

AI Protocols

IETF 125 Catalist BOF

Presenter: Cullen Jennings
Co-Proponents: Jonathan Rosenberg
Suresh Krishnan
Dapeng Liu

AI Protocols

- Purpose: Work on protocols for enabling interoperability for AI Agent applications on the Internet.
- Scope:
 - Service Invocation
 - Session protocol for AI Agents
 - Human in the Loop
 - Constrained limited access tokens
- Strawman charter at
 - <https://github.com/jdrosen/aiproto-wg/blob/main/charter.txt>

IETF work

- Work on session protocol, authentication and authorization building blocks potentially in scope for IETF
 - Oauth, MoQ, DNS are some of the IETF protocols that are applicable
 - Several extensions and profile drafts have been proposed and discussed in multiple IETF venues
 - Potential for further protocol standardization
- WIT, ART and SEC areas seem to be most relevant areas for work with some potential work in INT
 - Some work can certainly be handled in existing WGs (e.g. oauth) after fleshing out the requirements

Work to date

- Two AI Protocols side meetings have been held at IETF 123 in Madrid and IETF 124 in Montreal.
- Some of the related drafts:
 - <https://datatracker.ietf.org/doc/draft-rosenberg-aiproto-framework>
 - <https://datatracker.ietf.org/doc/draft-jennings-ai-mcp-over-moq/>
 - <https://datatracker.ietf.org/doc/html/draft-rosenberg-aiproto-a2t>
 - <https://datatracker.ietf.org/doc/html/draft-nandakumar-agent-sd-jwt>
 - <https://datatracker.ietf.org/doc/draft-nandakumar-ai-agent-moq-transport>
 - <https://datatracker.ietf.org/doc/html/draft-liu-agent-operation-authorization>
 - <https://datatracker.ietf.org/doc/html/draft-liu-agent-protocol-over-moq>
 - <https://datatracker.ietf.org/doc/html/draft-diaconu-agents-authz-info-sharing>
- Discussions on the agent2agent@ietf.org mailing list
- AI Protocols side meeting on Monday 1700-1800 at Jiangsu

Future plans and next steps

- **Discussions will continue take place on the agent2agent@ietf.org mailing list – Please participate!**
- Continue discussions with open-source communities about protocol work and building blocks
- Expecting to be ready with a working group forming BoF for IETF 126
 - **Please comment on charter on the list**