

NATIVE Z/OS · WEB 3270 ACCESS

 Connect/3270**Your 3270 Glass — Browser Accessible, AI Enabled.**

Native z/OS web access to your 3270 applications by default, with middleware-server deployment available where needed — nothing to install, full TN3270E protocol support. Powered by Connect/Web.

Platforms z/OS · Linux x86 · Windows · macOS**Native**Z/OS
ARCHITECTURE**Zero**WEB 3270 CLIENT
SOFTWARE**~50 ms**3270 CONNECT
TIME**API**3270 SCRIPTING &
AUTOMATION**Agentic**POWERED BY
REST API**SAF**ACCESS
CONTROL**TLS**

Z/OS SYSTEM SSL

Secure browser-based access to 3270 applications — **TSO, ISPF, SDSF, CICS, or any other green-screen application.** Connect/3270 runs natively on the mainframe by default, removing the requirement for extra servers and network hops — or deploys as a middleware server when native z/OS access isn't an option. Either way: no third-party vendor in the data path, no operational overhead from bolt-on approaches.

The Connect/3270 MCP API — structured 3270 screen data as JSON, callable from external AI agents, REXX, Python, and HTTP/CGI — is **included with any Connect/MP Suite license**. Add Connect/AI to unlock native z/OS agentic reasoning on top.

01 HUMAN ACCESS. MACHINE ACCESS. ONE NATIVE PRODUCT.**Web 3270 Access**

ACCESS FROM ANY BROWSER, ANYWHERE

Deliver browser-based 3270 access to any user on any device. **Nothing to install, nothing to manage on the endpoint** — no desktop emulator licenses, no plugins, no firewall rule for raw TN3270 ports. Just open a browser and connect.

On-Platform by Design — Unlike external gateway solutions, Connect/3270 keeps emulation on z/OS. Screen transactions travel directly between the browser and the mainframe with no intervening gateway — the shortest possible route, and a faster experience for high-volume operational workloads.

Full Emulation Fidelity — Complete TN3270E protocol support with device-type negotiation, terminal models Mod 2–5, extended color and highlighting, and concurrent sessions from any standard web browser.

Productivity Built In — Script recording and playback for 3270 workflows with no scripting expertise required, plus a customizable landing page tailored to your environment and branding.

Operationalize 3270 Data

STRUCTURED SCREEN DATA AS JSON — FOR AI, AGENTS & AUTOMATION

The Connect/3270 MCP API delivers 3270 screen data as **structured JSON** — including derived values computed at display time that exist in no underlying dataset — ready for AI inference.

Scriptable from Anywhere — Callable from REXX, Python, HTTP/CGI programs, external AI agents, and Connect/AI, it supports modern agentic workflows and traditional mainframe automation alike.

Bring Your Own Agent — External AI agents like Claude, OpenAI, or Grok can consume live screen data via the MCP API on any Connect/MP license — no terminal emulation or screen scraping required.

Agentic 3270 — Unlocked by Connect/AI — Add Connect/AI and the z/OS-native agent mines live VTAM screen content (CICS, IMS, OMEGAMON), reasons over it, and plans and drives multi-step workflows — with your approval gating every write.

02 DEPLOY WHERE YOUR ENVIRONMENT ALLOWS

- › **Native on z/OS by default** — the entire access path inside the mainframe security perimeter, with no distributed servers to manage.
- › **Middleware-server deployment when you don't control the LPAR** — for outsourced data-centers, rapid POCs, or staged rollouts, Connect/3270 also deploys on Linux x86, Windows, or macOS, connecting via TN3270. Either way, host access remains SAF-mediated and RACF-enforced.
- › **Start server-based, or start native** — move between them whenever your environment changes.

ENTERPRISE-GRADE SECURITY

3270 sessions can be secured using **z/OS System SSL** (OpenSSL on other supported platforms). Fully SAF-compliant — Connect/3270 inherits z/OS security and access control without additional configuration. Running native on z/OS, the entire security perimeter stays on the mainframe; running as a middleware server, host access remains SAF-mediated and RACF-enforced all the same.

Purpose-Built for the Mainframe, Ready for the AI Era.

Access from Any Browser, Anywhere

Secure 3270 emulation with no client software, no plugins, no desktop emulator licenses. Nothing to install, nothing to manage on the endpoint — just open a browser and connect, from any device.

Native z/OS by Default, Middleware When Needed

Connect/3270 runs directly on the mainframe by default, removing the requirement for extra servers and network hops — or deploys as its own middleware server when native z/OS access isn't an option. Either way: no third-party vendor in the data path, no bolt-on operational overhead.

Fewer Moving Parts, Fewer Failures

Keeping emulation on z/OS eliminates the third-party gateways and proxy layers that are historically the first to cause outages, performance degradation, or security gaps.

Lower Latency Where It Matters

Screen transactions travel directly between the browser and z/OS with no intervening gateway — the shortest possible route. High-volume operational workloads get a faster, more responsive user experience.

Simplify Your Emulation Estate

Consolidate a fragmented landscape of desktop emulator clients and external gateway products into one centrally managed, browser-delivered capability that is easier to secure, audit, and support.

Reduce Modernization Risk

Automate and augment legacy 3270 applications in place — no migration required. Automation and AI inference run at the emulation layer, preserving stability while incrementally modernizing.

Operationalize 3270 Data

The MCP API delivers screen data as structured JSON — including derived values computed at display time that exist in no underlying dataset — ready for AI inference, agents, and automation. Included with any Connect/MP Suite license.

Designed for the AI Era

The bridge between the 3270 world and the AI world — feeding live screen data to your own scripts and agents via the MCP API on any license, and to Connect/AI's native z/OS reasoning when you add it — without rewriting a single CICS program.

03 A GOLD MINE OF MISSION-CRITICAL DATA, SURFACED FOR AI

Unlocked with Connect/AI	Connect/3270 mines live VTAM screen content (CICS, IMS, OMEGAMON) and structures it; Connect/AI turns it into inference, agentic automation, and real-time decision support — making every green-screen process a candidate for AI, without changing the underlying application.
Interactive AI Workspace	Structured screen data feeds directly into Connect/AI's browser-based workspace, hosted natively on z/OS by Connect/Web — analyze live screen content, run real-time inference, and trigger multi-step agentic workflows without a batch job.
Institutional Knowledge, Without the Scripting	Where REXX or Python scripts require someone to author the automation up front, an analyst reasons over live screen state conversationally and acts on it directly — with your approval gating every write.
Your Choice of Model	Agentic reasoning runs on your choice of mainframe-resident, local, or external model such as Claude, OpenAI, or Grok — balancing cost, security, and capability per workload.

04 EMULATION ESSENTIALS

Protocol	Full TN3270E for device-type negotiation and enhanced session control.
Display	Terminal models Mod 2 – Mod 5, extended color, and extended highlighting.
Sessions & Productivity	Multiple simultaneous user sessions from any standard browser; script record & playback; customizable landing page.

CONNECT/3270 · DATA 21

Schedule a **Live Demo.**

See browser 3270 access and the MCP API 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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