

Los Angeles County | Department of Mental Health



LOS ANGELES COUNTY
**DEPARTMENT OF
MENTAL HEALTH**
hope. recovery. wellbeing.

EPSDT FHIR Migration Companion Guide

Document Information

Item	Value
Version	1.1.0
Status	Draft
Last Updated	7/1/2026
Audience	Providers/vendors transitioning from SOAP/WCF EPSDT integration to FHIR R4
FHIR Version	R4 (4.0.1)

Table of Contents

1. [Introduction](#)
 2. [What Changes vs What Remains the Same](#)
 3. [Dual Intake-Path Parity](#)
 4. [Authentication and Unified Access Model](#)
 5. [Endpoint Configuration](#)
 6. [Data Model — CANS QuestionnaireResponse](#)
 7. [Data Model — PSC QuestionnaireResponse](#)
 8. [Legacy-to-FHIR Field Mapping](#)
 9. [New and Optional WSDL Fields — Backward Compatibility](#)
 10. [Submission Examples](#)
 11. [Validation Rules](#)
 12. [Level of Care Calculation \(CANS\)](#)
 13. [Duplicate Detection](#)
 14. [Identity Stamping](#)
 15. [Error Handling](#)
 16. [Testing and Certification](#)
 17. [Quick Reference](#)
-

1. Introduction

This guide is for providers and vendors who currently submit EPSDT assessments (CANS-50 and PSC-35) via the legacy SOAP/WCF interface and are transitioning to the **HIDEX Provider Access API** (FHIR R4).

The HIDEX Provider Access API accepts CANS and PSC assessments as FHIR R4 **QuestionnaireResponse** resources. The API validates submissions against business rules and persists them to the FHIR store. For CANS assessments, a Level of Care score (1–5) is calculated and returned as an extension on the response.

Important: The SOAP intake path continues to operate during and after the migration period. Existing legacy XML clients keep working unchanged. Behind the scenes, the SOAP path translates each XML message into a FHIR **QuestionnaireResponse** and submits it to the **same authenticated endpoint** a native FHIR client uses, so both paths share one validation, persistence, and identity routine.

2. What Changes vs What Remains the Same

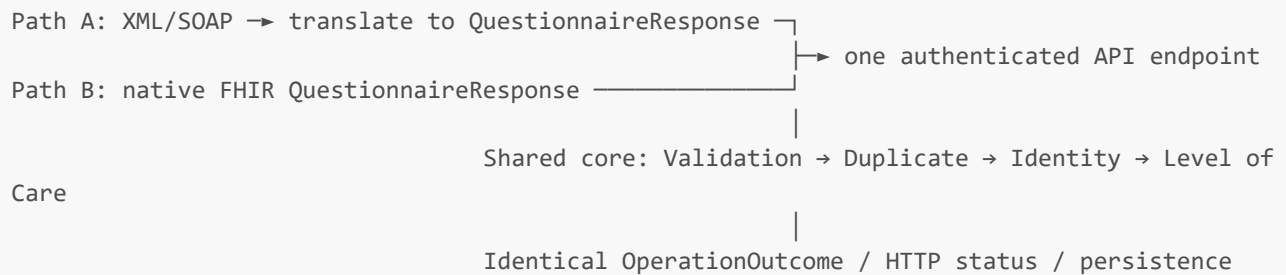
Aspect	Legacy (SOAP/WCF)	New (FHIR R4)
Protocol	SOAP over HTTPS	REST over HTTPS
Data Format	XML	JSON (FHIR R4)
Authentication	WS-Security / custom headers	API subscription keys via APIM gateway
Endpoint	/ClientService/	/fhir/QuestionnaireResponse
Intake convergence	SOAP-only	XML/SOAP and native FHIR converge on one authenticated endpoint
Validation	Server-side after write	Shared server-side pre-processing (before persistence)
Persistence	SOAP proxy wrote data	HIDEX Provider Access API writes to FHIR store
Identity link	SOAP stamped the EPSDT ID	API includes the EPSDT ID in the FHIR resource identifier collection with timestamp
Error Format	SOAP Fault	FHIR OperationOutcome (JSON)
Level of Care	Returned in SOAP response	Returned as extension on FHIR response
Duplicate Check	Server-based	FHIR store query-based
Assessment Types	Same (CANS-50, PSC-35)	Same (CANS-50, PSC-35)
Business Rules	Same validation rules	Same validation rules (JSON-configured, shared core)
Data Content	Same fields	Same fields, plus newly surfaced optional fields (see Section 9)

Note: EPSDT IDs from the original web service are preserved in the FHIR identifier collection. Assessments are saved to the FHIR store with timestamps.

3. Dual Intake-Path Parity

EPSDT submissions arrive on two intake paths that converge on one shared business-logic core inside the HIDEX Provider Access API:

- **Path A (legacy parity)** — A legacy XML/SOAP message is received, translated into a FHIR `QuestionnaireResponse`, and forwarded to the same authenticated API endpoint a native FHIR client calls.
- **Path B (native FHIR)** — A contracted provider submits a FHIR `QuestionnaireResponse` directly to the API.



Because both paths run the identical pipeline from the validation step onward, the intake path does not change the outcome:

- **Same validation errors** — the same set of validation issues is produced for the same payload, independent of ordering.
- **Same HTTP status code** — both paths return the same status for the same payload.
- **Same persistence and identifiers** — both paths produce the same FHIR resource identifiers and the same set of `QuestionnaireResponse` item link ids.

Important: If the legacy XML message cannot be translated into a valid FHIR `QuestionnaireResponse`, the submission is rejected with a translation error and nothing partial is forwarded or persisted.

4. Authentication and Unified Access Model

The HIDEX Provider Access API requires an OAuth2 bearer token plus an APIM subscription key on **every** EPSDT write regardless of intake path. There is no unauthenticated intake. See the **API Credentials Reference** table below for what's provisioned and where each value is used.

Step 1: Acquire OAuth2 Access Token

```

POST https://login.microsoftonline.com/{tenant-id}/oauth2/v2.0/token
Content-Type: application/x-www-form-urlencoded

grant_type=client_credentials
&client_id={your-client-id}
&client_secret={your-client-secret}
&scope={your-resource-audience}
  
```

`{your-resource-audience}` is the Resource Audience value from the API Credentials Reference table below (e.g., `api://{resource/appID}/.default`).

Response:

```
{
  "token_type": "Bearer",
  "expires_in": 3600,
  "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOi..."
}
```

The access token contains claims including your `program_id` authorization.

Step 2: Using Your Credentials

Native FHIR clients (Path B) authenticate by including **both** credentials:

```
POST https://hidex-test.dmh.lacounty.gov/healthcare/QuestionnaireResponse
Authorization: Bearer {access_token}
Ocp-Apim-Subscription-Key: {your-subscription-key}
Content-Type: application/json
Accept: application/json
```

The legacy SOAP path (Path A) authenticates to the API using **the same mechanism** a native FHIR client uses.

Note: Store both credentials securely (treat them like passwords).

Important: Authorization also checks the OAuth2 token's ProgramID authorization. A request whose ProgramID authorization does not contain the assessment's ProgramID — or that carries no ProgramID authorization — is rejected with HTTP 403 (the same message on both intake paths) and no assessment data is persisted.

Important Notes

- **OAuth2 tokens expire after 1 hour** — implement token caching and refresh logic
- **Subscription key** targets the specific environment (TEST, QA, or PRODUCTION)
- Your token's `program_id` claim must match the program codes in your submissions
- Contact Integration Support via the CIOB Help Desk if you need to rotate your subscription key or OAuth2 client credential provisioning

API Credentials Reference

The Integration Team provisions the following credentials for API access:

Item	Type	Scope	Value
Client ID	App Registration	Shared across TEST and QA	Your OAuth2 application identifier (<code>client_id</code>)
Client Secret	App Registration	Shared across TEST and QA	Your OAuth2 application secret (<code>client_secret</code>) — store securely
Tenant ID	Azure AD	Same for both TEST and QA	The Azure AD tenant identifier (<code>tenant_id</code>)

Item	Type	Scope	Value
Resource Audience	OAuth2 Scope	Same for both TEST and QA	<code>api://{resource/appID}/.default</code> — used as the <code>scope</code> parameter in the token request
Base URL	Endpoint	Environment-specific	TEST: <code>https://hidex-test.dmh.lacounty.gov/healthcare</code> QA: <code>https://hidex-qa.dmh.lacounty.gov/healthcare</code>
APIM Subscription Key	API Management	Environment-specific	Sent as the <code>Ocp-Apim-Subscription-Key</code> header on every request

Note: Client ID, Client Secret, Tenant ID, and Resource Audience are shared across the TEST and QA environments. Base URL and the APIM Subscription Key are environment-specific — request separate values for TEST and QA.

5. Endpoint Configuration

Base URLs by Environment

Environment	Base URL
TEST	<code>https://hidex-test.dmh.lacounty.gov/healthcare</code>
QA	<code>https://hidex-qa.dmh.lacounty.gov/healthcare</code>
PRODUCTION	<code>https://hidex.dmh.lacounty.gov/healthcare</code>

API Operations

Operation	Method	Path	Description
Create Assessment	POST	<code>/QuestionnaireResponse</code>	Submit a new CANS or PSC assessment
Update Assessment	PUT	<code>/QuestionnaireResponse/{id}</code>	Update an existing assessment
Read Assessment	GET	<code>/QuestionnaireResponse/{id}</code>	Retrieve a specific assessment by ID
Search Assessments	GET	<code>/QuestionnaireResponse?{params}</code>	Search assessments by patient, tag, date

Required Headers

Header	Value	Required
<code>Authorization</code>	<code>Bearer {access_token}</code>	Yes (POST/PUT)
<code>Ocp-Apim-Subscription-Key</code>	<code>{your-subscription-key}</code>	Yes
<code>Content-Type</code>	<code>application/json</code>	Yes (POST/PUT)
<code>Accept</code>	<code>application/json</code>	Yes

6. Data Model — CANS QuestionnaireResponse

Resource Structure

Field	FHIR Path	Required	Rules
Resource Type	<code>resourceType</code>	Yes	Must be "QuestionnaireResponse"
ID	<code>id</code>	Yes (PUT)	Resource identifier
Status	<code>status</code>	Yes	One of: <code>completed</code> , <code>in-progress</code> , <code>amended</code> , <code>entered-in-error</code> , <code>stopped</code>
Questionnaire	<code>questionnaire</code>	Yes	https://lacdmh.lacounty.gov/fhir/Questionnaire/cans-50
Subject (Client)	<code>subject.reference</code>	Yes	Patient/{ClientID}
Source (Practitioner)	<code>source.reference</code>	Yes	Practitioner/{NPI}
Author (Organization)	<code>author.reference</code>	Yes	Organization/{ProviderNumber}
Meta Tag	<code>meta.tag[0].code</code>	Yes	"CANS"
Meta Tag Display	<code>meta.tag[0].display</code>	Yes	"CANS"

CANS Domain Groups

Items are organized into groups using nested `item` arrays:

Domain Group	linkId	Items
Child Behaviors	<code>child-behaviors</code>	CB01–CB10
Life Domain	<code>life-domain</code>	LD01–LD05
Risk Behaviors	<code>risk-behaviors</code>	RB21–RB28
Cultural Factors	<code>cultural-factors</code>	CF01–CF02
Strengths Development	<code>strengths-development</code>	SD32–SD40
Caregiver Resources	<code>caregiver-resources</code>	CR41–CR50 (plus b/c/d variants)
Trauma	<code>trauma</code>	T01–T12

Metadata Items

linkId	Field	Answer Type
<code>401</code>	AssessmentType	valueString ("1"=Initial, "5"=AdminClose)
<code>402</code>	AssessmentDate	valueString (YYYY-MM-DD)
<code>403</code>	AdminCloseReason	valueString (only for AssessmentType="5")
<code>408</code>	Caregiver	valueString ("Y" or "N")

7. Data Model — PSC QuestionnaireResponse

Resource Structure

Field	FHIR Path	Required	Rules
Resource Type	<code>resourceType</code>	Yes	Must be "QuestionnaireResponse"
Status	<code>status</code>	Yes	One of: <code>completed</code> , <code>in-progress</code> , <code>amended</code> , <code>entered-in-error</code> , <code>stopped</code>
Questionnaire	<code>questionnaire</code>	Yes	https://lacdmh.lacounty.gov/fhir/Questionnaire/psc-35
Subject (Client)	<code>subject.reference</code>	Yes	<code>Patient/{ClientID}</code>
Source (Practitioner)	<code>source.reference</code>	Yes	<code>Practitioner/{NPI}</code>
Author (Organization)	<code>author.reference</code>	Yes	<code>Organization/{ProviderNumber}</code>
Meta Tag	<code>meta.tag[0].code</code>	Yes	"PSC"

PSC Question Items

linkId	Description	Answer
<code>Q01-Q35</code>	PSC screening questions 1–35	valueCoding with code "0", "1", or "2"

PSC Metadata Items

linkId	Field	Answer Type
<code>401</code>	<code>AssessmentType</code>	valueString
<code>402</code>	<code>AssessmentDate</code>	valueString (YYYY-MM-DD)
<code>403</code>	<code>AdminCloseReason</code>	valueString (only for <code>AssessmentType</code> ="5")
<code>CaregiverDeclined</code>	Caregiver Declined	valueString ("Y" or "N")
<code>CaregiverDidNotRespondToAll</code>	Caregiver Did Not Respond	valueString ("Y" or "N")

8. Legacy-to-FHIR Field Mapping

CANS Identity Fields

Legacy XML Path	FHIR R4 Path	Notes
ClientID	subject.reference	Becomes Patient/{ClientID}
AssessingPractitionerNPI	source.reference	Becomes Practitioner/{NPI}
ProviderNumber	author.reference	Becomes Organization/{ProviderNumber}
AssessmentType	item[linkId="401"].answer[0].valueString	"1" = Initial, "5" = AdminClose
AssessmentDate	item[linkId="402"].answer[0].valueString	Format: YYYY-MM-DD
AdminCloseReason	item[linkId="403"].answer[0].valueString	Only when AssessmentType="5"
Caregiver	item[linkId="408"].answer[0].valueString	"Y" or "N"
CANSID	id / stamped identifier	Required on Update (PUT); see Section 14

CANS Domain Items

Legacy Field	FHIR R4 Path	Notes
CB01–CB10	item[linkId="child-behaviors"].item[linkId="CB01"].answer[0].valueCoding.code	Values: "0", "1", "2", "3"
LD01–LD05	item[linkId="life-domain"].item[linkId="LD01"].answer[0].valueCoding.code	Values: "0", "1", "2", "3"
RB21–RB28	item[linkId="risk-behaviors"].item[linkId="RB21"].answer[0].valueCoding.code	Values: "0", "1", "2", "3"
CR41–CR50	item[linkId="caregiver-resources"].item[linkId="CR41"].answer[0].valueCoding.code	Includes b/c/d variants (see Section 9)
T01–T12	item[linkId="trauma"].item[linkId="T01"].answer[0].valueCoding.code	Values: "0", "1", "2", "3"
T03	item[linkId="trauma"].item[linkId="T03"].answer[0].valueCoding.code	Trauma item; see Section 9

PSC Fields

Legacy XML Path	FHIR R4 Path	Notes
Question1–Question35	item[linkId="Q01"].answer[0].valueCoding.code	Values: "0", "1", "2"
RespondentName	item[linkId="406"].answer[0].valueString	Caregiver/respondent name

Legacy XML Path	FHIR R4 Path	Notes
RespondentRelationship	item[linkId="407"].answer[0].valueCoding.code	Relationship code
CaregiverDeclined	item[linkId="CaregiverDeclined"].answer[0].valueString	"Y" bypasses blank-count
PSCID	id / stamped identifier	Required on Update (PUT); see Section 14

9. New and Optional WSDL Fields — Backward Compatibility

New EPSDT attributes surfaced during this migration are introduced **additively and as optional fields** so that existing legacy XML clients keep working unchanged.

Backward compatibility guarantees

- **Additive only at the XML layer.** Every new XML element is declared optional (`minOccurs="0"`). No existing element is removed, renamed, made required, or reordered.
- **Legacy clients are unaffected.** A legacy XML message that omits any new optional element still produces a valid, processable FHIR `QuestionnaireResponse`.
- **Required/optional is enforced in the backend, not the WSDL.** Whether a field is required for a given assessment type and operation is decided by the shared validation core (keyed by assessment type `eq5/neq5` and operation), surfaced as a validation error — never as an XSD `minOccurs="1"`.
- **Validation parity, not schema parity.** A legacy XML message and a native FHIR message carrying the same data receive the same required/optional treatment and the same set of validation errors.

Newly surfaced optional fields

Field	Domain	WSDL declaration	Notes
T03	Trauma	<code>minOccurs="0"</code> (optional)	Previously missing trauma item now carried end-to-end. Whether it is required for a standard (<code>neq5</code>) CANS assessment is decided by the backend rule set.
CR41b–CR50b	Caregiver Resources	<code>minOccurs="0"</code> (optional)	Caregiver "b" variants (2nd caregiver)
CR41c–CR50c	Caregiver Resources	<code>minOccurs="0"</code> (optional)	Caregiver "c" variants (3rd caregiver)
CR41d–CR50d	Caregiver Resources	<code>minOccurs="0"</code> (optional)	Caregiver "d" variants (4th caregiver)

Note: When `Caregiver="Y"`, the backend requires the full caregiver attribute set — the CR41–CR50 main items, their b/c/d variants, caregiver identity items, and contributor metadata. When `Caregiver` is not `"Y"`, those caregiver variant, identity, and contributor items are omitted.

10. Submission Examples

CANS Standard Assessment (POST)

```
POST /fhir/QuestionnaireResponse
Authorization: Bearer {access_token}
Ocp-Apim-Subscription-Key: {your-subscription-key}
Content-Type: application/json
```

```
{
  "resourceType": "QuestionnaireResponse",
  "id": "cans-assessment-001",
  "status": "completed",
  "questionnaire": "https://lacdmh.lacounty.gov/fhir/Questionnaire/cans-50",
  "subject": { "reference": "Patient/3462959" },
  "source": { "reference": "Practitioner/1234567890" },
  "author": { "reference": "Organization/ORG001" },
  "meta": { "tag": [{ "code": "CANS", "display": "CANS" }] },
  "item": [
    { "linkId": "401", "text": "AssessmentType", "answer": [{ "valueString": "1" }] },
    { "linkId": "402", "text": "AssessmentDate", "answer": [{ "valueString": "2025-06-15" }] }
  ],
  { "linkId": "408", "text": "Caregiver", "answer": [{ "valueString": "N" }] },
  {
    "linkId": "child-behaviors",
    "text": "Child Behaviors",
    "item": [
      { "linkId": "CB01", "answer": [{ "valueCoding": { "code": "1" } }] },
      { "linkId": "CB02", "answer": [{ "valueCoding": { "code": "0" } }] },
      { "linkId": "CB03", "answer": [{ "valueCoding": { "code": "2" } }] }
    ]
  },
  {
    "linkId": "life-domain",
    "text": "Life Domain",
    "item": [
      { "linkId": "LD01", "answer": [{ "valueCoding": { "code": "1" } }] }
    ]
  },
  {
    "linkId": "risk-behaviors",
    "text": "Risk Behaviors",
    "item": [
      { "linkId": "RB21", "answer": [{ "valueCoding": { "code": "0" } }] }
    ]
  },
  {
    "linkId": "cultural-factors",
    "text": "Cultural Factors",
    "item": [
      { "linkId": "CF01", "answer": [{ "valueCoding": { "code": "0" } }] }
    ]
  },
  {
    "linkId": "strengths-development",
    "text": "Strengths Development",
    "item": [
```

```

    { "linkId": "SD32", "answer": [{ "valueCoding": { "code": "0" } }] }
  ],
  {
    "linkId": "caregiver-resources",
    "text": "Caregiver Resources",
    "item": [
      { "linkId": "CR41", "answer": [{ "valueCoding": { "code": "0" } }] }
    ]
  },
  {
    "linkId": "trauma",
    "text": "Trauma",
    "item": [
      { "linkId": "T01", "answer": [{ "valueCoding": { "code": "0" } }] },
      { "linkId": "T03", "answer": [{ "valueCoding": { "code": "0" } }] }
    ]
  }
]
}

```

CANS Admin Close (POST)

```

{
  "resourceType": "QuestionnaireResponse",
  "id": "cans-adminclose-001",
  "status": "completed",
  "questionnaire": "https://lacdmh.lacounty.gov/fhir/Questionnaire/cans-50",
  "subject": { "reference": "Patient/3462959" },
  "source": { "reference": "Practitioner/1234567890" },
  "author": { "reference": "Organization/ORG001" },
  "meta": { "tag": [{ "code": "CANS", "display": "CANS" }] },
  "item": [
    { "linkId": "401", "text": "AssessmentType", "answer": [{ "valueString": "5" }] },
    { "linkId": "402", "text": "AssessmentDate", "answer": [{ "valueString": "2025-06-20" }] }
  ],
  { "linkId": "403", "text": "AdminCloseReason", "answer": [{ "valueString": "Client discharged" }] }
]
}

```

PSC Standard Assessment (POST)

```

{
  "resourceType": "QuestionnaireResponse",
  "id": "psc-assessment-001",
  "status": "completed",
  "questionnaire": "https://lacdmh.lacounty.gov/fhir/Questionnaire/psc-35",
  "subject": { "reference": "Patient/10" },
  "source": { "reference": "Practitioner/9876543210" },
  "author": { "reference": "Organization/ORG002" },

```

```

"meta": { "tag": [{ "code": "PSC", "display": "PSC" }] },
"item": [
  { "linkId": "401", "text": "AssessmentType", "answer": [{ "valueString": "1" }] },
  { "linkId": "402", "text": "AssessmentDate", "answer": [{ "valueString": "2025-06-15" }] },
],
{ "linkId": "Q01", "answer": [{ "valueCoding": { "code": "0" } }] },
{ "linkId": "Q02", "answer": [{ "valueCoding": { "code": "1" } }] },
{ "linkId": "Q03", "answer": [{ "valueCoding": { "code": "0" } }] },
{ "linkId": "Q04", "answer": [{ "valueCoding": { "code": "2" } }] },
{ "linkId": "Q05", "answer": [{ "valueCoding": { "code": "0" } }] }
]
}

```

Note: The PSC example above is abbreviated. A complete submission requires all 35 questions (Q01–Q35).

11. Validation Rules

CANS Standard (AssessmentType ≠ "5")

- All identity fields required: ClientID, ProviderNumber, ProgramID, NPI, AssessmentType, AssessmentDate
- All domain items required: CB, LD, RB, CF, SD, T
- If Caregiver="Y": all CR fields including b/c/d variants required
- AdminCloseReason must NOT be populated

CANS Admin Close (AssessmentType = "5")

- Only allowed fields: CANSID, AssessmentType, AssessmentDate, AdminCloseReason, NPI, ProviderNumber, ClientID, ProgramID
- Required: AssessmentType, AssessmentDate, AdminCloseReason, NPI, ProviderNumber, ClientID, ProgramID
- Any other populated field will be rejected

CANS / PSC Update (PUT)

- CANS Update requires the key field **CANSID**; PSC Update requires **PSCID**.
- Required/optional enforcement is keyed by assessment type and operation in the shared validation core.

PSC Standard (AssessmentType ≠ "5")

- All identity fields required: ClientID, ProviderNumber, ProgramID, NPI, AssessmentType, AssessmentDate, RespondentName, RespondentRelationship
- Maximum 3 blank answers allowed among Q01–Q35
- Exemption: if CaregiverDeclined="Y" or CaregiverDidNotRespondToAll="Y", blank-count check is bypassed

PSC Admin Close (AssessmentType = "5")

- Same allowed-only pattern as CANS admin close
- AdminCloseReason required

Important: The API returns ALL validation errors in a single response, not just the first failure. Fix all reported issues before resubmitting. The same payload produces the same set of errors regardless of intake path.

12. Level of Care Calculation (CANS)

For standard CANS assessments (AssessmentType $\neq$ "5"), the API calculates a Level of Care (1–5) based on domain scores and returns it as an extension on the response.

Level	Criteria
5 (Highest)	High CB scores + high RB scores + SD threshold met
4	High CB scores + (high LD or high RB) + caregiver need or no viable caregiver
3	High CB scores + (high LD or RB $\geq$ 2)
2	Any CB $\geq$ 2 or any RB $\geq$ 1
1 (Default)	No higher-level conditions met

The LOC result is appended as an extension in the response body. Admin close assessments skip LOC calculation.

Note: If the Level of Care calculation fails, the API returns the same HTTP success status it would have returned on success, but the response body omits the Level of Care extension. The assessment is still persisted.

13. Duplicate Detection

On POST (create) operations only:

- The API checks for existing submissions matching: subject (ClientID) + author (ProviderNumber) + meta tag (CANS/PSC) + assessment date
- If a duplicate is found: HTTP 409 Conflict with OperationOutcome
- PUT (update) operations skip duplicate detection

14. Identity Stamping

The HIDE Provider Access API persists each accepted assessment to the FHIR store with an EPSDT ID assigned and included in the identifier collection along with a timestamp.

Identifier Stamping Convention

Assessment	Identifier system	Identifier value
CANS	https://lacdmh.lacounty.gov/epsdt/cans	EPSDT ID
PSC	https://lacdmh.lacounty.gov/epsdt/psc	EPSDT ID

- Exactly one identifier is set for the assessment's system; identifiers belonging to other systems are preserved unchanged.
- Stamping is idempotent — re-stamping with the same id and kind yields exactly one identifier for that system.

Example of the stamped identifier on a CANS response:

```
{
  "resourceType": "QuestionnaireResponse",
  "identifier": {
    "system": "https://lacdmh.lacounty.gov/epsdt/cans",
    "value": "1048576"
  }
}
```

Note: This is the same identifier system + value convention used by the legacy SOAP path.

15. Error Handling

HTTP Status Codes

Code	Meaning	When
200	Success	GET, successful PUT
201	Created	Successful POST
400	Bad Request	Validation failure, or update missing the FHIR resource id
401	Unauthorized	Missing/invalid/malformed subscription key
403	Forbidden	ProgramID authorization does not contain the assessment's ProgramID, or no ProgramID authorization
409	Conflict	Duplicate submission detected
500	Server Error	Unexpected internal error

Error-outcome contract

Condition	Status	OperationOutcome
Validation failure	400	One error issue per failed rule
Update missing resource id	400	One issue, code required , diagnostic indicating a resource id is required
Duplicate submission	409	One error issue, code duplicate
Authorization (ProgramID) failure	403	Same message on both intake paths; nothing persisted

OperationOutcome Example (400 Validation Error)

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "required",
      "diagnostics": "The required attribute 'AssessmentDate' is missing."
    },
    {
      "severity": "error",
      "code": "required",
      "diagnostics": "The required attribute 'CB01' is missing."
    }
  ]
}
```

Troubleshooting

Error	Cause	Fix
"Field 'resourceType' is missing or invalid"	Missing or wrong resourceType	Set "resourceType": "QuestionnaireResponse"
"Field 'status' is missing or invalid"	Missing or invalid status	Use: completed , in-progress , amended
"Questionnaire URL is required"	Missing questionnaire field	Add correct questionnaire URL
"Subject reference is required"	Missing subject	Add "subject": { "reference": "Patient/{id}" }
"AdminCloseReason is not required"	AdminCloseReason on non-admin-close	Remove AdminCloseReason or set AssessmentType="5"
"A resource id is required for the update"	PUT without the FHIR resource id	Include the resource id in the URL and body
403 Forbidden	ProgramID claim mismatch	Confirm your App Registration is authorized for the assessment's ProgramID
409 Conflict	Duplicate assessment	Use PUT to update, or change assessment date

16. Testing and Certification

Sandbox URLs

Environment	URL
TEST	https://hidex-test.dmh.lacounty.gov/healthcare

Test Patient IDs

Use the following patient IDs for sandbox testing:

- Patient/3462959 (CANS test patient)
- Patient/10 (PSC test patient)

Validation Checklist

- Obtain OAuth2 client credentials and API subscription key from DMH
- Successfully acquire an OAuth2 access token
- Token refresh logic handles expiry correctly (tokens expire after 1 hour)
- Include both Authorization and Ocp-Apim-Subscription-Key headers on all requests
- POST a valid CANS standard assessment → 201 Created
- POST a valid CANS admin close → 201 Created
- POST a valid PSC standard assessment → 201 Created
- POST a valid PSC admin close → 201 Created
- PUT to update an existing assessment (with CANSID/PSCID) → 200 OK
- GET a submitted assessment by ID → 200 with resource
- Verify validation rejection (missing field) → 400 with OperationOutcome
- Verify duplicate detection → 409 on repeated POST
- Verify ProgramID authorization rejection → 403
- Confirm the response identifier carries the EPSDT id (CANS/PSC system)
- Confirm LOC extension present on CANS response
- Confirm legacy XML messages that omit new optional fields still succeed
- Confirm T03 round-trips when supplied

17. Quick Reference

Questionnaire URLs

Assessment	URL
CANS-50	https://lacdmh.lacounty.gov/fhir/Questionnaire/cans-50
PSC-35	https://lacdmh.lacounty.gov/fhir/Questionnaire/psc-35

Identifier Systems

Assessment	Identifier System	Value
CANS	https://lacdmh.lacounty.gov/epsdt/cans	EPSDT ID

Assessment	Identifier System	Value
PSC	https://lacdmh.lacounty.gov/epsdt/psc	EPSDT ID

Meta Tags

Assessment	code	display
CANS	CANS	CANS
PSC	PSC	PSC

CANS Answer Values

Code	Meaning
0	No evidence of need
1	Watchful waiting / prevention
2	Action needed
3	Immediate / intensive action needed

PSC Answer Values

Code	Meaning
0	Never
1	Sometimes
2	Often

---END OF THE DOCUMENT---