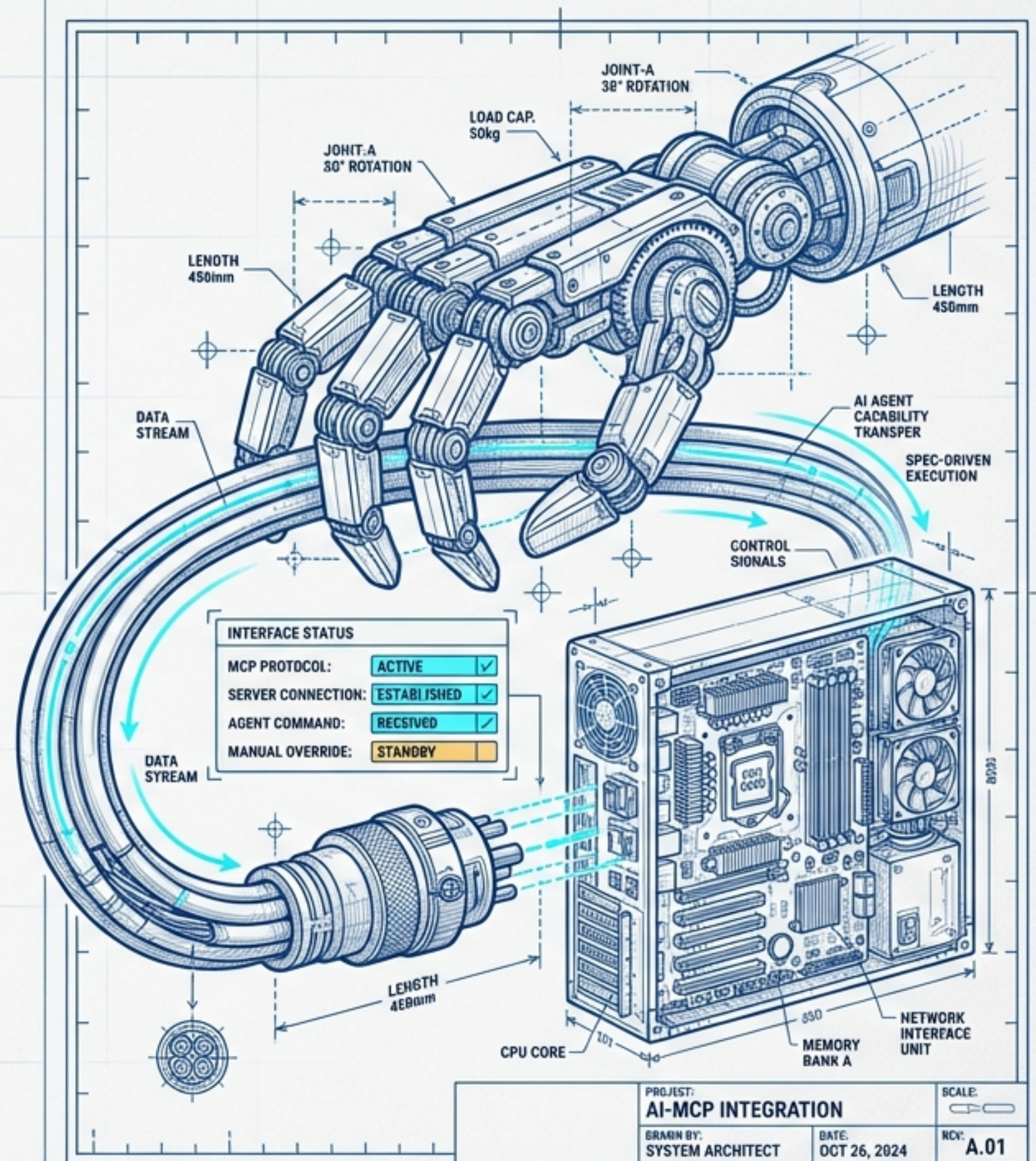


# Extend Your Claw with MCP

Giving your AI Agent hands through spec-driven server development.

From Consumer to Producer.



# Knowledge has a ceiling. Ability requires access.

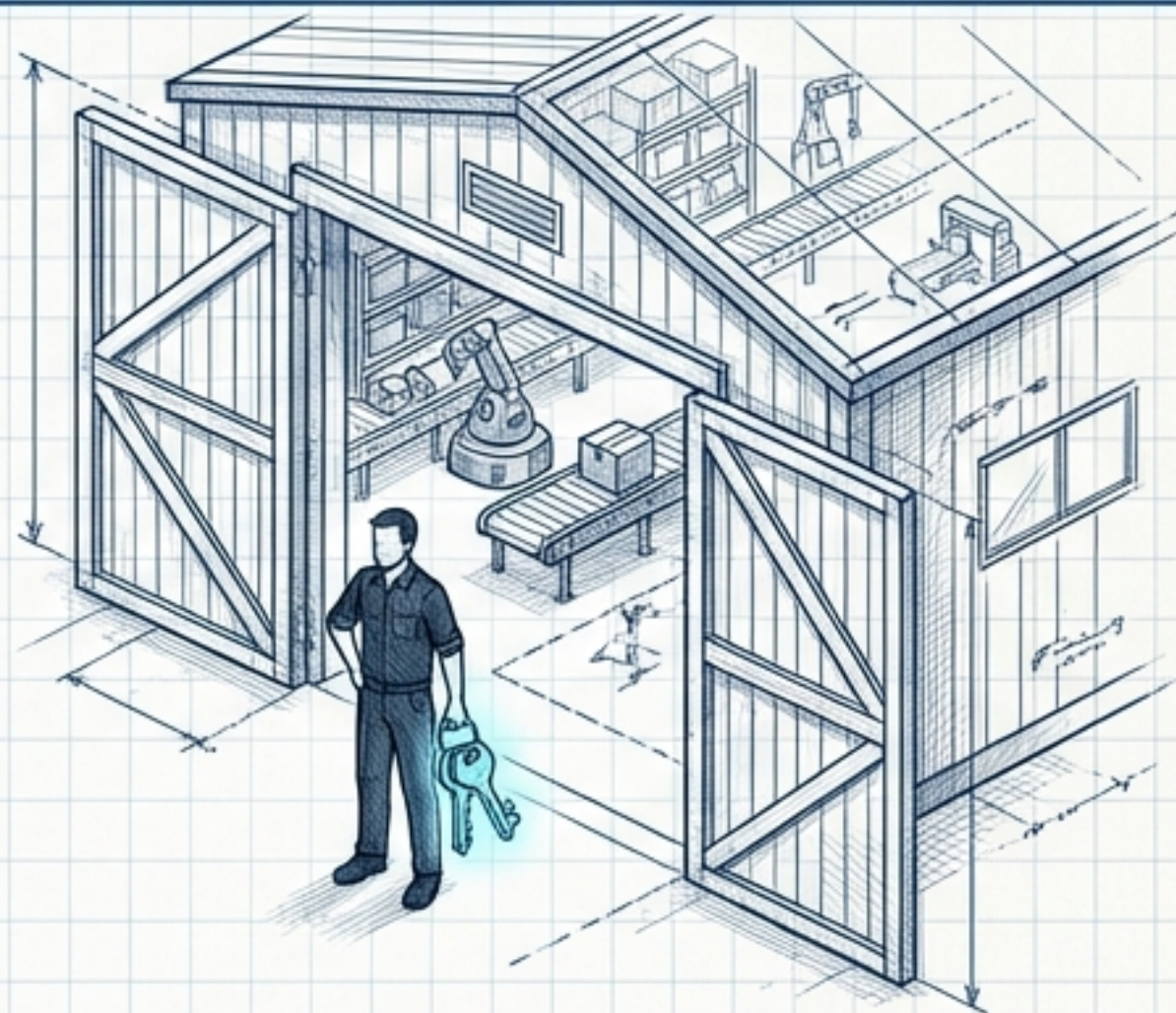
## THE CONSULTANT



### Training Data (Knowledge)

The agent knows timezone rules, routing algorithms, and API structures. It can discuss any topic, but relies entirely on static memory.

## THE WAREHOUSE WORKER



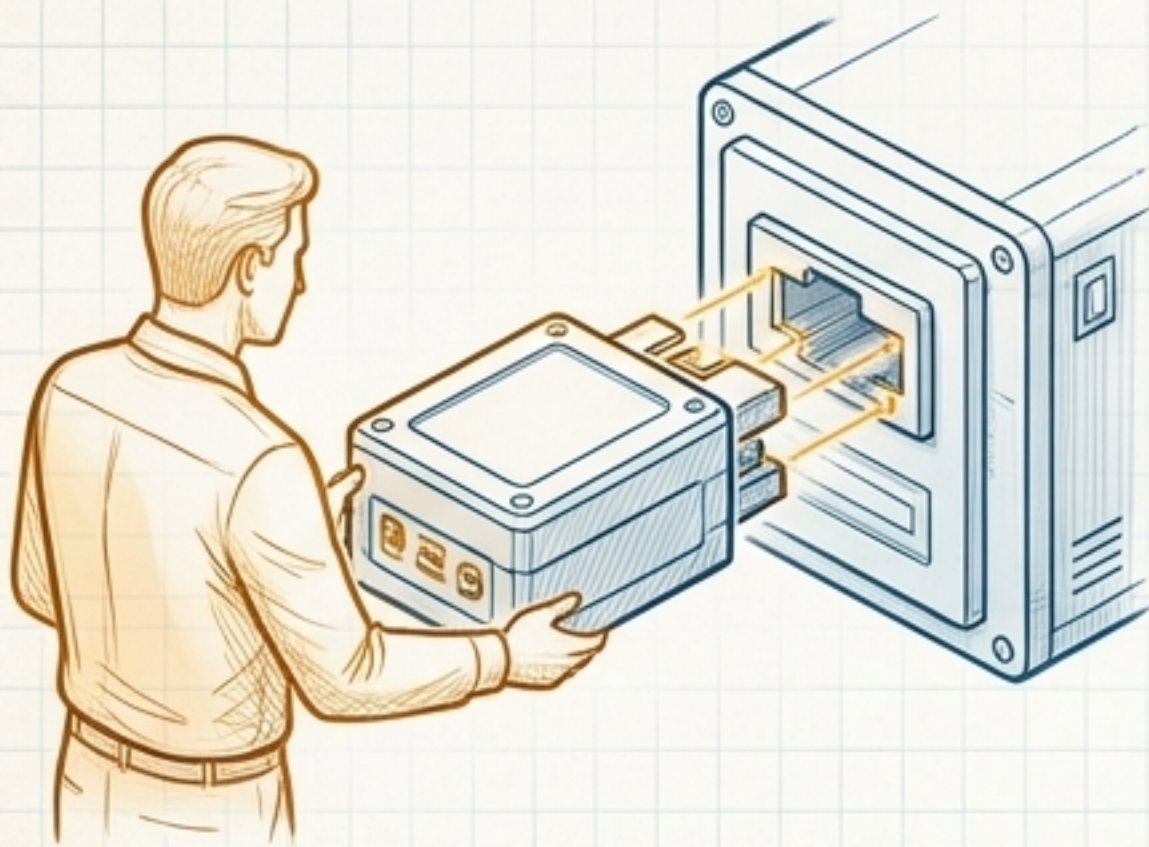
### Live Tools (Ability)

The agent checks the exact time \*now\*, queries the live database, and pings API health endpoints. It acts upon the real world.

An agent with **training data** can discuss a topic.  
An agent with a **tool** can **act** on it.

The wire looks identical. What changes is your responsibility.

### Chapter 56: Consumer



The MCP Protocol

### Chapter 57: Producer



#### Key Responsibilities:

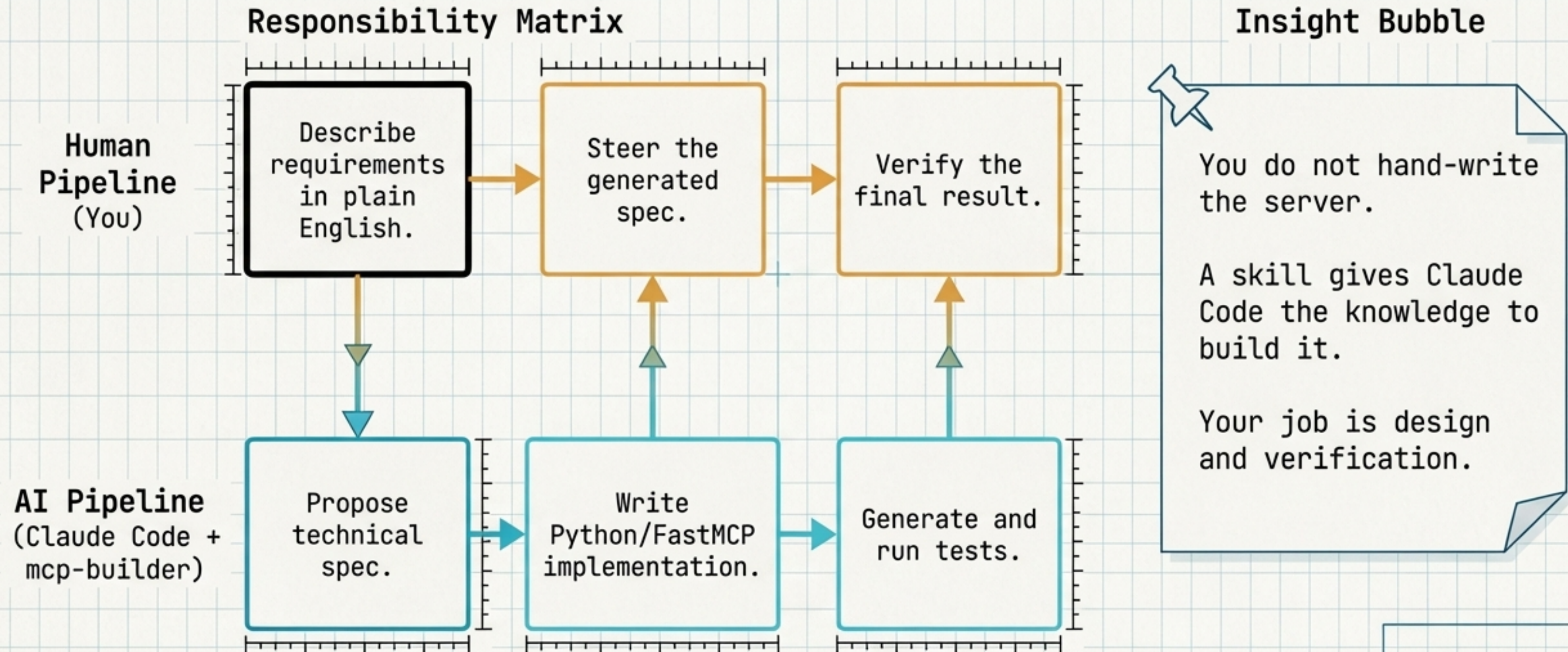
- ✓ JSON Configuration
- ✓ Gateway Restarts
- ✓ Verifying visibility

MCP does not care which side you sit on.  
You are moving from plugging in someone else's hands to building your own.

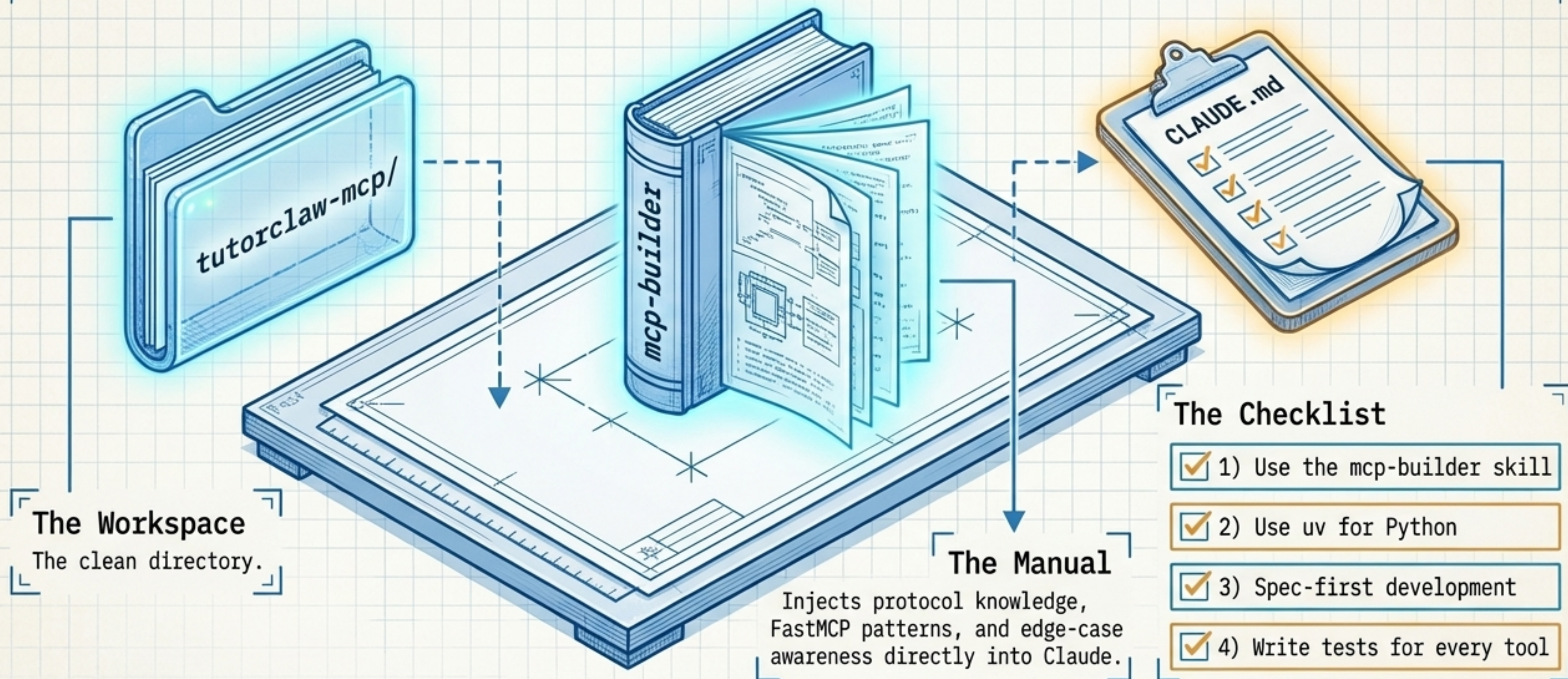
#### Key Responsibilities:

- ✓ Designing the spec
- ✓ Writing tool descriptions
- ✓ Steering the AI builder

You are the general contractor. Claude Code is the licensed electrician.





# The workshop before the work.

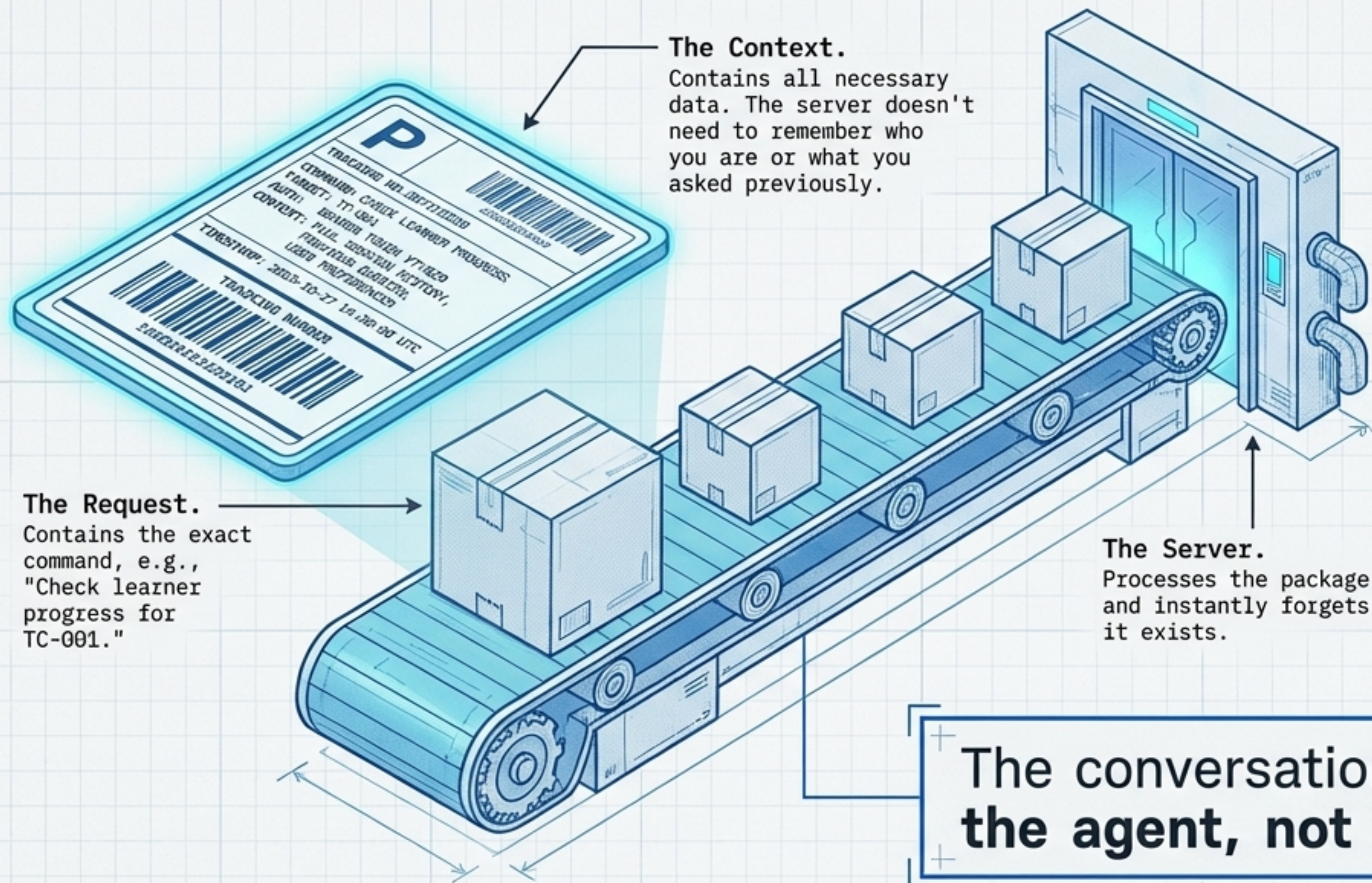


Setup is not overhead. Setup is the work.

# Evaluating your transport options.

Transport Type	Key Characteristic	Verdict
SSE	Status: <b>Deprecated</b>	Do not use for new projects. 
stdio	Location: <b>Local Only</b>	Great for <b>same-machine</b> prototyping, limits external scaling.
Streamable HTTP (Stateful)	Memory: <b>Tracks Sessions</b>	<b>High complexity.</b> Prone to session leaks. Use only when multi-step memory is strictly required.
 Streamable HTTP (Stateless)	Memory: <b>None</b>	<b>**RECOMMENDED**.</b> Clean, scalable, self-contained.

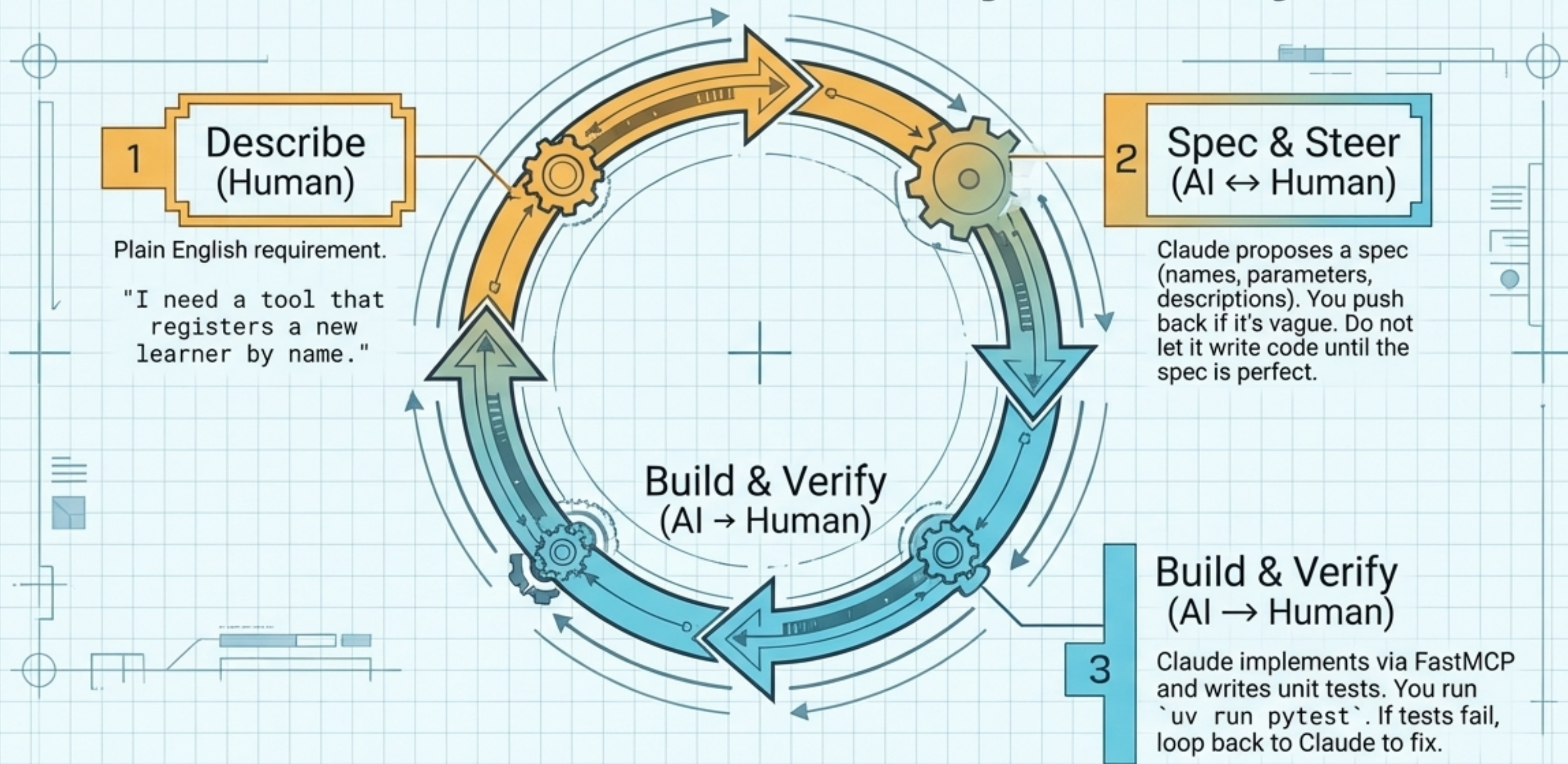
# Why stateless streamable HTTP wins for agents.



## Key Architecture Benefits

- No session cleanup timers.
- No sticky routing.
- Scales naturally across multiple instances.

# The Describe-Steer-Verify build cycle.



# The tool description acts as a routing mechanism.



## The Vague Spec

```
{  
  "description": "Registers stuff."  
}
```



Agent guesses, hallucinates, or **ignores** the tool **entirely** because it lacks selection criteria.



## The Specific Spec

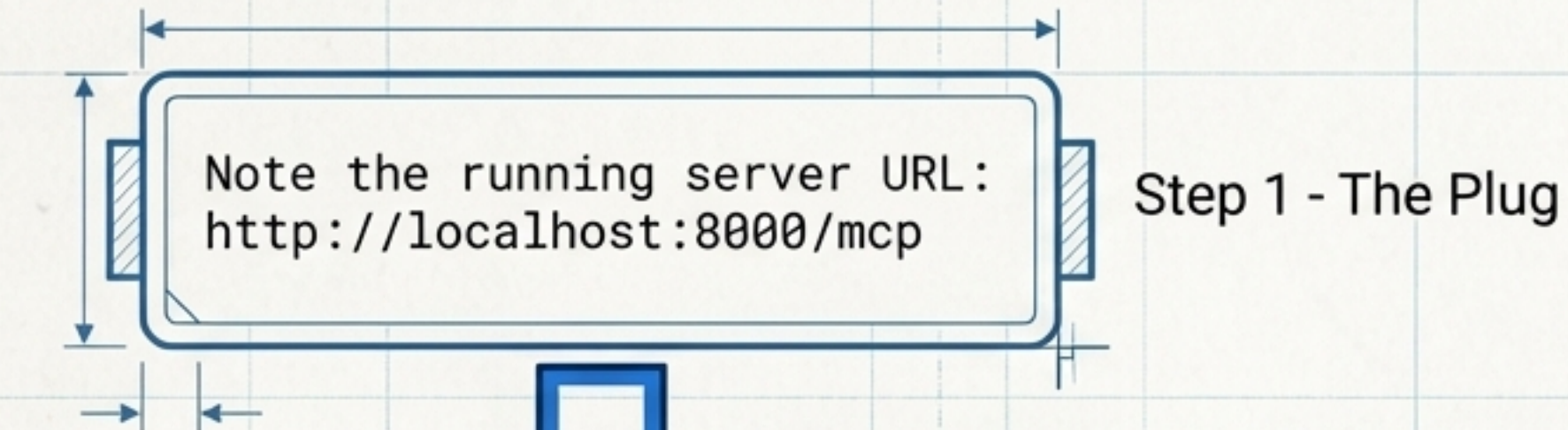
```
{  
  "description": "Register a new learner by  
  name. Call this when a user wants to sign  
  up or create a new learning profile."  
}
```



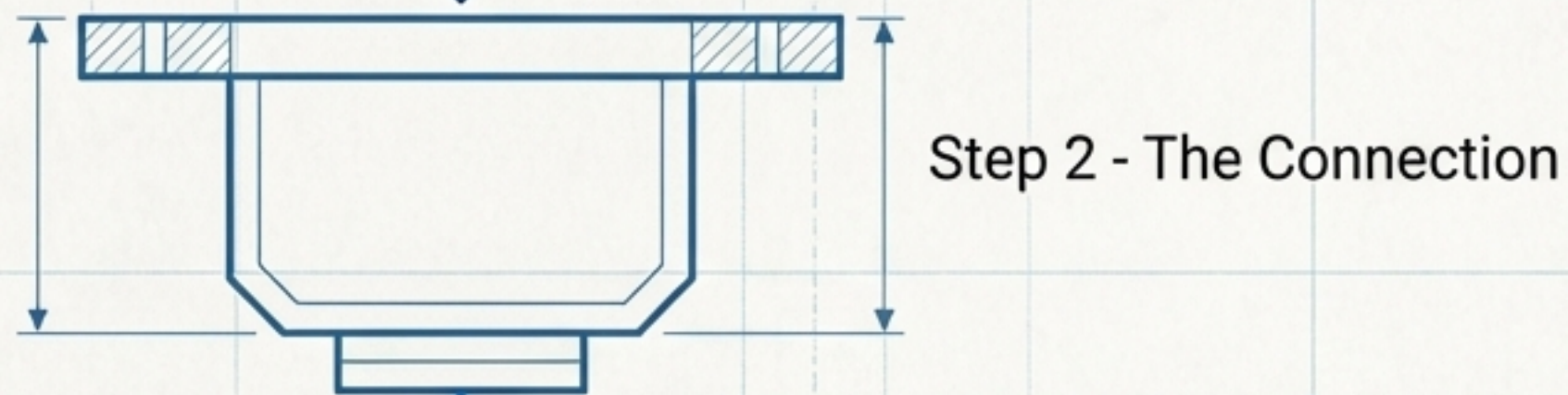
Exact routing. The agent knows precisely when to fire the `register_learner` tool.

**The description matters more to the agent than the code inside the tool.**

# Wiring the custom server to the agent.



```
openclaw mcp set tutorclaw http://localhost:8000/mcp  
--transport streamable-http
```

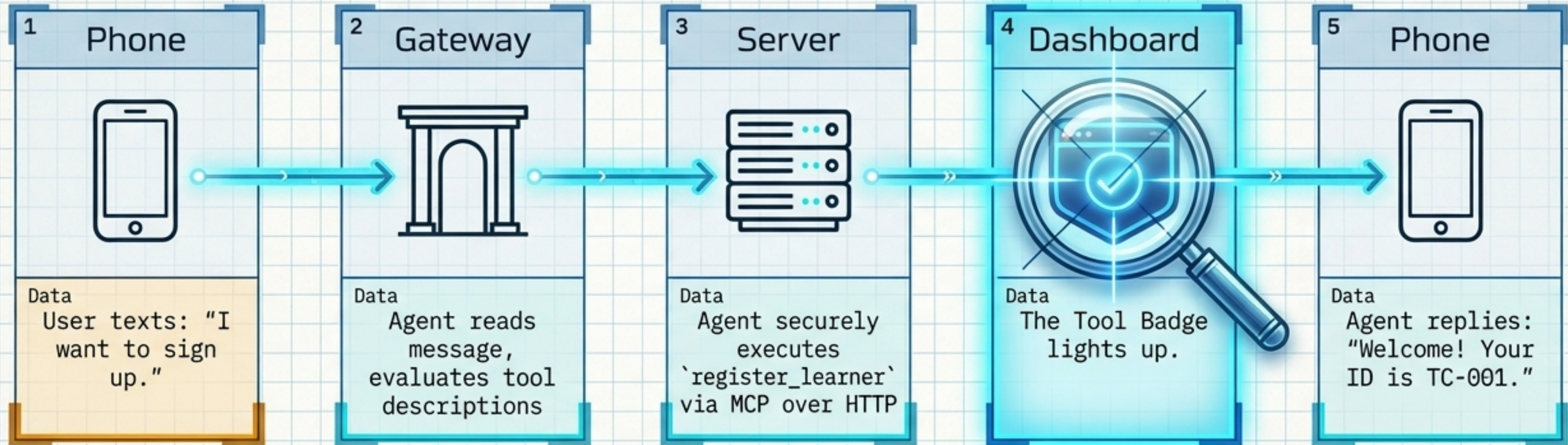


Step 3 - The Activation

```
openclaw gateway restart
```

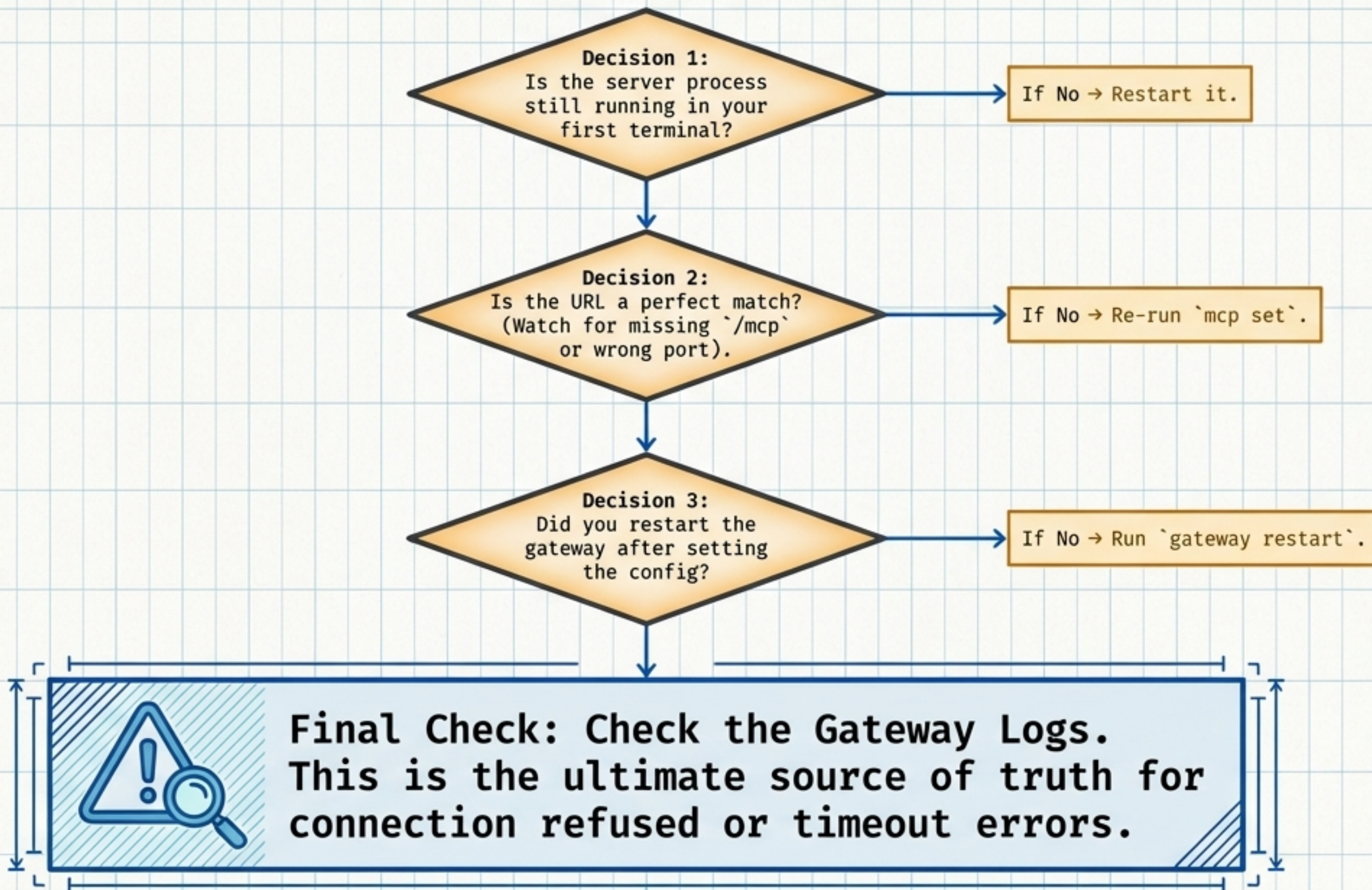
**! CRUCIAL:** Config is read on startup, not live.  
If you skip the gateway **restart**, your agent remains blind to the new tool.

# End-to-End Verification

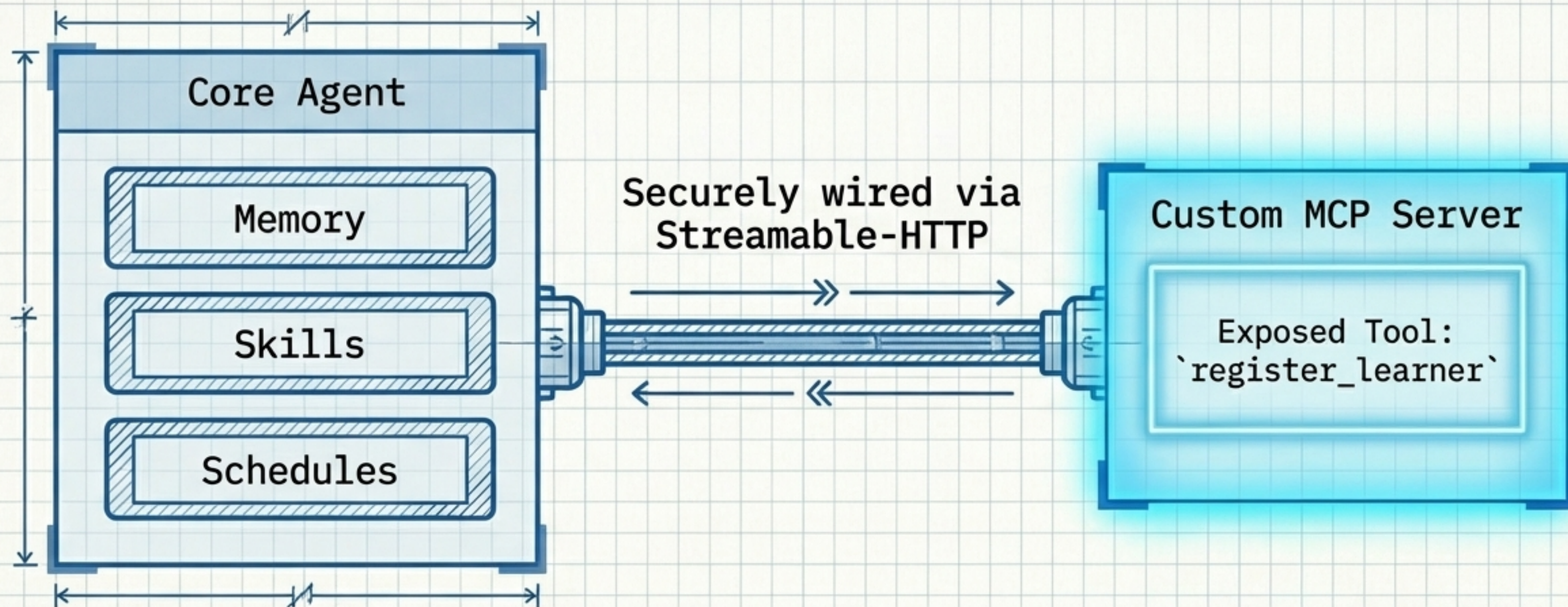


A text response is not proof. The dashboard tool badge is the absolute source of truth that execution occurred.

# The diagnostic checklist for silent connections.



# The fully equipped AI employee.



You now have an agent that not only knows your business domain, but has the custom-built hands to act on it.  
Every new tool you need follows this exact cycle.