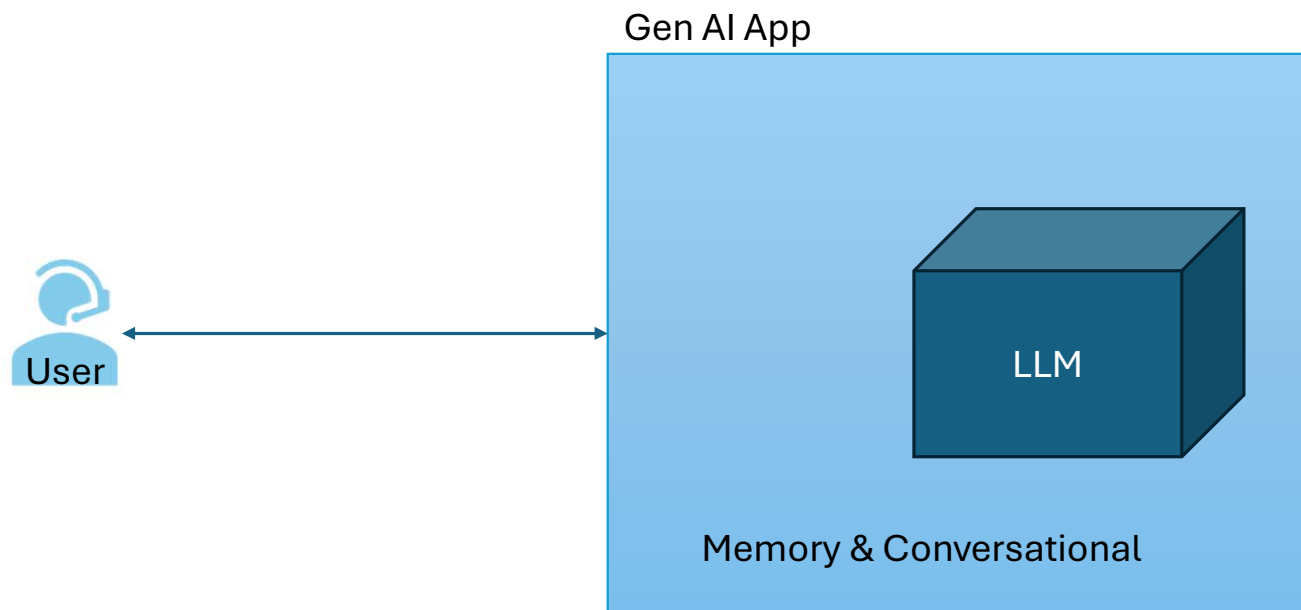


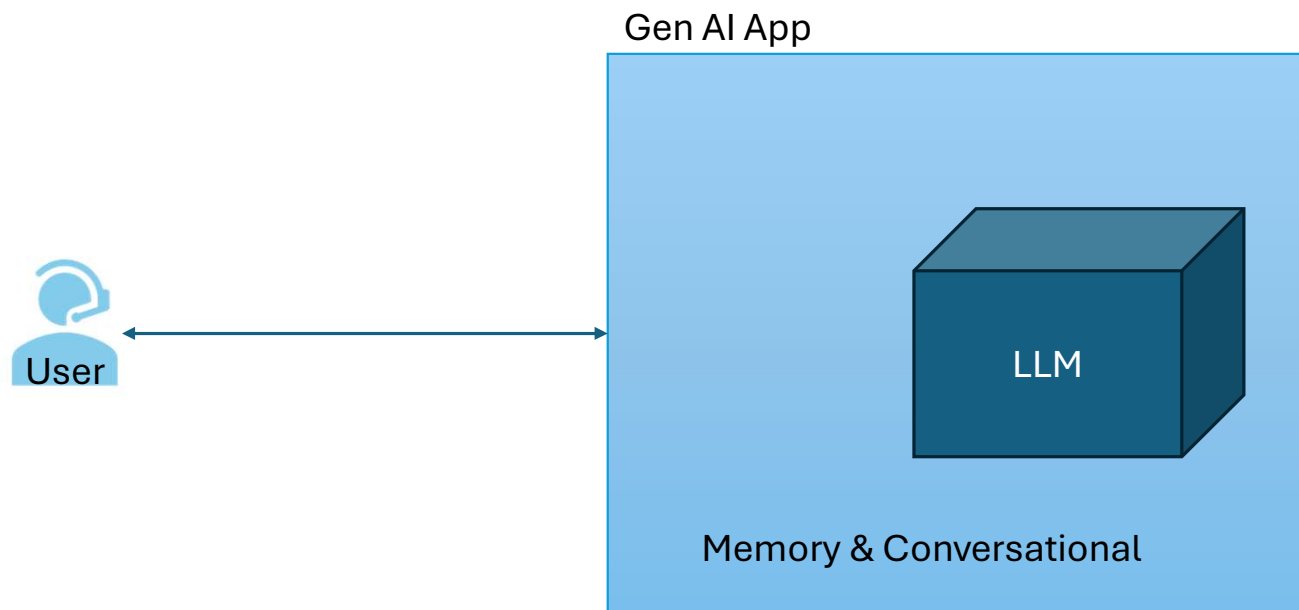
Agentic AI

August 2025, Raghu Mutum

Gen AI



Gen AI



A model has a cutoff date.

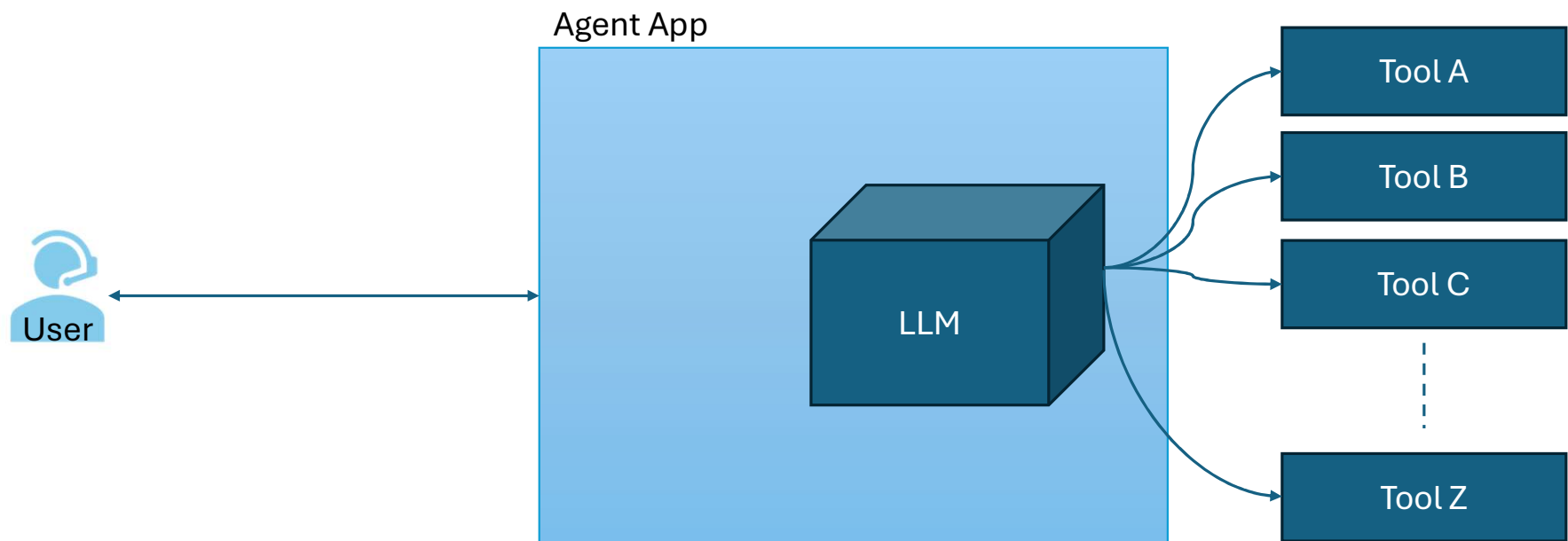
How to make a model better?

1. Fine tune the model.
2. RAG

Data/Event Types:

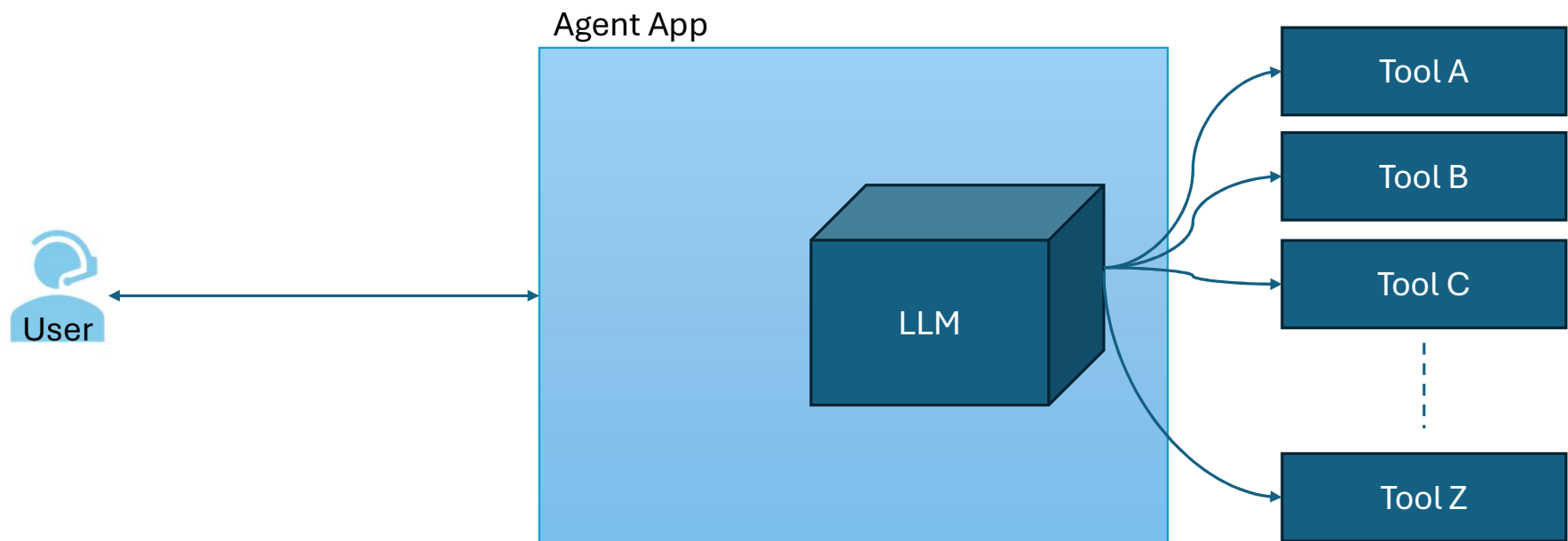
1. Never changing.
2. Infrequently changing
3. Moderately changing
4. Frequently changing
5. Real-time or Streaming

An Agent



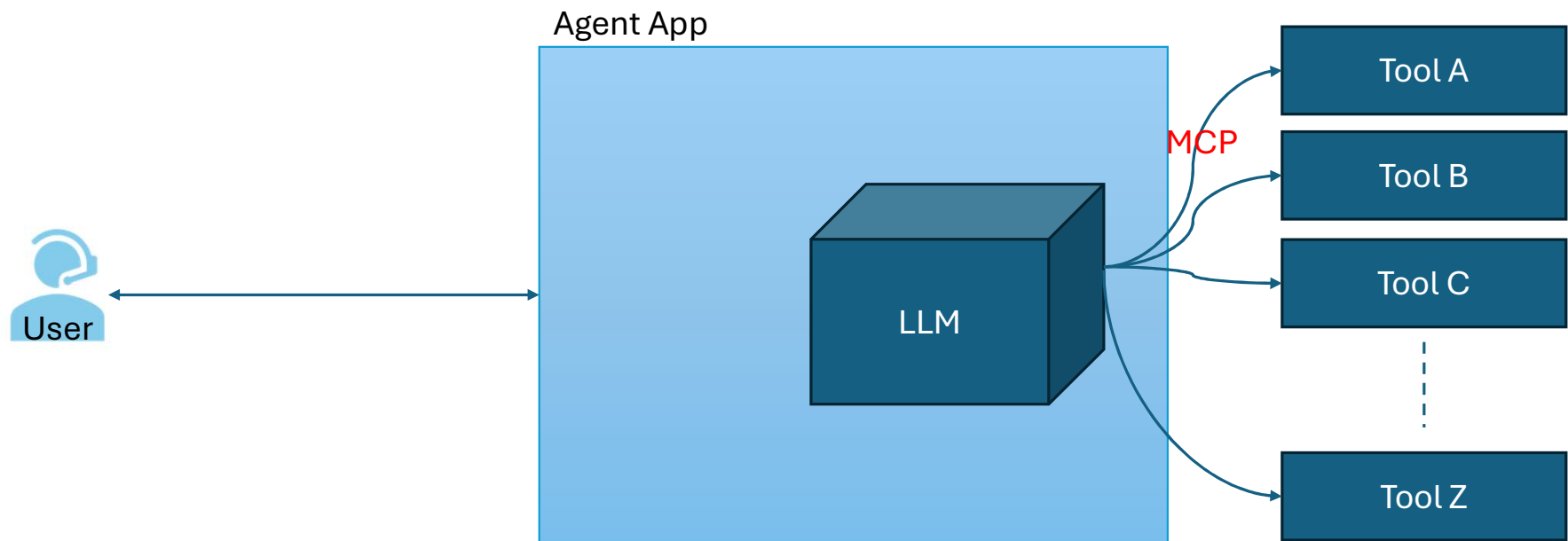
Tools are services. An agent uses a tool to execute a task, e.g., search the web, data crud by calling an API, etc.

An Agent



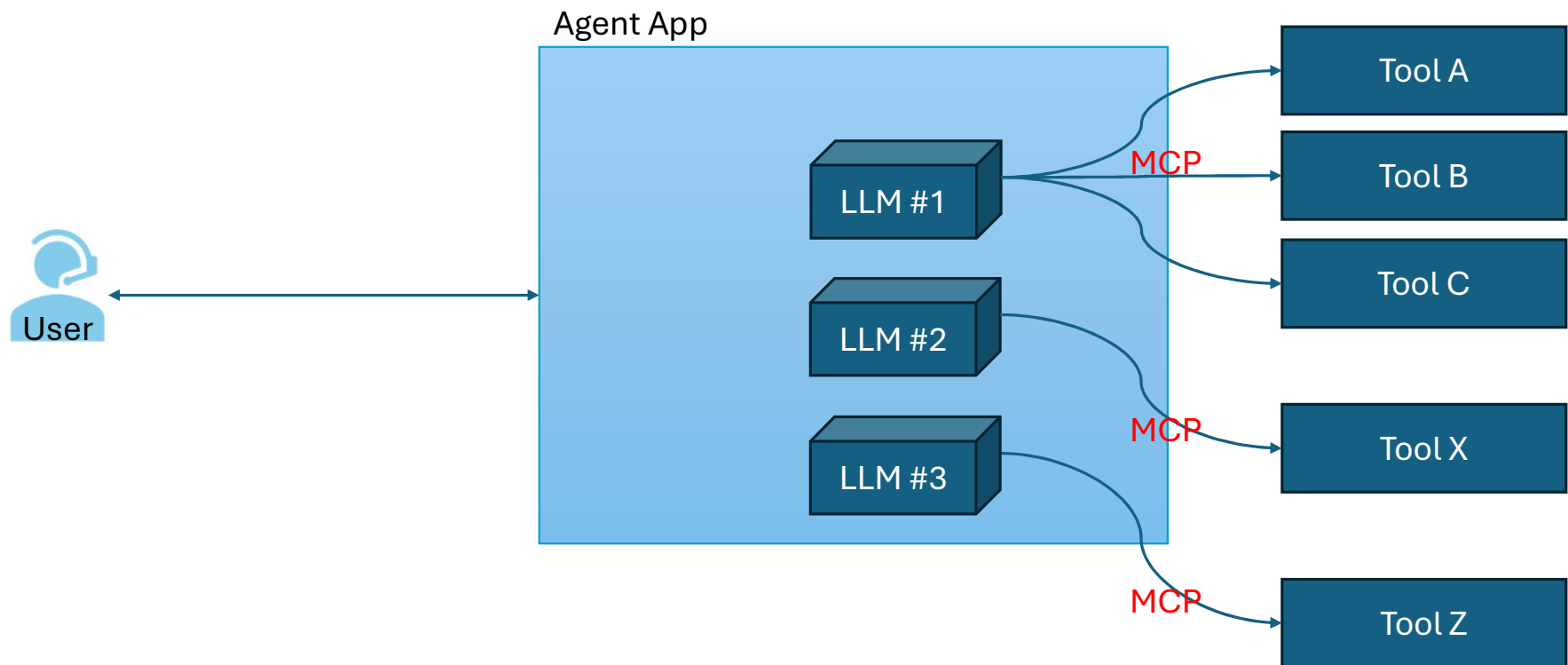
MCP: protocol for an agent to use a toolbox.

An Agent



MCP: protocol for an agent to use a toolbox.

An Agent (multi-model)



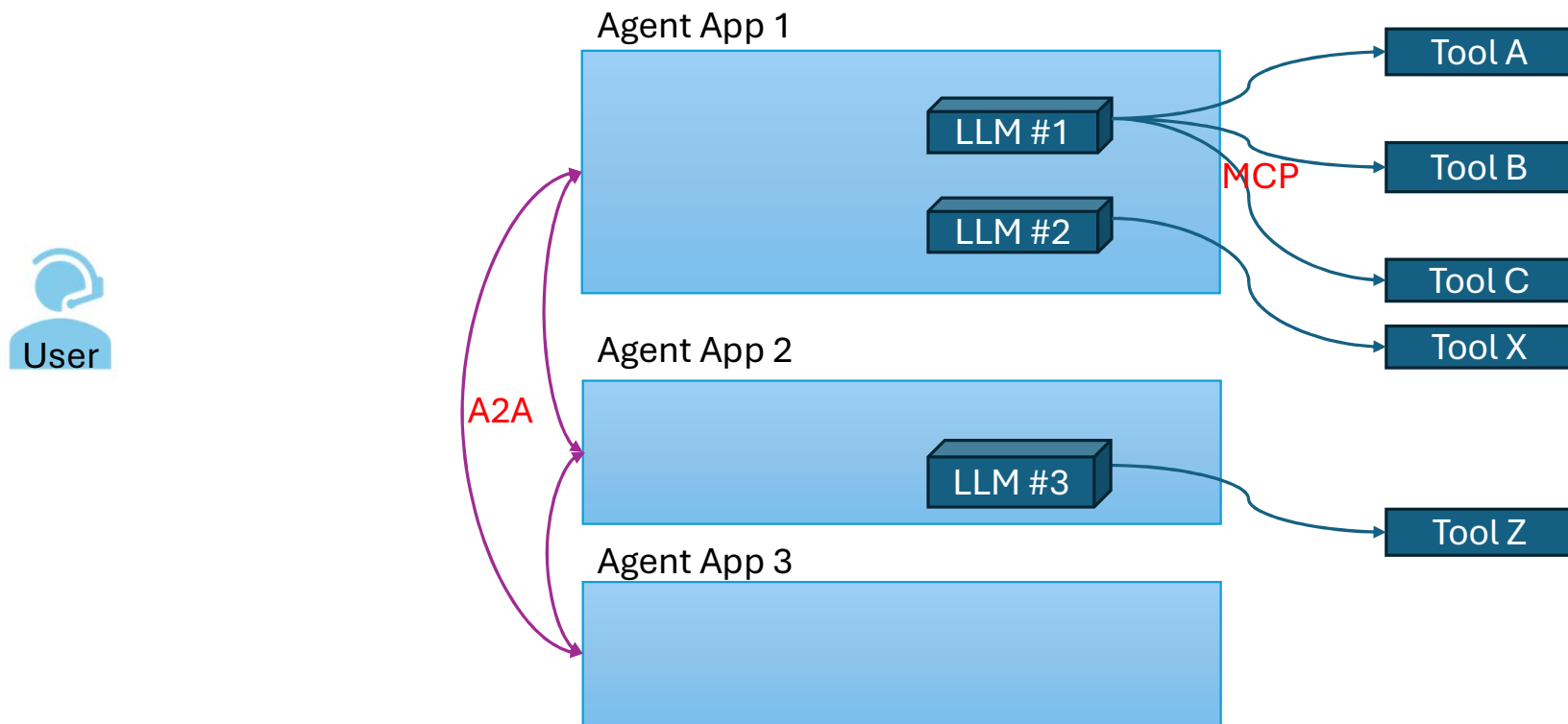
No limits on the number of models. Segregation of tools is based typically on function domains, e.g., HR tools and Sales tools can be made available to different models.

Multiple Agents



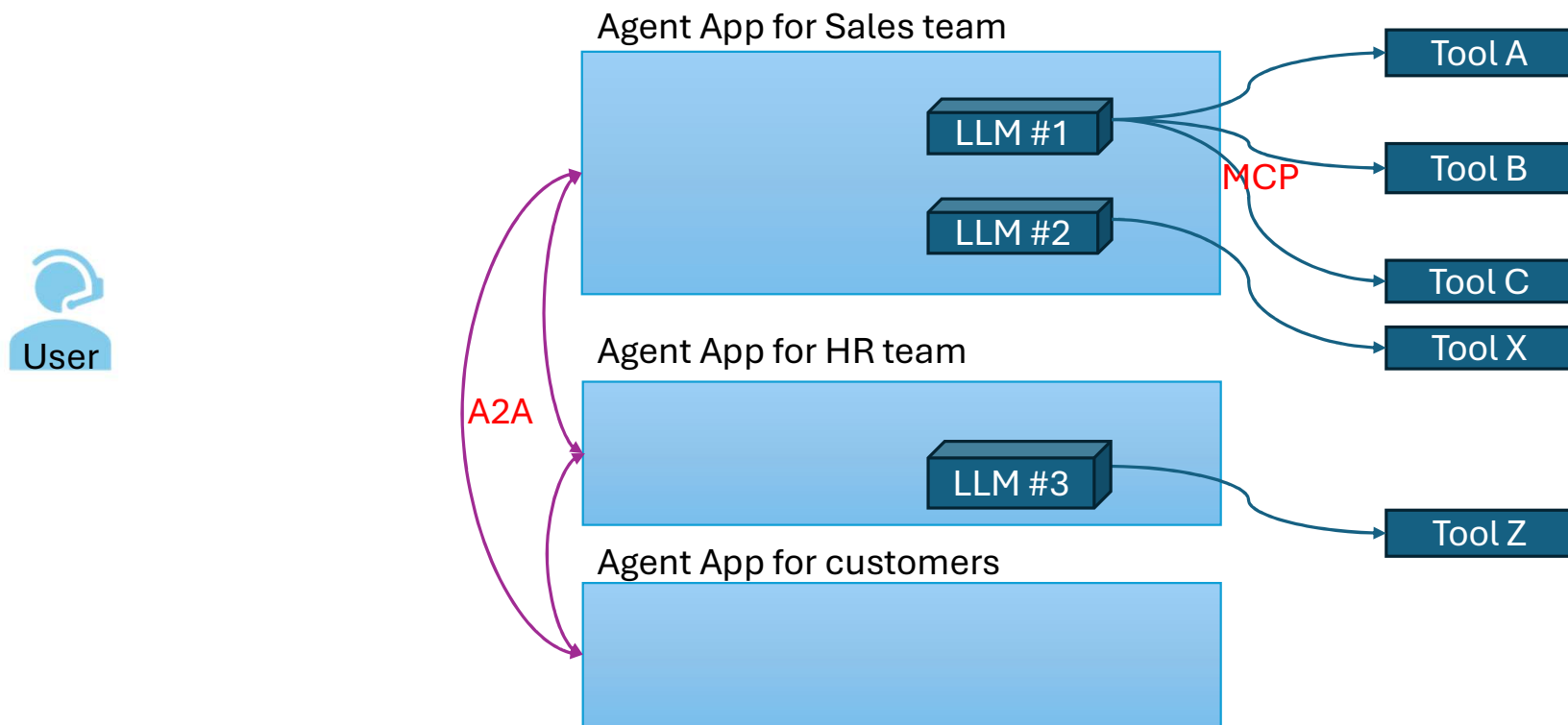
You can have many agents. Each agent with one or more models, and each model equipped with multiple tools.

Multiple Agents Working Together



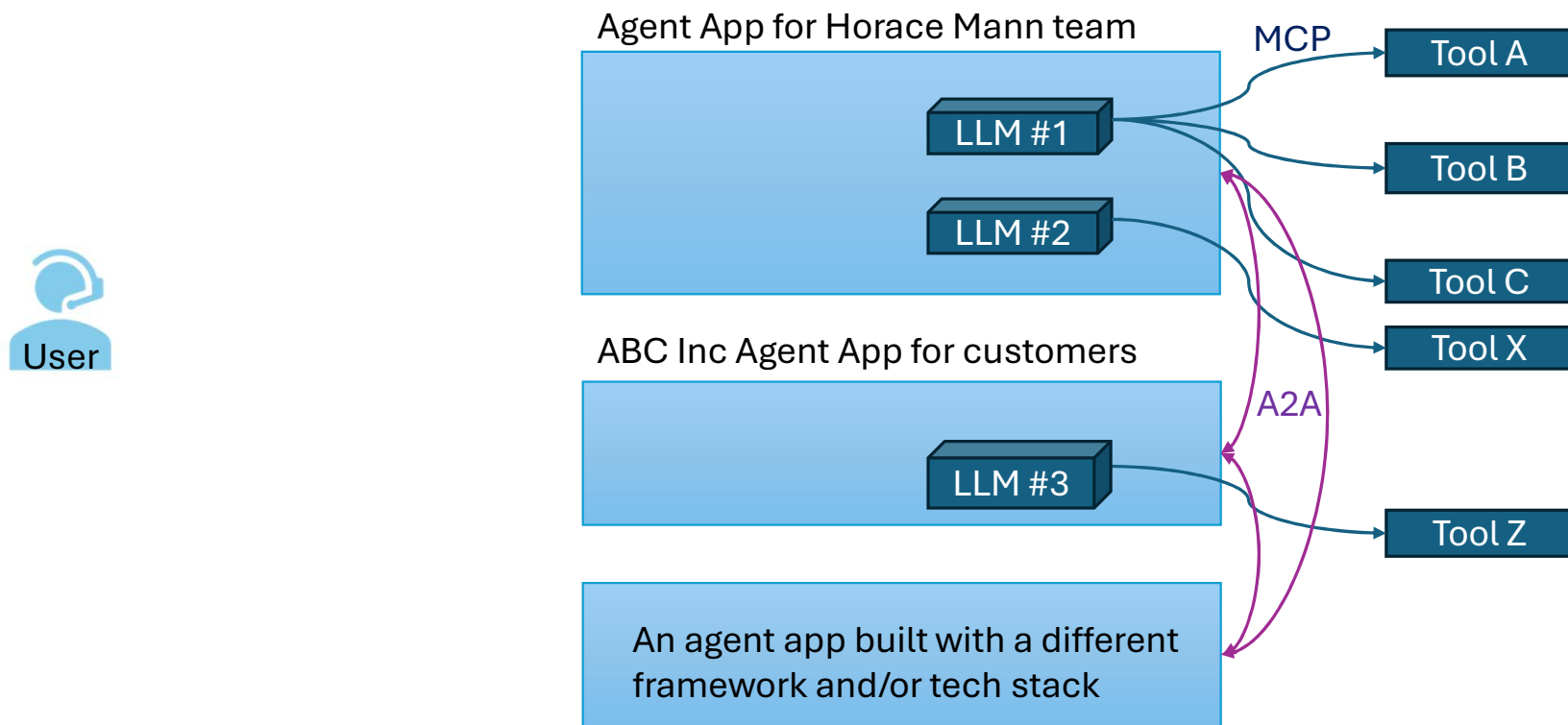
A2A: communication protocol for agents. An agent may make only a subset of its services available to other agents. Protocol to bridge across org/tech boundaries.

Multiple Agents Working Together



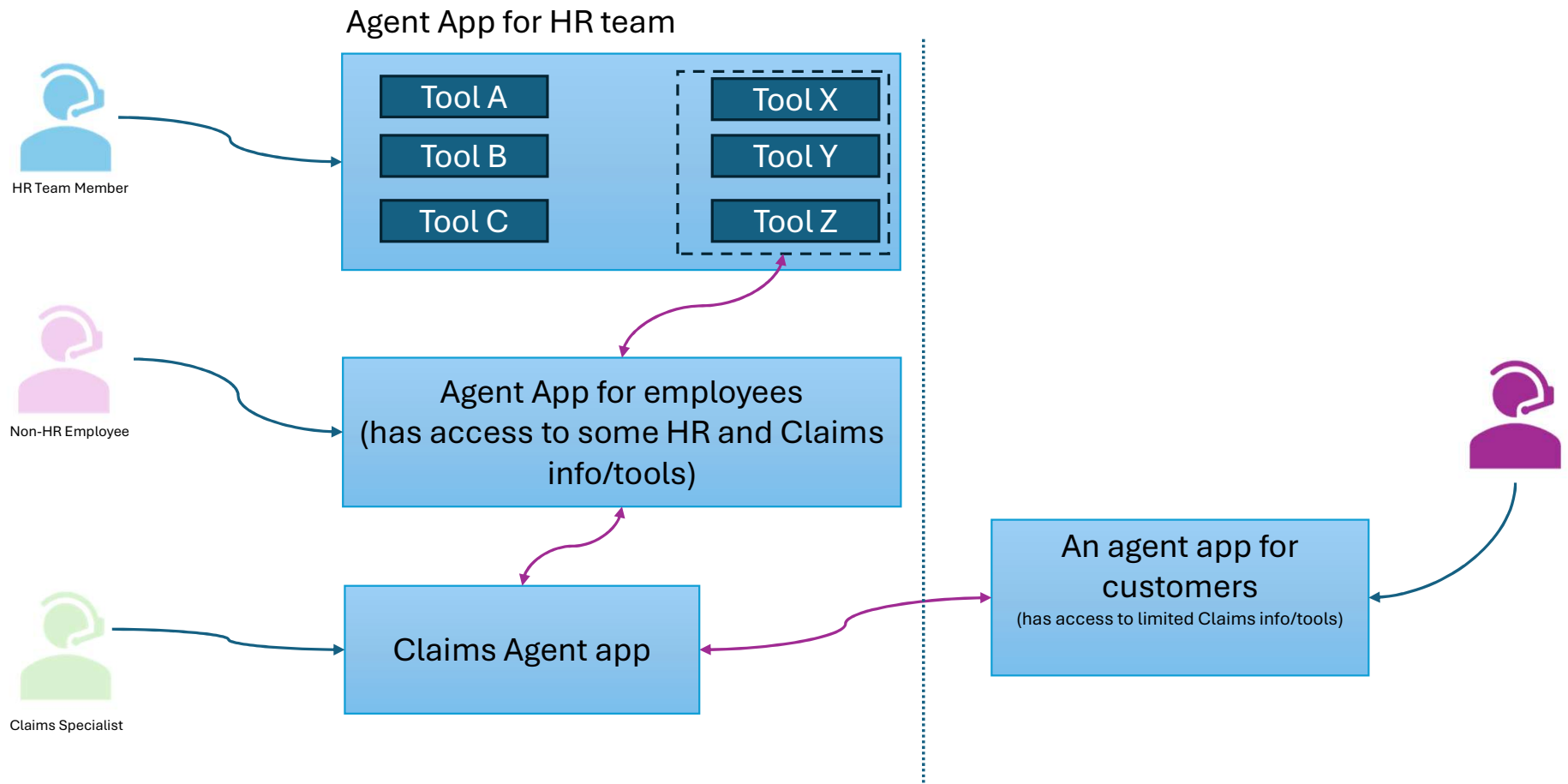
Agents across internal org/tech boundaries.

Multiple Agents Working Together



Agents across external org/tech boundaries.

Multiple Enterprise Agents



Demo #1: MCP

Demo #2: RAG

Demo #3: A2A

Deep Dive on RAG

Deep Dive on MCP

Deep Dive on A2A

Build List:

- Build an agent with employee leave manager as tool and Employee Handbook for RAG showcase. Agent #1.
- Build another agent that calls a Web service as a tool. Also, this agent can contact Agent #1 for help on employee leaves and Employee Handbook.

Questions