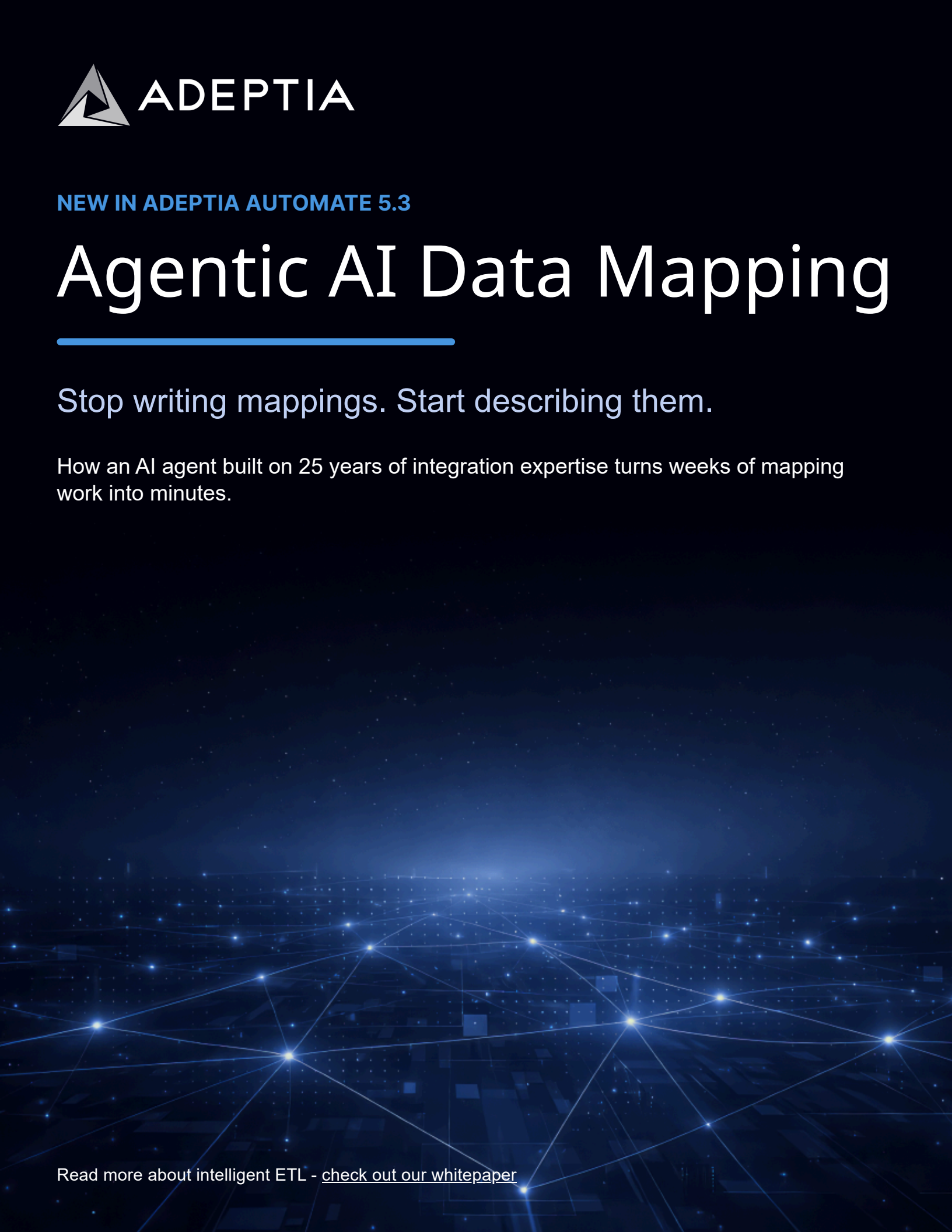
ADEPTIA

NEW IN ADEPTIA AUTOMATE 5.3

Agentic AI Data Mapping

Stop writing mappings. Start describing them.

How an AI agent built on 25 years of integration expertise turns weeks of mapping work into minutes.



Read more about intelligent ETL - check out our whitepaper

THE FIRST MILE IS THE HARDEST MILE

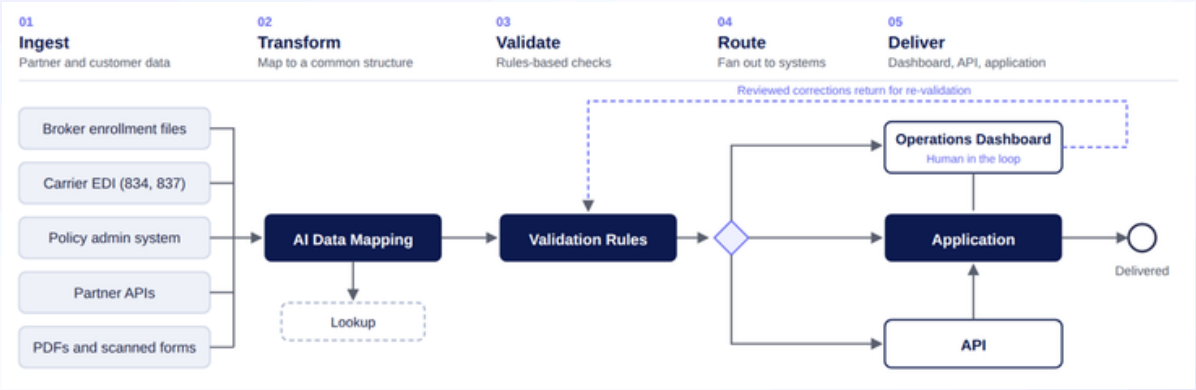
Every new partner means another map to build

Traditional ETL was built for predictable, structured data moving between systems you already know. Real enterprise data doesn't work that way. Your partners and customers run different applications and versions, each one sends data a little differently, and it keeps changing. The external data at the start of the pipeline is where things break first.

Older formats like EDI and newer ones like XML and JSON each solved part of the problem. The spread of APIs, data standards, and access methods has added new ones.

> **Scale that to thousands of partner connections across dozens of document types, and mapping becomes a standing backlog.**

That backlog delays new customer implementations and slows revenue. You either solve it with scarce integration staff and consultants, or you push the work onto your customers' IT teams.



A typical multi-source integration. Data from many partners and systems must be mapped into a common structure before it can be validated, routed, and delivered. Every new source adds another map to build and maintain.

Manual Data Mapping Is Tedious, Cumbersome, and Repetitive

Manual map authoring has been the default approach to B2B data integration for decades.

Many organizations have built libraries of thousands of hand-built maps, and some have tens of thousands, often running on software that is at or near end-of-life. The effort and cost of creating and maintaining those maps hasn't changed. They are the lifeblood of B2B integration and a constant drag on IT productivity at the same time.

The specialists who can build them are scarce, expensive, and needed elsewhere in your data ecosystem. When every new mapping waits on them, the integration team becomes the bottleneck, and business growth waits with it.

How AI Is Changing Data Mapping

As AI matures, much of this mapping work can be automated.

The first wave of AI mapping tools offered suggestions: field-by-field recommendations backed by confidence levels, each with a rationale and possible cautions. A tool might recommend a mapping by observing a similar one built for a comparable trading partner or customer. Suggestions automated many steps and freed IT experts for more productive work, but a person still had to work through every mapping.

The next step is an AI agent that does the work itself. Rather than assisting a person through a manual process, the agent builds the mapping from a plain-language description, asks clarifying questions when it needs more information, and lets you validate the result before you publish it.

> **The shift is from AI that assists a mapper to AI that builds the mapping.**

Weeks → Minutes
Typical time to a working mapping design

Zero
AI cost or latency at runtime. The agent works at design time only.

4
AI providers to choose from, on your own account.

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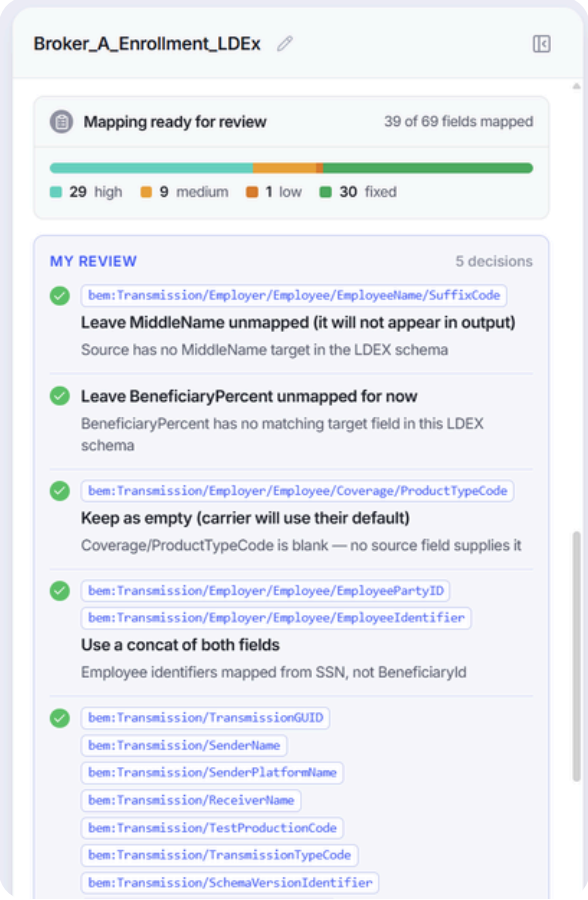
From Suggestions to an Agent: The Adeptia Path

AUTOMATE 5.1	AUTOMATE 5.2	AUTOMATE 5.3 · NOW
Suggestions	**Suggestions, extended**	**An agent builds it**
AI recommends a mapping rule for each target field, and a person accepts or rejects each one.	Richer context through file uploads and persistent chat history improves the quality and speed of suggestions.	The agent builds the complete mapping from a plain-language request, asks what it needs to know, and validates the result.

How Agentic Data Mapping Works

What used to take a specialist weeks can now take minutes. The process works in four stages:

- → **Describe:** Tell the agent what you need in plain language, and upload a sample data file for richer context.
- → **Build:** The agent scans the source and destination schemas and builds the mapping, drawing on 25 years of Adeptia integration expertise, established mapping rules, and everything it has learned from your previous mappings. When it needs more information, it asks.
- → **Validate:** Run real or sample data through the mapping, end-to-end or down to a single field, and see the output before it ever touches a live process.
- → **Publish:** The finished mapping goes into production like any other.



The agent reports how confident it is in each mapped field and brings the decisions that need a person's judgment, such as source fields with no match in the target, back for review.

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Self-Learning That Starts on Day One

Most AI mapping tools start cold. Adeptia's agent starts with institutional memory.

The AI Mapping agent is built on 25 years of real-world mapping experience across insurance, financial services, healthcare, and other data-intensive industries: the formats, standards, and business rules Adeptia has worked with in enterprise integrations. It doesn't need to be onboarded. It already knows the job.

Built-in Industry Expertise

- → 25 years of Adeptia mapping patterns and standards
- → Maintained by Adeptia and available from your first mapping
- → No setup or training required

Your Own Self-Learning Layer

- → Learns automatically from every mapping your team builds
- → No manual tagging or curation
- → Private to your organization and isolated in its own environment
- → Add your own reference documents to tailor it further

> **Ask any AI mapping vendor one question: has your agent actually done this before?**

Built for Agents, Not Just People

The same tools that power the AI Mapping interface are available through Adeptia's native MCP server. Your own AI agents can create, validate, and manage mappings directly, so mapping becomes one step in a larger, agent-driven integration process instead of a manual handoff.

That's what makes Adeptia's approach agentic rather than a chatbot bolted onto a mapping screen: agents that act, on the platform AI agents can actually drive. And because every published mapping runs as compiled, native code, there's no AI in the loop at runtime, only at design time.

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Why It Matters

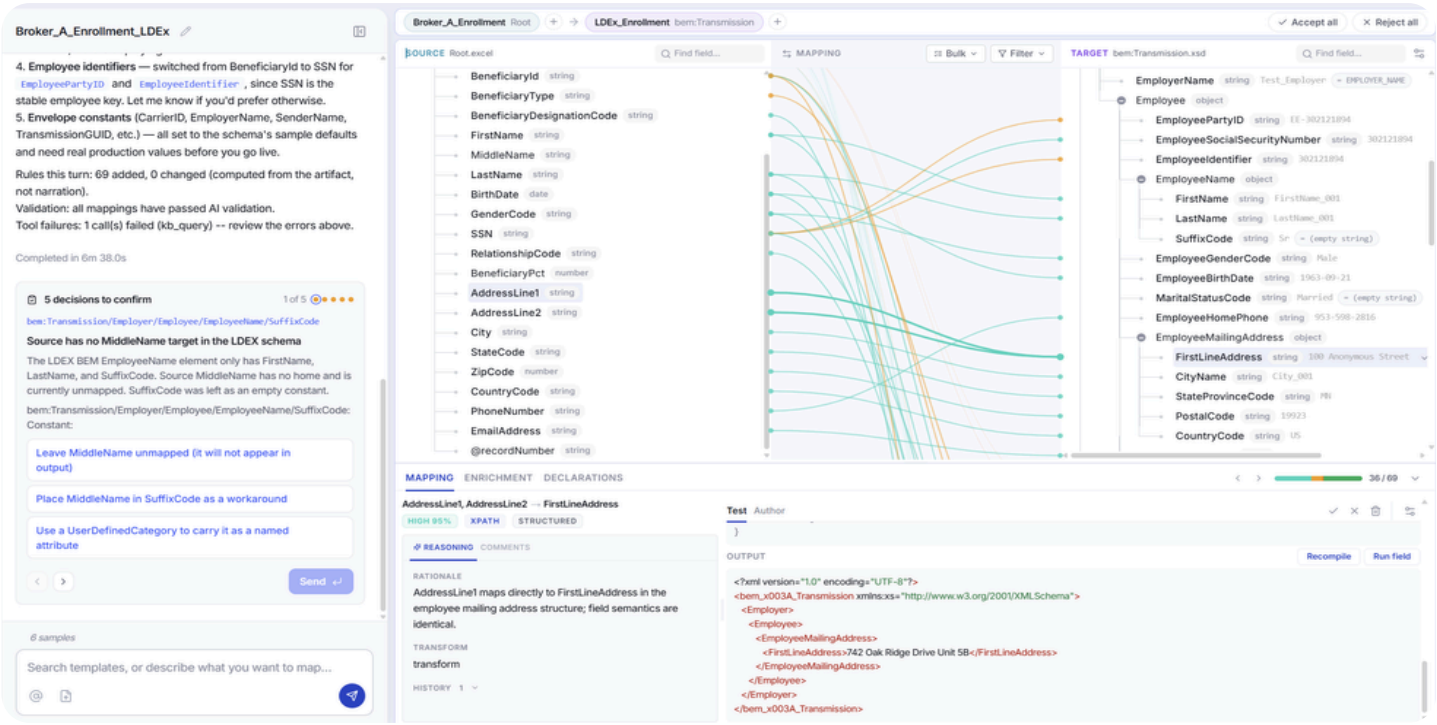
- **Weeks become minutes:** The time to a working mapping design drops from weeks of specialist effort to minutes.
- **Mapping opens up to the whole team:** Business users who previously depended on engineering can build mappings directly, removing the most common bottleneck to onboarding new trading partners.
- **Every mapping makes the next one better:** The 100th mapping benefits from everything learned building the previous 99, automatically.
- **Mapping becomes part of automated pipelines:** Your own AI agents can build and manage mappings as one step in a larger integration process.

What to Look For in an AI Data Mapping Solution

Not every AI mapping approach is built for enterprise B2B integration. A few questions separate the ones that are:

- **Has the AI done this before?** An agent that starts cold has to learn your industry on your time. Look for one built on real-world mapping experience in your industry from day one.
- **Is AI involved at runtime?** The strongest approach uses AI only at design time. Published mappings should run as compiled, native code, with no added latency, no ongoing model cost tied to how often a mapping runs, and no new operational risk.
- **Can you validate before you publish?** You should be able to test any mapping with real or sample data, down to a single field, before it goes live.
- **Is the output transparent?** Generated mapping code should never be a black box. Power users need to be able to open and edit it directly, and the traditional mapping experience should remain available for anyone who wants full control.
- **Can your own AI agents drive it?** If mapping tools are only available through a screen, mapping stays a manual step. Look for tools your own agents can call directly.
- **Can you choose the AI model?** Look for support for multiple providers using your own account and API key, so you can pick the provider whose data-handling policies fit your requirements.
- **Is your data isolated?** What the system learns from your mappings should stay in your own isolated environment, ideally with a self-hosting option.

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Every mapping is visible and testable. Each field shows its confidence level and the reasoning behind it, and any field can be run against sample data to see the exact output before publishing.

Experience Profound Productivity Gains with AI Data Mapping

When mapping no longer depends on scarce specialists, business users can connect new customers and partners themselves.

Mappings can also be built into trading partner profile templates, so business users can perform self-service integration by assigning new connections to those pre-built templates.

> **Predefined templates can include intelligent AI mappings, transaction types, secure data access methods, and other aspects of B2B integration.**

Instead of waiting weeks, or even months, for the mappings behind a new business relationship, your teams can bring new partners and customers online through self-service integration. New integrations ship faster, and so does the revenue that depends on them.

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AI Data Mapping with Adeptia



Adeptia has spent 25 years building B2B data integration, and its AI Mapping agent brings that experience together with each of the capabilities above. Users describe the mapping they need, and the agent builds it, asks clarifying questions, and validates the result before publishing. Published mappings run as compiled, native code with no AI at runtime.

The agent runs on Anthropic, OpenAI, Azure OpenAI, or AWS Bedrock, using your own account and API key. What it learns from your mappings stays in your own isolated environment, and if you self-host, Adeptia has no access to it.

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Estimated effort per deployment, by project stage. Across schema analysis, field mapping, testing, and go-live, AI mapping cuts roughly 48 hours of manual work to about 6.5.

Adeptia Customer Results

98% faster onboarding
Voya Financial

90% reduction in switchover time
UNUM

Are Your AI Initiatives Stuck Becuase Your Data Isn't Ready?

Watch the recording of our latest webinar: AI is Only as Good As Your Data

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Frequently Asked Questions

What is AI Mapping in Adeptia Automate 5.3, and how is it different from before?

AI Mapping lets you build data mappings by describing what you need in plain language. An AI agent builds the mapping, asks clarifying questions when it needs more information, and lets you validate the result with sample data before you publish it, with no coding knowledge required to get started. Earlier releases offered AI-assisted suggestions inside a manual workflow; in 5.3, the agent performs the work directly.

Does using AI at design time affect performance or cost once a mapping is running?

No. The AI agent is involved only while you're building a mapping. Once published, mappings run as compiled, native code with no AI involved at runtime, meaning no added latency and no ongoing AI-related cost tied to how often a mapping executes.

Can we choose which AI provider powers these features?

Yes. Adeptia supports Anthropic, OpenAI, Azure OpenAI, and AWS Bedrock. You use your own provider account and API key, and you choose the provider whose data-handling policies best fit your organization's requirements.

Is our data used to train a shared model?

No. What the agent learns from your mappings stays in your own isolated environment, a fully separate instance rather than just separate permissions. If you self-host, Adeptia has no access to it at all.

Do we have to use the new AI Mapping experience?

No. The traditional mapping experience remains fully available, and generated code is never hidden. Any user with the right role can open and edit it at any time.

Can our own AI agents build mappings?

Yes. The tools behind the AI Mapping interface are available through Adeptia's native MCP server, so your agents can create and manage mappings as part of a larger automated workflow.

> **See the AI Mapping agent work on your own data. Request a demo.**
>
> *Want a quick read on where you stand first? Try the AI Readiness calculator at adeptia.com/ai-readiness.*

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