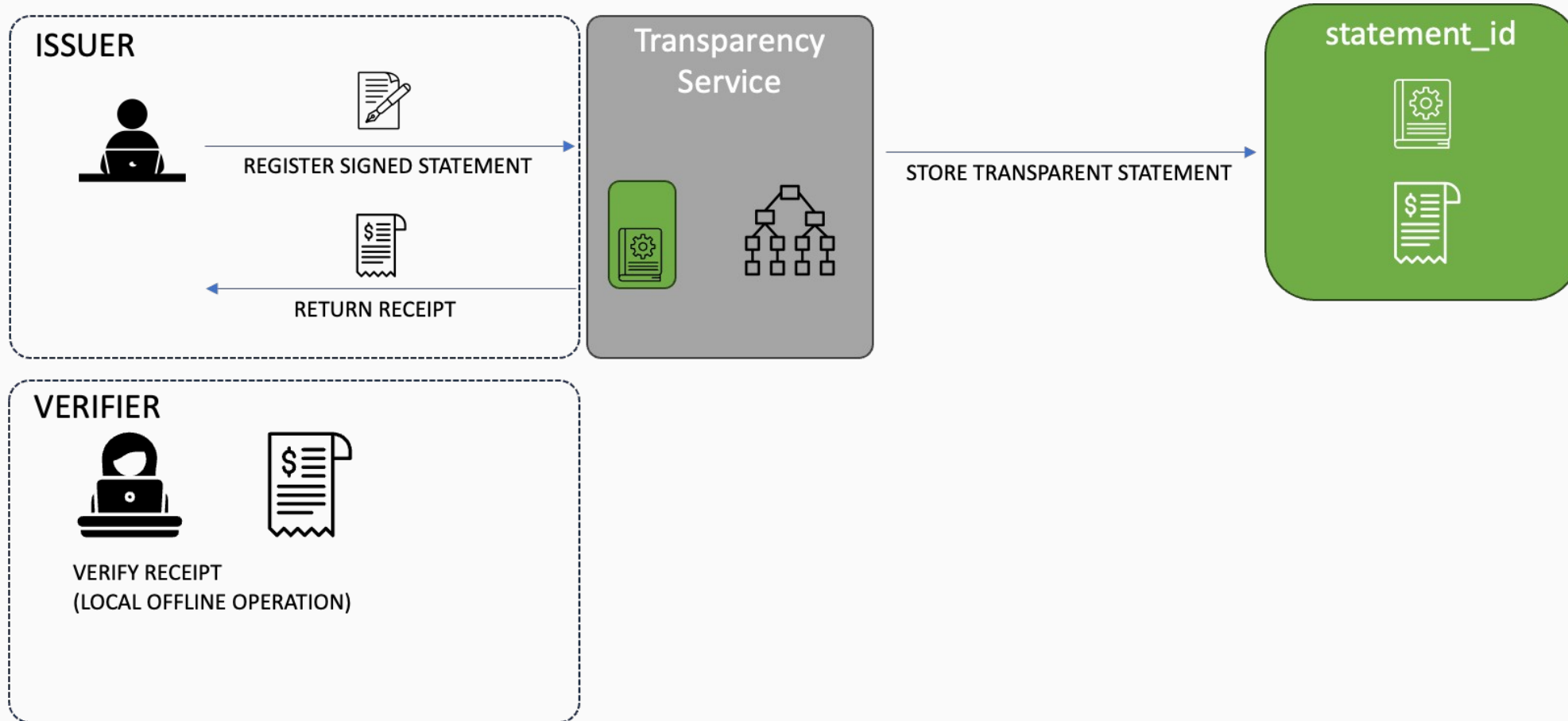
# Challenge from the Hackathon



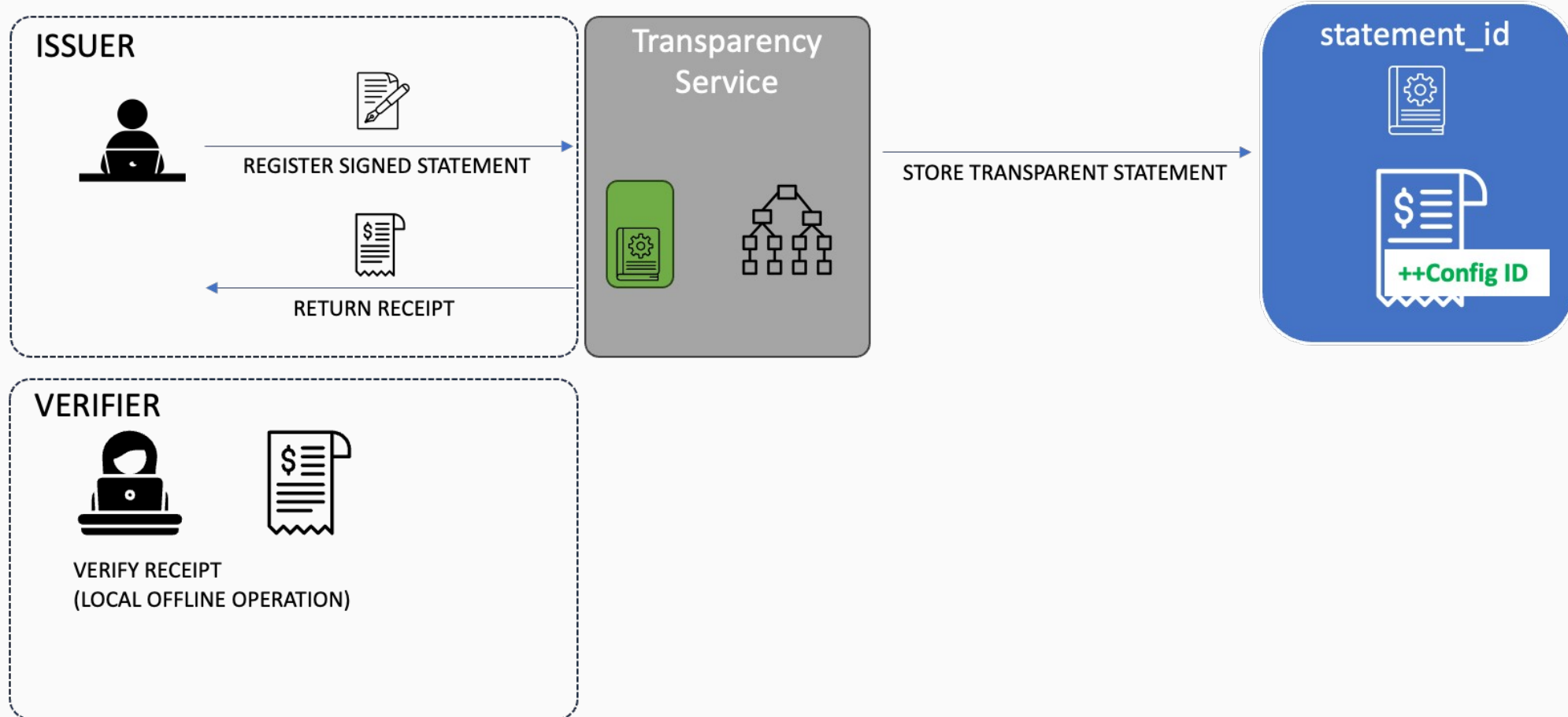
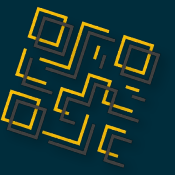
# Response part 1: Each Transparent Statement gets an ID



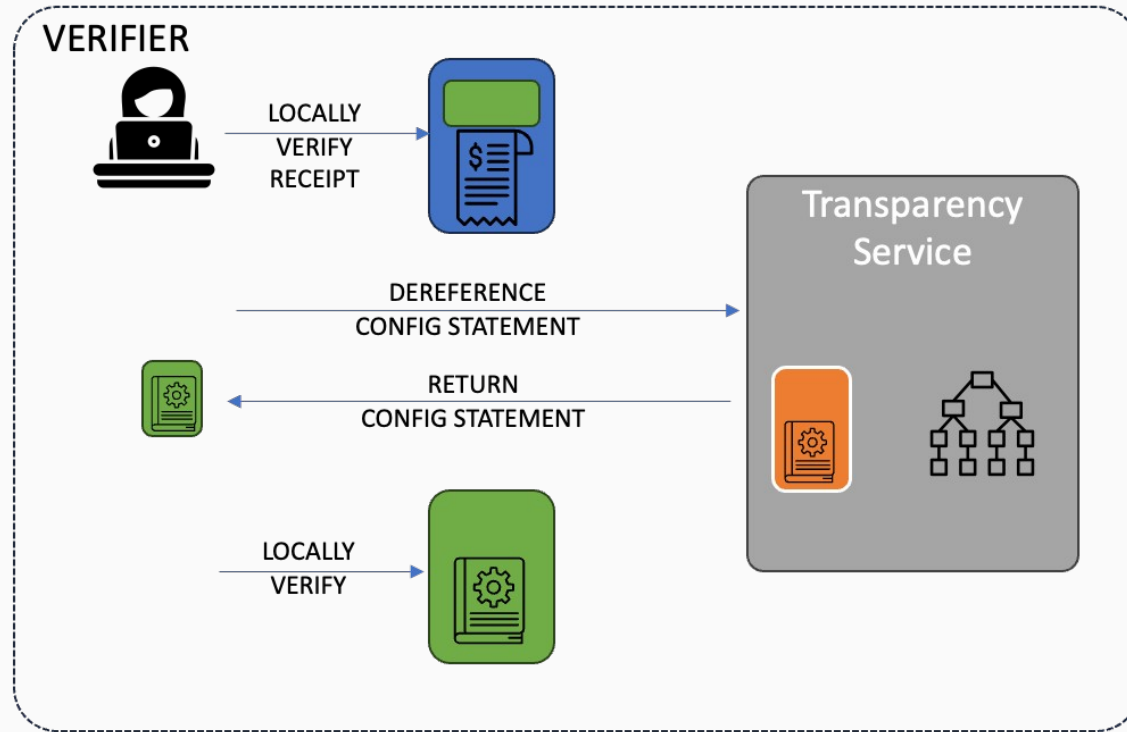
# Response part 2: Store Config Changes as Transparent Statements



# Response part 3: Embed ID Pointing To Config in Every Receipt



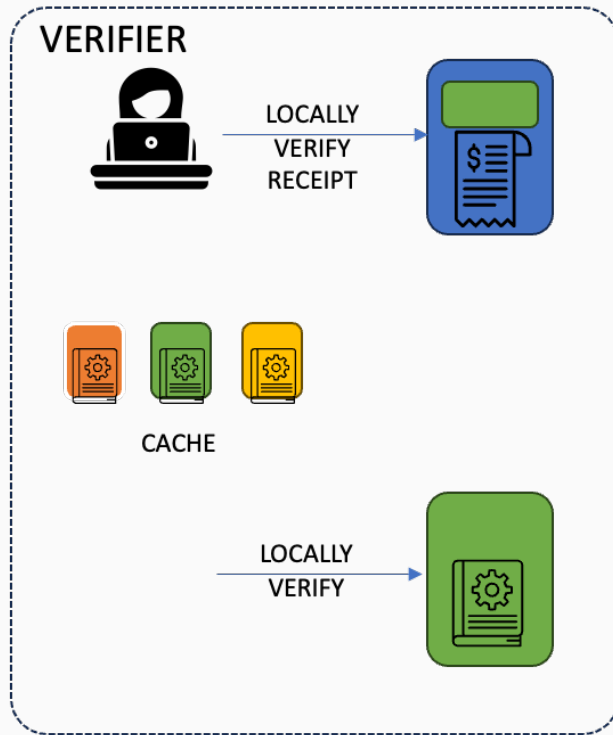
# Response part 4: If in Doubt, Verify Both!

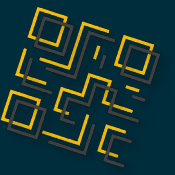


# Response part 4A: Caching (And Other Techniques) Possible



Procession of Statements and their corresponding Receipts





- Great news! Reduce and simplify!
  - Drinking our own champagne is very satisfying.  
Proves that the SCITT structures are useful!
  - Increases overall system discoverability and transparency
  - Removes bulk and complexity from the architecture doc
- One big open question over the integrity of the Statement ID
  - Do we need to trust Transparency Service to return the correct ID?  
Looking for ways to improve the integrity of this process.

# Other Open Questions / Work to Be Done

- Is 'Registration Policy' the right name anymore? Is 'configuration' better?
- Does this meet our need for application profiles?
  - Propose a couple of informative conventions for known common policies, see how it develops
- Example Registration Policies: SVN, issuer identification, etc need to be added to the architecture.
  - Make sure we have clear use cases and people understand the value. Push for common use cases. Can be refined later.
- Control and updates to the Registration Policy.
  - Deliberately left Transparency Service specific for now—recording Registration Policy and its updates as Transparent Statements with unique IDs is a big step forward on its own.
- The content of a Registration Policy is (mostly) opaque to the SCITT layer: i.e., it is Transparency Service specific.
  - Can be refined later, but it's a huge piece of work and does not need to stall the progress the group has made with the other changes.

# CBOR API

Orie Steele

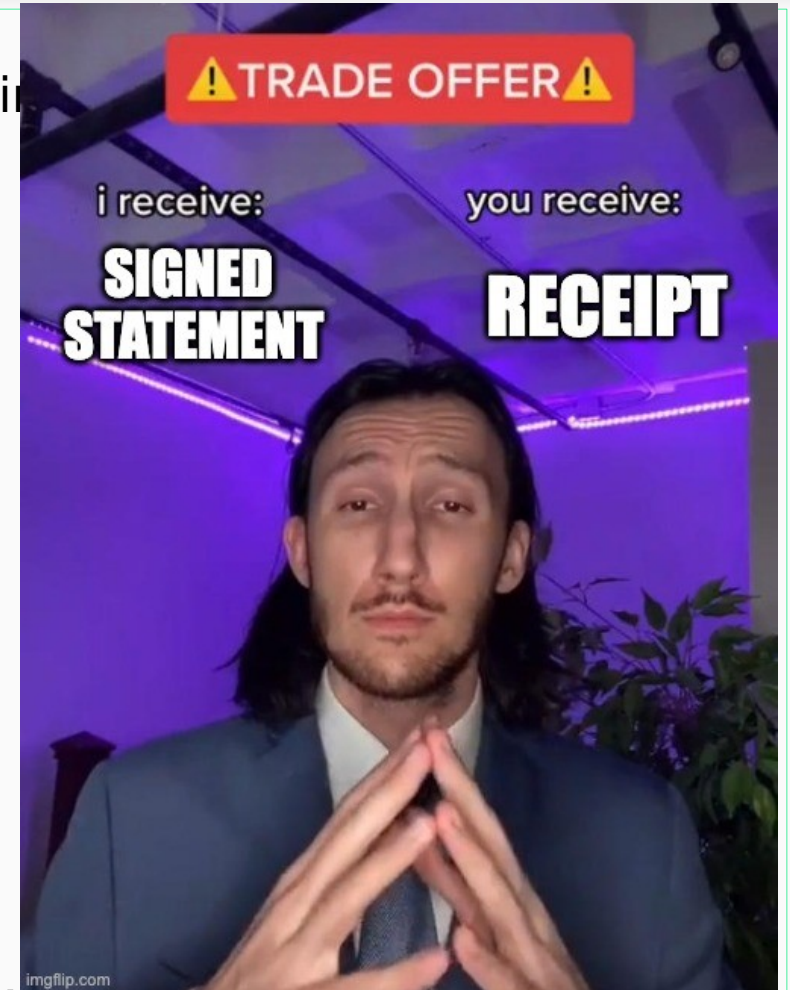
# High Level Pseudo-CBOR API

**statement** = a file or artifact that is relevant to a supply chain

```
signed statement = issue(  
  statement,  
  issuer claims,  
  issuer signing key  
)
```

```
receipt = registration(  
  signed statement,  
  registration policy,  
  transparency log,  
  notary claims,  
  notary signing key  
)
```

**transparent statement** = **signed statement** with a **receipt**



# Signed Statement Protected Header

```
{
  1: -35,           / Signature Algorithm      /
  3: application/json, / Content type          /
  4: h'75726e3a...4b755a59', / Key identifier        /
  TBD 0: {          / CWT Claims            /
    1: software.vendor, / Issuer                /
    2: product.version, / Subject                /
  },
  393: {            / Registration Info      /
    TBD 1: 74635    / Secure Version Number  /
  },
  33: [            / X.509 Certificate Chain /
    h'308201b4...b4e9b233', / X.509 Certificate      /
    h'308201bf...4eb5f42d', / X.509 Certificate      /
  ]
}
```

# Transparent Statement

```
18(                                     / COSE Sign 1      /
  [
    h'a4012603...6d706c65',          / Protected        /
    {                                / Unprotected        /
      -333: [                          / Receipts (1)      /
        h'd284586c...8f1ff150'       / Receipt 1        /
      ]
    },
    nil,                             / Detached payload  /
    h'bcbb3bfe...9fc99291'           / Signature        /
  ]
)
```

# Receipt

```
18(  
  [  
    h'a4012604...6d706c65',      / Protected      /  
    {  
      -222: {                      / Proofs          /  
        -1: [  
          h'83080783...32568964', / Inclusion proofs (1) /  
          / Inclusion proof 1      /  
        ]  
      },  
    },  
    nil,                          / Detached payload /  
    h'9621ab96...8f1ff150'       / Signature       /  
  ]  
)
```

# Receipt Protected Header

```
{
  1: -35,                / Signature Algorithm      /
  4: h'75726e3a...4b755a59', / Key identifier      /
  TBD 0: 1                / RFC9162 Transparency Log. /
  TBD 1: {                / CWT Claims          /
    1: transparency.service, / Issuer              /
    2: registration event id, / Subject             /
  },
}
```

# REST API

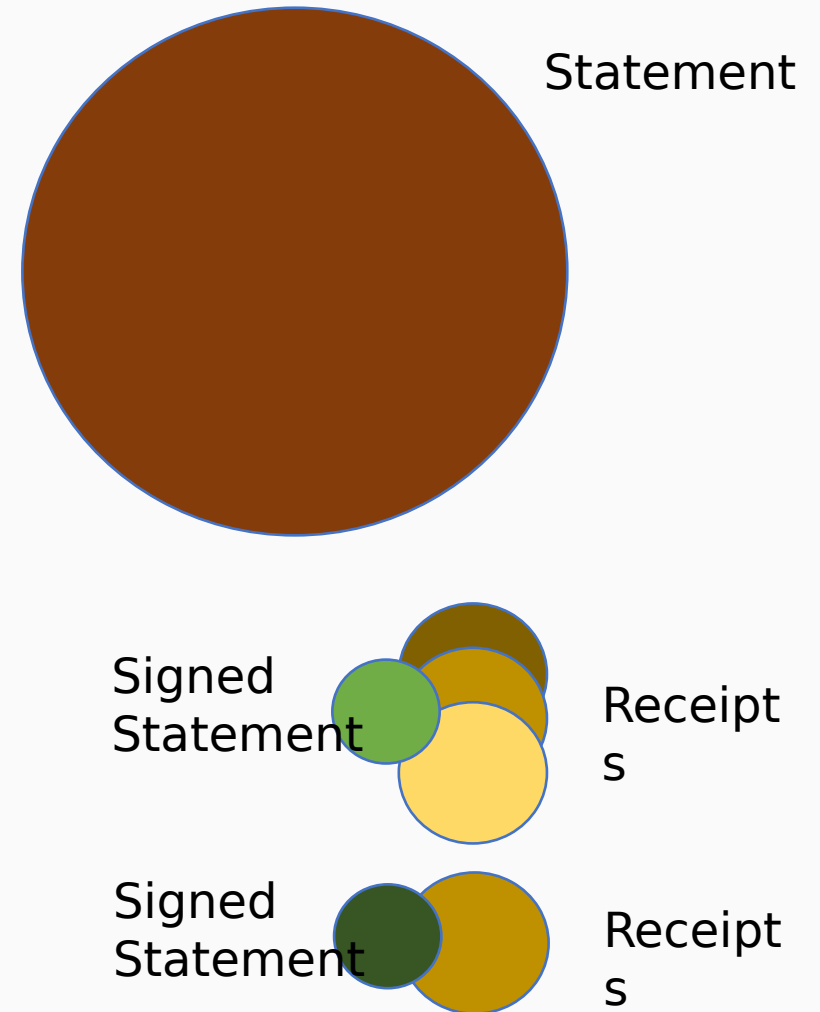
Orie Steele

# High Level API

```
curl -X POST https://... /statements  
-H "Authorization: Bearer ..."  
-F "@path/to/local/statement.xml"  
-F "@path/to/local/signed-statement.cbor"
```

```
curl -X GET https://... /receipts/urn:uuid:3cb97c51-....-  
f61b260f245d  
-H "Authorization: Bearer ..."  
-O -J # receipt.cbor
```

```
scitt up-transparency  
.../statement.xml  
  
.../signed-statement.cbor  
.../receipt.cbor  
.../transparent.cbor
```



# Subscribe for Receipts About a Topic

## *Subscribe to a feed*

`https://... /receipts`

`https://... /receipts/urn:uuid:3cb97c51-...-f61b260f245d`

`https://... /product/.../suppliers`

`https://... /product/.../ingredients`

`https://... /product/.../ingredients/456/lab-test-results`

`https://... /product/.../origin-certificates`

# Consuming Upstream Feeds

Supplier 1



<https://supplier1.example/products/gtin/00611628927558>

- Where are they grown?
- Organic or GMO?
- Ethical Labour/ Sustainable Agriculture Certifications?

Supplier 2



<https://supplier2.example/products/gtin/0076808516135>

- What kind of wheat?
- Where was the wheat grown?
- Where were the noodles made?

Supplier 1



<https://supplier1.example/products/gtin/00611628950426>

- Where are they grown?
- How long since they were harvested?
- Allergy details?

# Producing a Downstream Feed



<https://.../products/gtin/0024739160217>

<https://.../products/gtin/0024739160217/suppliers>

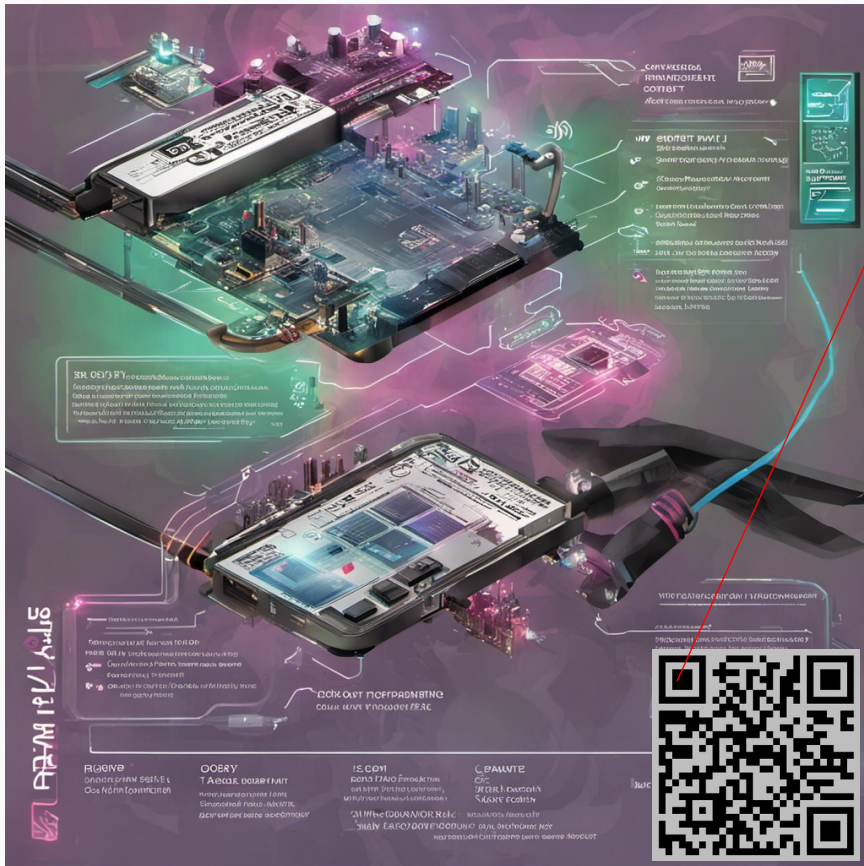
- Which suppliers contribute to this product?
- Have the certifications for any of these suppliers expired recently?
- Has supplier authentication or identity information change recently?



<https://.../products/gtin/0051000038852/ingredients>

- Have any of these ingredients recently been recalled?
- Are these ingredients from a region that is experiencing natural disasters or political disruptions?

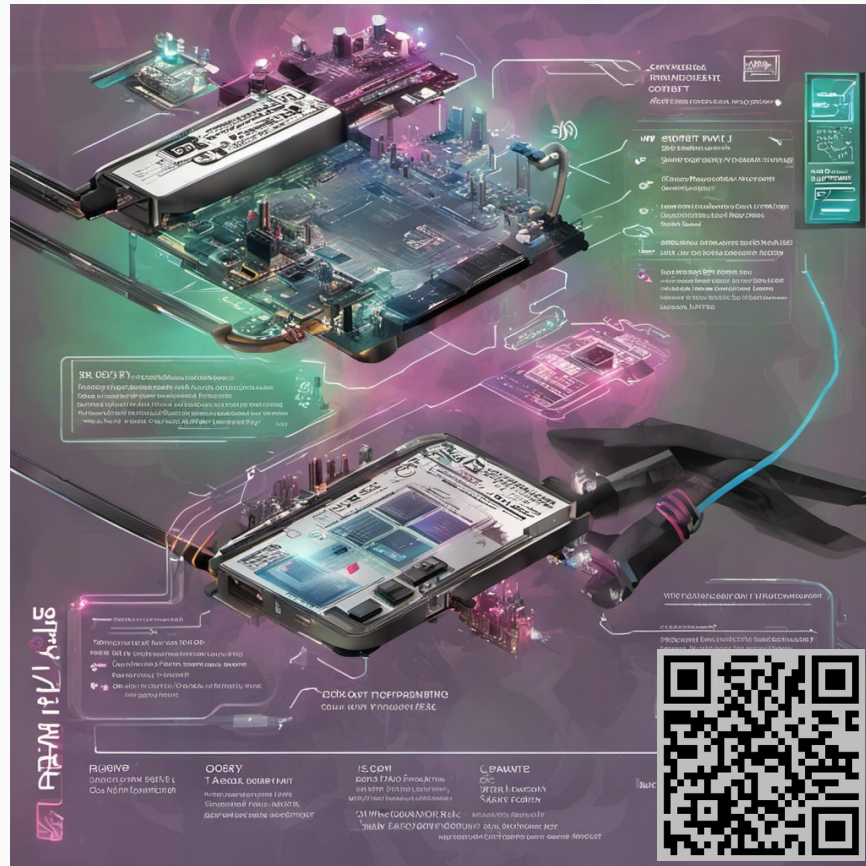
# Using Feeds to Make Trust Decisions



<https://vendor.example/products/LDevID/000bd910...27acc9f9478ac>

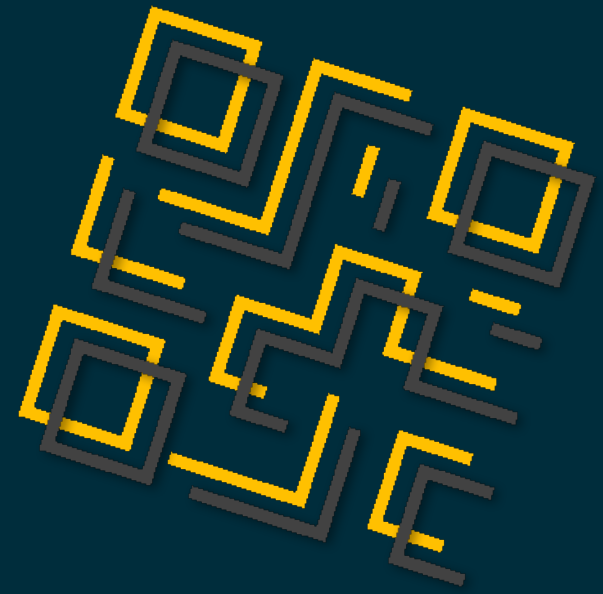
- Has the device been certified?
- Have there been any vulnerabilities reported for this device identity, since the product was packaged and shipped?
- Has the regulatory landscape changed, is the product still considered safe to operate?
- Has the product been recalled?
- Is there an upgrade oath for the installed firmware?
- Is the device still supported?
- Are there any unpatched CVEs?

# Using Feeds to Make Trust Decisions



## Wabbit Networks: Net Monitor V1

1. SPDX SBOM
2. CycloneDX SBOM
3. SLSA
4. VEX
5. Vendor Response File
6. VEX (Update)
7. Revocation/Alert
8. New Version Available
9. End of Life Date (EOL)



# Hackathon Report

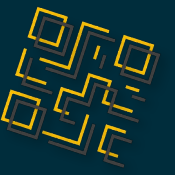
Jon Geater



# Experience from the Hackathon

Jon Geater





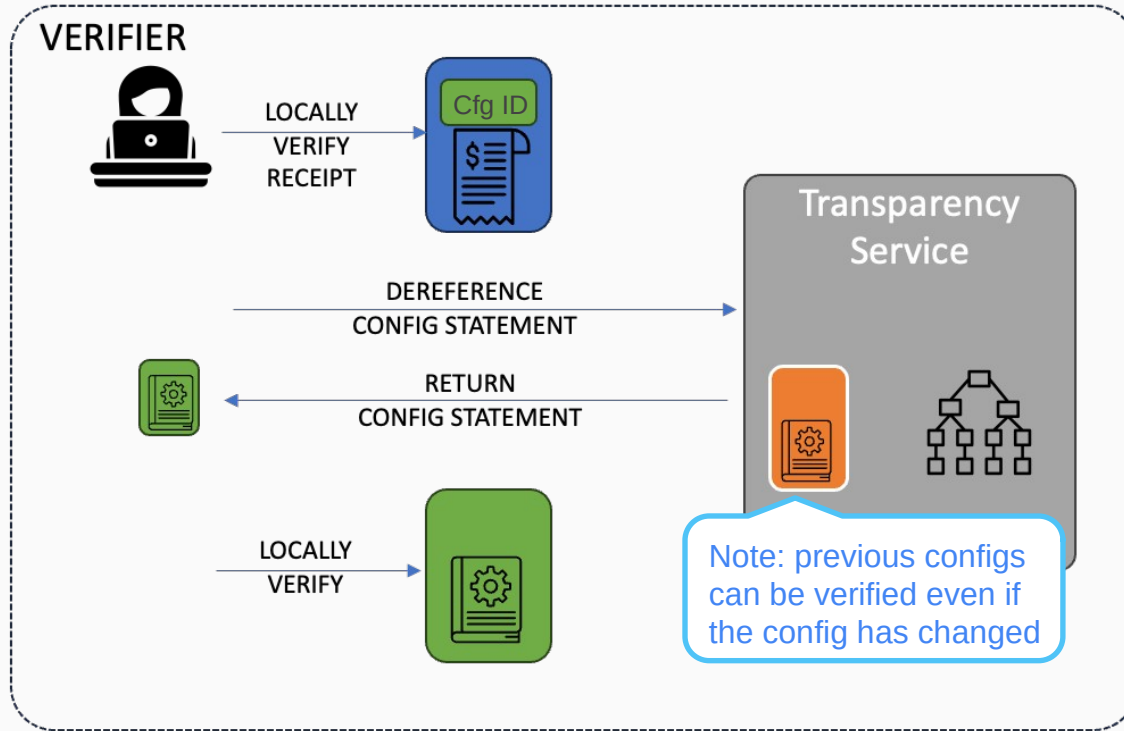
- Strong participation
  - Full table with folks from other groups coming and going
- Much more spec focused than code focused



# Spec Progress



Procession of Statements and their corresponding Receipts



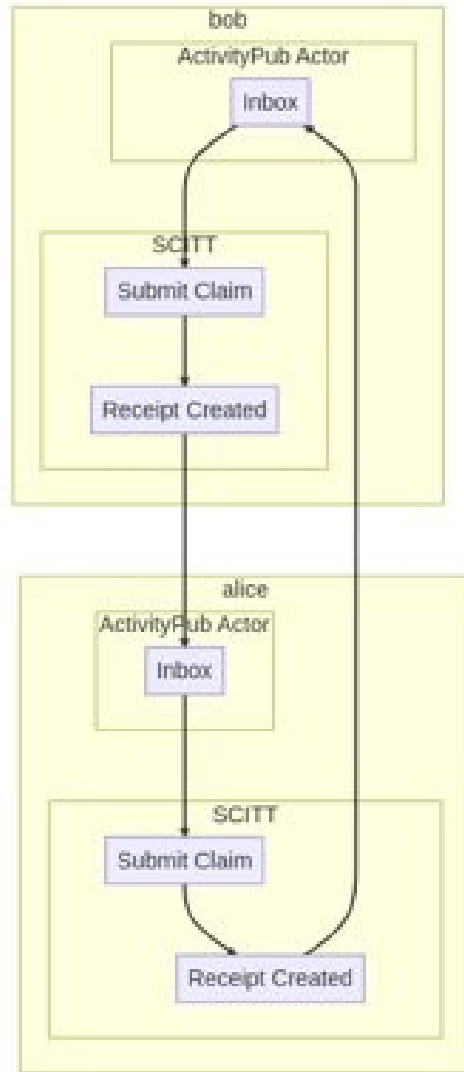
- Registration Policies
- Eliminated a complex area and replaced with usage of the existing structures!
- Open questions remain but overall great progress



<https://github.com/scitt-community/scitt-api-emulator>

<https://github.com/scitt-community/scitt-examples>

- A bit fragmented and distracted by intense discussions on Registration Policies. The good news is a lot of topics have been touched. The trade-off is that ~~nothing quite got finished~~.
  - Furthered work on federation
  - Furthered work on API access control
  - Proved out DID resolution and verification
  - RKVST implementation eliminated need for translation proxy
  - Begun collecting illustrative examples to help know when the building blocks satisfy the use cases



## ● Federation is

- service-to-service communication of Transparency Service events

## ● Claims registered in federating Transparency Services

- Trigger a submission attempt within receiving services
- Evaluate to target TS registration policy to determine applicability of receipt creation

# Federation Hackathon POC Demo



```
m4', 'preferredUsername': 'alice', 'publicKey': 'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU#serverKey', 'type': 'Person'}, 'to': ['https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU'], 'type': 'Follow'
[2023-11-06 07:00:29 +0100] [27977] [INFO] 127.0.0.1:52878 POST /endpoints/cW68mGw5CJC8mzCdIix2iUc4GbPJUGXD38dJQH-48 1.1 200 1182 404779
Message 5 in outbox: {'@context': 'about:bovine', 'actor': {'id': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo', 'inbox': 'https://scitt.bob.chadig.com/endpoints/ScZVV5F0jQWoF21VudGIjvAX10Y-5-2B50XUFCN8ZDI', 'name': 'bob', 'outbox': 'https://scitt.bob.chadig.com/endpoints/hsJ3DK0ILN4_K-dKeMz_rYG0l1A4_MhelTZsMCF2aeg', 'preferredUsername': 'bob', 'publicKey': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo#serverKey', 'type': 'Person'}, 'id': 'https://scitt.bob.chadig.com/objects/d7fc219a-85de-49be-a0b.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo', 'type': 'Follow'}, 'to': ['https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU'], 'type': 'Accept'}
[2023-11-06 07:00:30 +0100] [27977] [INFO] 127.0.0.1:52878 POST /endpoints/cW68mGw5CJC8mzCdIix2iUc4GbPJUGXD38dJQH-48 1.1 200 1253 23766
Message 6 in outbox: {'@context': 'about:bovine', 'actor': {'id': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo', 'inbox': 'https://scitt.bob.chadig.com/endpoints/ScZVV5F0jQWoF21VudGIjvAX10Y-5-2B50XUFCN8ZDI', 'name': 'bob', 'outbox': 'https://scitt.bob.chadig.com/endpoints/hsJ3DK0ILN4_K-dKeMz_rYG0l1A4_MhelTZsMCF2aeg', 'preferredUsername': 'bob', 'publicKey': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo#serverKey', 'type': 'Person'}, 'id': 'https://scitt.bob.chadig.com/objects/6266d9ed-56ae-4193-a0b.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU', 'inbox': 'https://scitt.alice.chadig.com/endpoints/CjWAUDG2Gcz10Bk_ZRuRTa6fSUNWkk48sDaaKPMeDio', 'name': 'alice', 'outbox': 'https://scitt.alice.chadig.com/endpoints/3QNBXcvV_1Jlp4m4', 'preferredUsername': 'alice', 'publicKey': 'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU#serverKey', 'type': 'Person'}, 'to': ['https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU'], 'type': 'Follow'}
End of messages in outbox, total: 6
[2023-11-06 07:00:33 +0100] [27977] [INFO] 127.0.0.1:52878 GET /entries/sha384:2599c5e6914d5778991899d288fdb686fcc9e2657217d6a92743b37c9063caa56b6bbd87c941f462c390580856403234 1.1 200 133 10552
```

```
(.venv) $ scitt-emulator client create-claim --issuer did:web:example.com --content-type application/json --payload '{"sun": "yellow"}' --out claim.cose && scitt-emulator client submit-claim --url https://scitt.alice.chadig.com --claim claim.cose --out claim.receipt.cbor
A COSE signed Claim was written to: claim.cose
Claim Registered:
  json: {'entryId': 'sha384:2599c5e6914d5778991899d288fdb686fcc9e2657217d6a92743b37c9063caa56b6bbd87c941f462c390580856403234'}
  Entry ID: sha384:2599c5e6914d5778991899d288fdb686fcc9e2657217d6a92743b37c9063caa56b6bbd87c941f462c390580856403234
  Receipt: ./claim.receipt.cbor
(.venv) $ scitt-emulator client retrieve-claim --entry-id sha384:2599c5e6914d5778991899d288fdb686fcc9e2657217d6a92743b37c9063caa56b6bbd87c941f462c390580856403234 --url https://scitt.bob.chadig.com --out claim.federated.alice.to.bob
A COSE signed Claim was written to: claim.federated.alice.to.bob
(.venv) $ scitt-emulator client verify-receipt --claim claim.federated.alice.to.bob --receipt claim.federated.alice.to.bob.receipt --service-parameters ~/Documents/fediverse/scitt_federation_bob/workspace_bob/service_parameters.json
Leaf hash: 435f56b6dce695d006d38affebf058c9c833b0fcc9ec62cd1956b8a84f40f58
Root: 85b4ff02ecd8b1490ed5840b400e293f388b7f29d4b64ae84137e616fcff050c
Receipt verified
(.venv) $ echo $?
0
(.venv) $ echo Successful federation of a claim submitted to Alice retrieved from Bob and verified!
```

```
4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo\ LIMIT 2', [])
DEBUG:aiosqlite:operation funtools.partial(<bound method Connection._execute_fetchall of <Connection(Thread-1, started 140065205065408)>>, 'SELECT "id","owner","updated","created","content","object_type","visibility" FROM "storedjsonobject" WHERE "id"=\'https://scitt.bob.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU\' LIMIT 2', []) completed
DEBUG:tortoise.db_client:SELECT "id","owner","updated","created","content","object_type","visibility" FROM "storedjsonobject" WHERE "id"=\'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU\' LIMIT 2: None
DEBUG:aiosqlite:executing funtools.partial(<bound method Connection._execute_fetchall of <Connection(Thread-1, started 140065205065408)>>, 'SELECT "id","owner","updated","created","content","object_type","visibility" FROM "storedjsonobject" WHERE "id"=\'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU\' LIMIT 2', []) completed
DEBUG:aiosqlite:operation funtools.partial(<bound method Connection._execute_fetchall of <Connection(Thread-1, started 140065205065408)>>, 'SELECT "id","owner","updated","created","content","object_type","visibility" FROM "storedjsonobject" WHERE "id"=\'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU\' LIMIT 2', []) completed
DEBUG:requests_cache.backends:Initializing backend: <SQLiteCache(name=context_cache)> context_cache
DEBUG:requests_cache.policy.actions:Cache directives from request headers: {}
[2023-11-06 07:00:25 +0100] [27743] [INFO] 127.0.0.1:58818 POST /endpoints/2FWRNQIhCD_8sM0n3fRxpR1G4YH_vqXNSPm8msIdiWQ 1.1 200 1253 259558
Message 7 in outbox: {'@context': 'about:bovine', 'actor': {'id': 'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU', 'inbox': 'https://scitt.alice.chadig.com/endpoints/CjWAUDG2Gcz10Bk_ZRuRTa6fSUNWkk48sDaaKPMeDio', 'name': 'alice', 'outbox': 'https://scitt.alice.chadig.com/endpoints/3QNBXcvV_1Jlp4m4', 'preferredUsername': 'alice', 'publicKey': 'https://scitt.alice.chadig.com/endpoints/uaB0XmZY66abM133P7Sh0ed8BgEh2IgBphA0f14RyJU#serverKey', 'type': 'Person'}, 'id': 'https://scitt.alice.chadig.com/objects/30108c10-864c-43fc-a4da-ce936fbee64c', 'object': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo', 'inbox': 'https://scitt.bob.chadig.com/endpoints/ScZVV5F0jQWoF21VudGIjvAX10Y-5-2B50XUFCN8ZDI', 'name': 'bob', 'outbox': 'https://scitt.bob.chadig.com/endpoints/hsJ3DK0ILN4_K-dKeMz_rYG0l1A4_MhelTZsMCF2aeg', 'preferredUsername': 'bob', 'publicKey': 'https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo#serverKey', 'type': 'Person'}, 'to': ['https://scitt.bob.chadig.com/endpoints/uXizVR3fD4eqmY2NPP45pqjP0w0Tei-t6cms0Pr0Jyo'], 'type': 'Follow'}
End of messages in outbox, total: 7
```

<https://asciinema.org/a/619499>



# Next Steps and WG Operations

Jon Geater

# WG Operations

Seeking to make the WG more effective in its primary goal of producing specs for interoperable building blocks.

A few themes have arisen over the past weeks which we should seek to address together:

- Communications channels
- Interim meeting cadence
- New co-chair

- Software Supply Chain Uses Cases

<https://datatracker.ietf.org/doc/draft-ietf-scitt-software-use-cases/>

- SCITT Architecture

<https://datatracker.ietf.org/doc/draft-ietf-scitt-architecture>

- Countersigning COSE Envelopes in Transparency Services

<https://datatracker.ietf.org/doc/draft-birkholz-scitt-receipts>

- **SCITT Reference API** (SCRAPI)

<https://github.com/ietf-scitt/draft-birkholz-scitt-scrapi>

# Next Steps

## ● Related IETF drafts

- RFC 8152 - **CBOR Object Signing and Encryption (COSE)**  
<https://datatracker.ietf.org/doc/html/rfc8152>
- **Remote Attestation ProcedureS (RATS)**  
<https://datatracker.ietf.org/wg/rats/documents/>
- **CBOR Web Token (CWT) Claims in COSE Headers**  
<https://datatracker.ietf.org/doc/draft-ietf-cose-cwt-claims-in-headers>

## ● Resources

- scitt.io
- scitt-api-emulator  
<https://github.com/scitt-community/scitt-api-emulator>
- SCITT REST Emulator  
<https://scitt.xyz>

AOB (Open Mic)

# Wrap-Up