Registry

`draft-meunier-webbotauth-registry-01`

Maxime Guerreiro - Thibault Meunier (Cloudflare) - Ulas Kirazci (Amazon)

IETF 124, November 2025, Montreal

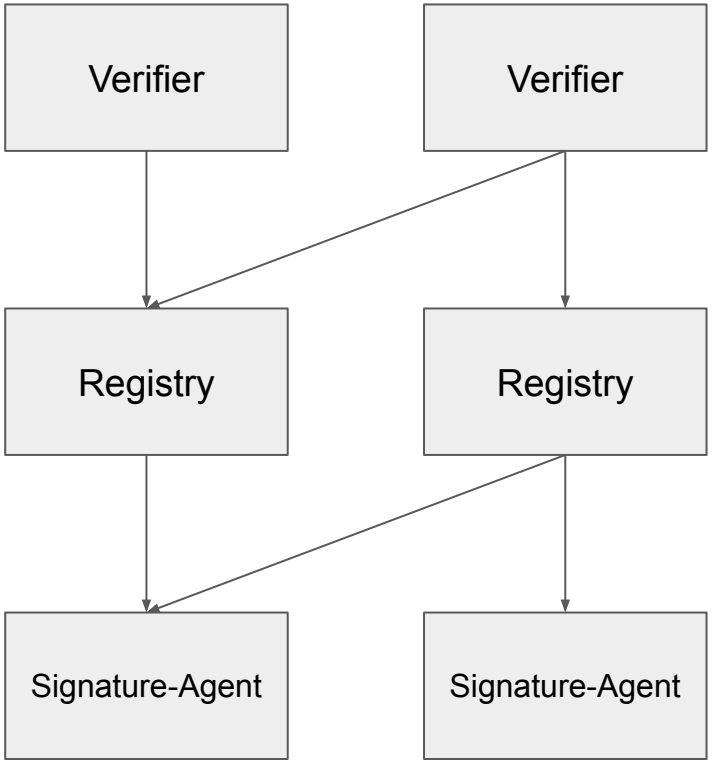
Overview

For verifiers to get keys, they need to discover them. This can be done with Signature-Agent headers, but may also be done off-band.

For IP addresses, you can use IP lists
⇒ Signature-Agent registry

IP addresses may register to have associated metadata attached
=> Signature-Agent card

Lists are curated. Clients trust the maintainer.



draft-meunier-webbotauth-registry-01

Signature-Agent Card

Means for agents to share more information about themselves

Fields are part of a dedicated IANA registry

All fields are optional

Expand JWKS


```
{
  "client_name": "Example Bot",
  "client_uri": "https://example.com/bot/about.html",
  "logo_uri": "https://example.com/",
  "contacts": ["mailto:bot-support@example.com"],
  "expected-user-agent": "Mozilla/5.0 ExampleBot",
  "rfc9309-product-token": "ExampleBot",
  "rfc9309-compliance": ["User-Agent", "Allow", "Disallow", "Content-Usage"],
  "trigger": "fetcher",
  "purpose": "tdm",
  "targeted-content": "Cat pictures",
  "rate-control": "429",
  "rate-expectation": "avg=10rps;max=100rps",
  "known-urls": ["/", "/robots.txt", "*.png"],
  "keys": [{
    "kty": "OKP",
    "crv": "Ed25519",
    "kid": "NFcWBst6DXG-N35nHdzMrioWntdzNZghQSkjHNMMSjw",
    "x": "JrQLj5P_89iXES9-vFgrIy29clF9CC_oPPsw3c5D0bs",
    "use": "sig",
    "nbf": 1712793600,
    "exp": 171538600
  }]
}
```


draft-meunier-webbotauth-registry-01

Registry

A text based format to share a signature-agents

Opinionated curation. Not a single root of trust.

Paired with the directory draft, allow for off-band discovery of bot identity

```
# An example list of bots
https://bot1.example.com/.well-known/signature-agent-card
https://crawler2.example.com/.well-known/signature-agent-card

# Now the list of platforms
https://zerotrust-gateway.example.com/.well-known/signature-agent-card

# Below is an inlined card with the data URL scheme
data:application/json;,... # Invalid, not defined
```

draft-meunier-webbotauth-registry-01

Open questions

1. Is this right for webbotauth?
2. Security/privacy are empty for now
3. Other fields: jwks_uri, others
4. Still no central root

draft-meunier-webbotauth-registry-01

Discussion