White Paper · 2026 edition
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THE REDIX ANYTOANY FORMAT CONVERTER ENGINE

Healthcare data conversion on your servers, from X12 and HL7 to FHIR

Health plans, clearinghouses, and providers run on X12, HL7, and NCPDP pipelines that cannot simply be replaced, while new requirements call for FHIR APIs. Redix supports existing EDI workflows and adds mapped X12 and HL7 v2 conversion to FHIR, with one native engine that runs inside your own environment.

Since 1994
Building healthcare EDI software in Somerset, New Jersey

Fortune 50 and 500
In production environments supporting Fortune 50 payer and Fortune 500 healthcare organizations

Runs on your servers
Production PHI does not need to be sent to Redix

The problem

Each trading partner implements the standards a little differently, so integrations multiply. Internal parsers need constant upkeep as standards, companion guides, and partners change. And under CMS-0057-F, impacted payers must offer FHIR-based APIs, including a Prior Authorization API, generally beginning January 1, 2027, while the X12 278 remains the HIPAA-adopted transaction; qualifying all-FHIR prior authorization implementations have HHS enforcement discretion for non-use of X12 278. Rebuilding core systems around a new format is costly and risky.

The Redix approach

The AnyToAny engine is a native C runtime that **validates and converts in one pass** through the data, with no JVM to install or tune. Conversions are driven by an input map (IFD), which describes and checks the source, and an output map (OFD), which builds the target. Maps are files you can review and change, so partner differences live in configuration rather than code. Pre-built HIPAA maps cover the standard transactions; custom maps extend them.

Deployment

- Command line, native library (DLL or shared library), folder watcher, or a Docker container with a REST API
- 64-bit Windows and Linux; the GUI Mapper (Windows) is for designing maps and is not needed in production
- You host it in your datacenter or cloud; Redix supplies the engine, maps, updates, and support under a maintenance agreement

What it produces

ESTABLISHED

Validated X12 with 999 and TA1 acknowledgments: syntax, inter-segment, and balancing checks	HIPAA Package
CMS-1500, UB-04, ADA J400, and 835 remittance PDFs	PDF Module
Claims loaded into databases such as Oracle, SQL Server, or PostgreSQL through supported connectors; database, platform, and maps confirmed in evaluation	Database Module
XML, NCPDP, EDIFACT, and flat-file conversions	Engine + applicable modules

NEWER

FHIR R4 from X12 837, 835, and 278	HIPAA-to-FHIR
FHIR R4 from supported HL7 v2 messages	HL7-to-FHIR
X12 278 to Da Vinci PAS for CMS-0057-F	CMS PAS Suite

Available outputs depend on the licensed package or modules and the configured maps; not every input converts to every output. The reverse FHIR PAS to X12 278 direction is in development.

Implementation

1. Start from the pre-built maps, or define your formats in the GUI Mapper.
2. Map and test the conversion on your own de-identified samples.
3. Copy the IFD/OFD map files to the production engine.
4. Integrate through the library API, command line, or REST container.

Try it with sample data: demo.redix.com/tools (synthetic data only, never PHI). **Discuss your workflow:** redix.com/contact

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