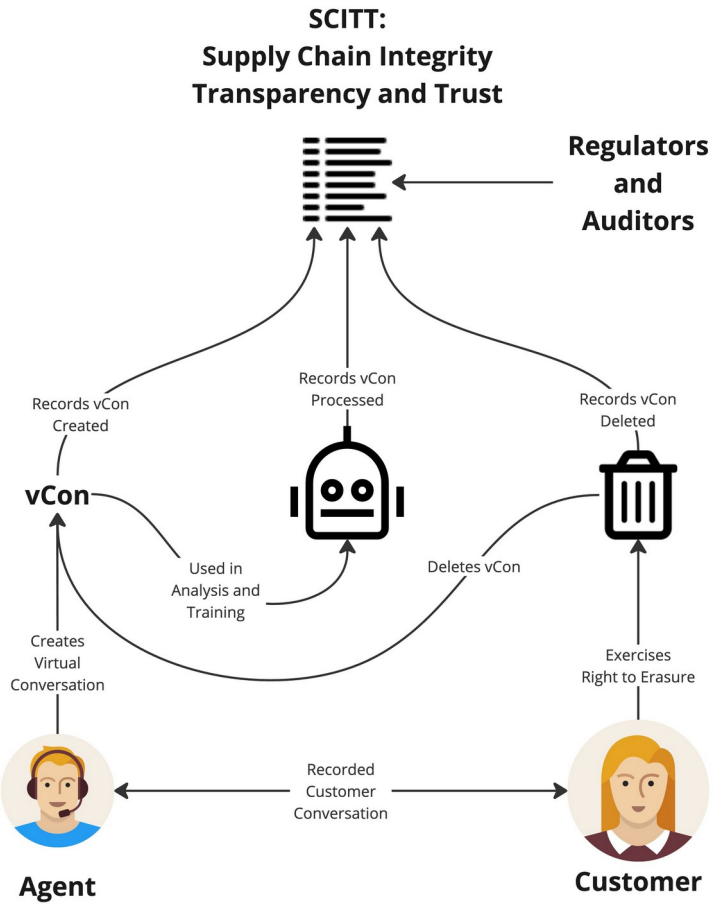
Scrappy vCons

IETF Hackathon

IETF 120
20–21 July 2024
Vancouver, Canada

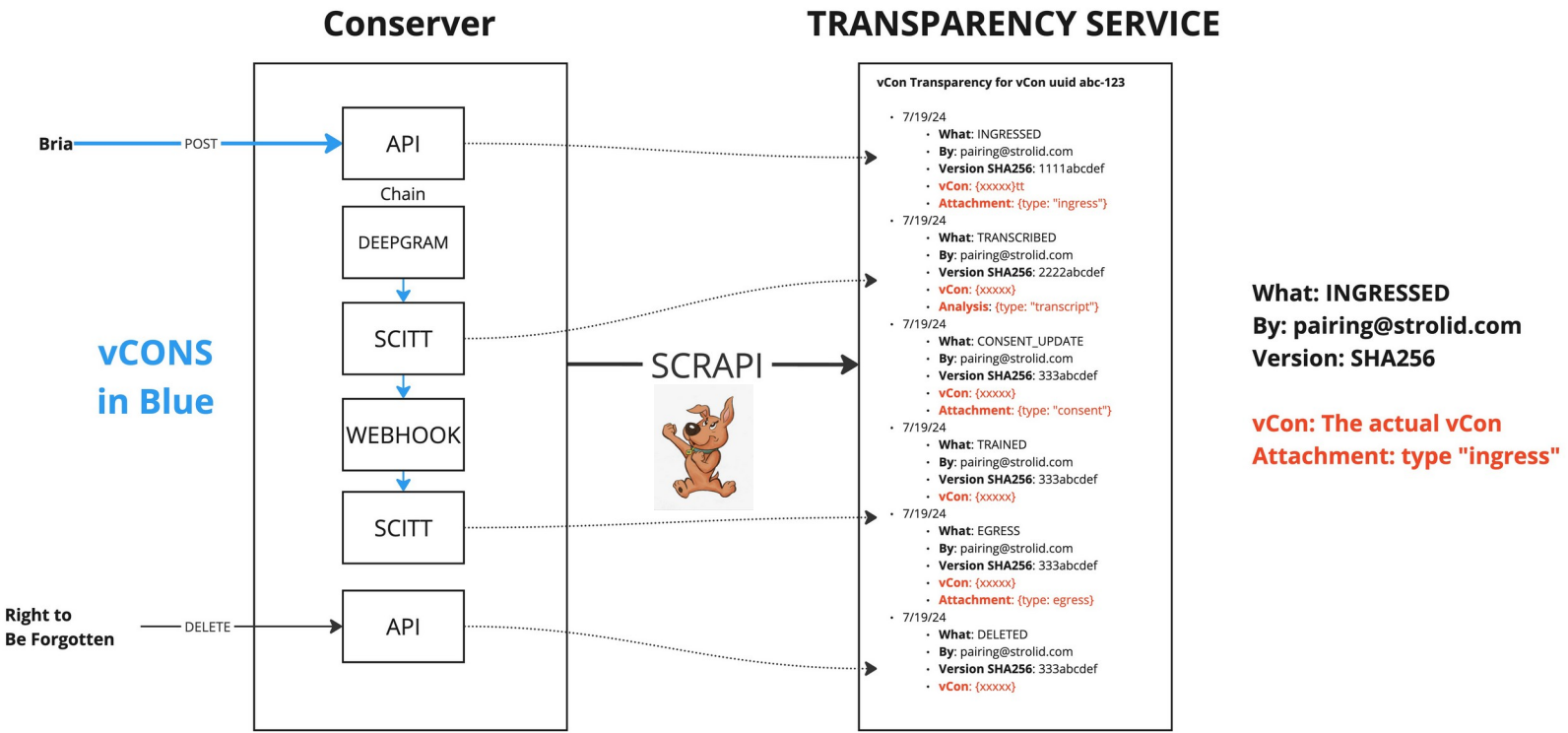


Humans have the right to know how their data was processed.

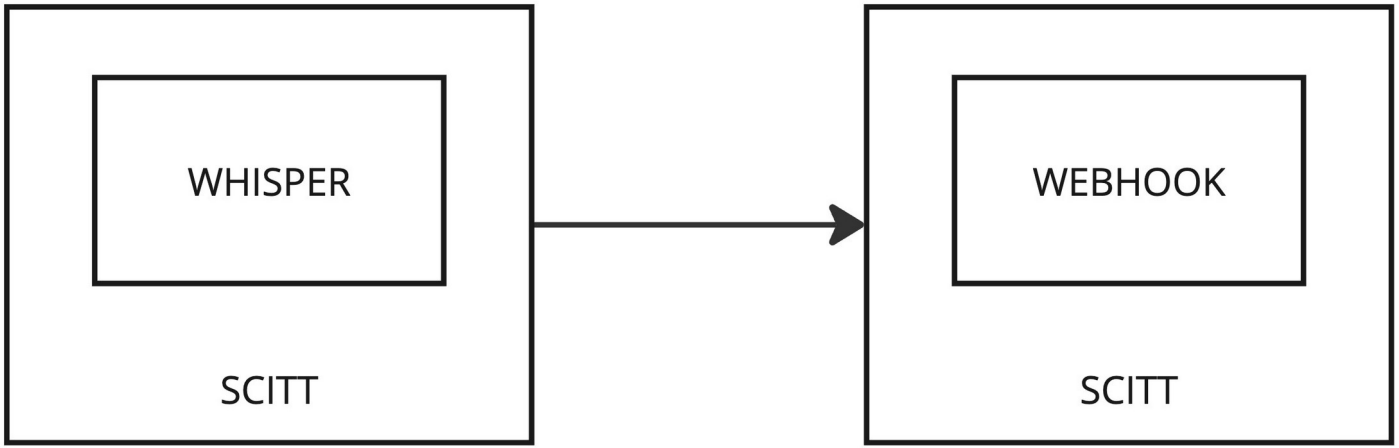
Especially when there are robots involved.

Hackathon Plan? vCons + SCITT

- vCon - Conversational Data Container
- SCITT - Supply Chain Integrity Transparency and Trust
- SCRAPI - SCITT REST API
- PB&J? Wasabi and Soy? Peanuts and Chewing Gum?
  - Implement draft-ietf-scitt-scrapi-02 in the conserver
  - Audit every vCon transformation and place onto ledger
  - Implement self-serve right to know


Conserver
TRANSPARENCY SERVICE
Bria
POST
API
Chain
DEEPGRAM
SCITT
WEBHOOK
SCITT
Right to
Be Forgotten
DELETE
API
vCONS
in Blue
SCRAPI
vCon Transparency for vCon uuid abc-123
7/19/24
What: INGRESSED
By: pairing@strolid.com
Version SHA256: 1111abcdef
vCon: {xxxxx}tt
Attachment: {type: "ingress"}
7/19/24
What: TRANSCRIBED
By: pairing@strolid.com
Version SHA256: 2222abcdef
vCon: {xxxxx}
Analysis: {type: "transcript"}
7/19/24
What: CONSENT_UPDATE
By: pairing@strolid.com
Version SHA256: 333abcdef
vCon: {xxxxx}
Attachment: {type: "consent"}
7/19/24
What: TRAINED
By: pairing@strolid.com
Version SHA256: 333abcdef
vCon: {xxxxx}
7/19/24
What: EGRESS
By: pairing@strolid.com
Version SHA256: 333abcdef
vCon: {xxxxx}
Attachment: {type: egress}
7/19/24
What: DELETED
By: pairing@strolid.com
Version SHA256: 333abcdef
vCon: {xxxxx}
What: INGRESSED
By: pairing@strolid.com
Version: SHA256
vCon: The actual vCon
Attachment: type "ingress"

Audit All Links, Generically



What’s in a hash?

- Distributed Ledgers are Forever… maybe vCons shouldn’t be on them
- SHA512 makes a great version identifier, a la git.
  - vCons can be updated without updating the ID
  - Hashing the vCon gives you the version you have
  - Hashing the vCon after the link gives you the new version
  - Distributed networks with updating vCons
  - Location hints can work really well

Right to Know, Right to Erasure

Request Access or Deletion of Personal Data

Results

Access History

Summary

The following documents contain your email or phone number. You can request access to these documents or request the deletion of your personal data.

Access History

Issued by: Strolid

Issued at: 2024-07-21T01:11:24Z

Confirmation Status: CONFIRMED

Subject: fake_id

Action: some_module

Hash: fake_hash2

What we learned

- Better than PB&J - Peanut Butter and Fluff!
  - Very native to vCon approach, identifiers, etc.
  - Very flexible to network requirements for privacy, security
- vCon redaction should hold up well across new object IDs
- We needed a new facility to version vCons when ID remains constant.

Wrap Up

First timers @ IETF/Hackathon
Sergey Lyapustin
Gordon Du Quesnay
Pavan Kumar
Joshua Ssengonzi
Benji Gifford

Retreads @ IETF/Hackathon
Thomas McCarthy Howe
Jon Geater
Steve Lasker
Corey Bonnell

The Repos that Matter

- https://github.com/vcon-dev/vcon-server
- https://github.com/vcon-dev/vcon-right-to-know
- https://datatracker.ietf.org/doc/draft-ietf-scitt-scrapi/