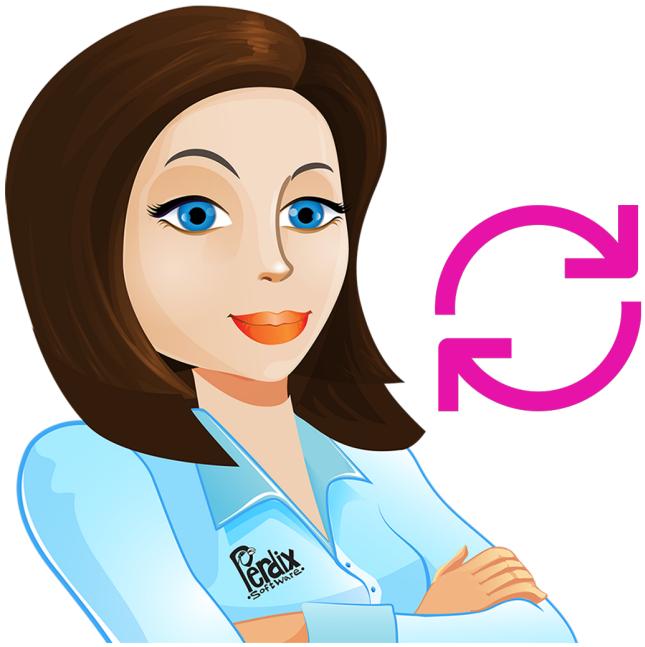
MOLI Integrations: The MOLI Broker

a lightweight local service for on-premises integrations

On-premises integrations — automatic, current, and secure.



The MOLI Broker is a small background service installed on any server with network access to your ERP, DMS, or other on-premises system. It wakes on a configurable schedule, contacts your MOLI System over standard HTTPS, and performs a structured data exchange — then goes back to sleep.

For operations and quality teams: job data and documents stay synchronized automatically — no manual imports or exports. For IT: a single service to deploy, no inbound firewall rules, no VPN, nothing to babysit.

WHAT THE BROKER DOES

- Runs as a **persistent background service** — installs once, starts automatically at OS startup
- **Wakes** on a configurable schedule (default: every 15 minutes) to exchange data with MOLI
- **Downloads** fresh integration logic, configuration, and data from your MOLI system each cycle
- **Queries** your ERP, DMS, or other local system for the data MOLI needs, and delivers it back to MOLI
- **Logs** all activity to rotating files or the system journal; restarts automatically on failure
- **All traffic is outbound HTTPS only** — no inbound connections, no VPN, no firewall rule changes

HOW A MOLI BROKER EXCHANGE WORKS

STEP 1
Fetch Handler
The Broker downloads **fresh integration logic** from MOLI. Handler code runs in-memory — behavior updates require no on-premises changes.

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STEP 2
ASK
A **GET to MOLI** returns a manifest: what data is needed and for what time window. The handler queries the local ERP or other system.

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STEP 3
TELL
A **POST to MOLI** delivers the collected data. MOLI acknowledges; the handler may write back additional data to the local system.

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THEN
Sleep
The Broker sleeps for the configured interval (default **15 minutes**, adjustable by MOLI).

Then the cycle repeats...

What about cloud services?

The MOLI Broker is for on-premises integrations only. For integration with cloud services outside your intranet, MOLI Integrations can be structured as a "Connector" module instead. Depending on the specific integration, The MOLI Connector runs scheduled logic directly on your MOLI System, or is installed through the integrated cloud service's own integration configuration section or marketplace.

KEY IT CONSIDERATIONS

Network & Security

- The MOLI Broker makes **outbound connections only** — HTTPS/443 to your MOLI instance only
- No inbound traffic, no open ports, no VPN tunnels required
- Bearer token (API key) provisioned once in MOLI admin
- Dedicated service account — no admin privileges
- All data encrypted in transit via TLS
- IP and key-based access control of Broker API endpoints

Configuration & Operations

- Downloaded "Broker Configuration JSON" file defines per-integration `key` and `url`
- Configuration stored in platform-standard locations
- Exchange interval timing controlled by MOLI; adjustable at runtime — no service restart required
- Logging: On Windows and macOS: to platform-standard locations. Other platforms: rotating 10 MB × 5; configurable

DEPLOYS ON ANY PLATFORM

Windows Service

- Native Windows Service managed by the Windows Service Control Manager (e.g. `services.msc`)
- Bundled installer and uninstaller included
- SBOM and SHA-256 checksum included with every release

Linux — systemd or OpenRC

- Python script + systemd unit or OpenRC init file
- Runs as dedicated `molibroker` system user and group
- Install and uninstall shell scripts included

macOS System Daemon

- Python script + launchd plist (`com.perdixsw.molibroker`)
- Runs as dedicated `molibroker` system user and group
- Install and uninstall shell scripts included

Python — Custom Use

- Plain Python script + `requirements.txt`
- Suitable for custom environments or unique infrastructures
- Identical exchange protocol to all platform-specific builds
- Includes a Bruno™ API Client Collection for testing

SUPPORTED TECHNOLOGIES

The MOLI Broker supports integration with systems that use the following underlying technologies:

» **Databases**, via ODBC:
- » Firebird®
- » IBM® Db2
- » Microsoft® SQL Server
- » MySQL® / MariaDB®
- » Oracle® Database
- » PostgreSQL®

» **Other Protocols**:
- » HTTP / HTTPS
- » Modbus
- » MQTT
- » OPC UA
- » Serial / RS-232 (directly-attached devices)
- » System Library (e.g. DLL)

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Ready to connect your on-premises software to MOLI? **Let's talk.**

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