Los Angeles County | Department of Mental Health

EPSDT SOAP Proxy Companion Guide

1. Document Information

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2. Table of Contents

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3. Introduction

This guide is for Trading Partners who submit EPSDT assessments (CANS-50 and PSC-35) via the legacy SOAP/XML interface. It documents the service endpoints, message formats, validation rules, and error handling for the EPSDT SOAP Proxy.

What is the EPSDT SOAP Proxy?

The EPSDT SOAP Proxy is a **translation layer** that bridges the legacy XML/SOAP interface with the modern FHIR-based assessment pipeline. When you submit a SOAP message:

1. The SOAP proxy receives your XML message and validates it against SOAP-layer rules
2. The proxy translates your XML into a FHIR R4 `QuestionnaireResponse` resource
3. The proxy forwards the translated resource to the **HIDEX Provider Access API**

The HIDEX Provider Access API then handles all downstream processing:

- Business validation (same rules applied to both SOAP and native FHIR submissions)
- Duplicate detection (prevents duplicate assessments)
- SQL persistence (system of record)
- Identity stamping (links SQL and FHIR records via the EPSDT id)
- FHIR store write (secondary copy joined by EPSDT id)
- Level of Care calculation (for CANS standard assessments)

Convergence with Native FHIR

Behind the scenes, your SOAP submissions flow through the **same authenticated pipeline** that native FHIR clients use. This convergence means:

- **Same validation rules** — Whether submitted via SOAP or FHIR, the same payload produces the same validation errors
- **Same persistence** — Both paths write to the same SQL database (system of record) and FHIR store
- **Same identity stamping** — The EPSDT SQL id is stamped onto both SOAP and FHIR submissions identically
- **Same Level of Care** — CANS assessments receive the same LOC calculation regardless of intake path

> **Important**: Your existing XML messages continue to work unchanged. The SOAP proxy handles all translation automatically, so you do not need to modify your integration to benefit from the modernized backend.

What This Guide Covers

This guide documents:

- **Authentication** — OAuth2 client credentials flow for SOAP endpoint access
- **SOAP Operations** — All 10 operations (Add, Get, Search, Update, Delete for CANS and PSC)
- **Error Handling** — SOAP-layer and API-layer error responses with troubleshooting guidance
- **Identity and Persistence** — How assessments are persisted and linked across SQL and FHIR
- **Level of Care** — How LOC is calculated and returned for CANS assessments
- **Testing and Certification** — Sandbox environments, test data, and certification checklist

> **Note**: If you are considering a migration to native FHIR submission, see the EPSDT FHIR Migration Guide for detailed mapping and transition guidance.

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4. Dual Intake-Path Architecture

The EPSDT assessment pipeline uses a **dual intake-path architecture** where both legacy SOAP/XML submissions and native FHIR submissions converge on a single, shared processing endpoint within the HIDEX Provider Access API.

Architecture Overview

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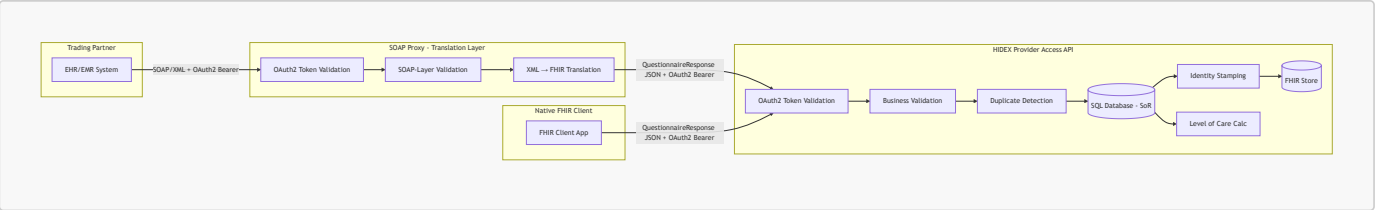

Path A: SOAP/XML Submissions (This Guide)

When you submit an assessment via the SOAP interface:

1. **SOAP Proxy** receives your XML message with an OAuth2 Bearer token
2. **SOAP Proxy** validates the token and performs SOAP-layer validation (XML schema, required fields)
3. **SOAP Proxy** translates the XML message into a FHIR R4 `QuestionnaireResponse` resource
4. **SOAP Proxy** forwards the translated resource to the HIDEX Provider Access API at `/fhir/QuestionnaireResponse`
5. **HIDEX Provider Access API** processes the submission (validation, duplicate detection, persistence, identity stamping, Level of Care)

Path B: Native FHIR Submissions

Native FHIR clients submit directly to the HIDEX Provider Access API:

1. **FHIR Client** submits a `QuestionnaireResponse` resource with an OAuth2 Bearer token
2. **HIDEX Provider Access API** processes the submission (same pipeline as Path A)

> **Important**: Both paths converge on the same authenticated endpoint inside the HIDEX Provider Access API. The same assessment payload submitted via SOAP/XML and via native FHIR produces the same validation errors, the same HTTP status semantics, and the same persistence outcome.

SOAP Proxy Responsibilities

The SOAP Proxy is a **translation layer only**. It handles:

Responsibility	Description
OAuth2 Token Validation	Validates the Bearer token in the HTTP Authorization header
ProgramID Validation	Validates the ProgramID in the SOAP message context
SOAP-Layer Validation	Validates XML schema conformance and required SOAP fields
XML → FHIR Translation	Converts XML message to FHIR R4 QuestionnaireResponse
Forward to API	Submits the translated QuestionnaireResponse to the HIDEX Provider Access API

HIDEX Provider Access API Responsibilities

The HIDEX Provider Access API owns all **business logic and persistence**:

Responsibility	Description
OAuth2 Token Validation	Validates the Bearer token for API access
ProgramID Authorization	Validates the ProgramID claim matches the assessment's ProgramID
Business Validation	Applies EPSDT business rules (same rules for SOAP and FHIR)
Duplicate Detection	Prevents duplicate assessments based on ProviderNumber + AssessmentType + AssessmentDate + ClientID
SQL Write (System of Record)	Persists the assessment to SQL database as the authoritative record

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Responsibility	Description
Identity Stamping	Stamps the EPSDT SQL id onto the FHIR resource identifier
FHIR Store Write	Writes the identity-stamped resource to the FHIR store
Level of Care Calculation	Calculates LOC score (1–5) for standard CANS assessments

What Changes vs What Remains the Same

Aspect	Previous Architecture	Current Architecture
SOAP Message Format	XML SOAP envelope with assessment data	**Unchanged** — Same XML schema, same elements
SOAP Operations	Add, Get, Search, Update, Delete for CANS and PSC	**Unchanged** — All 10 operations supported
Authentication	Varies by environment	**Unified OAuth2** — Same credentials for SOAP and FHIR
SOAP Proxy Role	Persistence, validation, duplicate detection	**Translation only** — Forwards to HIDEX Provider Access API
Persistence	SOAP proxy wrote directly to SQL	**Dual-write via API** — SQL first (SoR), then FHIR store
Validation	SOAP proxy performed business validation	**API validates** — Same rules for SOAP and FHIR
Duplicate Detection	SOAP proxy detected duplicates	**API detects** — Consistent across both paths
Identity Stamping	SOAP proxy stamped identifiers	**API stamps** — EPSDT id links SQL and FHIR records
Level of Care	Calculated separately	**API calculates** — Consistent LOC for both paths
Error Responses	SOAP-specific errors	**Consistent errors** — Same validation errors for same payload

System of Record

The **SQL database is the system of record** for EPSDT assessments. The FHIR store is an additional, joinable copy that is linked to SQL by the EPSDT id (ServiceRequestID/SubmissionID).

The dual-write ordering ensures data consistency:

1. **SQL Write** — Assessment is persisted to SQL; SQL generates the EPSDT id
2. **Identity Stamping** — EPSDT id is stamped onto the FHIR resource identifier
3. **FHIR Write** — Identity-stamped resource is written to the FHIR store

> **Note**: If the SQL write fails or returns no EPSDT id, the FHIR store is left unchanged. This ensures the system of record is always authoritative.

Benefits of Convergence

The dual intake-path architecture provides several benefits for Trading Partners:

- **Consistent Behavior** — Same validation, same errors, same persistence regardless of intake path
- **Future Migration Path** — When ready, you can migrate to native FHIR without changing backend behavior
- **Unified Credentials** — Same OAuth2 authentication works for both SOAP and FHIR integration
- **Single Source of Truth** — SQL remains the system of record with FHIR as a queryable copy

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5. Authentication

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The EPSDT SOAP Proxy uses OAuth2 client credentials for authentication. This is the same authentication model used by the HIDEX Provider Access API for native FHIR submissions, meaning **the same OAuth2 credentials work for both SOAP/XML and native FHIR integration paths**.

Unified OAuth2 Authentication Model

Integration Path	Authentication Method	Token Audience
SOAP/XML (your application → SOAP Proxy)	OAuth2 Bearer Token	EPSDT SOAP Proxy API
Native FHIR (application → HIDEX Provider Access API)	OAuth2 Bearer Token	HIDEX Provider Access API

Both paths use OAuth2 client credentials. If you later migrate from SOAP to native FHIR, you use the same credential management patterns—only the endpoint and payload format change.

Requests require an OAuth2 bearer token (client credentials grant) plus an APIM subscription key. See the API Credentials Reference table below for the specific values the Integration Team provisions for your organization.

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 (`client_id`)
Client Secret	App Registration	Shared across TEST and QA	Your OAuth2 application secret (`client_secret`) — store securely
Tenant ID	Azure AD	Same for both TEST and QA	The Azure AD tenant identifier (`tenant_id`)
Resource Audience	OAuth2 Scope	Same for both TEST and QA	`api://{resource/appID}/.default` — used as the `scope` parameter in the token request
Base URL	Endpoint	Environment-specific	TEST: `https://hidex-test.dmh.lacounty.gov/EPSDT` QA: `https://hidex-qa.dmh.lacounty.gov/EPSDT`
APIM Subscription Key	API Management	Environment-specific	Sent as the `Ocp-Apim-Subscription-Key` 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.

Token Endpoint URLs

Environment	Token Endpoint
TEST	`https://login.microsoftonline.com/{tenant-id}/oauth2/v2.0/token`
QA	`https://login.microsoftonline.com/{tenant-id}/oauth2/v2.0/token`
PRODUCTION	`https://login.microsoftonline.com/{tenant-id}/oauth2/v2.0/token`

> **Note**: The same token endpoint serves both SOAP and native FHIR paths. See the API Credentials Reference table above for your tenant ID, client ID, client secret, and resource audience.

Obtaining an Access Token

Request an OAuth2 access token using the client credentials flow:

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```
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}
```

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

Token Response:

```
{
  "token_type": "Bearer",
  "expires_in": 3600,
  "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIs..."
}
```

> **Note**: Tokens expire after 1 hour. Your application should cache the token and refresh before expiry to avoid authentication failures during submission.

Using the Token with SOAP Requests

Include the OAuth2 Bearer token in the HTTP `Authorization` header, along with the APIM subscription key in the `Ocp-Apim-Subscription-Key` header, when making SOAP requests:

```
POST https://hidex-test.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc
Authorization: Bearer {access_token}
Ocp-Apim-Subscription-Key: {your-subscription-key}
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/AddCANS"
```

ProgramID Placement in SOAP Messages

The `ProgramID` identifies your program and is placed in the message context input within the SOAP envelope. Here is a sample SOAP envelope showing ProgramID placement for an AddCANS operation:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://tempuri.org/">
  <soap:Header/>
  <soap:Body>
    <epsdt:AddCANS>
      <epsdt:messageContextInput>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
        <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
      </epsdt:messageContextInput>
      <epsdt:cansInput>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:AssessmentType>1</epsdt:AssessmentType>
        <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>
        <epsdt:AssessingPractitionerNPI>1234567890</epsdt:AssessingPractitionerNPI>
        <!-- Additional CANS fields... -->
```

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```
      </epsdt:cansInput>
    </epsdt:AddCANS>
  </soap:Body>
</soap:Envelope>
```

ProgramID Authorization

The OAuth2 token includes a `ProgramID` claim that identifies which programs you are authorized to submit assessments for. The SOAP Proxy validates that:

1. The OAuth2 token contains a valid `ProgramID` claim
2. The `ProgramID` in your SOAP message matches one of the ProgramIDs in your token's claim set

> **Important**: If the `ProgramID` in your submission does not match your token's authorized ProgramID claims, the request is rejected and no assessment data is persisted. This validation ensures Trading Partners can only submit assessments for programs they are contracted to serve.

Authentication Errors

Error Condition	HTTP Status	Response
Missing Authorization header	401 Unauthorized	Request rejected; no data forwarded
Invalid or malformed token	401 Unauthorized	Request rejected; no data forwarded
Expired token	401 Unauthorized	Request rejected; no data forwarded
Missing ProgramID in message	Error response	SOAP fault indicating ProgramID is required
Invalid ProgramID (not in token claims)	Error response	SOAP fault indicating ProgramID authorization failure
ProgramID mismatch (message vs token)	Error response	SOAP fault indicating ProgramID does not match authorized claims

> **Note**: When you receive a 401 Unauthorized response, refresh your access token and retry the request. If the error persists, verify your client credentials and scope configuration with DMH.

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6. Endpoint Configuration

This section provides the endpoint URLs for the EPSDT SOAP proxy and the underlying HIDEX Provider Access API across all environments.

Base URLs by Environment

Environment	Base URL
TEST	`https://hidex-test.dmh.lacounty.gov/EPSDT`
QA	`https://hidex-qa.dmh.lacounty.gov/EPSDT`
PRODUCTION	`https://hidex.dmh.lacounty.gov/EPSDT`

> **Note**: Both the SOAP proxy operations and the HIDEX Provider Access API are reached through this same base URL — the SOAP proxy forwards translated submissions internally. Trading Partners do not need a separate address for the HIDEX Provider Access API.

WSDL URLs by Environment

The WSDL defines the service contract for all SOAP operations. Use the appropriate URL for your target environment:

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Environment	WSDL URL
TEST	`https://hidex-test.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`
QA	`https://hidex-qa.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`
PRODUCTION	`https://hidex.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`

SOAP Service Endpoint

All SOAP operations are invoked at the following endpoint path appended to the environment base URL:

```
/EPSDTService/EPSDTServiceInterface.svc
```

For example, to invoke a SOAP operation in TEST:

```
POST https://hidex-test.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc
Content-Type: text/xml; charset=utf-8
Authorization: Bearer {access_token}
Ocp-Apim-Subscription-Key: {your-subscription-key}
SOAPAction: "http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/{OperationName}"
```

Authentication

All environments use the same OAuth2 client credentials flow for authentication, plus an APIM subscription key. See Section 5. Authentication and the API Credentials Reference table for details on obtaining and using tokens and subscription keys.

> **Note**: The SOAP proxy and HIDEX Provider Access API share the same authentication requirements. Once you have a valid token and subscription key, include both in the HTTP headers for all SOAP requests.

Environment Promotion Path

Trading Partners follow this certification path when integrating:

1. **TEST** — Integration testing and certification
2. **QA** — Pre-production validation with production-like data
3. **PRODUCTION** — Live traffic

> **Important**: Complete certification in TEST and QA environments before requesting production access. See Section 12. Testing and Certification for the certification checklist.

WSDL Schema and Backward Compatibility

The WSDL defines all supported SOAP operations, request/response message formats, and data types. Trading Partners should use the WSDL to generate client proxy classes for their preferred programming language.

The WSDL is available at the URLs listed in WSDL URLs by Environment above.

New Optional XML Elements

The WSDL schema includes the following new optional elements that support expanded CANS assessment capabilities. All new elements are declared with `minOccurs="0"` to ensure backward compatibility:

Element	Type	Description
`WitnessToCommunitySchoolViolence`	integer (0–3)	New CANS item measuring exposure to violence in community or school settings

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Element	Type	Description
CR41b	integer (0–3)	Caregiver variant: Supervision — Secondary caregiver
CR42b	integer (0–3)	Caregiver variant: Involvement — Secondary caregiver
CR43b	integer (0–3)	Caregiver variant: Knowledge — Secondary caregiver
CR44b	integer (0–3)	Caregiver variant: Organization — Secondary caregiver
CR45b	integer (0–3)	Caregiver variant: Social Resources — Secondary caregiver
CR46b	integer (0–3)	Caregiver variant: Residential Stability — Secondary caregiver
CR47b	integer (0–3)	Caregiver variant: Medical/Physical — Secondary caregiver
CR48b	integer (0–3)	Caregiver variant: Mental Health — Secondary caregiver
CR49b	integer (0–3)	Caregiver variant: Substance Use — Secondary caregiver
CR50b	integer (0–3)	Caregiver variant: Developmental — Secondary caregiver
CR41c	integer (0–3)	Caregiver variant: Supervision — Tertiary caregiver
CR42c	integer (0–3)	Caregiver variant: Involvement — Tertiary caregiver
CR43c	integer (0–3)	Caregiver variant: Knowledge — Tertiary caregiver
CR44c	integer (0–3)	Caregiver variant: Organization — Tertiary caregiver
CR45c	integer (0–3)	Caregiver variant: Social Resources — Tertiary caregiver
CR46c	integer (0–3)	Caregiver variant: Residential Stability — Tertiary caregiver
CR47c	integer (0–3)	Caregiver variant: Medical/Physical — Tertiary caregiver
CR48c	integer (0–3)	Caregiver variant: Mental Health — Tertiary caregiver
CR49c	integer (0–3)	Caregiver variant: Substance Use — Tertiary caregiver
CR50c	integer (0–3)	Caregiver variant: Developmental — Tertiary caregiver
CR41d	integer (0–3)	Caregiver variant: Supervision — Quaternary caregiver

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Element	Type	Description
CR42d	integer (0–3)	Caregiver variant: Involvement — Quaternary caregiver
CR43d	integer (0–3)	Caregiver variant: Knowledge — Quaternary caregiver
CR44d	integer (0–3)	Caregiver variant: Organization — Quaternary caregiver
CR45d	integer (0–3)	Caregiver variant: Social Resources — Quaternary caregiver
CR46d	integer (0–3)	Caregiver variant: Knowledge — Quaternary caregiver
CR47d	integer (0–3)	Caregiver variant: Medical/Physical — Quaternary caregiver
CR48d	integer (0–3)	Caregiver variant: Mental Health — Quaternary caregiver
CR49d	integer (0–3)	Caregiver variant: Substance Use — Quaternary caregiver
CR50d	integer (0–3)	Caregiver variant: Developmental — Quaternary caregiver

> **Note**: The `CR41b` through `CR50d` elements extend the existing caregiver assessment items (`CR41` through `CR50`) to support assessments involving multiple caregivers. The suffix indicates the caregiver: `b` = secondary, `c` = tertiary, `d` = quaternary.

Backward Compatibility

Legacy messages that omit the new optional elements continue to work unchanged. The WSDL schema enforces backward compatibility through the following design:

1. **All new elements have** `minOccurs="0"` — The schema does not require these elements. Messages without them are valid.
2. **Default behavior** — When a new optional element is omitted, the system treats it as not assessed (null). This is consistent with other optional CANS items.
3. **No breaking changes** — Existing client code generated from previous WSDL versions will continue to work. You only need to regenerate client proxies if you want to use the new optional elements.

> **Important**: Your existing XML messages continue to work without modification. The SOAP proxy handles all translation automatically, and the HIDEX Provider Access API processes submissions identically whether they include the new optional elements or not.

Example: Using New Optional Elements

To include the new optional elements in an AddCANS submission, add them to the `cansInput` element:

```
<epsdt:cansInput>
  <!-- Standard CANS fields... -->
  <epsdt:ClientID>3462959</epsdt:ClientID>
  <epsdt:AssessmentType>1</epsdt:AssessmentType>
  <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>

  <!-- New optional element: Witness to Community/School Violence -->
  <epsdt:WitnessToCommunitySchoolViolence>2</epsdt:WitnessToCommunitySchoolViolence>
```

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```
  <!-- Existing primary caregiver items -->
  <epsdt:CR41>1</epsdt:CR41>
  <epsdt:CR42>0</epsdt:CR42>
  <!-- ... -->

  <!-- New optional caregiver variants for secondary caregiver -->
  <epsdt:CR41b>2</epsdt:CR41b>
  <epsdt:CR42b>1</epsdt:CR42b>
  <!-- ... -->
</epsdt:cansInput>
```

---

7. SOAP Operations — CANS

This section documents the five SOAP operations for CANS-50 (Child and Adolescent Needs and Strengths) assessments. Each operation includes the operation name, description, preconditions, sample XML request/response, and (where applicable) the translated FHIR R4 QuestionnaireResponse.

CANS Operations Overview

Operation	Description	HTTP Method
SearchCANS	Search for CANS assessments by client and program	POST
AddCANS	Create a new CANS assessment	POST
GetCANS	Retrieve a specific CANS assessment by ID	POST
UpdateCANS	Update an existing CANS assessment	POST
DeleteCANS	Soft delete a CANS assessment	POST

> **Note**: All SOAP operations use HTTP POST with the SOAP envelope in the request body. The SOAPAction header identifies the specific operation.

7.1 SearchCANS

Description: Search for CANS assessments matching the specified criteria.

Preconditions:

- Valid OAuth2 Bearer token in the Authorization header
- ProgramID must match one of the token's authorized ProgramID claims
- At least one search parameter (ClientID or ProgramID) must be provided

SOAPAction: `http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/SearchCANS`

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:SearchCANS>
      <epsdt:request>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
```

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```
    </epsdt:SearchCANS>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:SearchCANSResponse>
      <epsdt:SearchCANSResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>12345</epsdt:ServiceRequestID>
      </epsdt:SearchCANSResult>
    </epsdt:SearchCANSResponse>
  </soap:Body>
</soap:Envelope>
```

> **Note**: It is recommended to use SearchCANS prior to AddCANS to check for existing active records and avoid duplicate submissions.

7.2 AddCANS

Description: Create a new CANS-50 assessment. The SOAP proxy translates the XML message into a FHIR R4 QuestionnaireResponse and submits it to the HIDEX Provider Access API for validation, duplicate detection, and persistence.

Preconditions:

- Valid OAuth2 Bearer token in the Authorization header
- ProgramID must match one of the token's authorized ProgramID claims
- ClientID must reference an existing client in IBHIS
- All required assessment fields must be provided
- No active duplicate exists (same ProviderNumber + AssessmentType + AssessmentDate + ClientID)

SOAPAction: `http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/AddCANS`

Duplicate Prevention

The HIDEX Provider Access API prevents duplicate assessments based on the following combination of fields:

Field	Description
ProviderNumber	The submitting provider's number
AssessmentType	Assessment type code ("1" = Initial/Standard, "5" = Admin close)
AssessmentDate	Date of the assessment (YYYY-MM-DD)
ClientID	The IBHIS Client ID

If a submission matches an existing active record on all four fields, the API returns HTTP 409 (Conflict) and the assessment is rejected.

> **Important**: Use SearchCANS before AddCANS to check for existing records and avoid duplicate submission errors.

Sample Request:

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```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:AddCANS>
      <epsdt:request>
        <!-- Identity -->
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
        <epsdt:AssessingPractitionerNPI>1234567890</epsdt:AssessingPractitionerNPI>

        <!-- Assessment Metadata -->
        <epsdt:AssessmentType>1</epsdt:AssessmentType>
        <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>
        <epsdt:Caregiver>Y</epsdt:Caregiver>

        <!-- Contributors -->
        <epsdt:ContributorName1>Jane Smith</epsdt:ContributorName1>
        <epsdt:ContributorRelationship1>Parent</epsdt:ContributorRelationship1>

        <!-- Caregivers -->
        <epsdt:CaregiverNameA>Jane Smith</epsdt:CaregiverNameA>
        <epsdt:CaregiverRelationshipA>Mother</epsdt:CaregiverRelationshipA>

        <!-- Child Behavioral/Emotional Needs (Q01-Q09) -->
        <epsdt:CBQuestion01>1</epsdt:CBQuestion01>
        <epsdt:CBQuestion02>0</epsdt:CBQuestion02>
        <epsdt:CBQuestion03>2</epsdt:CBQuestion03>
        <epsdt:CBQuestion04>0</epsdt:CBQuestion04>
        <epsdt:CBQuestion05>1</epsdt:CBQuestion05>
        <epsdt:CBQuestion06>0</epsdt:CBQuestion06>
        <epsdt:CBQuestion07>1</epsdt:CBQuestion07>
        <epsdt:CBQuestion08>0</epsdt:CBQuestion08>
        <epsdt:CBQuestion09>0</epsdt:CBQuestion09>

        <!-- Life Domain Functioning (Q10-Q20) -->
        <epsdt:LDQuestion10>1</epsdt:LDQuestion10>
        <epsdt:LDQuestion11>0</epsdt:LDQuestion11>
        <epsdt:LDQuestion12>1</epsdt:LDQuestion12>
        <epsdt:LDQuestion13>0</epsdt:LDQuestion13>
        <epsdt:LDQuestion14>1</epsdt:LDQuestion14>
        <epsdt:LDQuestion15>0</epsdt:LDQuestion15>
        <epsdt:LDQuestion16>0</epsdt:LDQuestion16>
        <epsdt:LDQuestion17>1</epsdt:LDQuestion17>
        <epsdt:LDQuestion18>0</epsdt:LDQuestion18>
        <epsdt:LDQuestion19>0</epsdt:LDQuestion19>
        <epsdt:LDQuestion20>1</epsdt:LDQuestion20>

        <!-- Risk Behaviors (Q21-Q28) -->
        <epsdt:RBQuestion21>0</epsdt:RBQuestion21>
        <epsdt:RBQuestion22>0</epsdt:RBQuestion22>
        <epsdt:RBQuestion23>1</epsdt:RBQuestion23>
        <epsdt:RBQuestion24>0</epsdt:RBQuestion24>
        <epsdt:RBQuestion25>0</epsdt:RBQuestion25>
        <epsdt:RBQuestion26>0</epsdt:RBQuestion26>
        <epsdt:RBQuestion27>0</epsdt:RBQuestion27>
        <epsdt:RBQuestion28>0</epsdt:RBQuestion28>

        <!-- Cultural Factors (Q29-Q31) -->
```

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```
        <epsdt:CFQuestion29>0</epsdt:CFQuestion29>
        <epsdt:CFQuestion30>1</epsdt:CFQuestion30>
        <epsdt:CFQuestion31>0</epsdt:CFQuestion31>

        <!-- Strengths Domain (Q32-Q40) -->
        <epsdt:SDQuestion32>2</epsdt:SDQuestion32>
        <epsdt:SDQuestion33>1</epsdt:SDQuestion33>
        <epsdt:SDQuestion34>2</epsdt:SDQuestion34>
        <epsdt:SDQuestion35>1</epsdt:SDQuestion35>
        <epsdt:SDQuestion36>2</epsdt:SDQuestion36>
        <epsdt:SDQuestion37>1</epsdt:SDQuestion37>
        <epsdt:SDQuestion38>2</epsdt:SDQuestion38>
        <epsdt:SDQuestion39>1</epsdt:SDQuestion39>
        <epsdt:SDQuestion40>2</epsdt:SDQuestion40>

        <!-- Caregiver Resources and Needs (Q41-Q50) -->
        <epsdt:CRQuestion41>0</epsdt:CRQuestion41>
        <epsdt:CRQuestion42>1</epsdt:CRQuestion42>
        <epsdt:CRQuestion43>0</epsdt:CRQuestion43>
        <epsdt:CRQuestion44>0</epsdt:CRQuestion44>
        <epsdt:CRQuestion45>1</epsdt:CRQuestion45>
        <epsdt:CRQuestion46>0</epsdt:CRQuestion46>
        <epsdt:CRQuestion47>0</epsdt:CRQuestion47>
        <epsdt:CRQuestion48>0</epsdt:CRQuestion48>
        <epsdt:CRQuestion49>1</epsdt:CRQuestion49>
        <epsdt:CRQuestion50>0</epsdt:CRQuestion50>

        <!-- Trauma (T1-T12) -->
        <epsdt:T1>0</epsdt:T1>
        <epsdt:T2>0</epsdt:T2>
        <epsdt:T3>1</epsdt:T3>
        <epsdt:T4>0</epsdt:T4>
        <epsdt:T5>0</epsdt:T5>
        <epsdt:T6>0</epsdt:T6>
        <epsdt:T7>0</epsdt:T7>
        <epsdt:T8>0</epsdt:T8>
        <epsdt:T9>0</epsdt:T9>
        <epsdt:T10>0</epsdt:T10>
        <epsdt:T11>0</epsdt:T11>
        <epsdt:T12>0</epsdt:T12>
      </epsdt:request>
    </epsdt:AddCANS>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:AddCANSResponse>
      <epsdt:AddCANSResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>67890</epsdt:ServiceRequestID>
      </epsdt:AddCANSResult>
    </epsdt:AddCANSResponse>
  </soap:Body>
</soap:Envelope>
```

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> **Note**: The `ServiceRequestID` returned in the response is the EPSDT SQL id. This same value is stamped onto the FHIR resource identifier and can be used for subsequent GetCANS, UpdateCANS, and DeleteCANS operations.

Translated FHIR QuestionnaireResponse

When the SOAP proxy receives an AddCANS request, it translates the XML into a FHIR R4 QuestionnaireResponse and submits it to the HIDEX Provider Access API. Below is the translated FHIR resource for the sample AddCANS request above:


```
{
  "resourceType": "QuestionnaireResponse",
  "questionnaire": "http://fhir.dmh.lacounty.gov/Questionnaire/CANS",
  "status": "completed",
  "subject": {
    "reference": "Patient/3462959"
  },
  "source": {
    "reference": "Practitioner/1234567890"
  },
  "author": {
    "reference": "Organization/12345"
  },
  "authored": "2025-06-15",
  "meta": {
    "tag": [
      {
        "code": "CANS",
        "display": "CANS"
      }
    ]
  },
  "identifier": [
    {
      "system": "https://lacdmh.lacounty.gov/epsdt/cans",
      "value": "67890"
    }
  ],
  "item": [
    {
      "linkId": "child-behavioral-emotional-needs",
      "item": [
        {
          "linkId": "CBQuestion01",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "1" } }]
        },
        {
          "linkId": "CBQuestion02",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "0" } }]
        },
        {
          "linkId": "CBQuestion03",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "2" } }]
        }
      ]
    },
    {
      "linkId": "life-domain-functioning",
      "item": [
        {
```


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```
          "linkId": "LDQuestion10",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "1" } }]
        }
      ]
    },
    {
      "linkId": "risk-behaviors",
      "item": [
        {
          "linkId": "RBQuestion21",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "0" } }]
        }
      ]
    },
    {
      "linkId": "cultural-factors",
      "item": [
        {
          "linkId": "CFQuestion29",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "0" } }]
        }
      ]
    },
    {
      "linkId": "strengths-domain",
      "item": [
        {
          "linkId": "SDQuestion32",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "2" } }]
        }
      ]
    },
    {
      "linkId": "caregiver-resources-needs",
      "item": [
        {
          "linkId": "CRQuestion41",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "0" } }]
        }
      ]
    },
    {
      "linkId": "trauma",
      "item": [
        {
          "linkId": "T1",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "0" } }]
        }
      ]
    },
    {
      "linkId": "ContributorName1",
      "answer": [{ "valueString": "Jane Smith" }]
    },
    {
      "linkId": "ContributorRelationship1",
```

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```
        "answer": [{ "valueCoding": { "code": "Parent" } }]
      },
      {
        "linkId": "CaregiverNameA",
        "answer": [{ "valueString": "Jane Smith" }]
      },
      {
        "linkId": "CaregiverRelationshipA",
        "answer": [{ "valueCoding": { "code": "Mother" } }]
      },
      {
        "linkId": "401",
        "answer": [{ "valueDate": "2025-06-15" }]
      },
      {
        "linkId": "402",
        "answer": [{ "valueCoding": { "code": "1" } }]
      },
      {
        "linkId": "408",
        "answer": [{ "valueCoding": { "code": "Y" } }]
      }
    ]
  }
```

> **Note**: The FHIR QuestionnaireResponse shown above is abbreviated for clarity. The actual translated resource includes all domain groups with their complete question items. Question scores use `valueCoding` with the CANSQA terminology system. Metadata items (assessment date, type, caregiver indicator) appear at the top level.

7.3 GetCANS

Description: Retrieve a specific CANS assessment by its SubmissionID (CANSID).

Preconditions:

- Valid OAuth2 Bearer token in the Authorization header
- ProgramID must match one of the token's authorized ProgramID claims
- SubmissionID must reference an existing CANS assessment

SOAPAction: `http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/GetCANS`

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:GetCANS>
      <epsdt:request>
        <epsdt:SubmissionID>67890</epsdt:SubmissionID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
    </epsdt:GetCANS>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

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```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:GetCANSResponse>
      <epsdt:GetCANSResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>67890</epsdt:ServiceRequestID>
      </epsdt:GetCANSResult>
    </epsdt:GetCANSResponse>
  </soap:Body>
</soap:Envelope>
```

> **Note**: The GetCANS operation retrieves the assessment data from the SQL database (system of record). The `SubmissionID` in the request corresponds to the `ServiceRequestID` returned by AddCANS.

7.4 UpdateCANS

Description: Update an existing CANS assessment. The SOAP proxy translates the updated XML message into a FHIR R4 QuestionnaireResponse and submits it to the HIDEX Provider Access API.

Preconditions:

- Valid OAuth2 Bearer token in the Authorization header
- ProgramID must match one of the token's authorized ProgramID claims
- CANSID (SubmissionID) must reference an existing, active CANS assessment
- The assessment must not be in a finalized or locked state

SOAPAction: `http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/UpdateCANS`

> **Important**: UpdateCANS requires the `CANSID` field (SubmissionID) to identify which assessment to update. This is the same value returned as `ServiceRequestID` from the original AddCANS operation.

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:UpdateCANS>
      <epsdt:request>
        <!-- Identity - CANSID is required for update -->
        <epsdt:CANSID>67890</epsdt:CANSID>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
        <epsdt:AssessingPractitionerNPI>1234567890</epsdt:AssessingPractitionerNPI>

        <!-- Assessment Metadata -->
        <epsdt:AssessmentType>1</epsdt:AssessmentType>
        <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>
        <epsdt:Caregiver>Y</epsdt:Caregiver>

        <!-- Updated scores -->
        <epsdt:CBQuestion01>2</epsdt:CBQuestion01>
        <epsdt:CBQuestion02>1</epsdt:CBQuestion02>
        <epsdt:CBQuestion03>2</epsdt:CBQuestion03>
```

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```
        <!-- ... remaining fields ... -->
      </epsdt:request>
    </epsdt:UpdateCANS>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:UpdateCANSResponse>
      <epsdt:UpdateCANSResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>67890</epsdt:ServiceRequestID>
      </epsdt:UpdateCANSResult>
    </epsdt:UpdateCANSResponse>
  </soap:Body>
</soap:Envelope>
```

Translated FHIR QuestionnaireResponse

When the SOAP proxy receives an UpdateCANS request, it translates the XML into a FHIR R4 QuestionnaireResponse with the existing identifier preserved:

```
{
  "resourceType": "QuestionnaireResponse",
  "questionnaire": "http://fhir.dmh.lacounty.gov/Questionnaire/CANS",
  "status": "completed",
  "subject": {
    "reference": "Patient/3462959"
  },
  "source": {
    "reference": "Practitioner/1234567890"
  },
  "author": {
    "reference": "Organization/12345"
  },
  "authored": "2025-06-15",
  "meta": {
    "tag": [
      {
        "code": "CANS",
        "display": "CANS"
      }
    ]
  },
  "identifier": [
    {
      "system": "https://lacdmh.lacounty.gov/epsdt/cans",
      "value": "67890"
    }
  ],
  "item": [
    {
      "linkId": "child-behavioral-emotional-needs",
      "item": [
```

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```
        {
          "linkId": "CBQuestion01",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "2" } }]
        },
        {
          "linkId": "CBQuestion02",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "1" } }]
        },
        {
          "linkId": "CBQuestion03",
          "answer": [{ "valueCoding": { "system":
"https://fhir.dmh.lacounty.gov/v4/Terminology/CANSQA", "code": "2" } }]
        }
      ]
    },
    {
      "linkId": "401",
      "answer": [{ "valueDate": "2025-06-15" }]
    },
    {
      "linkId": "402",
      "answer": [{ "valueCoding": { "code": "1" } }]
    },
    {
      "linkId": "408",
      "answer": [{ "valueCoding": { "code": "Y" } }]
    }
  ]
}
```

> **Note**: The UpdateCANS operation preserves the same `identifier` value from the original AddCANS operation. The HIDEX Provider Access API uses this identifier to locate and update the existing record in both SQL and FHIR stores.

7.5 DeleteCANS

Description: Soft delete a CANS assessment. The assessment is marked as inactive but not physically removed from the database.

Preconditions:

- Valid OAuth2 Bearer token in the Authorization header
- ProgramID must match one of the token's authorized ProgramID claims
- SubmissionID must reference an existing, active CANS assessment

SOAPAction: `http://lacdmh.lacounty.gov/EPSDT/2021/IEpsdtServiceInterface/DeleteCANS`

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:DeleteCANS>
      <epsdt:request>
        <epsdt:SubmissionID>67890</epsdt:SubmissionID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
```

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```
    </epsdt:DeleteCANS>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:DeleteCANSResponse>
      <epsdt:DeleteCANSResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>67890</epsdt:ServiceRequestID>
      </epsdt:DeleteCANSResult>
    </epsdt:DeleteCANSResponse>
  </soap:Body>
</soap:Envelope>
```

> **Important**: DeleteCANS performs a soft delete. The assessment record is marked as inactive in SQL and the FHIR store, but the data is retained for audit and historical purposes. A deleted assessment will no longer appear in SearchCANS results and cannot be updated.

CANS Data Elements Reference

The following table summarizes the key data elements for CANS assessments:

Element	Type	Description
CANSID	string	Assessment ID (required for Update/Delete, returned in Add response)
ClientID	string	IBHIS Client ID (required)
ProviderNumber	string	Submitting provider number (required)
ProgramID	string	Program identifier (required, must match OAuth2 token claim)
AssessingPractitionerNPI	string	NPI of assessing practitioner (required)
AssessmentType	string	"1" = Initial/Standard, "5" = Admin close
AssessmentDate	string	Assessment date in YYYY-MM-DD format (required)
AdminCloseReason	string	Reason code for admin close (required when AssessmentType = "5")
Caregiver	string	"Y" or "N" indicating caregiver participation
CBQuestion01–09	string	Child Behavioral/Emotional Needs scores (0–3)
LDQuestion10–20	string	Life Domain Functioning scores (0–3)
RBQuestion21–28	string	Risk Behaviors scores (0–3)
CFQuestion29–31	string	Cultural Factors scores (0–3)
SDQuestion32–40	string	Strengths Domain scores (0–3)
CRQuestion41–50	string	Caregiver Resources and Needs scores (0–3)
CRQuestion41b–50d	string	Caregiver variant scores for additional caregivers (optional)
T1–T12	string	Trauma indicator scores (0–3)

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> **Note**: CANS scoring uses a 0–3 scale: 0 = No evidence, 1 = Watchful waiting/prevention, 2 = Action needed, 3 = Immediate/intensive action needed. See Section 13. Quick Reference for complete scoring details.

---

8. SOAP Operations — PSC

This section documents the five SOAP operations for managing PSC-35 (Pediatric Symptom Checklist) assessments. The PSC-35 is a parent/caregiver-reported screening tool with 35 questions scored on a 0–2 scale (Never, Sometimes, Often).

> **Note**: All PSC operations follow the same authentication and error handling patterns as CANS operations. See Section 5. Authentication and Section 9. Error Handling for details.

8.1 SearchPSC

Search for PSC assessments by ClientID and/or ProgramID.

Preconditions:

- Valid OAuth2 Bearer token in the HTTP Authorization header
- At least one search parameter must be provided (ClientID or ProgramID)

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:SearchPSC>
      <epsdt:request>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
    </epsdt:SearchPSC>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Success):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:SearchPSCResponse>
      <epsdt:SearchPSCResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>PSC-2025-001,PSC-2025-002</epsdt:ServiceRequestID>
      </epsdt:SearchPSCResult>
    </epsdt:SearchPSCResponse>
  </soap:Body>
</soap:Envelope>
```

Sample Response (No Results):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
```

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```
  <soap:Body>
    <epsdt:SearchPSCResponse>
      <epsdt:SearchPSCResult>
        <epsdt:Acknowledgement>No records found</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID></epsdt:ServiceRequestID>
      </epsdt:SearchPSCResult>
    </epsdt:SearchPSCResponse>
  </soap:Body>
</soap:Envelope>
```

> **Note**: It is recommended to use SearchPSC prior to creating a new PSC assessment to check for existing active records for the client.

8.2 AddPSC

Create a new PSC-35 assessment for a client.

Preconditions:

- Valid OAuth2 Bearer token in the HTTP Authorization header
- ProgramID must match an authorized program in the token claims
- ClientID must reference an existing IBHIS client
- Required fields populated per WSDL schema (see Section 14. Dictionary Service for valid values)

Duplicate Prevention: The system prevents duplicate assessments based on the combination of:

- ProviderNumber
- AssessmentType
- AssessmentDate
- ClientID

If an active assessment already exists with this combination, AddPSC returns a duplicate error (HTTP 409). Use SearchPSC to check for existing records before submission.

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:AddPSC>
      <epsdt:request>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
        <epsdt:PractitionerReviewingNPI>1234567890</epsdt:PractitionerReviewingNPI>
        <epsdt:AssessmentType>1</epsdt:AssessmentType>
        <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>
        <epsdt:DataSource>AddPSC</epsdt:DataSource>
        <epsdt:RespondentName>Jane Doe</epsdt:RespondentName>
        <epsdt:RespondentRelationship>Parent</epsdt:RespondentRelationship>
        <epsdt:Question01>0</epsdt:Question01>
        <epsdt:Question02>1</epsdt:Question02>
        <epsdt:Question03>0</epsdt:Question03>
        <epsdt:Question04>2</epsdt:Question04>
        <epsdt:Question05>0</epsdt:Question05>
        <!-- Questions 06-35 omitted for brevity -->
        <epsdt:Question35>1</epsdt:Question35>
      </epsdt:request>
```

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```
    </epsdt:AddPSC>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Success):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:AddPSCResponse>
      <epsdt:AddPSCResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>98765</epsdt:ServiceRequestID>
      </epsdt:AddPSCResult>
    </epsdt:AddPSCResponse>
  </soap:Body>
</soap:Envelope>
```

> **Important**: The `ServiceRequestID` returned (98765 in this example) is the PSCID (SQL primary key) used for subsequent GetPSC, UpdatePSC, and DeletePSC operations. This same ID is stamped onto the FHIR QuestionnaireResponse as an identifier.

Translated FHIR QuestionnaireResponse (AddPSC):

The SOAP proxy translates the AddPSC request into the following FHIR R4 QuestionnaireResponse format before forwarding to the HIDEX Provider Access API:

```
{
  "resourceType": "QuestionnaireResponse",
  "questionnaire": "http://fhir.dmh.lacounty.gov/Questionnaire/PSC",
  "status": "completed",
  "subject": {
    "reference": "Patient/3462959"
  },
  "source": {
    "reference": "Practitioner/1234567890"
  },
  "author": {
    "reference": "Organization/12345"
  },
  "authored": "2025-06-15",
  "meta": {
    "tag": [
      {
        "code": "PSC",
        "display": "PSC"
      }
    ]
  },
  "identifier": [
    {
      "system": "https://lacdmh.lacounty.gov/epsdt/psc",
      "value": "98765"
    }
  ],
  "item": [
    {
      "linkId": "1",
```

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```
      "answer": [
        {
          "valueCoding": {
            "system": "https://fhir.dmh.lacounty.gov/v4/Terminology/PSCQA",
            "code": "0"
          }
        }
      ]
    },
    {
      "linkId": "2",
      "answer": [
        {
          "valueCoding": {
            "system": "https://fhir.dmh.lacounty.gov/v4/Terminology/PSCQA",
            "code": "1"
          }
        }
      ]
    },
    {
      "linkId": "401",
      "answer": [
        {
          "valueDate": "2025-06-15"
        }
      ]
    },
    {
      "linkId": "402",
      "answer": [
        {
          "valueCoding": {
            "code": "1"
          }
        }
      ]
    },
    {
      "linkId": "406",
      "answer": [
        {
          "valueString": "Jane Doe"
        }
      ]
    },
    {
      "linkId": "407",
      "answer": [
        {
          "valueCoding": {
            "code": "Parent"
          }
        }
      ]
    }
  ]
}
```

> **Note**: The `identifier` with system `https://lacdmh.lacounty.gov/epsdt/psc` is stamped by the HIDEX Provider Access API after the SQL write succeeds. This identifier links the FHIR resource to the SQL system of record.

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8.3 GetPSC

Retrieve a specific PSC assessment by its SubmissionID (PSCID).

Preconditions:

- Valid OAuth2 Bearer token in the HTTP Authorization header
- SubmissionID (PSCID) must reference an existing PSC assessment
- ProgramID must match an authorized program in the token claims

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:GetPSC>
      <epsdt:request>
        <epsdt:SubmissionID>98765</epsdt:SubmissionID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
    </epsdt:GetPSC>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Success):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:GetPSCResponse>
      <epsdt:GetPSCResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>98765</epsdt:ServiceRequestID>
      </epsdt:GetPSCResult>
    </epsdt:GetPSCResponse>
  </soap:Body>
</soap:Envelope>
```

8.4 UpdatePSC

Update an existing PSC assessment. The PSCID (SubmissionID) is required to identify the record to update.

Preconditions:

- Valid OAuth2 Bearer token in the HTTP Authorization header
- PSCID must reference an existing active PSC assessment
- ProgramID must match an authorized program in the token claims
- Required fields populated per WSDL schema

> **Important**: UpdatePSC requires the `PSCID` field to identify the record to update. This is the same value returned as `ServiceRequestID` from a successful AddPSC or SearchPSC operation.

Sample Request:

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```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:UpdatePSC>
      <epsdt:request>
        <epsdt:PSCID>98765</epsdt:PSCID>
        <epsdt:ClientID>3462959</epsdt:ClientID>
        <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
        <epsdt:PractitionerReviewingNPI>1234567890</epsdt:PractitionerReviewingNPI>
        <epsdt:AssessmentType>1</epsdt:AssessmentType>
        <epsdt:AssessmentDate>2025-06-15</epsdt:AssessmentDate>
        <epsdt:DataSource>UpdatePSC</epsdt:DataSource>
        <epsdt:RespondentName>Jane Doe</epsdt:RespondentName>
        <epsdt:RespondentRelationship>Parent</epsdt:RespondentRelationship>
        <epsdt:Question01>0</epsdt:Question01>
        <epsdt:Question02>2</epsdt:Question02>
        <epsdt:Question03>1</epsdt:Question03>
        <!-- Questions 04-35 omitted for brevity -->
        <epsdt:Question35>0</epsdt:Question35>
      </epsdt:request>
    </epsdt:UpdatePSC>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Success):

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:UpdatePSCResponse>
      <epsdt:UpdatePSCResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>98765</epsdt:ServiceRequestID>
      </epsdt:UpdatePSCResult>
    </epsdt:UpdatePSCResponse>
  </soap:Body>
</soap:Envelope>
```

Translated FHIR QuestionnaireResponse (UpdatePSC):

The UpdatePSC request is translated to the same FHIR format as AddPSC, with the existing PSCID preserved in the identifier:

```json
{
  "resourceType": "QuestionnaireResponse",
  "questionnaire": "http://fhir.dmh.lacounty.gov/Questionnaire/PSC",
  "status": "completed",
  "subject": {
    "reference": "Patient/3462959"
  },
  "source": {
    "reference": "Practitioner/1234567890"
  },
  "author": {
```

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```
    "reference": "Organization/12345"
  },
  "authored": "2025-06-15",
  "meta": {
    "tag": [
      {
        "code": "PSC",
        "display": "PSC"
      }
    ]
  },
  "identifier": [
    {
      "system": "https://lacdmh.lacounty.gov/epsdt/psc",
      "value": "98765"
    }
  ],
  "item": [
    {
      "linkId": "1",
      "answer": [
        {
          "valueCoding": {
            "system": "https://fhir.dmh.lacounty.gov/v4/Terminology/PSCQA",
            "code": "0"
          }
        }
      ]
    },
    {
      "linkId": "2",
      "answer": [
        {
          "valueCoding": {
            "system": "https://fhir.dmh.lacounty.gov/v4/Terminology/PSCQA",
            "code": "2"
          }
        }
      ]
    },
    {
      "linkId": "3",
      "answer": [
        {
          "valueCoding": {
            "system": "https://fhir.dmh.lacounty.gov/v4/Terminology/PSCQA",
            "code": "1"
          }
        }
      ]
    },
    {
      "linkId": "401",
      "answer": [
        {
          "valueDate": "2025-06-15"
        }
      ]
    },
    {
      "linkId": "402",
      "answer": [
```

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```
        {
          "valueCoding": {
            "code": "1"
          }
        }
      ]
    }
  ]
}
```

> **Note**: For UpdatePSC, the PSCID is included in the identifier to route the update to the correct SQL record. The HIDEX Provider Access API uses this identifier to perform an update rather than an insert.

8.5 DeletePSC

Soft delete a PSC assessment. The assessment is marked as inactive but remains in the database for audit purposes.

Preconditions:

- Valid OAuth2 Bearer token in the HTTP Authorization header
- SubmissionID (PSCID) must reference an existing active PSC assessment
- ProgramID must match an authorized program in the token claims

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Header/>
  <soap:Body>
    <epsdt:DeletePSC>
      <epsdt:request>
        <epsdt:SubmissionID>98765</epsdt:SubmissionID>
        <epsdt:ProgramID>PROG001</epsdt:ProgramID>
      </epsdt:request>
    </epsdt:DeletePSC>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Success):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:DeletePSCResponse>
      <epsdt:DeletePSCResult>
        <epsdt:Acknowledgement>Success</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID>98765</epsdt:ServiceRequestID>
      </epsdt:DeletePSCResult>
    </epsdt:DeletePSCResponse>
  </soap:Body>
</soap:Envelope>
```

Sample Response (Not Found):

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```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:epsdt="http://lacdmh.lacounty.gov/EPSDT/2021">
  <soap:Body>
    <epsdt:DeletePSCResponse>
      <epsdt:DeletePSCResult>
        <epsdt:Acknowledgement>Record not found</epsdt:Acknowledgement>
        <epsdt:ServiceRequestID></epsdt:ServiceRequestID>
      </epsdt:DeletePSCResult>
    </epsdt:DeletePSCResponse>
  </soap:Body>
</soap:Envelope>
```

> **Important**: DeletePSC performs a soft delete. The assessment record is marked as inactive in the SQL database but is not physically removed. This ensures audit trails are maintained. The associated FHIR QuestionnaireResponse is also marked as inactive in the FHIR store.

PSC Data Elements Summary

Element	Description	Required	Valid Values
PSCID	PSC assessment identifier (UpdatePSC only)	Update only	SQL primary key
ClientID	IBHIS client identifier	Yes	Valid IBHIS ClientID
ProviderNumber	Provider organization number	Yes	Valid provider number
ProgramID	Program identifier	Yes	Authorized ProgramID
PractitionerReviewingNPI	Reviewing practitioner's NPI	Yes	Valid 10-digit NPI
AssessmentType	Type of assessment	Yes	"1" (Standard), "5" (Admin Close)
AssessmentDate	Date of assessment	Yes	YYYY-MM-DD format
AdminCloseReason	Reason for administrative close	Conditional	Required if AssessmentType="5"
CaregiverDeclined	Caregiver declined to participate	No	"Y" or "N"
CaregiverDidNotRespondToAll	Caregiver did not answer all questions	No	"Y" or "N"
DataSource	Source of the submission	Yes	"AddPSC" or "UpdatePSC"
RespondentName	Name of respondent	Yes	Free text
RespondentRelationship	Respondent's relationship to client	Yes	See Dictionary Service
Question01–Question35	PSC-35 question responses	Yes*	"0" (Never), "1" (Sometimes), "2" (Often)

*Up to 3 questions may be left blank if CaregiverDidNotRespondToAll="Y"

---

9. Error Handling

The EPSDT SOAP Proxy and HIDEX Provider Access API surface errors at two distinct layers. Understanding both layers helps you diagnose issues quickly and implement appropriate error handling in your integration.

Two Layers of Errors:

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1. **SOAP-Layer Errors** — Detected by the SOAP Proxy before translation or forwarding (transport errors, XML parsing errors, translation errors)
2. **API-Layer Errors** — Returned by the HIDEX Provider Access API after translation (validation errors, duplicate detection, persistence failures)

9.1 SOAP-Layer Errors

SOAP-layer errors occur when the SOAP Proxy cannot process your request. These errors are detected before any data is forwarded to the HIDEX Provider Access API, so no assessment data is persisted.

Error Category	HTTP Status	Description	Data Persisted?
Invalid/expired OAuth2 token	401	Token missing, malformed, or expired	No
Missing ProgramID	Error response	ProgramID not provided in message context	No
Invalid ProgramID	Error response	ProgramID not in token's authorized claims	No
XML parsing failure	Error response	XML is malformed or not well-formed	No
Schema validation failure	Error response	XML does not conform to WSDL schema	No
Translation failure	Error response	XML cannot be translated to valid FHIR QuestionnaireResponse	No

> **Important**: If the SOAP Proxy cannot translate a received XML message into a valid FHIR QuestionnaireResponse, the submission is rejected with a translation error and no data is persisted. This can occur if required fields are missing or contain values that have no FHIR mapping.

9.2 API-Layer Errors

API-layer errors occur when the HIDEX Provider Access API processes your translated submission. These errors are returned after the SOAP Proxy has successfully translated your XML to FHIR.

Error Category	HTTP Status	Description	Data Persisted?
Validation failure	400	Assessment data fails business validation rules	No
Authentication failure	401	API-level token validation failed	No
Authorization failure	403	ProgramID mismatch between submission and token claims	No
Duplicate submission	409	Assessment with same key fields already exists	No
SQL persistence failure	502	Database write failed or returned no EPSDT id	No
FHIR write failure (post-SQL)	502	FHIR store write failed after successful SQL write	SQL: Yes, FHIR: No

> **Note**: Validation errors are returned with **all failures in a single response**, not just the first failure encountered. This allows you to fix multiple issues before resubmitting rather than discovering them one at a time.

9.3 HTTP Status Mappings

The following table shows how HTTP status codes from the HIDEX Provider Access API map to SOAP fault responses:

HTTP Status	Meaning	SOAP Fault Mapping	Corrective Action
400	Validation failure	SOAP fault with validation error details	Review error messages, correct data, and resubmit
401	Authentication failure	SOAP fault with auth error	Refresh OAuth2 token and retry; verify client credentials if persistent

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HTTP Status	Meaning	SOAP Fault Mapping	Corrective Action
403	Authorization / ProgramID mismatch	SOAP fault with ProgramID error	Verify ProgramID in message matches your token's authorized claims
409	Duplicate submission	SOAP fault with duplicate message	Use Search operation to find existing record; Update if needed
502	Persistence failure	SOAP fault; indicates SQL write failed or returned no EPSDT id	Retry after brief delay; contact support if persistent

9.4 Troubleshooting Guide

The following table provides guidance for common integration errors:

Error	Cause	Fix
401 Unauthorized	OAuth2 token is missing, malformed, or expired	Obtain a new access token using the OAuth2 client credentials flow. Ensure your token cache refreshes tokens before expiry.
ProgramID not authorized	The ProgramID in your submission does not match any ProgramID in your token's claims	Verify the ProgramID value matches one of your contracted programs. Check with DMH if your token claims need updating.
XML parsing error	The XML message is malformed or not well-formed	Validate your XML against the WSDL schema. Check for encoding issues, unclosed tags, or invalid characters.
Schema validation failed	XML does not conform to the WSDL-defined schema	Regenerate client proxies from the latest WSDL. Verify required fields are present and data types match.
Translation error	XML contains values that cannot be mapped to FHIR	Review field values against the Dictionary Service. Ensure coded values use valid codes.
400 Validation error	Assessment data fails business rules	Review all error messages in the response. Common issues: invalid ClientID, missing required fields, out-of-range scores.
409 Duplicate detected	An active assessment with the same ProviderNumber + AssessmentType + AssessmentDate + ClientID exists	Use SearchCANS/SearchPSC to find the existing record. Use UpdateCANS/UpdatePSC if changes are needed.
502 Bad Gateway	SQL persistence failed or FHIR write failed	Retry the request after a brief delay (5–30 seconds). If persistent, the backend may be experiencing issues—contact support.
CANSID/PSCID not found	Update or Delete operation references a non-existent ID	Verify the SubmissionID (CANSID/PSCID) using Search or Get operations before attempting Update or Delete.
ClientID not found	The ClientID does not exist in IBHIS	Use the Client Service (SearchClient) to verify the client exists before submission.

9.5 Translation Failure Behavior

When the SOAP Proxy cannot translate your XML message into a valid FHIR QuestionnaireResponse:

1. The submission is **immediately rejected** at the SOAP layer
2. **No data is forwarded** to the HIDEX Provider Access API
3. **No data is persisted** to SQL or FHIR stores
4. A SOAP fault is returned with details about the translation failure

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Common causes of translation failures:

- Required fields missing from the XML message
- Field values that have no FHIR mapping (invalid coded values)
- Data type mismatches (e.g., text in a numeric field)
- Unsupported assessment combinations

> **Note**: Translation failures are distinct from validation failures. Translation failures occur when the XML cannot become a valid FHIR resource. Validation failures occur when the translated FHIR resource fails business rules at the API layer.

9.6 502 Error Behavior

A 502 (Bad Gateway) error indicates that the HIDEX Provider Access API encountered a persistence failure. The specific behavior depends on where the failure occurred:

SQL Write Failure:

- The SQL write did not succeed or returned no EPSDT id
- The FHIR store is left **unchanged** (no orphan FHIR records)
- No assessment data is persisted
- You should retry the submission after a brief delay

FHIR Write Failure (after successful SQL write):

- The SQL write succeeded and the assessment is persisted in SQL
- The FHIR write failed, so the FHIR store does not have a copy
- The SQL database remains the system of record
- A subsequent retry may create a duplicate in SQL (use Search to verify before retrying)

> **Important**: When you receive a 502 error, the SQL database (system of record) has either not been written to, or has been written to successfully but the FHIR copy could not be created. In either case, use SearchCANS/SearchPSC to verify the current state before deciding whether to retry or take other action.

9.7 Sample Error Responses

SOAP Fault — Validation Error (400):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Client</faultcode>
      <faultstring>Validation failed</faultstring>
      <detail>
        <ValidationErrors>
          <Error>ClientID '9999999' does not exist in IBHIS</Error>
          <Error>AssessmentDate cannot be in the future</Error>
          <Error>CBQuestion01 value '5' is out of range (valid: 0-3)</Error>
        </ValidationErrors>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

SOAP Fault — Duplicate Submission (409):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
```

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```
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Client</faultcode>
      <faultstring>Duplicate submission detected</faultstring>
      <detail>
        <DuplicateError>
          <Message>An active assessment already exists for this ProviderNumber, AssessmentType,
AssessmentDate, and ClientID combination</Message>
          <ExistingCANSID>12345</ExistingCANSID>
        </DuplicateError>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

SOAP Fault — Authorization Error (403):

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Client</faultcode>
      <faultstring>Authorization failed</faultstring>
      <detail>
        <AuthorizationError>
          <Message>ProgramID 'PROG999' is not authorized for this client</Message>
        </AuthorizationError>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

---

10. Identity Stamping and Persistence

This section documents how EPSDT assessments are persisted and how the EPSDT SQL id connects SQL and FHIR records. Understanding this process helps Trading Partners correlate records across systems and troubleshoot persistence issues.

Dual-Write Pattern and System of Record

The HIDEX Provider Access API uses a **dual-write pattern** where each assessment is written to two data stores:

1. **SQL Database** — The **system of record** (SoR) for all EPSDT assessments
2. **FHIR Store** — An additional, queryable copy linked to SQL by the EPSDT id

The SQL database is authoritative. The FHIR store provides FHIR R4 API access to assessments but is always derived from the SQL record. Both stores are linked by the EPSDT SQL id (ServiceRequestID for CANS, SubmissionID for PSC), which is stamped onto the FHIR resource identifier.

Dual-Write Ordering

The HIDEX Provider Access API enforces a strict write ordering that ensures data consistency:

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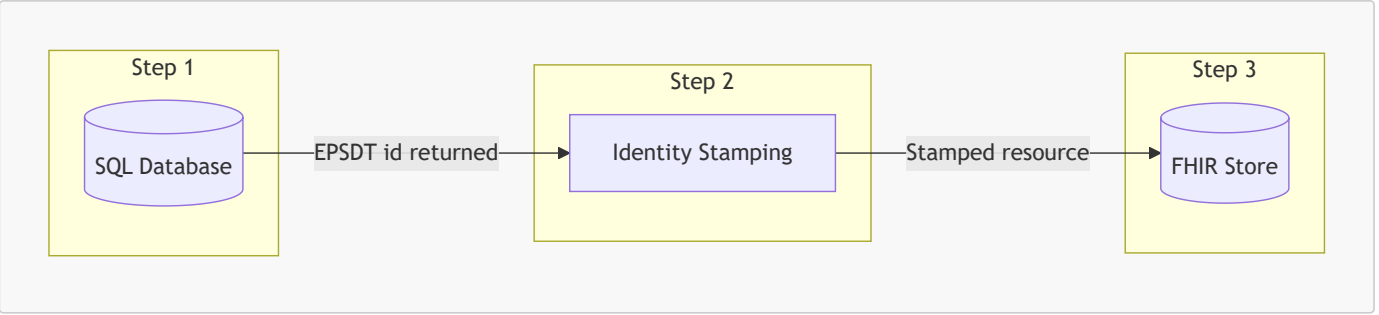

Step 1: SQL Write (System of Record)

The assessment is first written to the SQL database via the appropriate EPSDT stored procedure. The SQL database generates and returns the EPSDT id (ServiceRequestID for CANS, SubmissionID for PSC).

Step 2: Identity Stamping

The EPSDT id returned from SQL is stamped onto the FHIR `QuestionnaireResponse` resource's `identifier` array. This stamp creates a permanent link between the SQL record and the FHIR resource.

Step 3: FHIR Store Write

Only after a successful SQL write with a valid EPSDT id does the system write the identity-stamped resource to the FHIR store.

> **Important**: The FHIR write occurs **only after** a successful SQL write. If the SQL write fails or returns no EPSDT id, the FHIR store is left unchanged. This ensures the system of record is always authoritative.

Identifier Systems

The HIDEX Provider Access API uses distinct identifier system URLs for CANS and PSC assessments:

Assessment Type	Identifier System URL	Example Value
CANS	`https://lacdmh.lacounty.gov/epsdt/cans`	`12345` (ServiceRequestID)
PSC	`https://lacdmh.lacounty.gov/epsdt/psc`	`67890` (SubmissionID)

These identifier system URLs uniquely identify the source system (EPSDT SQL database) and assessment type. The value is the EPSDT SQL id that was returned when the assessment was persisted.

FHIR Identifier Structure:

When an assessment is successfully persisted, the FHIR resource includes an identifier like this:

```
{
  "resourceType": "QuestionnaireResponse",
  "identifier": [
    {
      "system": "https://lacdmh.lacounty.gov/epsdt/cans",
      "value": "12345"
    }
  ],
  "questionnaire": "https://lacdmh.lacounty.gov/fhir/Questionnaire/cans-50",
  "status": "completed"
}
```

How Identity Stamping Works

When the HIDEX Provider Access API processes an assessment submission:

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1. **SQL Stored Procedure** — The assessment is written to SQL, which returns an acknowledgement and the EPSDT id
2. **Identifier Array Check** — The system ensures the FHIR resource has an `identifier` array (creates one if missing)
3. **Existing Entry Removal** — Any existing identifier entry with the same system URL is removed (supports re-stamping)
4. **New Entry Added** — Exactly one identifier entry is added for the assessment type's system URL

> **Note**: The EPSDT SQL id returned in the SOAP response acknowledgement (ServiceRequestID for CANS, SubmissionID for PSC) is the **same value** stamped onto the FHIR resource identifier. Use this id to correlate records across SQL and FHIR.

Idempotent Stamping Behavior

Identity stamping is **idempotent**:

- Re-stamping the same EPSDT id and assessment kind produces exactly one identifier for that system
- If an identifier already exists for that system, it is replaced (not duplicated)
- Identifiers belonging to other systems are preserved unchanged

This idempotent behavior ensures that:

- Retry scenarios do not create duplicate identifiers
- Each assessment has exactly one identifier per system URL
- The identifier value always reflects the current EPSDT SQL id

Failure Scenarios

The dual-write ordering protects data integrity in failure scenarios:

Failure Point	What Happens	SOAP Response	Data State
SQL write fails	No FHIR write attempted	HTTP 502 with error message	No data persisted
SQL succeeds but returns empty EPSDT id	No FHIR write attempted	HTTP 502 with error message	SQL row retained for reconciliation
SQL succeeds, FHIR write fails	SQL record is retained	HTTP 502 with error message	SQL has data, FHIR does not

> **Important**: When a 502 error is returned, it indicates the SQL write did not succeed (or returned no EPSDT id). In this case, the FHIR store is left unchanged. The SQL database remains the authoritative source, and the assessment may need to be resubmitted.

Correlating Records Across Systems

To correlate records between the SQL database and FHIR store:

1. **From SOAP Response** — The SOAP acknowledgement includes the EPSDT id (ServiceRequestID/SubmissionID)
2. **From FHIR** — Query the FHIR store using the identifier system and value:

```
GET /fhir/QuestionnaireResponse?identifier=https://lacdmh.lacounty.gov/epsdt/cans|12345
```

3. **From SQL** — Query the EPSDT SQL tables using the ServiceRequestID (CANS) or SubmissionID (PSC)

The identifier stamping ensures both data stores can be joined for reporting, auditing, or troubleshooting purposes.

---

11. Level of Care

The HIDEX Provider Access API calculates a Level of Care (LOC) score for CANS assessments to help guide treatment planning decisions. This section documents when and how LOC is calculated, the five levels of care, and how LOC results are returned and persisted.

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When Level of Care is Calculated

Level of Care is calculated only for **standard CANS assessments**—that is, assessments where `AssessmentType` is not "5" (admin close).

Assessment Type	AssessmentType Value	LOC Calculated?
Initial/Standard	`1`	Yes
Follow-up	Other values (not "5")	Yes
Administrative Close	`5`	No

> **Note**: LOC calculation occurs after the assessment is successfully persisted to SQL. The LOC score does not affect whether the assessment is accepted—it is a post-persistence enrichment step.

Level of Care Summary

The LOC calculation evaluates CANS domain scores and assigns a level from 1 (lowest acuity) to 5 (highest acuity):

Level	Name	Criteria
5	Residential Treatment	Highest acuity: psychosis or multiple behavioral needs with risk behaviors AND strength deficits. Requires elevated Child Behavioral/Emotional Needs AND elevated Risk Behaviors AND multiple strength deficits.
4	Intensive Treatment	High acuity: elevated behavioral needs combined with life functioning or risk issues AND caregiver concerns. Requires elevated Child Behavioral/Emotional Needs AND (elevated Life Domain Functioning OR elevated Risk Behaviors) AND caregiver concerns or no viable caregiver.
3	Outpatient	Moderate acuity: elevated behavioral needs with life functioning or risk behavior concerns. Requires elevated Child Behavioral/Emotional Needs AND (elevated Life Domain Functioning OR any Risk Behaviors rated 2+).
2	Early Intervention	Low-moderate acuity: any single elevated behavioral need OR any risk behavior present. Triggered by any Child Behavioral/Emotional Need rated 2+ OR any Risk Behavior rated 1+.
1	Prevention and Non-Specialty MHS	Default/fallback: all behavioral needs at 0 or 1 with no risk behaviors. The child does not meet criteria for higher levels.

> **Important**: The LOC engine evaluates rules in priority order (Level 5 first, then 4, 3, 2). The first rule that matches determines the LOC. If no rule matches, Level 1 is assigned as the fallback.

LOC Calculation Process

When you submit a standard CANS assessment via SOAP, the LOC calculation follows this sequence:

1. **Assessment Persistence** — The HIDEX Provider Access API writes the assessment to SQL (system of record)
2. **Identity Stamping** — The EPSDT SQL id is stamped onto the FHIR resource
3. **FHIR Store Write** — The identity-stamped resource is written to the FHIR store
4. **LOC Calculation** — The LOC engine evaluates the CANS domain scores against the level rules
5. **LOC Persistence** — The LOC result is persisted to SQL with reference to the assessment
6. **Response Enrichment** — The LOC is added to the response as a FHIR extension

The LOC calculation evaluates scores across these CANS domains:

Domain	CANS Items	Description
Child Behavioral/Emotional Needs	Q01–Q09	Behavioral and emotional symptom ratings
Life Domain Functioning	Q10–Q20	Functioning in school, family, social contexts

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Domain	CANS Items	Description
Risk Behaviors	Q21–Q28	Danger to self, others, runaway risk, etc.
Strengths	Q32–Q40	Protective factors and resilience indicators
Caregiver Resources and Needs	Q41–Q50	Caregiver capacity and support availability

Admin Close Assessments

Administrative close assessments (`AssessmentType = "5"`) are used to close an episode of care and do not represent a clinical assessment. For these submissions:

- The assessment is persisted normally to SQL and FHIR
- **LOC calculation is skipped entirely**
- No LOC value appears in the SOAP response
- No LOC record is created in SQL

> **Note**: This is expected behavior. Admin close assessments are administrative records, not clinical assessments requiring treatment planning.

LOC Failure Behavior

If the LOC calculation fails for any reason (evaluation error, unresolved references, internal exception), the assessment submission is **still successful**:

Aspect	Behavior on LOC Failure
Assessment Persistence	**Successful** — SQL write completes normally
FHIR Store Write	**Successful** — FHIR resource is written
SOAP Response	**Success acknowledgement** returned with ServiceRequestID
LOC in Response	**Omitted** — No LOC value in the response
LOC in SQL	**Not persisted** — No LOC record created

> **Important**: LOC calculation is a non-blocking enrichment step. A failure in LOC calculation does not roll back or reject the assessment submission. Your integration should handle responses with or without LOC values gracefully.

LOC in SOAP Response

For successful standard CANS submissions where LOC calculation succeeds, the SOAP response includes the LOC result. The HIDEX Provider Access API adds the LOC as a FHIR extension on the QuestionnaireResponse, which is then translated back to the SOAP response format.

The LOC extension includes:

Field	Description
`recommendedLevel`	The calculated LOC level (1–5)
`recommendedLevelDescription`	Human-readable level name (e.g., "Level 3 – Outpatient")
`matchedRuleName`	The rule that determined the level

LOC Persistence in SQL

When LOC calculation succeeds, the result is persisted to SQL with the following information:

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Field	Description
Assessment ID	Links to the source CANS assessment record
Client ID	The IBHIS Client ID
Program ID	The program that submitted the assessment
Provider Number	The submitting provider
Assessment Date	Date of the assessment
Recommended Level	The calculated LOC (1–5)
Recommended Level Description	Human-readable level name
Matched Rule Name	The rule that triggered the level assignment
Domain Scores	JSON representation of domain-level scores used in calculation

LOC results are available for subsequent retrieval and reporting. Each new assessment for a client creates a new LOC record, allowing tracking of LOC changes over time.

> **Note**: If an assessment is updated (via UpdateCANS), a new LOC calculation is performed and the previous LOC record for that assessment is soft-deleted. Only the latest LOC result remains active.

---

12. Testing and Certification

This section describes the certification process for Trading Partners integrating with the EPSDT SOAP Proxy. Certification ensures that your integration correctly handles authentication, all SOAP operations, duplicate detection, validation errors, and response processing before requesting production access.

Sandbox Environments

Use the following sandbox environments for development and testing. These environments mirror production behavior but use isolated test data.

Environment	SOAP Proxy Endpoint	WSDL URL
TEST	`https://hidex-test.dmh.lacounty.gov/EPSDT`	`https://hidex-test.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`
QA	`https://hidex-qa.dmh.lacounty.gov/EPSDT`	`https://hidex-qa.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`

> **Note**: Trading Partners should begin integration testing in the TEST environment. PRODUCTION credentials and the PRODUCTION base URL are provisioned separately after certification — see Base URLs by Environment in Section 6.

Test Data

Providers are encouraged to use the Client Services to create their own clients in the Test environment to test with.

Certification Checklist

Complete the following checklist in the TEST environment before requesting QA and production access. Each item must be successfully demonstrated.

Authentication

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- ☐ Successfully acquire an OAuth2 access token using client credentials
- ☐ Token refresh logic correctly handles token expiry (tokens expire after 1 hour)
- ☐ System correctly handles HTTP 401 (re-authenticates and retries)

CANS Operations

- ☐ **AddCANS**: Submit a valid CANS assessment → receive success acknowledgement with ServiceRequestID
- ☐ **AddCANS (Admin Close)**: Submit an admin close assessment (AssessmentType = "5") → receive success acknowledgement
- ☐ **GetCANS**: Retrieve a CANS assessment by CANSID → receive full assessment data
- ☐ **SearchCANS**: Search for CANS assessments by ClientID → receive matching results
- ☐ **UpdateCANS**: Update an existing CANS assessment using CANSID → receive success acknowledgement
- ☐ **DeleteCANS**: Soft delete a CANS assessment → receive success acknowledgement

PSC Operations

- ☐ **AddPSC**: Submit a valid PSC assessment → receive success acknowledgement with ServiceRequestID
- ☐ **GetPSC**: Retrieve a PSC assessment by PSCID → receive full assessment data
- ☐ **SearchPSC**: Search for PSC assessments by ClientID → receive matching results
- ☐ **UpdatePSC**: Update an existing PSC assessment using PSCID → receive success acknowledgement
- ☐ **DeletePSC**: Soft delete a PSC assessment → receive success acknowledgement

Duplicate Detection

- ☐ Submit a duplicate CANS (same ProviderNumber + AssessmentType + AssessmentDate + ClientID) → receive HTTP 409 Conflict
- ☐ Submit a duplicate PSC (same ProviderNumber + AssessmentType + AssessmentDate + ClientID) → receive HTTP 409 Conflict
- ☐ System correctly handles duplicate rejection (does not retry, alerts operator)

Validation Error Handling

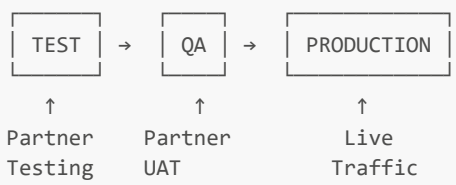
- ☐ Submit an invalid CANS (missing required fields) → receive SOAP fault with all validation errors
- ☐ Submit an invalid PSC (invalid field values) → receive SOAP fault with all validation errors
- ☐ System parses and displays validation errors to users
- ☐ System does not retry on validation errors (HTTP 400)

Error Response Handling

- ☐ System handles HTTP 401 Unauthorized (re-authenticates)
- ☐ System handles HTTP 403 Forbidden / ProgramID mismatch (alerts operator, does not retry)
- ☐ System handles HTTP 409 Conflict (duplicate detection, does not retry)
- ☐ System handles HTTP 502 Bad Gateway (persistence failure, logs for investigation)

Environment Promotion Path

Trading Partners follow this certification path when integrating with the EPSDT SOAP Proxy:



Stage	Purpose	Access
TEST	Trading Partner integration testing and certification	Trading Partners with test credentials

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Stage	Purpose	Access
QA	Pre-production validation with production-like data	Trading Partners after TEST certification
PRODUCTION	Live traffic with real patient data	Trading Partners after QA certification

Promotion Process

1. **TEST Certification**
   - Complete all items in the certification checklist above
   - Document your test results (screenshots, logs, or recordings)
   - Submit certification request to DMH with evidence
2. **QA Validation**
   - DMH reviews TEST certification results
   - QA credentials are issued upon approval
   - Repeat key certification scenarios in QA environment
   - Validate against production-like data volumes
3. **PRODUCTION Cutover**
   - DMH reviews QA validation results
   - Production credentials are issued upon approval
   - Update your configuration to use PRODUCTION endpoint URLs
   - Perform supervised first submission with DMH support
   - Begin regular operations

Certification Requirements

Successful certification requires demonstrating correct handling of both success and error responses:

Requirement	Evidence Required
Authentication	Token acquisition and refresh logs
Success handling	Acknowledgement parsing, ServiceRequestID/SubmissionID capture
Validation errors	Error message parsing and user display
Duplicate detection	Correct handling of HTTP 409 (no retry, alert)
Authorization errors	Correct handling of HTTP 403 (no retry, alert)
Persistence errors	Correct handling of HTTP 502 (log for investigation)

> **Important**: Certification is not complete until you demonstrate correct handling of error responses. Production integrations that do not handle errors correctly risk data loss and user confusion.

Contact for Certification

To request test credentials or submit your certification results, contact: CIOB Help Desk at 213 351 1335

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13. Quick Reference

This section provides a consolidated reference for the most commonly needed information when integrating with the EPSDT SOAP Proxy.

WSDL URLs by Environment

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Environment	WSDL URL
TEST	`https://hidex-test.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`
QA	`https://hidex-qa.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`
PRODUCTION	`https://hidex.dmh.lacounty.gov/EPSDT/EPSDTService/EPSDTServiceInterface.svc?SingleWsdl`

SOAP Operations Summary

Operation	Assessment Type	Description
SearchCANS	CANS	Search for CANS assessments by client and program
AddCANS	CANS	Create a new CANS-50 assessment
GetCANS	CANS	Retrieve a specific CANS assessment by ID
UpdateCANS	CANS	Update an existing CANS assessment (requires CANSID)
DeleteCANS	CANS	Soft delete a CANS assessment
SearchPSC	PSC	Search for PSC assessments by client and program
AddPSC	PSC	Create a new PSC-35 assessment
GetPSC	PSC	Retrieve a specific PSC assessment by ID
UpdatePSC	PSC	Update an existing PSC assessment (requires PSCID)
DeletePSC	PSC	Soft delete a PSC assessment

Assessment Type Codes

Code	Description	Level of Care
`1`	Initial/Standard Assessment	Calculated (LOC 1–5)
`5`	Administrative Close	Skipped

> **Note**: Administrative close assessments (AssessmentType = "5") skip Level of Care calculation. Use this type to close out an episode without a full clinical assessment.

CANS Scoring Scale (0–3)

The CANS-50 assessment uses a 4-point action-oriented scale:

Score	Label	Description
`0`	No evidence	No evidence of need; no action needed
`1`	Watchful waiting / Prevention	History or suspicion of need; watchful waiting or preventive action
`2`	Action needed	Need interferes with functioning; action required
`3`	Immediate action	Need is dangerous or disabling; immediate or intensive action required

PSC Scoring Scale (0–2)

The PSC-35 assessment uses a 3-point frequency scale:

Score	Label	Description
`0`	Never	Behavior or symptom is never present

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Score	Label	Description
1	Sometimes	Behavior or symptom is sometimes present
2	Often	Behavior or symptom is often present

Level of Care (LOC) Summary

For standard CANS assessments (AssessmentType ≠ "5"), the HIDEX Provider Access API calculates a Level of Care score (1–5):

LOC	Description
1	Basic / Outpatient
2	Low Intensity
3	Moderate Intensity
4	High Intensity
5	Medically Necessary / Most Intensive

> **Note**: LOC is calculated based on CANS domain scores. If the calculation fails, the assessment is still persisted and the response returns success without a LOC value.

Key Data Elements

Element	Description	Used In
ClientID	IBHIS Client ID — must exist in IBHIS before submission	CANS, PSC
ProviderNumber	Submitting provider's number	CANS, PSC
ProgramID	Program identifier — must match OAuth2 token claim	CANS, PSC
AssessmentType	Assessment type code ("1" = Standard, "5" = Admin close)	CANS, PSC
AssessmentDate	Date of assessment (YYYY-MM-DD)	CANS, PSC
CANSID	CANS submission ID — required for UpdateCANS	CANS
PSCID	PSC submission ID — required for UpdatePSC	PSC
ServiceRequestID	EPSDT SQL ID returned in Acknowledgement — links SQL and FHIR records	CANS, PSC

Duplicate Prevention Keys

Submissions are rejected as duplicates if all four fields match an existing active record:

Field	Description
ProviderNumber	The submitting provider's number
AssessmentType	Assessment type code
AssessmentDate	Date of the assessment
ClientID	The IBHIS Client ID

Identity Systems

Assessment	Identifier System URL
CANS	`https://lacdmh.lacounty.gov/epsdt/cans`

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Assessment	Identifier System URL
PSC	`https://lacdmh.lacounty.gov/epsdt/psc`

> **Note**: The EPSDT SQL ID (ServiceRequestID/SubmissionID) is stamped onto the FHIR resource identifier using these system URLs. This links the SQL record (system of record) to the FHIR resource.

---

14. Dictionary Service

The Dictionary Service provides enumerated values for EPSDT data attributes. Use this service to retrieve the complete list of acceptable values for coded fields such as assessment types, relationship codes, and scoring options.

Dictionary Service WSDL URL

The Dictionary Service WSDL is available at:

```
https://b2b.dmh.lacounty.gov/DictionaryServices/DictionaryServicesInterface.svc?singlewsdl
```

> **Note**: The Dictionary Service is a shared DMH service used across multiple applications. It is separate from the EPSDT SOAP Proxy endpoints.

How to Retrieve Dictionary Values

To retrieve enumerated values for EPSDT attributes:

1. **Generate a client proxy** from the Dictionary Service WSDL
2. **Call the Get operation** with the following parameters:
   - `Service`: `EPSDT` (identifies the EPSDT application)
   - `Type`: The attribute code for the values you need (see table below)
3. **Parse the response** to extract the code/value pairs for use in your integration

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:dict="http://b2b.dmh.lacounty.gov/DictionaryServices">
  <soap:Header/>
  <soap:Body>
    <dict:Get>
      <dict:Service>EPSDT</dict:Service>
      <dict:Type>Assessment</dict:Type>
    </dict:Get>
  </soap:Body>
</soap:Envelope>
```

Sample Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:dict="http://b2b.dmh.lacounty.gov/DictionaryServices">
  <soap:Body>
    <dict:GetResponse>
      <dict:GetResult>
        <dict:Dictionary>
          <dict:Item Code="1" Value="Initial/Standard Assessment"/>
```

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```
            <dict:Item Code="5" Value="Administrative Close"/>
          </dict:Dictionary>
        </dict:GetResult>
      </dict:GetResponse>
    </soap:Body>
  </soap:Envelope>
```

Available Attribute Codes

The following attribute codes are available for EPSDT data elements. Use these codes as the `Type` parameter when calling the Dictionary Service:

Attribute Code	Description	Used In
`CANSQA`	CANS Question Answer values (scoring scale 0–3)	CANS assessment items
`CANSSDQA`	CANS Strengths Domain Question Answer values	CANS Strengths domain items
`CANSCRQA`	CANS Caregiver Resources Question Answer values	CANS Caregiver domain items
`PSCQA`	PSC Question Answer values (scoring scale 0–2)	PSC assessment items
`PSCSchool`	PSC School Type values	PSC School field
`Assessment`	Assessment Type codes ("1" = Initial/Standard, "5" = Admin Close)	AssessmentType field
`HasCaregiver`	Caregiver presence indicator values	Caregiver field
`RespondentRelationship`	Respondent relationship to child values	RespondentRelationship field
`CaregiverRelationship`	Caregiver relationship to child values	CaregiverRelationshipA/B/C/D fields
`ContributorRelationship`	Contributor relationship values	ContributorRelationship1/2/3 fields
`ProviderNumber`	Valid provider numbers for submissions	ProviderNumber field
`AdminCloseReason`	Reason codes for administrative close assessments	AdminCloseReason field (when AssessmentType = "5")

> **Important**: Always use the Dictionary Service to retrieve current enumeration values. Do not hardcode values in your integration, as they may change over time.

Common Scoring Scales

For convenience, the standard scoring scales used in EPSDT assessments are:

CANS Scoring Scale (0–3):

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

PSC Scoring Scale (0–2):

Score	Meaning
0	Never

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Score	Meaning
1	Sometimes
2	Often

> **Note**: These scoring scales are also documented in the Quick Reference section. Use the Dictionary Service (`CANSQA`, `PSCQA`) to retrieve the complete enumeration list with all possible values and descriptions.

---

15. Client Service

The Client Service provides operations for looking up client information in IBHIS (Integrated Behavioral Health Information System). When submitting EPSDT assessments, the `ClientID` field must reference a valid IBHIS Client ID — a numeric identifier that uniquely identifies the client across LA County DMH systems.

> **Important**: Trading Partners must ensure the client exists in IBHIS before submitting an assessment. If the `ClientID` does not match an existing IBHIS client record, the assessment submission will be rejected.

15.1 Client Service Operations

The Client Service provides two operations for looking up client information:

Operation	Description	Use Case
SearchClient	Search for clients by demographic criteria (name, date of birth, SSN)	Find the ClientID for a client when you don't know their IBHIS ID
GetClientDetails	Retrieve detailed information for a specific client by ClientID	Verify client demographics before submitting an assessment

15.2 Using ClientID in Assessments

The `ClientID` field in CANS and PSC submissions must contain a valid IBHIS Client ID:

```
<epsdt:AddCANS>
  <epsdt:request>
    <epsdt:ClientID>3462959</epsdt:ClientID>  <!-- IBHIS Client ID -->
    <epsdt:ProviderNumber>12345</epsdt:ProviderNumber>
    <epsdt:ProgramID>PROG001</epsdt:ProgramID>
    <!-- Additional assessment fields... -->
  </epsdt:request>
</epsdt:AddCANS>
```

The `ClientID` value:

- Is a numeric identifier assigned by IBHIS when the client is admitted
- Must reference an existing, active client record in IBHIS
- Is used for duplicate detection (ProviderNumber + AssessmentType + AssessmentDate + ClientID)
- Links the assessment to the client's record across DMH systems

15.3 Best Practice: Search Before Add

It is recommended to use **SearchCANS** or **SearchPSC** prior to creating a new assessment record. This helps you:

1. **Verify client existence** — Confirm the ClientID is valid before attempting to add an assessment
2. **Check for existing records** — Identify any active assessments that might trigger duplicate detection
3. **Avoid submission errors** — Prevent HTTP 409 (Conflict) errors from duplicate submissions

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Recommended workflow:

```
1. Use SearchCANS/SearchPSC with ClientID to check for existing assessments
2. Review results to determine if an Add or Update operation is appropriate
3. If no active record exists, proceed with AddCANS/AddPSC
4. If an active record exists, use UpdateCANS/UpdatePSC with the SubmissionID
```

> **Note**: If you receive a "ClientID not found" error during assessment submission, use the Client Service (SearchClient) to verify the client exists in IBHIS before retrying.

15.4 Client Service Technical Specifications

For detailed information on the Client Service operations, request/response schemas, and WSDL, refer to the following documentation:

- **Client Services (CS) Technical documentation**

The Client Service WSDL is available at the following URLs:

Environment	Client Service WSDL URL
TEST	`https://b2btst.dmh.lacounty.gov/ClientService/ClientServiceInterface.svc?SingleWsdl`
QA	`https://b2bqa.dmh.lacounty.gov/ClientService/ClientServiceInterface.svc?SingleWsdl`
PRODUCTION	`https://b2b.dmh.lacounty.gov/ClientService/ClientServiceInterface.svc?SingleWsdl`

> **Note**: Contact DMH IT to obtain credentials and access to the Client Service for your contracted programs.

---

16. Related Documentation

This section provides links to related companion guides and technical documentation for EPSDT integration with the HIDEX Provider Access API.

FHIR Integration Guides

If you are considering migrating from SOAP/XML to native FHIR submission, or if you are a new provider integrating directly with FHIR, the following guides provide detailed documentation:

Document	Description	Repository Path
EPSDT FHIR Migration Guide	For existing SOAP/XML providers transitioning to native FHIR R4 integration. Includes legacy-to-FHIR field mappings, authentication transition guidance, and a comparison of what changes vs what remains the same.	`https://dmh.lacounty.gov/pc/cp/hidex/`
EPSDT FHIR New Provider Guide	For new providers integrating directly with the HIDEX Provider Access API using FHIR R4. Covers onboarding steps, CANS and PSC QuestionnaireResponse submission, validation rules, and certification requirements.	`https://dmh.lacounty.gov/pc/cp/hidex/`

> **Note**: Both FHIR guides document the same HIDEX Provider Access API endpoint that your SOAP submissions are forwarded to after translation. The validation rules, persistence behavior, and identity stamping documented in those guides apply equally to SOAP/XML submissions processed through the SOAP proxy.

Additional Resources

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Resource	Description
Dictionary Service	Retrieve acceptable values for enumerated data attributes. See Section 14. Dictionary Service.
Client Service	Look up IBHIS Client IDs for use in assessment submissions. See Section 15. Client Service.
DMH Technical Support	Contact DMH for OAuth2 credentials, environment access, and certification support.

Why Consider Native FHIR?

While the SOAP/XML interface continues to be fully supported, native FHIR integration offers several advantages:

- **Direct API access** — Submit QuestionnaireResponse resources directly without XML-to-FHIR translation overhead
- **Modern tooling** — Use FHIR client libraries available for most programming languages
- **Richer responses** — Receive the full FHIR resource with identity stamping and extensions in the response
- **Future compatibility** — FHIR R4 is the strategic direction for HIDEX integrations

> **Important**: Your existing SOAP/XML integration continues to work unchanged. Migration to native FHIR is optional and can be planned according to your organization's timeline and priorities.

---END OF THE DOCUMENT---

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