

FHIRBridge Validation Evidence Guide

Guide for building formal, review-ready validation evidence across source preflight, conversion, FHIR structure, authorized package checks, terminology, dry-run submission, and go/no-go readiness.

Evidence Stages

1. Source preflight

Purpose: Catch structural and mandatory-field issues before FHIR generation.

Action: Run template self-check, confirm required columns, check row counts, and review date/identifier formats.

Pass criteria: No missing required columns, no blank mandatory identifiers, and no malformed dates in candidate rows.

Evidence: Template self-check export, source row count, rejected-row list, and owner notes.

2. Conversion traceability

Purpose: Prove each source row creates the expected FHIR resources and identifiers.

Action: Run conversion, inspect generated Bundle identifiers, resource counts, and source-to-resource trace fields.

Pass criteria: Expected row count matches expected Bundle count, and every generated Bundle can be traced to a source row.

Evidence: Conversion summary, Bundle JSON, source row identifier, and traceability worksheet.

3. Local PDS requirement validation

Purpose: Check generated content against the local Ontario MHA PDS requirement rules maintained in the app.

Action: Run validation and classify fatal, error, warning, and information findings.

Pass criteria: No unresolved fatal/error findings remain for the production candidate extract.

Evidence: Validation report, issue triage log, remediation owner, and retest date.

4. FHIR structural validation

Purpose: Confirm FHIR JSON structure, references, resource types, and Bundle shape are valid.

Action: Run the configured FHIR validator or HAPI/CLI-backed validation where available.

Pass criteria: Bundle structure is valid and references resolve within the Bundle or documented external context.

Evidence: FHIR validator output, OperationOutcome diagnostics, and validator version.

5. Authorized package validation

Purpose: Validate against the authorized Ontario MHA PDS package when the package is available to the tenant.

Action: Confirm package path/version/checksum, run formal package validation, and retain the exact package metadata.

Pass criteria: Validation uses the approved package version and no package-level blocker remains unresolved.

Evidence: Package metadata, checksum/path, validator command or endpoint, and validation output.

6. Terminology validation

Purpose: Confirm coded fields use accepted code systems, value sets, or documented local crosswalks.

Action: Run terminology self-check, compare local codes to mapped target codes, and classify unmapped values.

Pass criteria: Required coded values are mapped or formally accepted as gaps with remediation plans.

Evidence: Terminology export, crosswalk file, warning list, and clinical owner decisions.

7. Timeline and clinical consistency

Purpose: Catch impossible or suspicious service dates, encounter timing, referral windows, status combinations, and discharge logic.

Action: Review validation warnings for dates/statuses and compare source-system timeline rules with generated resources.

Pass criteria: No impossible timelines remain and accepted warnings have a documented rationale.

Evidence: Date/status issue log, corrected source extract, and accepted-warning record.

8. Submission dry run

Purpose: Prove the interface-engine queue can process candidate payloads without live Ontario Health submission.

Action: Queue a candidate row through Live Feed in mock or dry-run mode and process the job.

Pass criteria: Job reaches accepted/mock-accepted status with traceable Bundle ID and OperationOutcome.

Evidence: Feed job export, attempt history, mock/dry-run response, and Bundle identifier.

9. Go/no-go evidence pack

Purpose: Bundle validation evidence for governance, privacy, security, data, clinical, and integration approval.

Action: Export mappings, terminology, validation, conversions, audit log, readiness, and transport checklist.

Pass criteria: Every readiness gate has an owner, date, status, and retained artifact.

Evidence: Named evidence package, sign-off record, and go/no-go decision.