

Native-driver middleware that moves hundreds of tags per event 40× faster than OPC.*

Event Engine connects your PLCs straight to your databases — no OPC server, no ODBC layer. One event carries a whole structure in a single request, so the more it carries, the wider the gap.

NATIVE DRIVERS · NO ODBC · OPC WHEN YOU NEED IT

FREE TRIAL DOWNLOAD >

01 One hop between your PLCs and your data — not four

DIRECT DRIVE

CONTROL / PLC

Rockwell · Siemens · Modbus
Native driver · UDT-aware
REST trigger in

DIRECT DRIVE

Event Engine

Native PLC + database drivers · One process · No middle servers

NO ODBC

DATA / ENDPOINTS

SQL Server · Oracle
Label printers · SMTP

What ODBC adds: another driver layer to install, version, and troubleshoot on every server — plus the latency of every extra handshake. Event Engine drives both ends natively. Controllers outside the native set reach Event Engine over OPC UA — same engine, same configuration.

02 How one Event Engine event works

ONE EVENT, END TO END

1

Trigger & Read

A PLC tag — or an inbound REST call — fires the event; Event Engine reads entire UDTs in one structured request.

2

Exchange

Native database drivers call your stored procedures directly — no ODBC in the path.

3

Return Sets

Variable-length result sets come back written straight into a matching PLC data structure.

4

Write Back & Ack

Structured data lands in the PLC or goes out to label printers or SMTP server — and the controller knows the record committed.

03 Core capabilities

Native PLC Drivers

Direct Rockwell, Siemens, and Modbus comms. OPC only where a controller needs it.

Native DB Drivers

Built-in drivers for SQL Server and Oracle — no ODBC layer to maintain.

UDT Integration

Break the tag barrier — 10 members × 100 instances is one definition, not 1,000.

Multiple Result Sets

Many variable-length sets in one event, each written into its matching structure.

Burst Tolerance

Connections stay warm, so a surge is handled at database speed, not login speed.

Label Printing

Drive label printers directly as a first-class endpoint — no add-ons.

Online Changes

Add and edit events in a browser, without stopping or restarting services.

Event Health

Every event judged against its own learned baseline — drift, failure trends, and shrinking timeout margin.

04 Less infrastructure between you and your data, more throughput

LICENSING

Priced by event, not by tag

SIMPLICITY

Fewer servers, configs, and layers

STRUCTURE

UDT-native, context-rich data

REACH

SQL Server, Oracle, label printers, SMTP

PROVEN UNDER LOAD

An automotive components manufacturer averaged 5 events/sec with bursts to 35. The bursts caused overtime faults with no assignable cause — about an hour of lost production a day. Event Engine absorbed them, consolidated several middleware instances onto one, and used fewer resources than the platform it replaced.

05 Nothing fails without warning — Event Engine is watching

BEFORE THE STOPPAGE

Its Own Baseline

No thresholds to guess at. Each event is judged against the level it normally runs at, learned from its own history — so drift, failure trends, and shrinking timeout margin surface while there is still time to act.

Told, Not Found

Findings open, escalate, and resolve on their own, and name which stage slowed down — tag collection, database connect, execute, write-back. Critical goes out at once, the rest as one daily digest. Nobody has to watch it.

COMPATIBILITY

Windows · SQL Server · Oracle · Rockwell ControlLogix / CompactLogix · Siemens S7-300/400/1200/1500 · Modbus/TCP · OPC UA

Download the free trial

factorydatasystems.com/event-engine

Let's connect your plant floor.

