

Z/OS AGENTIC AI · BATCH + INTERACTIVE WORKSPACE

Connect/AI

AI Inference for z/OS — Any Model. Zero Assembly.

Enterprise AI on z/OS — scheduled in batch or interactive at your desk, secure and agentic. Powered by Connect/Web, the native z/OS web foundation.

Platforms z/OS · Linux x86 · Windows · macOS

Native Z/OS AGENTIC AI PLATFORM	No JVM NO MIDDLEWARE	Zero APP CODE CHANGES	3 INFERENCE MODEL TARGETS	SAF ACCESS CONTROL	TLS NATIVE Z/OS END TO END	5 OUTPUT DESTINATIONS
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A complete, self-inclusive integration layer — **you bring the model, Connect/AI handles the rest.** Point it at your inference model — mainframe-resident (e.g., IBM Granite via vLLM on your own LPAR), your own local model, or a cloud provider like Claude, OpenAI, or Grok — add a JCL step or open the workspace, and run.

Every Connect/MP license already includes governed MCP APIs for JES, Files, and 3270, plus a chat-only inference workspace. **Connect/AI adds what only Connect/AI delivers** — agentic tool use in the workspace, and native batch agentic inference invoked straight from JCL.

01 TWO MODES. ONE SECURE ENVIRONMENT.

Batch

EMBED AI INTO YOUR Z/OS BATCH JOBS — ON YOUR TERMS

Add powerful inference directly into existing batch workflows with **zero application changes**. A simple JCL step — EXEC PGM with DD statements — sends your data and receives a structured response. Existing JCL skills apply immediately.

Inference Mode — Conversation history is preserved automatically across steps, so each inference builds on the last: perfect for pipeline-style processing.

Agentic Mode — The same JCL step can launch a full reasoning agent. It plans, reads and analyzes z/OS resources (datasets, files, job output), observes, and iterates until the task is complete — entirely read-only, so nothing changes unattended.

Output & Routing — Results write to datasets, PDS members, or VSAM; formatted reports to SYSOUT; or route via Connect/Hybrid, SMTP email, and FTP — with full restart/recovery and SMF logging.

Interactive Workspace

LIVE AI CONSOLE ON Z/OS, DIRECTLY IN YOUR BROWSER

Give analysts, developers, and management real-time access to the same enterprise-grade AI engine from their desks. **No client software, no emulator, no VPN** — and no data leaves the mainframe unless you explicitly use an off-platform model.

Inference Mode — Interact conversationally with full session history. Explore ideas, refine prompts, and test against live mainframe data before moving them into production JCL.

Agentic Mode — Launch a complete reasoning agent from the workspace. It reasons, interacts with z/OS resources, and iterates — with your approval gating every write — all under your personal z/OS identity and SAF controls.

Agentic 3270 — Paired with Connect/3270, the agent mines live VTAM screen content (CICS, IMS, OMEGAMON) and drives multi-step 3270 workflows conversationally.

02 YOUR MODEL STRATEGY — WITHOUT LOCK-IN

- › **Mainframe-Resident Models** — run open-source models like IBM Granite via vLLM directly on your own z Systems LPAR for sovereign data control, lowest latency, and zero data movement.
- › **Local / Cloud Models** — access local and powerful external models (Claude, OpenAI, Grok) when you need specialized capabilities or higher intelligence. Different steps in the same job can use different model targets.
- › **Projects** — a single shared Markdown (.md) instructions file briefs every batch run and workspace session automatically, so institutional knowledge compounds instead of being re-explained.

ENTERPRISE-GRADE SECURITY

Connect/AI runs as a native z/OS process — every prompt, model interaction, and dataset carries the same **SAF access controls and audit policies** as your most critical mainframe workloads. Traffic to external model providers is automatically secured with IBM System SSL. On-platform inference satisfies **GDPR, HIPAA, PCI-DSS, and SOX** requirements that cloud-only AI pipelines cannot.

Any Model. Any Data. Batch or Interactive — Natively on z/OS.

One Product, Not a Project

Every other mainframe AI capability is a collection of components someone must design, integrate, license, test, and operate. Connect/AI arrives complete — no integration architecture to build, no middleware server, no specialist assembly required.

Native z/OS Agentic 3270

Connect/AI mines live VTAM screen content (CICS, IMS, OMEGAMON) and reasons over it — planning and driving multi-step workflows with your approval gating every write. Built on the MCP API already included with Connect/3270.

Data Sovereignty & Compliance by Design

Sensitive financial, healthcare, and government data never has to leave the mainframe. On-premises or mainframe-local inference satisfies GDPR, HIPAA, PCI-DSS, and SOX requirements that cloud-only pipelines cannot.

Dramatic ROI on Existing Investment

Rather than expensive cloud migration or re-platforming, Connect/AI extends the value of existing MIPS, licenses, and skills. AI capabilities are layered on top of proven infrastructure — not instead of it.

Seamless Batch Workflow Integration

No new runtime, no new ops model. AI inference becomes just another step in a production batch process — with full restart/recovery, SMF logging, and operational visibility inside your existing batch window.

Modernization Without the Risk

An incremental path: extract AI-driven insights from legacy systems while those systems remain the system of record. Connect/AI bridges old and new rather than forcing a binary choice.

External Agents & Applications Included

Governed MCP APIs for JES, Files, and 3270 ship with any Connect/MP license — no Connect/AI purchase required. Bring your own agent (LangChain, or integrations built on Claude or OpenAI) — or let Connect/AI run the agent natively, on the mainframe.

Empowers Mainframe Teams in the AI Era

Your model performs the inference — on Z or off-platform — while Connect/AI moves the data, returns the results, and enforces SAF authorization. Enterprise AI on mainframe data, with minimal disruption and full operational control.

03 THE WEB AI WORKSPACE — KEY CAPABILITIES

Multi-Step Reasoning	Breaks down complex tasks, plans, executes, observes, and loops until the goal is achieved — true agentic workflows from a single prompt.
Tool Use & Integration	Connects to Files, JES, and 3270 in real time — direct action on z/OS resources, with human-in-the-loop guidance mid-process.
Live Screen Interaction	Reads and navigates 3270 screens and extracts the data — agentic 3270 inference on live application content.
Projects & Shared Context	A named Project bundles shared .md instructions across many chats and runs — consistent results without re-explaining setup.
Model Flexibility	Switch between mainframe, local, or cloud models on the fly — balance cost, security, and capability per task.
Audit & Security	All actions run under the user's SAF identity with full logging — enterprise compliance, browser-based, nothing to install.

04 GETTING STARTED — SET UP IN MINUTES

Point Connect/AI at the model of your choice and you're done — no custom integration code, no separate connector to build or maintain. Then ask naturally:

- > "What JES jobs are currently running?"
- > "Open a 3270 session and get me to SDSF DA."
- > "Read SYS1.PARMLIB(EASY500) and summarise the key settings."

CONNECT/AI · DATA 21

Schedule a **Live Demo.**

See batch inference and the agentic workspace running on real z/OS — in under 30 minutes.

Founded in 1980, Data 21 Inc. is a veteran-owned enterprise software company headquartered in California. For over 45 years, we have delivered innovative, reliable, high-performance mainframe-centric solutions that power today's connected enterprise. At Data 21, the mainframe isn't a legacy constraint — it's a strategic foundation.

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