

FHIRBridge by HealthTrustIQ Product Catalogue

Enterprise catalogue for Ontario MHA PDS/FHIR readiness, source data profiling, mapping governance, terminology, FHIR R4 conversion, validation evidence, and controlled submission operations.

Catalogue Summary

- Product areas: Access and workspace, Conversion, Mappings, Terminology, Validation, Interface engine, Learning, Evidence, and Settings.
- Core functions: Login gate, tenant context, template download, demo source data, FHIR Bundle generation, mapping workbench, terminology catalogue, validation workbench, source intake, queue/transport status, learning paths, exports, audit log, and standards settings.
- Capability status: Demo-ready, Available, or Beta. Demo-ready means the synthetic workflow was exercised successfully; it does not mean production-approved.
- Standards orientation: Ontario MHA PDS, HL7 FHIR R4, local implementation-guide validation, terminology governance, PHIPA readiness, tenant controls, audit evidence, and QA transport separation.

Operating Principles

- Synthetic demo data only in public and training workflows unless an organization has approved the environment and data-processing terms.
- Mock, QA HAPI, dry-run, and future live transport modes remain separate and visibly labelled.
- Local validation and QA transport prove readiness mechanics; they do not represent Ontario Health production acceptance.
- Every conversion, mapping, terminology, validation, queue, and readiness activity should produce retained evidence.

QA-Verified Demonstration Baseline (2026-07-28)

- Two synthetic source rows converted into two valid FHIR Bundles and sixteen FHIR resources.
- No fatal/error validation blockers; warning/information findings remain visible for review.
- Immediate and queued mock submissions were accepted; no Ontario Health endpoint was called.
- Readiness, validation, and conversion evidence workbooks were populated and visually verified.

Capability Catalogue

Access and workspace: Login gate

Status: Demo-ready

What it does: Protects platform pages and APIs behind authenticated access, with demo access enabled for training.

User actions: Sign in with demo/demo for training or Supabase authentication for production tenants.

Outputs/evidence: Authenticated session and protected workspace access.

Production notes: Production should use Supabase Auth, MFA policy, tenant membership, and role-based access.

Access and workspace: Tenant context

Status: Beta

What it does: Displays the active tenant and constrains workspace data to tenant context where Supabase is configured.

User actions: Review active tenant in the header and bootstrap/configure tenant records before production use.

Outputs/evidence: Tenant context response and organization/membership evidence.

Production notes: RLS policies and tenant isolation tests are required before multi-tenant production onboarding.

Conversion: Ontario MHA PDS template download

Status: Demo-ready

What it does: Provides the controlled data collection template with required Ontario MHA PDS fields and local guidance.

User actions: Download the template, preserve column names, and populate source rows with de-identified or approved data.

Outputs/evidence: Excel workbook template and template download audit evidence.

Production notes: Confirm mandatory/conditional fields against the authorized Ontario Health/CAMH data dictionary release.

Conversion: Demo source data

Status: Demo-ready

What it does: Provides a safe sample workbook for training conversion and validation without PHI.

User actions: Download demo data and upload it on the Overview conversion panel.

Outputs/evidence: Demo source workbook suitable for conversion practice.

Production notes: Replace demo data with governed extracts only after privacy and tenant controls are approved.

Conversion: FHIR Bundle generation

Status: Demo-ready

What it does: Converts source rows into FHIR R4 Bundles with Patient, Organization, Location, EpisodeOfCare, Encounter, Appointment, and SDOH Observation resources.

User actions: Upload source workbook/CSV, run Convert to FHIR, inspect generated Bundle output, and download bundles.

Outputs/evidence: FHIR Bundle JSON, conversion summary, import issues, and validation report.

Production notes: Generated FHIR must be validated against the authorized Ontario MHA package before submission.

Mappings: Mapping workbench

Status: Beta

What it does: Shows source-to-FHIR mapping rules for PDS fields, FHIR paths, conformance notes, and review status.

User actions: Review mappings, select fields, update mapping status, and export the mapping workbook.

Outputs/evidence: Mapping evidence workbook with status, rule, FHIR path, and review notes.

Production notes: Clinical/data owners should approve mappings before production extracts are accepted.

Terminology: Terminology catalogue

Status: Beta

What it does: Displays local terminology references, code table concepts, and governance metadata.

User actions: Search terminology, filter concepts, run self-check, download local copy/package when configured, and export catalogue.

Outputs/evidence: Terminology export, self-check result, local package/import evidence.

Production notes: Terminology should be versioned and tied to the exact package/data dictionary used for validation.

Validation: Bundle validation workbench

Status: Beta

What it does: Validates FHIR Bundles against local requirements, downloaded package references, optional HL7 CLI/HAPI validation, and terminology checks.

User actions: Paste/upload Bundle JSON, run validation, review severity, download validation report, and triage issues.

Outputs/evidence: Validation report, OperationOutcome-style diagnostics, issue counts, and remediation evidence.

Production notes: Local validation is readiness evidence, not an Ontario Health acceptance response.

Interface engine: Source intake

Status: Demo-ready

What it does: Accepts one canonical source row, validates it, generates a FHIR Bundle, and queues or submits it through the feed.

User actions: Open Live Feed, edit canonical source JSON, choose queue/submit, and process next job.

Outputs/evidence: Submission job, Bundle identifier, resource count, queue status, and OperationOutcome diagnostics.

Production notes: Live Ontario Health transport requires configured endpoint, token governance, dry-run sign-off, and onboarding approval.

Interface engine: Queue and transport status

Status: Demo-ready

What it does: Tracks queued, validating, invalid, submitting, accepted, failed, and retrying submission jobs.

User actions: Refresh feed activity, process next job, and review attempts, HTTP status, and remote/mock ID.

Outputs/evidence: Feed activity table, job details, retry evidence, and mock/dry-run/live status.

Production notes: Operations should define retry policy, incident response, monitoring, and daily queue review.

Learning: Learning paths

Status: Available

What it does: Provides guided courses for roles, FHIR R4, MHA PDS data sets, terminology, validation, and submission operations.

User actions: Open Learn, choose a learning path, complete lessons/labs, and download course material.

Outputs/evidence: Course pages, downloadable learning material, scenarios, rubrics, glossary, job aids, and capstone evidence.

Production notes: Training artifacts should be reviewed and branded before formal customer enablement.

Evidence: Exports and audit log

Status: Demo-ready

What it does: Exports conversion, mappings, terminology, validation, readiness, and audit evidence for implementation governance.

User actions: Use Export buttons across platform pages and retain files in the implementation record.

Outputs/evidence: Excel/JSON/PDF evidence packages and audit activity records.

Production notes: Retention, PHI minimization, and evidence-review owners must be defined before production use.

Settings: Standards and readiness settings

Status: Beta

What it does: Shows package status, validator configuration, template self-checks, local requirements state, and readiness export.

User actions: Review settings, run template self-check, import standards from configured package/path, and export readiness.

Outputs/evidence: Readiness workbook, settings evidence, package metadata, and validation configuration status.

Production notes: Authorized package URL/path, auth header, package checksum, and version pinning are required for controlled validation.