



LOS ANGELES COUNTY
**DEPARTMENT OF
MENTAL HEALTH**
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PROVIDER DIRECTORY API COMPANION GUIDE

VERSION 2.0

Revision History

Date	Version	Description	Author
09-30-2024	1.0	Initial Draft	DMH Integration Team
05-15-2025	2.0	Revised to clarify parameters supported and their data types in Use Cases sections, return variables and their types/structures in Data Mapping sections. (42 CFR §431.60(d)(1))	DMH Integration Team

Contents

1. <i>Introduction</i>	1
2. <i>Legal Background</i>	1
3. <i>Technical Details</i>	2
3.1 <i>API Overview</i>	2
3.2 <i>Search Parameters</i>	3
3.3 <i>Key FHIR Resources</i>	3
3.2.1 <i>HealthcareService</i>	3
3.2.2 <i>Location</i>	10
3.2.3 <i>Organization</i>	18
3.2.4 <i>Practitioner</i>	21
3.2.5 <i>PractitionerRole</i>	28
3.4 <i>Exception Handling</i>	31
3.5 <i>Paging and Filtering</i>	31
3.6 <i>Rate Limits</i>	32

1. Introduction

This document serves as a companion guide to the Provider Directory API maintained by the Los Angeles County Department of Mental Health (DMH) as required by state and federal mandates. The API provides access to a comprehensive directory of healthcare providers. The goal of this guide is to supplement the FHIR standard specifications by outlining DMH-specific requirements, usage details, and best practices.

The Provider Directory API follows the FHIR v4.0.1 standard, and this guide assumes basic familiarity with FHIR resources and terminology. For complete FHIR documentation, refer to the official FHIR specification.

2. Legal Background

The Provider Directory API is required to comply with several legal and regulatory mandates, primarily at both the federal and state levels. These mandates focus on improving access to healthcare provider information, enhancing care coordination, and ensuring the accuracy and availability of provider data. Key mandates driving the requirement for a Provider Directory API include:

- 21st Century Cures Act (2016): Requires healthcare organizations to provide open access to data, including provider directories, through standardized APIs (FHIR), supporting interoperability and patient access to information.
- CMS Interoperability and Patient Access Final Rule (2020): Mandates Medicaid and CHIP plans to offer publicly accessible, FHIR-compliant provider directories via APIs to improve care coordination and empower patients.
- California Assembly Bill 205 (AB 205): Requires Medi-Cal managed care plans to maintain accurate online provider directories and make the information publicly accessible through APIs.
- CalAIM Initiative: California's Medicaid reform mandates accurate, API-based provider directories to enhance system integration and patient access to care.
- HITECH Act (2009): Promotes secure exchange of health information, influencing the development of modern healthcare data systems, including provider directories.

3. Technical Details

3.1 API Overview

The Provider Directory API is a RESTful web service that facilitates data exchange in JSON format. It uses standard FHIR resources, as defined by HL7, to represent healthcare provider information. The API follows the REST (Representational State Transfer) architectural style, meaning it uses standard HTTP methods—primarily **GET**—to retrieve data. JSON (JavaScript Object Notation) is used to structure and transmit the data, providing an efficient way for systems to communicate and share information.

- Base URL: <https://hidex.dmh.lacounty.gov/Provider>
In this document, also referred to as [base]
- FHIR Version: v4.0.1
- Access: Anonymous (no authentication required)
- Content Type: application/fhir+json

The API supports standard FHIR resources related to the provider directory, primarily focusing on the following:

- Practitioner – Represents an individual healthcare provider.
- Organization – Represents a healthcare organization or facility.
- Location – Represents physical locations where services are provided.
- HealthcareService – Details specific services offered at a location.
- PractitionerRole – Links practitioners to their roles within organizations and locations.

The following section covers the following topics:

- API syntax, function names, required and optional parameters supported and their data types, return variables and their types/structures, exceptions and exception handling methods, and their returns.
- The software components and configurations an application shall use to successfully interact with the API and process its response(s).
- All applicable technical requirements and attributes that are necessary for an application to be registered with any authorization server(s) deployed in conjunction with the API
- In the 3.2 Search Parameters section and in each Key FHIR resource Use Cases subsections identify commonly used parameters supported and their data types required by 42 CFR §431.60(d)(1).
- In the Data Mapping and Sample Response subsections include return variables and their types/structures.

3.2 Search Parameters

The Provider Directory API supports standard FHIR R4 search parameters. The following are common search parameters for each resource:

- Practitioner: name, identifier, family, given
- Organization: name, identifier, address, type
- Location: name, identifier, address, organization
- HealthcareService: organization, location, type
- PractitionerRole: practitioner, organization, location, healthcareService

Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>) for a comprehensive list of R4 search parameters and operations.



3.3 Key FHIR Resources

The following REST methods have been implemented using the respective FHIR resource profiles through the LACDMH Provider Directory API. Each URL will show the API syntax, function names, required and optional parameters supported and their data types, return variables and their types/structures as per HL7 FHIR standard:

FHIR API REST Method	Based On	Resource Definition URL
HealthcareService	HealthcareService (R4)	http://hl7.org/fhir/R4/healthcareservice.html
Location	Location (US Core)	http://hl7.org/fhir/us/core/STU3.1.1/StructureDefinition-us-core-location.html
Organization	Organization (US Core)	http://hl7.org/fhir/us/core/STU3.1.1/StructureDefinition-us-core-organization.html
Practitioner	Practitioner (US Core)	http://hl7.org/fhir/us/core/STU3.1.1/StructureDefinition-us-core-practitioner.html
PractitionerRole	PractitionerRole (R4)	http://hl7.org/fhir/R4/practitionerrole.html

Please note that some response structures include a codeableconcept structure. From the FHIR R4 standard, “A CodeableConcept represents a value that is usually supplied by providing a reference to one or more terminologies or ontologies but may also be defined by the provision of text. This is a common pattern in healthcare data.”

Structure

Name	Flags	Card.	Type	Description & Constraints
 CodeableConcept	Σ N		Element	Concept - reference to a terminology or just text Elements defined in Ancestors: id , extension
 coding	Σ	0..*	Coding	Code defined by a terminology system
 text	Σ	0..1	string	Plain text representation of the concept

For details please consult the the FHIR documentation, Datatypes - FHIR v4.0.1
(<https://www.hl7.org/fhir/R4/datatypes.html#CodeableConcept>)

Note that for cardinality:

- 1..1 means required and no repeats.
- 0..1 means optional and no repeats.
- 1..n means required and may repeat
- 0..n means optional and may repeat.

3.2.1 HealthcareService

3.2.1.1 Definition

The HealthcareService resource provides details about the healthcare services offered by an organization at a specific location.

3.2.1.2 Use Cases

The below use cases define the most commonly used parameters supported and their data types. For a comprehensive list of supported parameters please Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>).

Use Case #	Description	LACDMH FHIR Service Method & Search Query
1	User wants to check if a program supported by the HealthcareService	Search Query String: GET [base]/ HealthcareService? program=[string] Example: GET [base]/ HealthcareService? program= AB109

2	User wants to find out the type of service provided by a healthcare service	<p>Search Query String:</p> <p>GET [base]/ HealthcareService? type=[string]</p> <p>Example:</p> <p>GET [base]/ HealthcareService? type= Crisis Residential Treatment Services</p>
---	---	---

3.2.1.3 Data Mapping

The return variables and structure are defined below:

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
n/a	HealthcareService.id	1..1	string
n/a	HealthcareService.meta.lastUpdated	1..1	dateTime
n/a	HealthcareService.identifier.use	1..1	string
n/a	HealthcareService.identifier.system	1..1	string
n/a	HealthcareService.identifier.value	1..1	string
Name of medical group/foundation, any group affiliation	HealthcareService.providedBy.reference	1..1	string
Name of medical group/foundation, any group affiliation	HealthcareService.providedBy.display	1..1	string
Services and benefits available: AgeGroupServed	HealthcareService.category.coding.system	1..n	codeableconcept
Services and benefits available: AgeGroupServed	HealthcareService.category.coding.code	1..n	codeableconcept
Services and benefits available: AgeGroupServed	HealthcareService.category.coding.display	1..n	codeableconcept
Services and benefits available: AgeGroupServed	HealthcareService.category.text	1..n	codeableconcept
Services and benefits available: TypeOfService	HealthcareService.type.coding.code	1..n	codeableconcept
Services and benefits available: TypeOfService	HealthcareService.type.coding.display	1..n	codeableconcept
Services and benefits available: TypeOfService	HealthcareService.type.text	1..n	codeableconcept
Services and benefits available: TypeOfService	HealthcareService.type.coding.system	1..n	codeableconcept

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
Specialty, as applicable: DSM Practice Focus	HealthcareService.specialty.coding.system	1..n	codeableconcept
Specialty, as applicable: DSM Practice Focus	HealthcareService.specialty.coding.code	1..n	codeableconcept
Specialty, as applicable: DSM Practice Focus	HealthcareService.specialty.coding.display	1..n	codeableconcept
Services and benefits available:PROGRAMS SERVED	HealthcareService.program.coding.system	1..n	codeableconcept
Services and benefits available:PROGRAMS SERVED	HealthcareService.program.coding.code	1..n	codeableconcept
Services and benefits available:PROGRAMS SERVED	HealthcareService.program.coding.display	1..n	codeableconcept
n/a	HealthcareService.location.reference	1..n	string
Services and benefits available:SERVICE ACCESSIBLE BY PHONE/WALK-IN/BY APPOINTMENT	HealthcareService.appointmentRequired	1..n	boolean
n/a	HealthcareService.extension.url	1..1	string
Services and benefits available:SERVICE ACCESSIBLE BY REFERRAL ONLY	HealthcareService.extension.valueString	1..1	string
Services and benefits available	PractitionerRole.healthcareService.reference	0..n	string

3.2.1.4 Sample Response

```
{
  "resourceType": "Bundle",
  "id": "<fhir_instance_id>",
  "meta": {
    "lastUpdated": "2025-04-18T20:26:33.1552557+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "next",
```

```

        "url":
"https://hidex.dmh.lacounty.gov/provider/HealthcareService?program%3Atext=General%20Outpatient%20Care%20Services&ct=er97f5lRTbSZgY6poYGFhYGxpZmFqbGBoYGppbFRLAAAP%2F%2F"
    },
    {
        "relation": "self",
        "url":
"https://hidex.dmh.lacounty.gov/provider/HealthcareService?program%3Atext=General%20Outpatient%20Care%20Services"
    }
],
"entry": [
    {
        "fullUrl":
"https://hidex.dmh.lacounty.gov/provider/HealthcareService/41b8994a-c4c4-4d69-b909-fca7156b0a76",
        "resource": {
            "resourceType": "HealthcareService",
            "id": "41b8994a-c4c4-4d69-b909-fca7156b0a76",
            "meta": {
                "versionId": "1",
                "lastUpdated": "2024-08-23T22:39:24.033+00:00"
            },
            "extension": [
                {
                    "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/referralRequired",
                    "valueString": "Yes"
                }
            ],
            "providedBy": {
                "reference": "Organization/00179",
                "display": "CHILDRENS HOSPITAL OF LA"
            },
            "category": [
                {
                    "coding": [
                        {
                            "system":
"http://terminology.hl7.org/CodeSystem/service-category",
                            "code": "22",
                            "display": "Mental Health"
                        }
                    ]
                }
            ],

```

```

        "text": "Site Serves Children and Adults"
      }
    ],
    "type": [
      {
        "coding": [
          {
            "system":
"http://terminology.hl7.org/CodeSystem/service-type",
            "code": "384",
            "display": "Medication Administration"
          }
        ],
        "text": "Medication Support Services"
      },
      {
        "coding": [
          {
            "system":
"http://terminology.hl7.org/CodeSystem/service-type",
            "code": "490",
            "display": "General Mental Health Services"
          }
        ],
        "text": "Mental Health Services"
      },
      {
        "coding": [
          {
            "system":
"http://terminology.hl7.org/CodeSystem/service-type",
            "code": "135",
            "display": "Mental Health Assess/Triage/Crisis
Response"
          }
        ],
        "text": "Crisis Intervention"
      }
    ],
    "specialty": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "35489007",

```

```

        "display": "Depressive disorder"
      }
    ],
    "text": "Depressive Disorders"
  },
  {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "35489007",
        "display": "Depressive disorder"
      }
    ],
    "text": "Depressive Disorders"
  },
  {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "197480006",
        "display": "Anxiety disorder"
      }
    ],
    "text": "Anxiety Disorders"
  },
  {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "46206005",
        "display": "Mood disorder"
      }
    ],
    "text": "Mood Disorders"
  }
],
"location": [
  {
    "reference": "Location/7586",
    "display": "CHILDREN'S HOSPITAL LA QUEENSCARE HEALTH +
FAITH PARTNERSHIP"
  }
],
"program": [
  {

```

```
        "coding": [
          {
            "system":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/Program",
            "code": "General Outpatient Care Services",
            "display": "General Outpatient Care Services"
          }
        ]
      },
      "appointmentRequired": true
    },
    "search": {
      "mode": "match"
    }
  }
]
```

3.2.2 Location

3.2.2.1 Definition

The Location resource provides details about the physical locations of organizations or practitioners, such as offices or clinics.

3.2.2.2 Use Cases

The below use cases define the most commonly used parameters supported and their data types. For a comprehensive list of supported parameters please Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>).

Use Case #	Description	LACDMH FHIR Service Method & Search Query
1	User wants to search by location name	Search Query String: GET [base]/ Location? name=[string]

Use Case #	Description	LACDMH FHIR Service Method & Search Query
		Example: GET [base]/ Location?name=Pacific Clinics Long Beach
2	User wants to search by adding part of location address	Search Query String: GET [base]/ Location? address=[string] Example: GET [base]/ Location?address=Atlantic Ave
3	User wants to search for all locations by city	Search Query String: GET [base]/ Location? city=[string] Example: GET [base]/ Location?city=Pasadena
4	Users wants to search for all locations by a particular zip code	Search Query String: GET [base]/ Location? zip=[string] Example: GET [base]/ Location?zip=91406
5	User wants to get all locations for an organization	Search Query String: GET [base]/ Location? OrganizationName=[string] Example: GET [base]/ Location? OrganizationName=United Clincs

3.2.2.3 Data Mapping

The return variables and structure are defined below:

CaliforniaStateDHCS BHIN_22-068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
n/a	Location.id	1..1	string
n/a	Location.meta.profile	1..1	meta
Data must be updated within the last 30-days	Location.meta.lastUpdated	1..1	meta
Services and benefits available: language supported	Location.extension.url	1..n	extension
Services and benefits available: language supported	Location.extension.valueCodeable Concept.coding.system	1..n	codeableconcept
Services and benefits available: language supported	Location.extension.valueCodeable Concept.coding.code	1..n	codeableconcept
Services and benefits available: language supported	Location.extension.valueCodeable Concept.coding.display	1..n	codeableconcept

CaliforniaStateDHCS BHIN_22-068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
<i>Services and benefits available: language supported</i>	<i>Location.extension.valueCodeable Concept.text</i>	<i>1..n</i>	<i>codeableconcept</i>
<i>WHAT SPECIAL POPULATION SITE SERVES</i>	<i>Location.extension.url</i>	<i>1..n</i>	<i>extension</i>
<i>WHAT SPECIAL POPULATION SITE SERVES</i>	<i>Location.extension.valueString</i>	<i>1..n</i>	<i>extension</i>
<i>n/a</i>	<i>Location.identifier.use</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>Location.identifier.system</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>Location.identifier.value</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>Location.status</i>	<i>1..1</i>	<i>string</i>
<i>Name of site/independent physician/provider associations</i>	<i>Location.name</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>Location.mode</i>	<i>1..1</i>	<i>code</i>
<i>n/a</i>	<i>Location.type.coding.system</i>	<i>1..1</i>	<i>codeableconcept</i>
<i>n/a</i>	<i>Location.type.coding.code</i>	<i>1..1</i>	<i>codeableconcept</i>
<i>n/a</i>	<i>Location.type.coding.display</i>	<i>1..1</i>	<i>codeableconcept</i>
<i>All telephone numbers associated with the practice site;</i>	<i>Location.telecom.system</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>All telephone numbers associated with the practice site;</i>	<i>Location.telecom.value</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>All telephone numbers associated with the practice site;</i>	<i>Location.telecom.use</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Website URL for each service location or physician provider, as appropriate</i>	<i>Location.telecom.system</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Website URL for each service location or physician provider, as appropriate</i>	<i>Location.telecom.value</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Website URL for each service location or physician provider, as appropriate</i>	<i>Location.telecom.use</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Telephone number to call the 24/7 access line</i>	<i>Location.telecom.system</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Telephone number to call the 24/7 access line</i>	<i>Location.telecom.value</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>Telephone number to call the 24/7 access line</i>	<i>Location.telecom.use</i>	<i>1..n</i>	<i>ContactPoint</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.telecom.system</i>	<i>1..1</i>	<i>ContactPoint</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.telecom.value</i>	<i>1..1</i>	<i>ContactPoint</i>

CaliforniaStateDHCS BHIN_22-068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
<i>accommodations for people with physical disabilities</i>	<i>Location.telecom.use</i>	<i>1..1</i>	<i>ContactPoint</i>
<i>A skilled medical interpreter at the provider's office</i>	<i>Location.telecom.system</i>	<i>1..1</i>	<i>ContactPoint</i>
<i>A skilled medical interpreter at the provider's office</i>	<i>Location.telecom.value</i>	<i>1..1</i>	<i>ContactPoint</i>
<i>Street address(es)</i>	<i>Location.address.use</i>	<i>1..n</i>	<i>Address</i>
<i>Street address(es)</i>	<i>Location.address.type</i>	<i>1..n</i>	<i>Address</i>
<i>Street address(es)</i>	<i>Location.address.line</i>	<i>1..n</i>	<i>Address</i>
<i>Street address(es)</i>	<i>Location.address.city</i>	<i>1..n</i>	<i>Address</i>
<i>Street address(es)</i>	<i>Location.address.state</i>	<i>1..n</i>	<i>Address</i>
<i>Street address(es)</i>	<i>Location.address.postalcode</i>	<i>1..n</i>	<i>Address</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.physicalType.coding.system</i>	<i>1..n</i>	<i>codeableconcept</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.physicalType.coding.code</i>	<i>1..n</i>	<i>codeableconcept</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.physicalType.coding.display</i>	<i>1..n</i>	<i>codeableconcept</i>
<i>accommodations for people with physical disabilities</i>	<i>Location.physicalType.text</i>	<i>1..n</i>	<i>codeableconcept</i>
<i>Name of medical group/foundation, any group affiliation</i>	<i>Location.managingOrganization.reference</i>	<i>1..1</i>	<i>string</i>
<i>Hours and days when each service location is open, including the availability of evening and/or weekend hours</i>	<i>Location.hoursOfOperation.daysOfWeek</i>	<i>1..n</i>	<i>code</i>
<i>Hours and days when each service location is open, including the availability of evening and/or weekend hours</i>	<i>Location.hoursOfOperation.openingTime</i>	<i>1..n</i>	<i>time</i>
<i>Hours and days when each service location is open, including the availability of evening and/or weekend hours</i>	<i>Location.hoursOfOperation.closingTime</i>	<i>1..n</i>	<i>time</i>

3.2.2.4 Sample Response

```
{
  "resourceType": "Bundle",
  "id": "bb1cf622-c98f-451e-b88f-58e6eedbcec0",
  "meta": {
```



```

    "lastUpdated": "2025-04-21T18:52:34.5758796+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "self",
      "url":
"https://hidex.dmh.lacounty.gov/provider/Location?name=The%20children"
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://hidex.dmh.lacounty.gov/provider/Location/45934169-3694-4c9a-8357-
b37c8f4958f4",
      "resource": {
        "resourceType": "Location",
        "id": "45934169-3694-4c9a-8357-b37c8f4958f4",
        "meta": {
          "versionId": "2",
          "lastUpdated": "2024-09-24T18:44:28.681+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
location"
          ]
        },
        "extension": [
          {
            "url":
"https://fhir.dmh.lacounty.gov/v4/Terminology/languageSpokenAtLocation",
            "valueCodeableConcept": {
              "coding": [
                {
                  "system": "https://iso639-3.sil.org",
                  "code": "eng",
                  "display": "English"
                },
                {
                  "system": "https://iso639-3.sil.org",
                  "code": "spa",
                  "display": "Spanish"
                },
                {
                  "system": "https://iso639-3.sil.org",
                  "code": "tgl",

```

```

        "display": "Tagalog"
      }
    ],
    "text": "Language(s) supported at location"
  }
},
{
  "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/SpecialPopulationServed",
  "valueString": "Co-Occurring Substance Use Disorders;
Disabilities/Special Needs; Forensic/Legal; Gender Identity; Homeless/Housing;
Other Population/Cultural; Race/Ethnicity; Sexual Orientation; Spirituality;
Trauma; Underrepresented Populations; Veterans"
}
],
"identifier": [
  {
    "use": "official",
    "system": "DMH.DW.HCPDFhirApi.Sites_ProviderDirectory",
    "value": "7488"
  }
],
"status": "active",
"name": "THE CHILDREN'S CENTER OF THE ANTELOPE VALLEY",
"mode": "instance",
"type": [
  {
    "coding": [
      {
        "system":
"http://terminology.hl7.org/CodeSystem/v3-RoleCode",
        "code": "RHU",
        "display": "Rehabilitation hospital unit"
      }
    ]
  }
],
"telecom": [
  {
    "system": "phone",
    "value": "6619491206",
    "use": "work"
  },
  {
    "system": "url",

```

```

        "value": "ccav.org",
        "use": "work"
      },
      {
        "system": "phone",
        "value": "24/7 ACCESS Center Hotline at 1-800-854-7771.
(For TDD-TTY, call 711)",
        "use": "work"
      }
    ],
    "address": {
      "use": "work",
      "type": "physical",
      "line": [
        "45111 FERN AVE"
      ],
      "city": "LANCASTER",
      "state": "CA",
      "postalCode": "93534-2301"
    },
    "physicalType": {
      "coding": [
        {
          "system":
"http://terminology.hl7.org/CodeSystem/location-physical-type",
          "code": "bu",
          "display": "Building"
        }
      ],
      "text": "Location is ADA compliant"
    },
    "managingOrganization": {
      "reference": "Organization/01066"
    },
    "hoursOfOperation": [
      {
        "daysOfWeek": [
          "mon"
        ],
        "openingTime": "08:00:00",
        "closingTime": "18:00:00"
      },
      {
        "daysOfWeek": [
          "tue"

```

```

    ],
    "openingTime": "08:00:00",
    "closingTime": "18:00:00"
  },
  {
    "daysOfWeek": [
      "wed"
    ],
    "openingTime": "08:00:00",
    "closingTime": "18:00:00"
  },
  {
    "daysOfWeek": [
      "thu"
    ],
    "openingTime": "08:00:00",
    "closingTime": "18:00:00"
  },
  {
    "daysOfWeek": [
      "fri"
    ],
    "openingTime": "08:00:00",
    "closingTime": "18:00:00"
  },
  {
    "daysOfWeek": [
      "sun"
    ],
    "openingTime": "08:00:00",
    "closingTime": "18:00:00"
  }
]
},
"search": {
  "mode": "match"
}
}
]
}

```

3.2.3 Organization

3.2.3.1 Definition

The Organization resource provides information about healthcare organizations, such as hospitals, clinics, or provider groups.

3.2.3.2 Use Cases

The below use cases define the most commonly used parameters supported and their data types. For a comprehensive list of supported parameters please Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>).

Use Case #	Description	LACDMH FHIR Service Method & Search Query
1	User wants to search for an organization by name	Method: GetOrganization Search Query String: <code>GET [base]/ Organization? name=[string]</code> Example: <code>GET [base]/ Organization?name=Pacific</code>
2	User wants to search for an organization by address	Method: GetOrganization Search Query String: <code>GET [base]/ Organization? address=[string]</code> Example: <code>GET [base]/ Organization?address=Vineland Blvd</code>

3.2.3.3 Data Mapping

CaliforniaStateDHCS BHIN_22-068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
n/a	Organization.id	1..1	string
Data must be updated within the last 30-days	Organization.meta.lastUpdated	1..1	dateTime
n/a	Organization.identifier.use	1..1	string
n/a	Organization.identifier.system	1..1	string
n/a	Organization.identifier.value	1..1	string
n/a	Organization.identifier.use	1..1	string
n/a	Organization.identifier.system	1..1	string
n/a	Organization.identifier.value	1..1	string
n/a	Organization.active	1..1	boolean
ORGANIZATION TYPE (Directly Operated/ Legal Entity/ FFS)	Organization.type.coding.code	1..1	codeableconcept
ORGANIZATION TYPE (Directly Operated/ Legal Entity/ FFS)	Organization.type.coding.display	1..1	codeableconcept
ORGANIZATION TYPE (Directly Operated/ Legal Entity/ FFS)	Organization.type.coding.system	1..1	codeableconcept
Name of medical group/foundation, any group affiliation	Organization.name	1..1	string
SERVICE AREA	Organization.address.district	1..1	string

3.2.3.4 Sample Response

```
{
  "resourceType": "Bundle",
  "id": "62553a6a-6a78-460d-8a8e-cda7e69fa365",
  "meta": {
    "lastUpdated": "2025-04-21T19:11:44.3621193+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "self",
      "url":
"https://hidex.dmh.lacounty.gov/provider/Organization?name=LA%20COUNTY%20DMH"
    }
  ],
  "entry": [
```

```

{
  "fullUrl":
  "https://hidex.dmh.lacounty.gov/provider/Organization/50671919-f358-4b52-8968-
  23d7f70d6c38",
  "resource": {
    "resourceType": "Organization",
    "meta": {
      "versionId": "13",
      "lastUpdated": "2024-08-15T19:00:58.756+00:00"
    },
    "identifier": [
      {
        "use": "official",
        "system": "https://www.dhcs.ca.gov/",
        "value": "00019"
      }
    ],
    "active": true,
    "type": [
      {
        "coding": [
          {
            "system":
            "http://terminology.hl7.org/CodeSystem/organization-type",
            "code": "prov",
            "display": "Healthcare Provider"
          }
        ]
      }
    ],
    "name": "LA COUNTY DMH",
    "address": [
      {
        "district": "SA2, SA6, SA8, SA4, SA5, SA7, SA1, SA3,
COUNTYWIDE"
      }
    ],
    "search": {
      "mode": "match"
    }
  }
}

```

3.2.4 Practitioner

3.2.4.1 Definition

The Practitioner resource is used to retrieve information about individual healthcare providers. This includes names, contact details, and qualifications.

3.2.4.2 Use Cases

The below use cases define the most commonly used parameters supported and their data types. For a comprehensive list of supported parameters please Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>).

Use Case #	Description	LACDMH FHIR Service Method & Search Query
1	User wants to search for a healthcare provider of LACDMH by name	Method: GetPractitioner Search Query String: <code>GET [base]/Practitioner?name=[string]</code> Example: <code>GET [base]/Practitioner?name=Smith</code>
2	User wants to search for a healthcare provider of LACDMH by NPI (National Provider Identifier)	Method: GetPractitioner Search Query String: <code>GET [base]/Practitioner?name=[string]</code> Example: <code>GET [base]/Practitioner? npi=1112223334</code>
3	User wants to get the list of all practitioners working in a particular location (clinic/site)	Method: GetPractitioner Search Query String: <code>GET [base]/Practitioner?LocationName=[string]</code> Example: <code>GET [base]/Practitioner? LocationName=Pacific Clinic Long Beach</code>

3.2.4.3 Data Mapping

The return variables and structure are defined below:

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
<i>n/a</i>	<i>Practitioner.id</i>	<i>1..1</i>	<i>string</i>
<i>Data must be updated within the last 30-days</i>	<i>Practitioner.meta.lastUpdated</i>	<i>1..1</i>	<i>dateTime</i>

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
n/a	Practitioner.meta.profile	1..1	string
Specialty, as applicable: DSM Practice Focus	Practitioner.extension.url	1..n	string
Specialty, as applicable: DSM Practice Focus	Practitioner.extension.valueCoding.system	1..n	coding
Specialty, as applicable: DSM Practice Focus	Practitioner.extension.valueCoding.code	1..n	coding
Specialty, as applicable: DSM Practice Focus	Practitioner.extension.valueCoding.display	1..n	coding
Services and benefits available:Does provider travel to beneficiaries	Practitioner.extension.url	1..1	string
Services and benefits available:Does provider travel to beneficiaries	Practitioner.extension.valueString	1..1	string
Services and benefits available: Distance provider willing to travel to go to beneficiaries	Practitioner.extension.url	1..1	string
Services and benefits available: Distance provider willing to travel to go to beneficiaries	Practitioner.extension.valueString	0..1	string
Specialty, as applicable: Area of expertise	Practitioner.extension.url	1..n	string
Specialty, as applicable: Area of expertise	Practitioner.extension.valueString	1..n	string
Whether the provider will accept new beneficiaries	Practitioner.extension.url	1..1	string
Whether the provider will accept new beneficiaries	Practitioner.extension.valueString	1..1	string
Services and benefits available: If provider serves special population	Practitioner.extension.url	0..n	string
Services and benefits available: If provider serves special population	Practitioner.extension.valueString	0..n	string
Services and benefits available: If provider is a telehealth practitioner	Practitioner.extension.url	0..n	string
Services and benefits available: If provider is a telehealth practitioner	Practitioner.extension.valueString	0..n	string
n/a	Practitioner.identifier.use	1..1	string

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
n/a	Practitioner.identifier.system	1..1	string
n/a	Practitioner.identifier.value	1..1	string
National Provider Identifier number	Practitioner.identifier.type.coding.system	1..1	Identifier
National Provider Identifier number	Practitioner.identifier.type.coding.code	1..1	Identifier
National Provider Identifier number	Practitioner.identifier.system	1..1	Identifier
National Provider Identifier number	Practitioner.identifier.value	1..1	Identifier
n/a	Practitioner.active	1..1	boolean
Name of provider	Practitioner.name.family	1..1	HumanName
Name of provider	Practitioner.name.given	1..1	HumanName
Specialty, as applicable: Provider's professional license	Practitioner.qualification.identifier.use	1..1	Identifier
Specialty, as applicable: Provider's professional license	Practitioner.qualification.identifier.value	1..1	Identifier
Specialty, as applicable: Provider's discipline	Practitioner.qualification.code.coding.system	1..n	codeableconcept
Specialty, as applicable: Provider's discipline	Practitioner.qualification.code.coding.code	1..n	codeableconcept
Specialty, as applicable: Provider's discipline	Practitioner.qualification.code.coding.display	1..n	codeableconcept
Specialty, as applicable: Provider's DEA license	Practitioner.qualification.identifier.use	0..1	Identifier
Specialty, as applicable: Provider's DEA license	Practitioner.qualification.identifier.value	0..1	Identifier
Specialty, as applicable: Provider's DEA license	Practitioner.qualification.code.coding.system	0..1	codeableconcept
Specialty, as applicable: Provider's DEA license	Practitioner.qualification.code.coding.code	0..1	codeableconcept
Specialty, as applicable: Provider's DEA license	Practitioner.qualification.code.coding.display	0..1	codeableconcept
Provider completed cultural competence training	Practitioner.qualification.code.coding.system	1..1	codeableconcept
Provider completed cultural competence training	Practitioner.qualification.code.coding.code	1..1	codeableconcept
Provider completed cultural competence training	Practitioner.qualification.code.coding.display	1..1	codeableconcept

CaliforniaStateDHCS BHIN_22- 068_specifiedData	FHIRResource.DataElement	Cardinality	FHIRDataType
Provider completed cultural competence training	Practitioner.qualification.code.text	1..1	codeableconcept
Cultural and linguistic capabilities	Practitioner.communication.coding.system	1..n	codeableconcept
Cultural and linguistic capabilities	Practitioner.communication.coding.code	1..n	codeableconcept
Cultural and linguistic capabilities	Practitioner.communication.coding.display	1..n	codeableconcept
Cultural and linguistic capabilities	Practitioner.communication.text	1..n	codeableconcept

3.2.4.4 Sample Response

```
{
  "resourceType": "Bundle",
  "id": "00435fd5-d3e0-4dd7-a108-f54aaf1823ce",
  "meta": {
    "lastUpdated": "2025-04-21T20:53:46.2351155+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "next",
      "url":
"https://hidex.dmh.lacounty.gov/provider/Practitioner?name=VERONICA&ct=er97f51RTbShgYWOKZCWMDA2MbI0NTc0NDIyNjGPBQAAAP%2F%2F"
    },
    {
      "relation": "self",
      "url":
"https://hidex.dmh.lacounty.gov/provider/Practitioner?name=VERONICA"
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://hidex.dmh.lacounty.gov/provider/Practitioner/abfe59ef-58ca-4355-a9c3-de4a01b0d1d6",
      "resource": {
        "resourceType": "Practitioner",

```

```

      "id": "abfe59ef-58ca-4355-a9c3-de4a01b0d1d6",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2024-08-23T20:47:48.467+00:00"
      },
      "extension": [
        {
          "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/DSM5PracticeFocus",
          "valueCoding": {
            "system":
"DMH.DW.HCPDFhirApi.Providers_ProviderDirectory",
            "code": "AD",
            "display": "Anxiety Disorders"
          }
        },
        {
          "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/DSM5PracticeFocus",
          "valueCoding": {
            "system":
"DMH.DW.HCPDFhirApi.Providers_ProviderDirectory",
            "code": "DS",
            "display": "Depressive Disorders"
          }
        },
        {
          "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/providerTravelToBeneficiar
ies",
          "valueString": "Yes"
        },
        {
          "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/distanceProviderWillingToT
ravel",
          "valueString": "20"
        },
        {
          "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/providerAreaOfExpertise",
          "valueString": "CA"
        },
        {

```

```

        "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/practitionerAcceptingPatie
nts",
        "valueString": "Yes"
    },
    {
        "url":
"http://fhir.dmh.lacounty.gov/fhir/StructureDefinition/telehealthPractitioner",
        "valueString": "Yes"
    }
],
"identifier": [
    {
        "type": {
            "coding": [
                {
                    "system":
"http://terminology.hl7.org/CodeSystem/v2-0203",
                    "code": "NPI"
                }
            ]
        },
        "system": "http://hl7.org/fhir/sid/us-npi",
        "value": "1124370887"
    }
],
"active": true,
"name": [
    {
        "family": "ZARATE",
        "given": [
            "VERONICA"
        ]
    }
],
"qualification": [
    {
        "identifier": [
            {
                "use": "official",
                "value": "139078"
            }
        ],
        "code": {
            "coding": [

```

```

        {
            "system":
"http://terminology.hl7.org/CodeSystem/v2-0203",
            "code": "MFT",
            "display": "Marriage and Family Therapist"
        }
    ],
    "text": "Marriage and Family Therapists"
},
{
    "code": {
        "coding": [
            {
                "system":
"http://terminology.hl7.org/ValueSet/v2-0360",
                "code": "CER",
                "display": "Certificate"
            }
        ],
        "text": "Cultural Competency Training Certificate"
    }
}
],
},
"search": {
    "mode": "match"
}
}
]
}

```

3.2.5 PractitionerRole

3.2.5.1 Definition

The PractitionerRole resource links practitioners to their roles, organizations, and locations.

3.2.5.2 Use Cases

The below use cases define the most commonly used parameters supported and their data types. For a comprehensive list of supported parameters please Refer to the FHIR Search API (<https://www.hl7.org/fhir/R4/search.html>).

Use Case #	Description	LACDMH FHIR Service Method & Search Query
1	User wants to see what programs, specialty a LACDMH healthcare provider provides by entering their NPI (National Provider Identifier)	Method: GetPractitionerRole Search Query String: <code>GET [base]/PractitionerRole?npi=[string]</code> Example: <code>GET [base]/PractitionerRole? npi=1112223334</code>
2	User wants to verify if a practitioner has certain specialty at an organization	Method: GetPractitionerRole Search Query String: <code>GET [base]/PractitionerRole? specialty=[string]</code> Example: <code>GET [base]/PractitionerRole? specialty= Psychologist</code>

3.2.5.3 Data Mapping

The return variables and structure are defined below:

<i>CaliforniaStateDHCS BHIN_22-068_specifiedData</i>	<i>FHIRResource.DataElement</i>	<i>Cardinality</i>	<i>FHIRDataType</i>
<i>n/a</i>	<i>PractitionerRole.id</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>PractitionerRole.meta.lastUpdated</i>	<i>1..1</i>	<i>dateTime</i>
<i>National Provider Identifier number</i>	<i>PractitionerRole.identifier.system</i>	<i>1..1</i>	<i>string</i>
<i>National Provider Identifier number</i>	<i>PractitionerRole.identifier.value</i>	<i>1..1</i>	<i>string</i>
<i>National Provider Identifier number</i>	<i>PractitionerRole.practitioner.reference</i>	<i>1..1</i>	<i>string</i>
<i>Name of provider</i>	<i>PractitionerRole.practitioner.display</i>	<i>1..1</i>	<i>string</i>
<i>n/a</i>	<i>PractitionerRole.organization.reference</i>	<i>1..1</i>	<i>string</i>
<i>Specialty, as applicable</i>	<i>PractitionerRole.specialty.coding.system</i>	<i>1..1</i>	<i>string</i>
<i>Specialty, as applicable</i>	<i>PractitionerRole.specialty.coding.code</i>	<i>1..1</i>	<i>string</i>
<i>Specialty, as applicable</i>	<i>PractitionerRole.specialty.coding.display</i>	<i>1..1</i>	<i>string</i>
<i>Specialty, as applicable</i>	<i>PractitionerRole.location.reference</i>	<i>1..1</i>	<i>string</i>
<i>Specialty, as applicable</i>	<i>PractitionerRole.location.display</i>	<i>1..1</i>	<i>string</i>
<i>Services and benefits available</i>	<i>PractitionerRole.healthcareService.reference</i>	<i>1..1</i>	<i>string</i>

3.2.5.4 Sample Response

```
{
  "resourceType": "Bundle",
  "id": "859dbe23-d7c6-42ef-bbaf-dac114bcac77",
  "meta": {
    "lastUpdated": "2025-04-21T23:25:29.7753396+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "self",
      "url":
"https://hidex.dmh.lacounty.gov/provider/PractitionerRole?identifier=http%3A%2F%2Fhl7.org%2Ffhir%2Fsid%2Fus-npi%7C1912506353"
    }
  ],
  "entry": [
    {
```



```

    "fullUrl":
"https://hidex.dmh.lacounty.gov/provider/PractitionerRole/95b04bc2-0b8e-4f6a-
b6d9-5c0a9aa61e59",
    "resource": {
      "resourceType": "PractitionerRole",
      "id": "95b04bc2-0b8e-4f6a-b6d9-5c0a9aa61e59",
      "meta": {
        "versionId": "2",
        "lastUpdated": "2024-09-27T17:43:56.868+00:00"
      },
      "identifier": [
        {
          "system": "http://hl7.org/fhir/sid/us-npi",
          "value": "1912506353"
        }
      ],
      "practitioner": {
        "reference": "Practitioner/3a1f5e79-2eb0-4618-b140-
99ee1fb70b53",
        "display": "KARINA JORGE"
      },
      "organization": {
        "reference": "Organization/00173"
      },
      "specialty": [
        {
          "coding": [
            {
              "system": "2.16.840.1.113883.6.101",
              "code": "167G00000X",
              "display": "Licensed Psychiatric Technician"
            }
          ]
        }
      ],
      "location": [
        {
          "reference": "Location/6e42db23-c5f0-488f-aabf-
b8f23c801171",
          "display": "ALMA FAMILY SERVICES"
        }
      ]
    },
    "search": {

```

```

        "mode": "match"
      }
    }
  ]
}

```

3.4 Exception Handling

Errors will be returned as `OperationOutcome` resources as per the FHIR standard. Typical HTTP status codes used by the API are:

- 200 OK: Successful request.
- 400 Bad Request: Invalid request, typically due to incorrect query parameters.
- 404 Not Found: No matching resources found.
- 500 Internal Server Error: Unexpected error occurred on the server.

Example error response:

```

{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "severity": "error",
      "code": "invalid",
      "details": {
        "text": "Invalid query parameter 'unknown'"
      }
    }
  ]
}

```

3.5 Paging and Filtering

Results returned by the Provider Directory API can be paginated. The Bundle resource will contain a link element with next and previous URLs to facilitate paging.

To limit the number of results returned, use the `_count` parameter. For example:

```
GET /Practitioner?_count=10
```

3.6 Rate Limits

The Provider Directory API may implement rate limiting to ensure fair usage and avoid abuse. If a rate limit is exceeded, an HTTP 429 Too Many Requests status will be returned along with the `Retry-After` header indicating when the client can retry the request.