

Los Angeles County | Department of Mental Health



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

SRL/SRTS FHIR R4 Migration Companion Guide

Document Information

Item	Value
Version	1.0.0
Status	Draft
Last Updated	7/1/2026
Audience	Contract Providers (EHR Vendors)
FHIR Version	R4 (4.0.1)

Table of Contents

1. [Migration Overview](#)
 2. [Authentication Transition](#)
 3. [Endpoint Configuration](#)
 4. [Field Mapping Reference](#)
 5. [Submitting a Single Referral](#)
 6. [Submitting a Transaction Bundle](#)
 7. [SRTS ID in the Response](#)
 8. [BHSA Program Enrollment](#)
 9. [Screening Questionnaire Submission](#)
 10. [Error Responses and Troubleshooting](#)
 11. [Sandbox and Testing Environment](#)
-

1. Migration Overview

Background

The LA County Department of Mental Health (DMH) transitioned the Service Request Log (SRL) electronic data exchange from the legacy **BizTalk SOAP/WCF** interface to a modern **FHIR R4 REST API** hosted within the HIDEX Provider Access API infrastructure. This migration coincides with the Department's broader modernization through the **Service Request Tracking System (SRTS)**, a comprehensive Dynamics 365-based application.

About SRL and SRTS

California Code of Regulations Title 9 §1810.405(f) requires documented tracking of initial requests for specialty mental health services. DMH Policy 202.43 establishes that all requests for newly-active clients must be clearly documented with specific data elements and timeframes for initial appointments.

Service Request Log (SRL) was the original system for electronic referral submission by Contract Providers through SOAP/WCF web services.

Service Request Tracking System (SRTS) is DMH's current comprehensive system that:

- Electronically documents and tracks initial service requests and access to care compliance
- Provides real-time status tracking for services, including Specialized Foster Care (SFC) under Katie A
- Enables workflow management for Full Service Partnership (FSP) authorizations, transfers, and disenrollments
- Supports multiple specialized workflows including Assisted Outpatient Treatment (AOT), Co-Occurring Disorders Court (CODC), Homeless/Housing/IMHT FSP, and Jail Linkage services
- Allows Quality Assurance review of service request data for state Access to Care regulation compliance
- Maintains comprehensive audit trails and historical records
- Integrates with DMH's ACCESS appointment scheduling system

Contract Providers (CPs) now submit referral data via the FHIR R4 API and receive an **SRTS ID** (Dynamics 365 GUID) immediately in the response. Directly Operated (DO) providers continue using the SRTS web portal; their data syncs to the FHIR store via automated integration.

Technical Transition

Contract Providers previously submitted referral data via a SOAP web service using XML payloads authenticated with X.509 client certificates. The new system replaces this with:

- **FHIR R4 JSON** payloads conforming to DMH-defined profiles
- **Subscription key authentication** through API Management gateway (replacing client certificates)
- **RESTful HTTP** endpoints (replacing SOAP/WCF operations)
- **SRTS ID** (Dynamics 365 GUID) instead of SQL-based ServiceRequestID

What Changes for Contract Providers

Aspect	Legacy (SOAP/WCF)	New (FHIR R4)
Protocol	SOAP 1.2 over HTTPS	REST over HTTPS
Payload Format	XML (XSD-validated)	JSON (FHIR R4 profiles)
Authentication	X.509 client certificates + BizTalk party resolution	OAuth2 client credentials + API subscription keys
Operations	AddServiceRequest, UpdateServiceRequest, etc.	POST /fhir/ServiceRequest, POST /fhir/Bundle
Response ID	ServiceRequestID (SQL integer)	SRTS ID (Dynamics 365 GUID)
Validation	BizTalk BRE policies + XSD	FluentValidation + FHIR profile conformance
Batch Submission	Individual calls per record	FHIR transaction Bundle (multiple in one call)

What Remains the Same

- **Business rules:** All SRL validation rules (field lengths, required fields, code values) remain identical
- **Data content:** The same referral, client, disposition, and screening data is collected
- **Program-level access:** Each provider can only submit for their assigned programs
- **SRTS tracking:** Every referral receives a unique SRTS ID for cross-system correlation
- **Monthly submission deadline:** SRL data must still be submitted by end of each month for the prior month

2. Authentication Transition

Legacy: Client Certificates

Previously, Contract Providers authenticated using X.509 client certificates installed on their application servers. BizTalk performed party resolution based on the certificate thumbprint to identify the submitting organization and its allowed programs.

New: OAuth2 Token and Subscription Key

Contact LACDMH CIOB to request API access for your organization, or open a ticket using the [HEAT Self Service portal](#). Every request to the new FHIR API requires an OAuth2 bearer token obtained via the client credentials grant, plus an APIM subscription key. See the **API Credentials Reference** table below for what's provisioned and where each value is used.

Step 1: Acquire OAuth2 Access Token

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

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

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

Response:

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

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

Step 2: Include Both Headers on API Requests

Every API request requires **both** authentication headers:

```
POST /fhir/ServiceRequest HTTP/1.1
Host: hidex-test.dmh.lacounty.gov
Authorization: Bearer {access_token}
Ocp-Apim-Subscription-Key: {your-subscription-key}
Content-Type: application/fhir+json
```

Important Notes

- **OAuth2 tokens expire after 1 hour** — implement token caching and refresh logic
- **Subscription key** targets the specific environment (TEST, QA, or PRODUCTION)
- Your token's `program_id` claim must match the program codes in your submissions
- Contact DMH HIDEK Support if you need to rotate your subscription key, or open a ticket using the [HEAT Self Service portal](#)
- Contact LACDMH CIOB for OAuth2 client credential provisioning

API Credentials Reference

The Integration Team provisions the following credentials for API access:

Item	Type	Scope	Value
Client ID	App Registration	Shared across TEST and QA	Your OAuth2 application identifier (<code>client_id</code>)
Client Secret	App Registration	Shared across TEST and QA	Your OAuth2 application secret (<code>client_secret</code>) — store securely
Tenant ID	Azure AD	Same for both TEST and QA	The Azure AD tenant identifier (<code>tenant_id</code>)
Resource Audience	OAuth2 Scope	Same for both TEST and QA	<code>api://{resource/appID}/.default</code> — used as the <code>scope</code> parameter in the token request
Base URL	Endpoint	Environment-specific	TEST: <code>https://hidex-test.dmh.lacounty.gov/healthcare</code> QA: <code>https://hidex-qa.dmh.lacounty.gov/healthcare</code>

Item	Type	Scope	Value
APIM Subscription Key	API Management	Environment-specific	Sent as the <code>Ocp-Apim-Subscription-Key</code> header on every request

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

Key Differences from Legacy

Aspect	Legacy (Certificates)	New (OAuth2 + Subscription Keys)
Credential Type	X.509 certificate files	OAuth2 client credentials + API subscription key
Storage	Certificate store on server	Secure configuration/key vault
Rotation	Manual certificate renewal	Contact LACDMH CIOB to rotate credentials
Validation	Certificate thumbprint	OAuth2 token validation + HTTP header validation
Expiration	Annual certificate renewal	OAuth2 tokens expire after 1 hour (refresh required)

3. Endpoint Configuration

Base URLs by Environment

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

Note: All environments use the same base URL pattern. Contact LACDMH CIOB for access credentials and subscription key requirements.

API Endpoints

Operation	HTTP Method	Path	Description
Submit single referral	POST	/fhir/ServiceRequest	Create a single service request
Submit batch referrals	POST	/fhir/Bundle	Submit multiple referrals as a FHIR transaction Bundle

Required HTTP Headers

Header	Value	Required
Authorization	<code>Bearer {access_token}</code>	Yes
Ocp-Apim-Subscription-Key	<code>{your-subscription-key}</code>	Yes
Content-Type	<code>application/fhir+json</code>	Yes
Accept	<code>application/fhir+json</code>	Recommended

FHIR Version Requirement

All interactions use **FHIR R4 (4.0.1)**. Resources must conform to the DMH-defined profiles listed below:

Resource	Profile URL
ServiceRequest	http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request
EpisodeOfCare	http://dmh.lacounty.gov/fhir/StructureDefinition/bhsa-episode-of-care

4. Field Mapping Reference

This section maps legacy SRL XML elements/attributes to their FHIR R4 equivalents.

4.1 Request Fields

Legacy XML Path	FHIR R4 Path	Notes
Request/@ProgramOfService	ServiceRequest.extension[program-of-service].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/program-of-service. CodeSystem: http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service
Request/@RequestDate + Request/@RequestTime	ServiceRequest.authoredOn	Combined into ISO 8601 dateTime: 2025-01-15T14:30:00-08:00
Request/RequestType/NonSRTS/@RequestType	ServiceRequest.extension[request-type].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/request-type. CodeSystem: http://dmh.lacounty.gov/fhir/CodeSystem/srl-request-type
Request/@UrgentRequest	ServiceRequest.priority	"Yes" → urgent, "No" → routine
Request/@RequestReason	ServiceRequest.reasonCode[0].text	Max 300 characters
Request/@RequestRespondStaff	ServiceRequest.extension[request-respond-staff].valueString	Extension URL: http://dmh.lacounty.gov/fhir/Extension/request-respond-staff. Max 80 chars, alphabetic only
Request/@Comments	ServiceRequest.note[0].text	Max 1000 characters
(Batch ID)	ServiceRequest.extension[batch-id].valueIdentifier.value	Extension URL: http://dmh.lacounty.gov/fhir/Extension/batch-id

4.2 Client Fields (Patient Resource)

Legacy XML Path	FHIR R4 Path
ClientType/New/@PotentialClientLastName	Patient.name[0].family
ClientType/New/@PotentialClientFirstName	Patient.name[0].given[0]
ClientType/New/@PotentialClientPhone	Patient.telecom[0].value
ClientType/New/@PotentialClientDOB	Patient.birthDate
ClientType/Existing/@ClientID	ServiceRequest.subject.reference
Client/@InsuranceStatus	Patient.extension[insurance-status].valueCoding.code
Client/@PreferredLanguage	Patient.communication[0].language.coding[0].code
Client/@LegalGuardianName	Patient.contact[0].name.text
Client/@LegalGuardianPhone	Patient.contact[0].telecom[0].value
Client/@LegalGuardianLanguage	Patient.contact[0].communication[0].language.coding[0].code
Client/@ServiceAgreementDate	Patient.extension[service-agreement-date].valueDate
Client/ReleaseFrom/YESReleaseFrom/InpatientFacility/@InpatientFacilityCode	Patient.extension[release-from].extension[facility].valueCoding.code
Client/ReleaseFrom/YESReleaseFrom/@ReleaseDischargeDate	Patient.extension[release-from].extension[discharge-date].valueDate
Client/ReceivingMentalHealthServices	Patient.extension[receiving-mh-services].valueCoding.code
Client/ReceivingMentalHealthServices/YES/@AgencyName	Patient.extension[receiving-mh-services].extension[agency-name].valueString
Client/OnPsychMedInLast30Days/@OnPsychMedInLast30Days	Patient.extension[psych-med-30-days].valueCoding.code
Client/OnPsychMedInLast30Days/YES/@MedName	Patient.extension[psych-med-30-days].extension[med-name].valueString

Legacy XML Path	FHIR R4 Path
Client/OnPsychMedInLast30Days/YES/@PrescribingMDName	Patient.extension[psych-med-30-days].extension[prescribing-md-name].valueString

4.3 Referring Party Fields (Practitioner Resource)

Legacy XML Path	FHIR R4 Path	Notes
ReferringParty/@ReferringLastName	Practitioner.name[0].family	Requires hyphen
ReferringParty/@ReferringFirstName	Practitioner.name[0].given[0]	Requires hyphen
ReferringParty/@ReferringPhone	Practitioner.telecom[0].value	10 digit
ReferringParty/@ClientAwareOfReferral	Practitioner.extension[client-aware-of-referral].valueCoding.code	yes / no
ReferringParty/ReferringPartyRole/HealthProviderSchoolER/@ReferringPartyRole	Practitioner.qualification[0].code.coding[0].code	CodeSystem: http://terminology.hl7.org/CodeSystem-practitioner-qualification
ReferringParty/ReferringPartyRole/HealthProviderSchoolER/@ReferringFacility	Practitioner.qualification[0].extension[referring-facility].valueString	Facility
ReferringParty/ReferringPartyRole/Collateral-FamilyMember/@RoleType	Practitioner.qualification[0].code.coding[0].code	Role type
ReferringParty/ReferringPartyRole/Other/@RoleType	Practitioner.qualification[0].code.text	Free-text

4.4 Disposition Fields

Legacy XML Path	FHIR R4 Path
Disposition/AssessmentAppointmentGivenThisSite	ServiceRequest.extension[disposition].extension[type].valueString
Disposition/UntimelyApptThisSiteReferDeclined	ServiceRequest.extension[disposition].extension[type].valueString
Disposition/NoApptAtThisSite/@DispositionChoice	ServiceRequest.extension[disposition].extension[type].valueString
Disposition/@DispositionDetails	ServiceRequest.extension[disposition].extension[details]
Disposition/.../EarlierApptOffered/EarlierApptOfferedYES/@FirstOfferedApptDate	ServiceRequest.extension[disposition].extension[first-of-date].valueDate
Disposition/.../@ApptDate	ServiceRequest.extension[disposition].extension[appt-date]
Disposition/.../@ApptTime	ServiceRequest.extension[disposition].extension[appt-time]
Disposition/.../@ApptPractitionerNPI	ServiceRequest.extension[disposition].extension[practitioner-npi].valueString
Disposition/.../@ApptProgramOfService	ServiceRequest.extension[disposition].extension[appt-program-of-service].valueCoding.code
Disposition/.../@ClosureReason	ServiceRequest.extension[closure-reason].valueCoding.code

4.5 Screening Tool Fields (QuestionnaireResponse)

Legacy XML Path	FHIR R4 Path	Notes
ReferringParty/ScreeningTool/Adult21AndUp/@Q1	QuestionnaireResponse.item[linkId="Q1"].answer[0].valueCoding.code	yes / no / unable-unwilling
ReferringParty/ScreeningTool/Adult21AndUp/@Q2 ... @Q11	QuestionnaireResponse.item[linkId="Q{n}"].answer[0].valueCoding.code	Same pattern for all questions

Legacy XML Path	FHIR R4 Path	Notes
ReferringParty/ScreeningTool/Youth0-20/SelfScreeningTool/@Q1	QuestionnaireResponse.item[linkId="Q1"].answer[0].valueCoding.code	Uses Youth Self Questionnaire canonical URL
ReferringParty/ScreeningTool/Youth0-20/ParentCaregiverScreeningTool/@Q1	QuestionnaireResponse.item[linkId="Q1"].answer[0].valueCoding.code	Uses Youth Caregiver Questionnaire canonical URL

4.6 BHSa Program Enrollment Fields (EpisodeOfCare)

Legacy/SRTS Field	FHIR R4 Path	Notes
Program/Service Type	EpisodeOfCare.extension[program-service-type].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/program-service-type . CodeSystem: http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-program-service-type
Referral Category	EpisodeOfCare.extension[referral-category].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/referral-category . CodeSystem: http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-referral-category
Program Enrollment Date	EpisodeOfCare.period.start	ISO date
Program Disenrollment Date	EpisodeOfCare.period.end	ISO date (null if currently enrolled)
Unhoused/At-Risk Status	EpisodeOfCare.extension[unhoused-status].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/unhoused-status . Values: "yes" / "no"
Living Situation	EpisodeOfCare.extension[living-situation].valueCoding.code	Extension URL: http://dmh.lacounty.gov/fhir/Extension/living-situation . Required when unhoused = "yes". CodeSystem: http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-living-situation
Living Situation Other Description	EpisodeOfCare.extension[living-situation-other].valueString	Extension URL: http://dmh.lacounty.gov/fhir/Extension/living-situation-other . Required when living situation = "other"

5. Submitting a Single Referral

Request

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

Example: Single ServiceRequest with New Client

```
{
  "resourceType": "ServiceRequest",
  "meta": {
    "profile": [
      "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
    ]
  },
  "contained": [
    {
      "resourceType": "Patient",
      "id": "patient-1",
      "name": [
        {
          "family": "Garcia",
          "given": ["Maria"]
        }
      ],
      "birthDate": "1990-05-15",
      "telecom": [
        {
          "system": "phone",
```

```

      "value": "3235551234"
    }
  ],
  "communication": [
    {
      "language": {
        "coding": [
          {
            "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-language",
            "code": "SPA",
            "display": "Spanish"
          }
        ]
      }
    }
  ],
  "extension": [
    {
      "url": "http://dmh.lacounty.gov/fhir/Extension/insurance-status",
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-insurance-status",
        "code": "medi-cal",
        "display": "Medi-Cal"
      }
    }
  ]
},
{
  "resourceType": "Practitioner",
  "id": "practitioner-1",
  "name": [
    {
      "family": "Smith",
      "given": ["John"]
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "value": "2135559876"
    }
  ],
  "qualification": [
    {
      "code": {
        "coding": [
          {
            "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role",
            "code": "health-provider",
            "display": "Health Provider"
          }
        ]
      }
    }
  ]
}
],
"status": "active",
"intent": "order",
"priority": "routine",
"subject": {
  "reference": "#patient-1"
},
"requester": {
  "reference": "#practitioner-1"
},
"authoredOn": "2025-01-15T14:30:00-08:00",
"reasonCode": [
  {
    "text": "Client requesting mental health services for anxiety and depression"
  }
],
"note": [
  {
    "text": "Client was referred by primary care physician. No prior mental health treatment history."
  }
]

```

```

    },
    "extension": [
      {
        "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
          "code": "AB123"
        }
      },
      {
        "url": "http://dmh.lacounty.gov/fhir/Extension/request-type",
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-request-type",
          "code": "call",
          "display": "Call"
        }
      },
      {
        "url": "http://dmh.lacounty.gov/fhir/Extension/request-respond-staff",
        "valueString": "Johnson"
      }
    ]
  }
}

```

Successful Response (HTTP 201 Created)

```

{
  "resourceType": "ServiceRequest",
  "id": "sr-abc12345",
  "meta": {
    "profile": [
      "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
    ],
    "versionId": "1",
    "lastUpdated": "2025-01-15T22:30:05.123Z"
  },
  "identifier": [
    {
      "system": "http://dmh.lacounty.gov/fhir/identifier/srts-id",
      "value": "a1b2c3d4-e5f6-7890-abcd-ef1234567890"
    }
  ],
  "status": "active",
  "intent": "order",
  "priority": "routine",
  "subject": {
    "reference": "#patient-1"
  },
  "requester": {
    "reference": "#practitioner-1"
  },
  "authoredOn": "2025-01-15T14:30:00-08:00",
  "extension": [
    {
      "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
        "code": "AB123"
      }
    }
  ]
}

```

Key: The response includes an `identifier` with system `http://dmh.lacounty.gov/fhir/identifier/srts-id`. This is the SRTS ID — store it for cross-system correlation.

6. Submitting a Transaction Bundle

Use a FHIR transaction Bundle to submit multiple referrals in a single HTTP call. The entire Bundle is processed atomically — if any entry fails validation, the entire Bundle is rejected.

Request

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

Example: Transaction Bundle with Two Referrals

```
{
  "resourceType": "Bundle",
  "type": "transaction",
  "entry": [
    {
      "fullUrl": "urn:uuid:entry-1",
      "resource": {
        "resourceType": "ServiceRequest",
        "meta": {
          "profile": [
            "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
          ]
        },
        "contained": [
          {
            "resourceType": "Patient",
            "id": "patient-1",
            "name": [{ "family": "Doe", "given": ["Jane"] }],
            "birthDate": "1985-03-22"
          },
          {
            "resourceType": "Practitioner",
            "id": "practitioner-1",
            "name": [{ "family": "Williams", "given": ["Robert"] }],
            "qualification": [{
              "code": {
                "coding": [{
                  "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role",
                  "code": "health-provider"
                }]
              }
            }]
          }
        ]
      },
      "status": "active",
      "intent": "order",
      "priority": "urgent",
      "subject": { "reference": "#patient-1" },
      "requester": { "reference": "#practitioner-1" },
      "authoredOn": "2025-01-10T09:00:00-08:00",
      "extension": [
        {
          "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
          "valueCoding": {
            "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
            "code": "AB123"
          }
        },
        {
          "url": "http://dmh.lacounty.gov/fhir/Extension/request-respond-staff",
          "valueString": "Martinez"
        }
      ]
    },
    {
      "request": {
        "method": "POST",
        "url": "ServiceRequest"
      },
      {
        "fullUrl": "urn:uuid:entry-2",
        "resource": {
          "resourceType": "ServiceRequest",

```

```

    "meta": {
      "profile": [
        "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
      ]
    },
    "contained": [
      {
        "resourceType": "Patient",
        "id": "patient-2",
        "name": [{ "family": "Lee", "given": ["David"] }],
        "birthDate": "2005-11-08"
      },
      {
        "resourceType": "Practitioner",
        "id": "practitioner-2",
        "name": [{ "family": "Chen", "given": ["Lisa"] }],
        "qualification": [{
          "code": {
            "coding": [{
              "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role",
              "code": "school"
            }]
          }
        }]
      }
    ],
    "status": "active",
    "intent": "order",
    "priority": "routine",
    "subject": { "reference": "#patient-2" },
    "requester": { "reference": "#practitioner-2" },
    "authoredOn": "2025-01-10T10:15:00-08:00",
    "extension": [
      {
        "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
          "code": "AB123"
        }
      },
      {
        "url": "http://dmh.lacounty.gov/fhir/Extension/request-respond-staff",
        "valueString": "Thompson"
      }
    ]
  },
  "request": {
    "method": "POST",
    "url": "ServiceRequest"
  }
}

```

Successful Response (HTTP 200 OK)

```

{
  "resourceType": "Bundle",
  "type": "transaction-response",
  "entry": [
    {
      "response": {
        "status": "201 Created",
        "location": "ServiceRequest/sr-abc12345/_history/1"
      },
      "resource": {
        "resourceType": "ServiceRequest",
        "id": "sr-abc12345",
        "identifier": [
          {
            "system": "http://dmh.lacounty.gov/fhir/identifier/srts-id",
            "value": "a1b2c3d4-e5f6-7890-abcd-ef1234567890"
          }
        ]
      }
    ]
  }
}

```

```

    }
  },
  {
    "response": {
      "status": "201 Created",
      "location": "ServiceRequest/sr-def67890/_history/1"
    },
    "resource": {
      "resourceType": "ServiceRequest",
      "id": "sr-def67890",
      "identifier": [
        {
          "system": "http://dmh.lacounty.gov/fhir/identifier/srts-id",
          "value": "b2c3d4e5-f6a7-8901-bcde-f12345678901"
        }
      ]
    }
  }
]
}

```

Important: Transaction Bundles are atomic. If any entry fails validation, the entire Bundle is rejected with HTTP 422 and no records are created.

7. SRTS ID in the Response

Overview

Every successfully created ServiceRequest includes an **SRTS ID** in the response body. The SRTS ID is a Dynamics 365 GUID that uniquely identifies the referral record across systems (FHIR store, Dynamics 365/SRTS portal, and reporting).

Identifier Structure

```

{
  "identifier": [
    {
      "system": "http://dmh.lacounty.gov/fhir/identifier/srts-id",
      "value": "a1b2c3d4-e5f6-7890-abcd-ef1234567890"
    }
  ]
}

```

Field	Description
system	Always http://dmh.lacounty.gov/fhir/identifier/srts-id
value	A GUID (UUID format) assigned by Dynamics 365

Usage

- **Store this ID** in your EHR system to correlate the referral with DMH records
- The SRTS ID is returned synchronously in the API response (no polling required)
- Use the SRTS ID for any follow-up communication with DMH regarding the referral
- For transaction Bundles, each entry in the response includes its own SRTS ID

Comparison to Legacy

Legacy	FHIR R4
ServiceRequestID (integer from SQL database)	SRTS ID (Dynamics 365 GUID) on identifier[srts-id]
Returned in SOAP response XML	Returned in JSON response body on the ServiceRequest resource

8. BHSa Program Enrollment

Overview

When submitting a referral that includes BHSa (Behavioral Health Services Act) program enrollment data, include an **EpisodeOfCare** resource in the request. The EpisodeOfCare tracks program enrollment status, housing information, and program/service type.

EpisodeOfCare Resource Structure

The EpisodeOfCare must conform to the profile: <http://dmh.lacounty.gov/fhir/StructureDefinition/bhsa-episode-of-care>

Conditional Field Requirements

Condition	Required Field
Referral category is null (new record)	Program/Service Type
Non-null referral category AND null disposition (open referral)	Program/Service Type
Enrollment date present without disenrollment date AND no Program/Service Type	Defaults to fsp-icm
Unhoused status = "yes"	Living Situation must be provided
Living situation = "other"	Living Situation Other Description must be provided

Example: ServiceRequest with BHSA Enrollment

```
{
  "resourceType": "ServiceRequest",
  "meta": {
    "profile": [
      "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
    ]
  },
  "contained": [
    {
      "resourceType": "Patient",
      "id": "patient-1",
      "name": [{ "family": "Johnson", "given": ["Robert"] }],
      "birthDate": "1978-09-20"
    },
    {
      "resourceType": "Practitioner",
      "id": "practitioner-1",
      "name": [{ "family": "Davis", "given": ["Sarah"] }],
      "qualification": [{
        "code": {
          "coding": [{
            "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role",
            "code": "health-provider"
          }]
        }
      }]
    }
  ],
  {
    "resourceType": "EpisodeOfCare",
    "id": "episode-1",
    "meta": {
      "profile": [
        "http://dmh.lacounty.gov/fhir/StructureDefinition/bhsa-episode-of-care"
      ]
    },
    "status": "active",
    "patient": { "reference": "#patient-1" },
    "period": {
      "start": "2025-01-01"
    }
  },
  "extension": [
    {
      "url": "http://dmh.lacounty.gov/fhir/Extension/program-service-type",
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-program-service-type",
        "code": "fsp-icm",
        "display": "Adult Full Service Partnership (FSP) - Intensive Case Management (ICM)"
      }
    },
    {
      "url": "http://dmh.lacounty.gov/fhir/Extension/referral-category",
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-referral-category",
        "code": "fsp",
        "display": "Full Service Partnership"
      }
    }
  ],
  {

```

```

    "url": "http://dmh.lacounty.gov/fhir/Extension/unhoused-status",
    "valueCoding": {
      "system": "http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-unhoused-status",
      "code": "yes"
    }
  },
  {
    "url": "http://dmh.lacounty.gov/fhir/Extension/living-situation",
    "valueCoding": {
      "system": "http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-living-situation",
      "code": "shelter",
      "display": "Shelter"
    }
  }
]
}
},
"status": "active",
"intent": "order",
"priority": "routine",
"subject": { "reference": "#patient-1" },
"requester": { "reference": "#practitioner-1" },
"authoredOn": "2025-01-15T10:00:00-08:00",
"supportingInfo": [
  { "reference": "#episode-1" }
],
"extension": [
  {
    "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
    "valueCoding": {
      "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
      "code": "CD456"
    }
  },
  {
    "url": "http://dmh.lacounty.gov/fhir/Extension/request-respond-staff",
    "valueString": "Wilson"
  }
]
}

```

Living Situation Code Values

Code	Display
at-risk-eviction	At risk of eviction
exiting-jail-hospital	Exiting jail/hospital into homelessness
street-encampment	Street/encampment/not meant for human habitation
vehicle	Vehicle
motel	Motel
shelter	Shelter
ih-site	Interim Housing Program (IH) Site
couchsurfing	Couchsurfing
other	Other (requires living-situation-other description)

9. Screening Questionnaire Submission

Overview

Screening data is submitted as a FHIR [QuestionnaireResponse](#) resource that references the appropriate Questionnaire canonical URL based on the client's age. The system automatically calculates the screening score based on weighted question answers.

Questionnaire Canonical URLs

Instrument	Canonical URL	Target Population
Adult Screening	http://fhir.dmh.lacounty.gov/Questionnaire/SRL-Adult-Screening	Adults (age 21+)

Instrument	Canonical URL	Target Population
Youth Self Screening	http://fhir.dmh.lacounty.gov/Questionnaire/SRL-Youth-Self-Screening	Youth (age 0-20), self-report
Youth Caregiver Screening	http://fhir.dmh.lacounty.gov/Questionnaire/SRL-Youth-Caregiver-Screening	Youth (age 0-20), caregiver report

Score Calculation

- Each question answered **"yes"** contributes its weight to the total score (weight is typically 1 per question)
- Questions answered **"no"** or **"unable-unwilling"** contribute zero
- The system calculates and stores the total score automatically

Conditional Questions (Adult Screening)

- When **Q7** is answered "yes", the system accepts answers for **Q7a** and **Q7b**
- Q7a and Q7b are only valid when Q7 = "yes"

Answer CodeSystem

All screening answers use the same CodeSystem: <http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer>

Code	Display
yes	Yes
no	No
unable-unwilling	Unable/Unwilling to answer

Example: ServiceRequest with Adult Screening QuestionnaireResponse

```
{
  "resourceType": "ServiceRequest",
  "meta": {
    "profile": [
      "http://dmh.lacounty.gov/fhir/StructureDefinition/srl-service-request"
    ]
  },
  "contained": [
    {
      "resourceType": "Patient",
      "id": "patient-1",
      "name": [{ "family": "Brown", "given": ["Alice"] }],
      "birthDate": "1992-07-10"
    },
    {
      "resourceType": "Practitioner",
      "id": "practitioner-1",
      "name": [{ "family": "Taylor", "given": ["Mark"] }],
      "qualification": [{
        "code": {
          "coding": [{
            "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role",
            "code": "access-self"
          }]
        }
      }]
    }
  ]
},
{
  "resourceType": "QuestionnaireResponse",
  "id": "screening-1",
  "questionnaire": "http://fhir.dmh.lacounty.gov/Questionnaire/SRL-Adult-Screening",
  "status": "completed",
  "authored": "2025-01-15T10:30:00-08:00",
  "subject": { "reference": "#patient-1" },
  "item": [
    {
      "linkId": "Q1",
      "text": "Have you ever sought help for emotional, mental health, alcohol, or drug use concerns?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "yes"
        }
      }]
    }
  ]
}
```

```

    },
    {
      "linkId": "Q2",
      "text": "Currently taking or ever taken prescription mental health medication?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "no"
        }
      }]
    },
    {
      "linkId": "Q3",
      "text": "Without housing or safe place to sleep?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "no"
        }
      }]
    },
    {
      "linkId": "Q4",
      "text": "Having difficulties in school, work, relationships, or housing due to mental health?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "yes"
        }
      }]
    },
    {
      "linkId": "Q5",
      "text": "Thoughts of hurting yourself or others?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "no"
        }
      }]
    },
    {
      "linkId": "Q6",
      "text": "Hearing voices or seeing things others cannot?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "no"
        }
      }]
    },
    {
      "linkId": "Q7",
      "text": "Received emergency treatment for emotional, mental health, alcohol, or drug use concerns?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "yes"
        }
      }]
    },
    {
      "linkId": "Q7a",
      "text": "If yes to Q7, how many times in the last 12 months?",
      "answer": [{
        "valueInteger": 2
      }]
    },
    {
      "linkId": "Q8",
      "text": "Currently using alcohol or drugs?",
      "answer": [{
        "valueCoding": {
          "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
          "code": "no"
        }
      }]
    }
  ]
}

```

```

    }}
  },
  {
    "linkId": "Q9",
    "text": "Involved with the criminal justice system?",
    "answer": [{
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
        "code": "no"
      }
    }]
  },
  {
    "linkId": "Q10",
    "text": "Veteran or active military?",
    "answer": [{
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
        "code": "no"
      }
    }]
  },
  {
    "linkId": "Q11",
    "text": "Currently pregnant or recently gave birth?",
    "answer": [{
      "valueCoding": {
        "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer",
        "code": "unable-unwilling"
      }
    }]
  }
]
}
],
"status": "active",
"intent": "order",
"priority": "routine",
"subject": { "reference": "#patient-1" },
"requester": { "reference": "#practitioner-1" },
"authoredOn": "2025-01-15T10:30:00-08:00",
"supportingInfo": [
  { "reference": "#screening-1" }
],
"extension": [
  {
    "url": "http://dmh.lacounty.gov/fhir/Extension/program-of-service",
    "valueCoding": {
      "system": "http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service",
      "code": "AB123"
    }
  },
  {
    "url": "http://dmh.lacounty.gov/fhir/Extension/request-respond-staff",
    "valueString": "Anderson"
  }
]
}
}

```

10. Error Responses and Troubleshooting

All error responses use FHIR [OperationOutcome](#) resources with structured issue details.

HTTP 401 — Authentication Failed

Returned when the request does not include a valid subscription key.

```

{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "login",

```

```

    "diagnostics": "Missing or invalid subscription key. Ensure the Ocp-Apim-Subscription-Key header contains a valid
subscription key."
  }
]
}

```

Troubleshooting:

- Verify the `Ocp-Apim-Subscription-Key: {your-subscription-key}` header is present
- Confirm you are using a valid subscription key for the target environment
- Contact DMH HIDEX Support if your subscription key needs to be rotated, or open a ticket using the [HEAT Self Service portal](#)
- Ensure the token audience matches the Provider Access API application ID

HTTP 403 — Authorization Failed (Program Mismatch)

Returned when the token is valid but the `program_id` claim does not match the `program-of-service` extension in the submitted `ServiceRequest`.

```

{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "forbidden",
      "diagnostics": "Token program_id claim 'XY789' does not match ServiceRequest program-of-service 'AB123'. You are not
authorized to submit referrals for this program."
    }
  ]
}

```

Troubleshooting:

- Verify the `program-of-service` extension code matches your assigned program
- Contact LACDMH CIOB if you need access to additional programs, or open a ticket using the [HEAT Self Service portal](#)
- Ensure the program code is entered exactly (case-insensitive comparison)

HTTP 422 — Validation Failed

Returned when one or more business rules are violated. All validation errors are returned at once.

```

{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "required",
      "expression": ["ServiceRequest.authoredOn"],
      "diagnostics": "Request date/time (authoredOn) is required."
    },
    {
      "severity": "error",
      "code": "value",
      "expression": ["ServiceRequest.extension:request-respond-staff"],
      "diagnostics": "RequestRespondStaff must contain only alphabetic characters. Maximum length: 80 characters."
    },
    {
      "severity": "error",
      "code": "code-invalid",
      "expression": ["ServiceRequest.extension:program-of-service"],
      "diagnostics": "ProgramOfService 'INVALID' is not a recognized code in CodeSystem
http://dmh.lacounty.gov/fhir/CodeSystem/sr1-program-of-service."
    }
  ]
}

```

Common Validation Errors and Corrective Actions:

Error	Field	Fix
<code>authoredOn</code> is required	<code>ServiceRequest.authoredOn</code>	Provide date+time in ISO 8601 format

Error	Field	Fix
<code>program-of-service</code> invalid format	Extension	Must be 5-6 alphanumeric characters
<code>request-respond-staff</code> invalid characters	Extension	Alphabetic only, max 80 chars
<code>note</code> exceeds max length	<code>ServiceRequest.note[0].text</code>	Max 1000 characters
<code>reasonCode</code> exceeds max length	<code>ServiceRequest.reasonCode[0].text</code>	Max 300 characters
Referring party last name required	<code>Practitioner.name[0].family</code>	Max 38 chars, alpha/hyphens/apostrophes
Referring party phone invalid	<code>Practitioner.telecom[0].value</code>	Must be exactly 10 digits
Referring party role required	<code>Practitioner.qualification[0].code</code>	Must provide role code
Disposition code invalid	Extension	Must be a valid srl-disposition code
Appointment date required	Disposition extension	Required when disposition indicates appointment
Practitioner NPI invalid	Disposition extension	Must be exactly 10 digits
Living situation required	EpisodeOfCare extension	Required when unhoused-status = "yes"
Program/Service Type required	EpisodeOfCare extension	Required for new referrals or open referrals

HTTP 422 — Bundle Validation Failed

When a transaction Bundle fails, the response identifies which entry caused the failure:

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "required",
      "expression": ["Bundle.entry[1].resource.authoredOn"],
      "diagnostics": "Entry at index 1: Request date/time (authoredOn) is required. The entire Bundle has been rejected."
    }
  ]
}
```

HTTP 503 — Service Unavailable

Returned when a downstream dependency (Dynamics 365 or FHIR store) is unreachable. No data is persisted in this case.

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "fatal",
      "code": "transient",
      "diagnostics": "Dynamics 365 is currently unavailable. The referral was not created. Please retry after a brief delay."
    }
  ]
}
```

Troubleshooting:

- This is a transient error — retry after 30-60 seconds
- If the error persists for more than 5 minutes, contact LACDMH CIOB
- No data has been saved; it is safe to resubmit the same request
- Implement exponential backoff in your retry logic (recommended: 3 retries with 1s, 5s, 15s delays)

11. Sandbox and Testing Environment

Test Environment Access

The **TEST** environment is available for integration testing:

Environment	Base URL	Purpose
TEST	https://hidex-test.dmh.lacounty.gov/healthcare	Integration testing and certification

Obtaining Test Credentials

1. **Request sandbox access:** Contact LACDMH CIOB at the designated onboarding email to request sandbox credentials, or open a ticket using the [HEAT Self Service portal](#)
2. **Receive subscription key:** DMH will provision API access with:
 - Subscription key for TEST environment
 - Test `program_id` authorization configured for sandbox programs
3. **Verify API access:** Test your subscription key with a simple GET request before submitting data

Using Your Program IDs

Important: Use your organization's assigned Program IDs in all environments (TEST, QA, and PRODUCTION).

Your subscription key is associated with your authorized program code(s). These are your actual contracted program codes and should be used across all environments.

Program ID Requirements:

- Must match the `program-of-service` extension value in your ServiceRequest resources
- Token `program_id` claim is validated on every submission
- Mismatch between token claim and resource program results in HTTP 403 Forbidden
- Format: 5-6 alphanumeric characters (e.g., `AB123`, `12345A`)

Note: Your assigned Program IDs work across all environments (TEST, QA, PRODUCTION). Contact DMH HIDEX Support or open a ticket using the [HEAT Self Service portal](#) if you need your Program ID list.

Validation Steps for Contract Providers

Complete the following steps to verify your integration before production deployment:

Step 1: Authentication

- Successfully include subscription key in API requests
- Verify subscription key is stored securely in your application

Step 2: Single Referral Submission

- Submit a valid ServiceRequest with a new client (contained Patient)
- Verify HTTP 201 response with SRTS ID in the identifier
- Submit a referral with an existing client (Patient reference)
- Verify validation errors are returned for invalid payloads (HTTP 422)

Step 3: Batch Submission

- Submit a transaction Bundle with 2+ referrals
- Verify HTTP 200 response with SRTS IDs on each entry
- Verify atomic rejection when one entry is invalid

Step 4: BHSA Enrollment (if applicable)

- Submit a referral with BHSA EpisodeOfCare data
- Test conditional field validation (unhoused status → living situation)
- Verify program/service type defaulting logic

Step 5: Screening Questionnaire (if applicable)

- Submit a referral with Adult screening QuestionnaireResponse (age 21+)
- Submit a referral with Youth screening QuestionnaireResponse (age 0-20)
- Verify conditional question logic (Q7 → Q7a/Q7b for adults)

Step 6: Error Handling

- Verify your system handles 401 (re-authenticate)
- Verify your system handles 403 (alert operator)
- Verify your system handles 422 (display validation errors to user)
- Verify your system handles 503 (retry with backoff)

Production Cutover

Once all validation steps pass in the TEST environment:

1. DMH schedules a certification review
2. Upon approval, production credentials are issued
3. Update your system configuration to use the PROD base URL
4. Perform a supervised first submission in production
5. Legacy SOAP/WCF endpoint is deprecated on an agreed timeline

Appendix A: Extension URL Reference

Extension	URL	Value Type
Program of Service	http://dmh.lacounty.gov/fhir/Extension/program-of-service	valueCoding
Request Type	http://dmh.lacounty.gov/fhir/Extension/request-type	valueCoding
Urgent Request	http://dmh.lacounty.gov/fhir/Extension/urgent-request	valueBoolean
Request Respond Staff	http://dmh.lacounty.gov/fhir/Extension/request-respond-staff	valueString
Batch ID	http://dmh.lacounty.gov/fhir/Extension/batch-id	valueIdentifier
Disposition	http://dmh.lacounty.gov/fhir/Extension/disposition	Complex (nested)
Closure Reason	http://dmh.lacounty.gov/fhir/Extension/closure-reason	valueCoding
Program Service Type	http://dmh.lacounty.gov/fhir/Extension/program-service-type	valueCoding
Unhoused Status	http://dmh.lacounty.gov/fhir/Extension/unhoused-status	valueCoding
Living Situation	http://dmh.lacounty.gov/fhir/Extension/living-situation	valueCoding
Living Situation Other	http://dmh.lacounty.gov/fhir/Extension/living-situation-other	valueString
Referral Category	http://dmh.lacounty.gov/fhir/Extension/referral-category	valueCoding

Appendix B: CodeSystem URL Reference

CodeSystem	URL
Program of Service	http://dmh.lacounty.gov/fhir/CodeSystem/srl-program-of-service
Disposition	http://dmh.lacounty.gov/fhir/CodeSystem/srl-disposition
Insurance Status	http://dmh.lacounty.gov/fhir/CodeSystem/srl-insurance-status
Request Type	http://dmh.lacounty.gov/fhir/CodeSystem/srl-request-type
Referring Party Role	http://dmh.lacounty.gov/fhir/CodeSystem/srl-referring-party-role
Language	http://dmh.lacounty.gov/fhir/CodeSystem/srl-language
Release From	http://dmh.lacounty.gov/fhir/CodeSystem/srl-release-from
Client Type	http://dmh.lacounty.gov/fhir/CodeSystem/srl-client-type
Inpatient Facility	http://dmh.lacounty.gov/fhir/CodeSystem/srl-inpatient-facility
Closure Reason	http://dmh.lacounty.gov/fhir/CodeSystem/srl-closure-reason
Screening Answer	http://dmh.lacounty.gov/fhir/CodeSystem/srl-screening-answer
BHSA Program Service Type	http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-program-service-type
BHSA Living Situation	http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-living-situation
BHSA Referral Category	http://dmh.lacounty.gov/fhir/CodeSystem/bhsa-referral-category

Appendix C: Identifier Systems

Identifier	System URL	Description
SRTS ID	http://dmh.lacounty.gov/fhir/identifier/srts-id	Dynamics 365 GUID assigned to every referral
SRL Legacy ID	http://dmh.lacounty.gov/fhir/identifier/srl-legacy-id	SQL database primary key (historical records only)

--END OF THE DOCUMENT--