IETF Hackathon Matrix vCon Emitter

**IETF 117**
22-23 July 2023
San Francisco, California

Hackathon Plan

- Implementing vCons for Matrix / MiMi
  - https://datatracker.ietf.org/doc/html/draft-petrie-vcon-01
  - https://datatracker.ietf.org/doc/draft-ralston-mimi-linearized-matrix
- Second implementation of vCons emitted from messaging system (quiq)
- Seeking to learn / verify assumptions in the vCon spec through wider implementation

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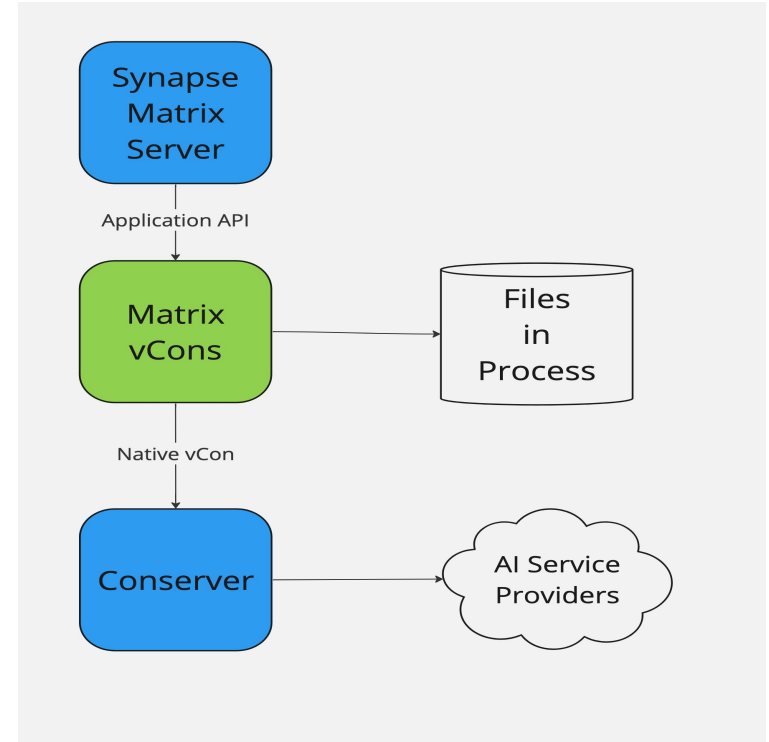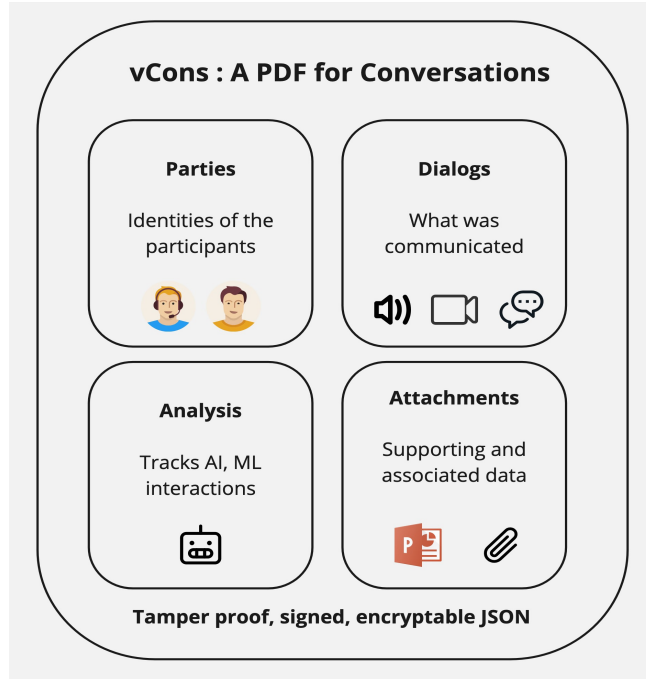
What got done

- Matrix vCons were implemented and working, so now we can create vCons from Matrix rooms, automatically

  - Rooms are auto discovered, vCons are created on hour boundaries

  - Second vCon implementation in JavaScript (somelang)

  - Repo hosted in vcon-dev/matrix_vcon_emitter

  - Bench testing with a local synapse server

- We forward those vCons into the Conserver, where it is augmented, analyzed and protected.

What we learned

- First messaging integration without session management
  - Using periodic vCons, filtered by activity
- Google Bard wrote a vCon library in a few seconds.
  - Not really, but really.
- Design discussion point between summary and actual messaging transcripts
  - In this implementation we record every event, great for forensics, but man it's chatty
  - Might be a use for a derived (redacted) vCon
- Design discussion point between sparse and chatty implementations of vCons
  - We don't have attachments (the conserver will add them), so why add them?
  - But, early tests with Anthropic's Claude give really tight zero-shot answers. An empty array of attachments is a good clue.

Wrap Up

Team members:

    Thomas McCarthy-Howe

    Travis Ralston

    Matthew Hodgson

First timers @ IETF/Hackathon:

    Google Bard

vCons : A PDF for Conversations

Parties
Identities of the participants

Dialogs
What was communicated

Analysis
Tracks AI, ML interactions

Attachments
Supporting and associated data

Tamper proof, signed, encryptable JSON