TIC TICSOFTWARE
Leading Modernization with AI

uLinga Nexus

AI Integration Gateway for HPE Nonstop Systems

Developed by Infrasoft, delivered and supported by TIC Software

Introducing uLinga Nexus

TIC Software and Infrasoft have a longstanding partnership delivering integration solutions for HPE Nonstop. uLinga Nexus builds on that foundation: a modern, standards-based way to expose Nonstop applications and data through REST APIs and standard integration protocols, running natively on Nonstop, with support for AI-driven use cases.

What it is

A native Nonstop gateway that exposes existing applications through REST APIs and the Model Context Protocol (MCP), the emerging standard for AI access to enterprise systems.

What it does

Lets AI models authenticate, discover available capabilities, and interact with Nonstop applications and data — with no changes to application logic.

Why uLinga Nexus

REST enablement of Nonstop applications

AI and external systems reach legacy applications over standard HTTP/JSON, with built-in conversion to the DDL or ISO8583 formats those applications expect.

Native to Nonstop

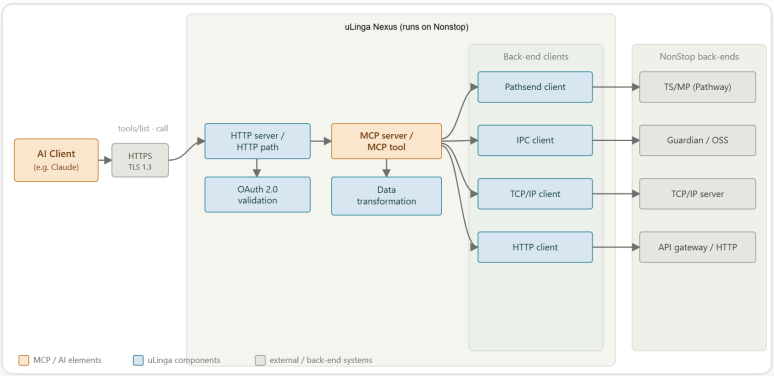
Runs as a Guardian process pair rather than via interim servers — no added single points of failure, and lower latency in AI-powered workflows.

A unique architectural approach

Multi-layer by design: MCP for AI clients, a transformation layer for JSON to DDL, and a backend layer for Pathway, Guardian, OSS and external endpoints.

Secure by design

Access is controlled at the authentication layer, supporting OAuth 2.0 and JWT token validation, with TLS encryption in transit.



uLinga Nexus architecture: from AI client to Nonstop back-ends via MCP, OAuth 2.0 validation, and data transformation.

✓ **Reach decades of transactional data without rewriting a line of it.** uLinga Nexus removes the need for extensive custom development, so you can deploy AI-powered fraud detection, conversational interfaces and intelligent automation against live Nonstop data — without sacrificing reliability, security or performance.

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uLinga Nexus

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Modern access to Nonstop applications and data.

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Features

REST API enablement
Expose existing applications as REST APIs, with no change to application logic.

MCP support
A standardized interface to Nonstop for AI-driven applications.

Data transformation
Bidirectional JSON to DDL binary structures, including ISO8583.

Security and authentication
OAuth 2.0, JWT token validation and TLS encryption.

Web-based management
HTML5 and WebSockets browser interface, no client software.

Command-line interface
Interactive CLI with obey/script files for automation.

Online configuration
Apply configuration changes dynamically, without downtime.

Tracing and monitoring
Built-in tracing and logging for troubleshooting and monitoring.

Use cases

Use case	What it enables
REST APIs for legacy applications	Expose Pathway, Guardian IPC or TCP/IP applications as REST APIs for AI platforms, mobile apps and cloud services — without code changes.
AI-powered fraud detection	AI agents analyze transaction patterns from real-time Nonstop data, detecting anomalies in mission-critical financial transactions.
Conversational AI interfaces	Conversational AI triggers Nonstop business processes and retrieves data as naturally as calling any other API.
Intelligent automation	AI-assisted decision support drawing on decades of transactional history held in Nonstop databases.

Benefits

- ✓ **Native Guardian implementation** gives high performance and proven uLinga reliability for AI integration.
- ✓ **A simpler, standards-based route** from AI applications to Nonstop systems.
- ✓ **No additional software or server platforms** — no new single points of failure, less infrastructure complexity.
- ✓ **No application changes required**, minimizing risk and effort.
- ✓ **Automated configuration tools** set up data transformations from the web interface, reducing time and expertise required.

Technical specifications

PLATFORM
HPE Nonstop, Guardian process pair

PROTOCOLS
MCP, REST over HTTP/HTTPS, JSON

DATA FORMATS
JSON, DDL binary structures, ISO8583

SECURITY
OAuth 2.0, JWT validation, TLS

BACK-ENDS
Pathway (TS/MP), Guardian IPC, OSS, TCP/IP, HTTP

MANAGEMENT
Web (HTML5/WebSockets) and CLI with obey files

Connect AI to your Nonstop systems.

Expose the applications you already run — securely, natively, and without rewriting them.

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