



MEDIBRIDGE CONNECT • INTEGRATION ENGINE
UNIFIED DIGITAL ECOSYSTEM

THE CHALLENGE

Results that are re-typed are results at risk

Most labs and hospitals already have good systems. What they lack is a dependable way for those systems to talk to each other.



Analyzers that stand alone

Each analyzer speaks its own dialect. Without an interface, results are read off a screen or a printout.

COST skilled lab time spent copying numbers.



Reports that wait

Results sit on the analyzer until someone is free to enter and verify them.

COST slower turnaround for doctors and patients.



Silent failures

When a link drops or a system is down, messages can be lost and nobody is told.

COST missing results found late, by a phone call.



Transcription errors

Every re-typed value is a chance to mistype a result, swap a sample or miss a flag.

COST risk to patient safety, and rework.



Point-to-point spaghetti

Every new HIS, LIS or device becomes another custom interface to build and maintain.

COST each change re-opens a project.



Which one costs you most today?

Count it on your own bench: results typed by hand, reports waiting for entry, links that went quiet unnoticed.

WHAT IT IS

One integration layer between all your clinical systems

MediBridge Connect is a server that receives, checks, converts and routes clinical messages, with an operator console to set it up and watch it run.



01 Connect

Analyzers, HIS / EMR, LIS / LIMS, PACS, IoT devices and partner systems.



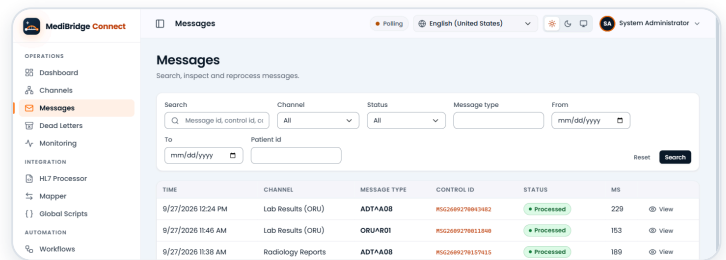
02 Convert

HL7 v2, FHIR R4, ASTM, DICOM and more, with a visual mapper and scripts.



03 Control

Live dashboards, message search, alerts, audit trail and role-based access.



The Messages screen of the operator console: real screen, shown with test data.

BUILT ON .NET 10 server · PostgreSQL · optional RabbitMQ · operator app for Windows, Android, iOS and macOS



In one sentence: results and orders move between analyzers, LIS and HIS automatically, safely and visibly, with nobody re-typing them.

WHO IT IS FOR

Built for the people who own clinical data flows



LAB DIRECTOR

Diagnostic labs

Connect analyzers to your LIS: results flow in with flags and QC kept apart, and the bench knows when a line goes quiet.



CIO / IT HEAD

Hospitals

One place to run HIS, LIS, PACS and device interfaces, with monitoring, audit and access control your IT team can own.



PRODUCT AND DELIVERY TEAMS

HIS / LIS vendors

Add analyzer and HL7 / FHIR connectivity to your product without building and maintaining your own interface engine.



ADMINISTRATOR

Hospital administration

Less manual entry, no reports waiting until someone is free to type them in, and a clear audit trail of who saw patient data.



Where MediBridge Connect fits

MediBridge LabCore + MediBridge Connect

For a laboratory run as its own business or network: Connect links its analyzers, HIS and LIS, and delivers analyzer results into LabCore.

MediBridge Connect

On its own, for HIS / LIS vendors adding analyzer and HL7 / FHIR connectivity to their product, and for hospitals linking the HIS, LIS, PACS and devices they already run.

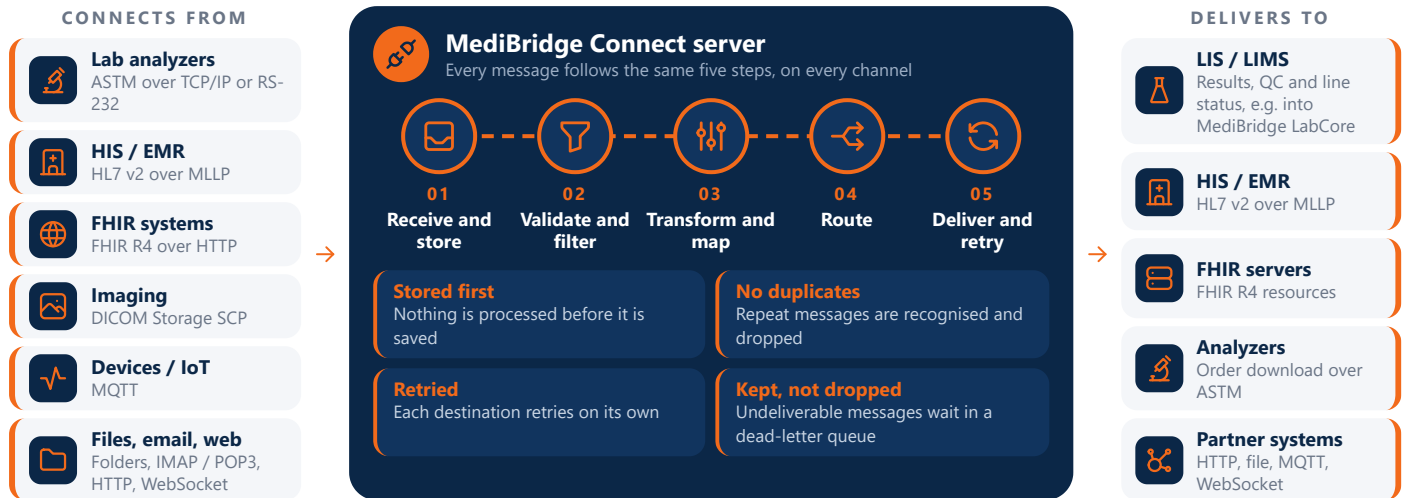


One platform, seven products: Casebook, Nucleus, Nalam360, MediBridge LabCore, MediBridge Connect, Beat, LedgerFlow AI. Laboratory and integration is MediBridge LabCore and MediBridge Connect. One partner, one support desk.

SOLUTION ARCHITECTURE

Many systems in, one dependable pipeline, many systems out

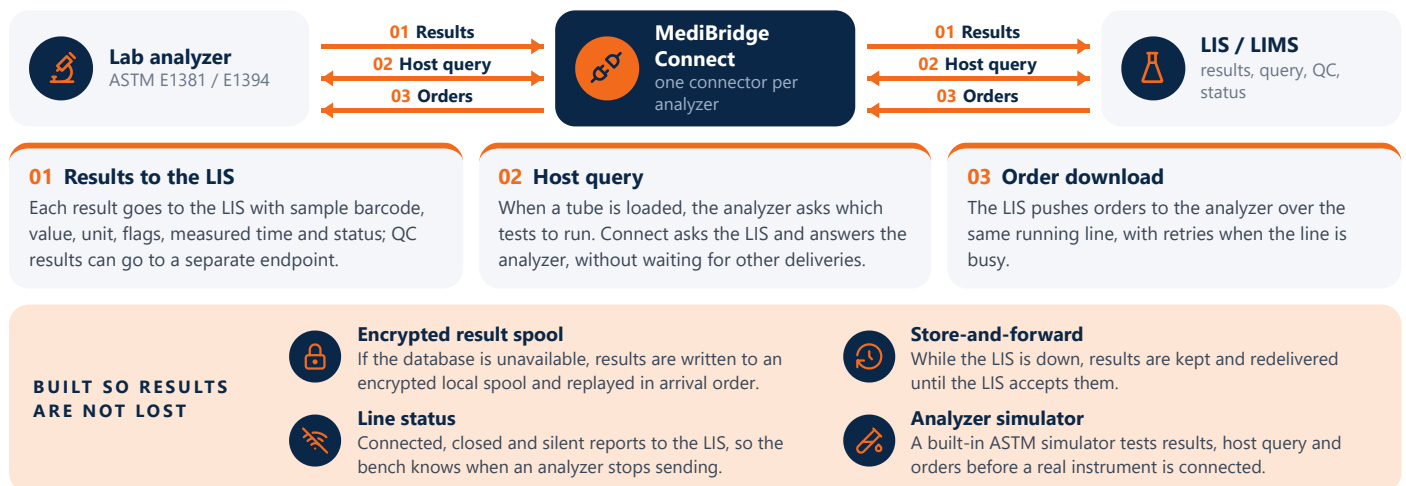
Each connection is a channel: a source, optional filters, transformations, routing rules and one or more destinations.



ANALYZER CONNECTIVITY

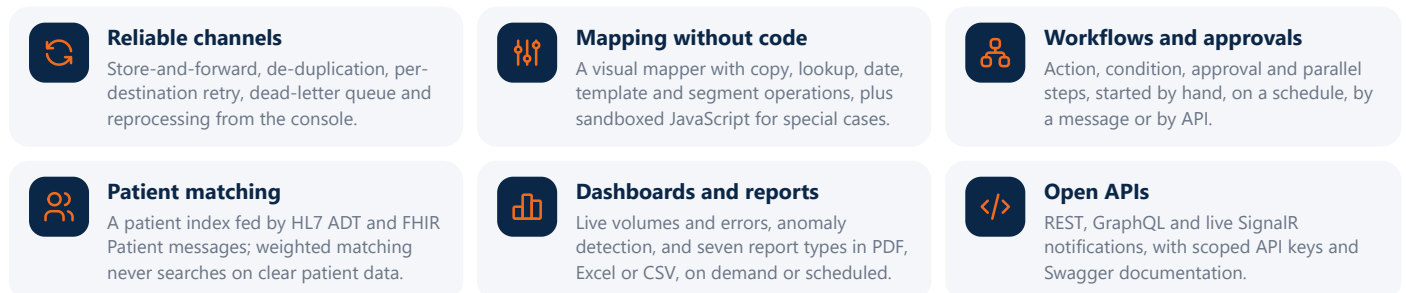
Built for the lab bench: ASTM, done properly

A dedicated ASTM E1381 / E1394 connector for each analyzer, over TCP/IP or a serial RS-232 line, in server or client mode.

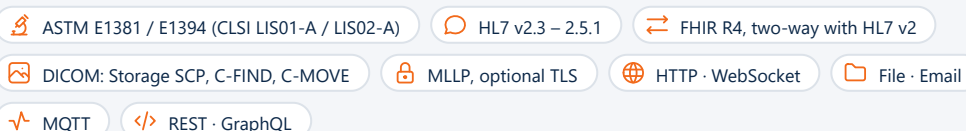


KEY CAPABILITIES

Everything an interface team needs, in one product



STANDARDS · CONFIGURED, NOT PROGRAMMED



SECURITY AND PRIVACY

Patient data protected at every step



Encryption at rest

Field-level AES-256-GCM for patient data and secrets; key rotation.



Encryption in transit

TLS 1.2 / 1.3 with HTTPS redirection and HSTS; optional TLS on MLLP channels.



Strong sign-in

Password policy, optional TOTP two-factor sign-in and lockout.



Role-based access

21 permissions and 6 built-in roles. Every API call is denied unless permitted.



Audit trail

Patient-data reads, administrative actions and API-key calls are recorded.



Privacy by design

Patient data redacted from logs, retention rules, export and erase on request.



We claim no certification or independent audit; compliance also depends on how Connect is deployed and run.

DEPLOYMENT

Your data centre or your cloud account



Docker Compose

Single server or evaluation



Kubernetes

Several servers share the load



Helm chart

One-command install



Linux package

Debian / Ubuntu



Windows

Guided PowerShell set-up



Operator apps

Desktop and mobile

MONITORING AND OPERATIONS

Problems flagged early, not by a phone call



Health checks

Liveness and readiness



Metrics

Failures, queue, pool depth



16 alert rules

Backlog, pool not draining



Grafana dashboard

Messaging, API, database



Backup and restore

Point-in-time recovery



Runbooks

Keys, incidents, access review

Change your system. Keep your history.

When a system is replaced, ClinexGen's migration service brings its history across:

Audit and extraction

What exists, where, how clean

Mapping and validation

Your heads check samples against the source

Staged go-live

One department at a time

Post-migration audit

Counts reconciled to your totals



Every record counted in both systems, every difference explained. Inside Connect, every message is stored, searchable and traceable, and can be reprocessed; the patient index is fed by HL7 ADT and FHIR Patient messages.

HOW A PROJECT RUNS

From first analyzer to full rollout, one proven step at a time



01

Discover

Every system, analyzer and interface, and its messages



02

Configure

Channels, mappings and routing for each connection



03

Test

On the analyzer simulator, then your reference analyzer



04

Go live

Site by site, with monitoring and alerts in place



05

Support

Ongoing tuning, new interfaces and upgrades

ACCEPTED ON YOUR REFERENCE ANALYZER BEFORE GO-LIVE

- ✓ Host query answered with the right tests
- ✓ Results match the analyzer screen
- ✓ Repeat runs kept, QC routed separately
- ✓ Order download listed on the analyzer
- ✓ LIS outage: results arrive after recovery
- ✓ Cable pulled: line status reported

NEXT STEP

Let's connect your first analyzer



Discovery call

your analyzers, HIS / LIS and interfaces



Interface review

your systems and messages mapped



Pilot connection

a first analyzer, proven end to end



Roll out

the rest, with monitoring in place

Scoped by the interfaces you switch on. Start with a first analyzer or system, then add the rest. Your commercial proposal sets out the scope and the service levels, with one support desk and escalation path. Buy direct, through an accredited partner, or white-labelled.

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