Model Context Protocol

Development › **Roadmap**

Development

Roadmap

Our plans for evolving Model Context Protocol (H1 2025)

The Model Context Protocol is rapidly evolving. This page outlines our current thinking on key priorities and future direction for **the first half of 2025**, though these may change significantly as the project develops.

> The ideas presented here are not commitments—we may solve these challenges differently than described, or some may not materialize at all. This is also not an *exhaustive* list; we may incorporate work that isn't mentioned here.

We encourage community participation! Each section links to relevant discussions where you can learn more and contribute your thoughts.

Remote MCP Support

Our top priority is enabling **remote MCP connections**, allowing clients to securely connect to MCP servers over the internet. Key initiatives include:

Authentication & Authorization: Adding standardized auth capabilities, particularly focused on OAuth 2.0 support.

Service Discovery: Defining how clients can discover and connect to remote MCP servers.

Stateless Operations: Thinking about whether MCP could encompass serverless environments too, where they will need to be mostly stateless.

Reference Implementations
  Model Context Protocol

To help developers build with MCP, we want to offer documentation for:

Client Examples: Comprehensive reference client implementation(s), demonstrating all protocol features

Protocol Drafting: Streamlined process for proposing and incorporating new protocol features

Distribution & Discovery

Looking ahead, we're exploring ways to make MCP servers more accessible. Some areas we may investigate include:

Package Management: Standardized packaging format for MCP servers

Installation Tools: Simplified server installation across MCP clients

Sandboxing: Improved security through server isolation

Server Registry: A common directory for discovering available MCP servers

Agent Support

We're expanding MCP's capabilities for **complex agentic workflows**, particularly focusing on:

Hierarchical Agent Systems: Improved support for trees of agents through namespacing and topology awareness.

Interactive Workflows: Better handling of user permissions and information requests across agent hierarchies, and ways to send output to users instead of models.

Streaming Results: Real-time updates from long-running agent operations.

Broader Ecosystem

We're also invested in:

Model Context Protocol

Community-Led Standards Development: Fostering a collaborative ecosystem where all AI providers can help shape MCP as an open standard through equal participation and shared governance, ensuring it meets the needs of diverse AI applications and use cases.

Additional Modalities: Expanding beyond text to support audio, video, and other formats.

[**Standardization**] Considering standardization through a standardization body.

Get Involved

We welcome community participation in shaping MCP's future. Visit our **GitHub Discussions** to join the conversation and contribute your ideas.

Was this page helpful?   👍 Yes   👎 No

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