



## **Provider Directory API Description, Scope, and Use**

*Enterprise Development*

Revision 2, October 10, 2023



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**LOG OF REVISIONS**

Rev No.	Rev. Date	Changes Made	Approval Names/Dates	Remarks
IC	May 26, 2023	Initial Creation	L. Andresen, Technical Publications/May 26, 2023	Flagship document.
1	Sept. 5, 2023	-Retemplated to Long Form. -Edited for format, structure. -Updated search parameter tables from FHIR APIDocument_V1.1_KHS.pdf specific to current FAST+ FHIR server implementation. -Added common Search Parameter Table for all API resources. -Removed non-applicable search parameter tables.	L. Andresen, Technical Publications/Sept. 5, 2023	1 <sup>st</sup> markups integrated; new tables.
2	Oct. 10, 2023	Updated 'HTTP Successful and Exception Responses' Table I, d. Page 5.	L. Andresen, Technical Publications/Oct. 10, 2023	Table I, d. information w/table updated.
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### I. Introduction

#### a. Objective/Background

The goal of this document is to provide a comprehensive guide for quick reference regarding the Provider Directory API applicable to Kern Health Systems (KHS). All API responses are formatted in accordance with Fast Healthcare Interoperability Resources (FHIR) standards. FHIR is a HL7 (Health Level Seven International) specification designed to facilitate seamless electronic transfer of healthcare information, thereby simplifying application development.

#### b. Resources

APIs are supported by the PERFORM+ Connect solution per US Core, Carin BB, and the PDEX Implementation Guide. Every resource is exposed as a URL and can be obtained by accessing the API root endpoint. This version of the PERFORM+ Connect FHIR®© APIs supports the current R4 version of the FHIR®© Standard in the REST/JSON format. All sources within this document originate from FHIR API Document\_V1.1\_KHS and CitiusTech PERFORM+ Connect FHIR API document, Version 1.9.

#### c. API Sources

APIs applicable to the Kern Family Health Care Provider Directory are supported by the following sources:

- HL7 FHIR R4: <https://hl7.org/fhir/R4/>
- Da Vinci PDex Implementation Guide: HL7.FHIR.US.DAVINCI-PDEX-PLAN-NET\Home - FHIR v4.0.1
- PERFORM+ Connect FHIR API Document Product Version 22.01.01, Version 1.9
- FHIR API Document\_V1.1\_KHS

Base URL: <https://fastplusapi.khs-net.com:8080/provider/pda/r4/>

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### d. HTTP Successful and Exception Responses

Specific error messages can arise during the Provider Directory API process. The following table indicates the most common error response status codes and their corresponding descriptions:

HTTP Response/Exception Codes	Response/Exception Code Definition	Return Type
200	Successful response	Bundle or Resource
400	Invalid parameter	OperationOutcome/Error
401/4xx	Unauthorized request	OperationOutcome/Error
403	Insufficient scope	OperationOutcome/Error
404	Unknown resource	OperationOutcome/Error
410	Deleted resource	OperationOutcome/Error

### e. Search Parameters

Common search parameters are reflected in the table below, and apply to all resources:

Parameter	Description	Data Type	Response Type
_content	Text search (entire resource).	string	Bundle
_id	Resource identification.	token	Bundle
_lastUpdated	Date last updated; server discretion on boundary decision.	date	Bundle
_profile	Search for resources tagged w/profile.	uri	Bundle
_query	Customized query name.	string	Bundle
_security	Search by security label.	token	Bundle
_source	Uri type: <a href="https://build.fhir.org/search.html">https://build.fhir.org/search.html</a>	uri	Bundle
_tag	Search by resource tag.	token	Bundle
_text	Text search (entire resource).	string	Bundle
_filter	Used in conjunction w/search operations.	special	Bundle

#### Description and Data Type:

<https://www.hl7.org/fhir/R4/search.html#all>

[https://www.hl7.org/fhir/R4/search\\_filter.html](https://www.hl7.org/fhir/R4/search_filter.html)

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

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## II. API Descriptions, Scope, and Use

### a. Capability Statement (*indicated as 'CapabilityStatement'*)

This refers to a set of capabilities (behaviors) of a FHIR Server or Client regarding a particular version of FHIR that may be used as a statement of actual server functionality; it can also be intended as a statement of required or desired server implementation. It is a key component to overall FHIR conformance framework, describing software features or application rules connecting statements of functionality such as *Structure Definitions* and *Value Sets*. Application capability may be used for system compatibility testing, code generation, or as the basis for conformance assessment. For further information regarding conformance testing, see Conformance Rules and Profiling FHIR: <http://hl7.org/fhir/R4/capabilitystatement.html>.

### b. Endpoint (*indicated as 'Endpoint'*)

An *Endpoint* indicates technical details that can apply to electronic services, such as web services providing XDS.b/REST from another FHIR server. This may also include security context information. It describes technical details regarding locations that include connectivity information for delivery and retrieval. Sufficient information is required to ensure 1) a secure connection, and 2) transmittal of appropriate data defined by the endpoint owner of a potentially external system, such as locally hosted services, regional services, or national services. For more information, visit: <https://www.hl7.org/fhir/R4/Endpoint.html>.

*Syntax:* GET [Base URL]/R4/Endpoint?{<parameter>=<value>}

The following table provides **Endpoint** search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
connection-type	Protocol/Profile/Standard to use with endpoint connection.	token	Bundle
identifier	Identifies endpoint across multiple systems.	token	Bundle
mime-type	Selects endpoints supporting specified media types (1.1_KHS).	token <a href="#">HL7.FHIR.US.DIRECTORY-EXCHANGE\Search by mime-type in Endpoints - FHIR v4.0.1</a>	Bundle
organization	Organization which manages the endpoint.	reference	Bundle

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name	Name by which endpoint can be identified.	string	Bundle
payload-type	Content type used at endpoint.	token	Bundle
status	Current endpoint status.	token	Bundle
usecase-standard	Selects endpoints supporting specified standards (1.1_KHS).	token <a href="#">HL7.FHIR.US.DIRECTORY-EXCHANGE\Search by usecase-standard in Endpoints - FHIR v4.0.1</a>	Bundle
usecase-type	Selects endpoints supporting services indicated by specified code (1.1_KHS).	token <a href="#">HL7.FHIR.US.DIRECTORY-QUERY\Search by usecase-type in Endpoints - FHIR v4.0.1</a>	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/Endpoint.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

### c. Health Care Service (*indicated as 'HealthcareService'*)

*HealthcareService* describes details regarding specific modes and levels of health care. This resource describes a single health care service, or category of services, provided by an organization at a specific location (may be virtual, i.e., telemedicine services). For more information, visit:

<https://www.hl7.org/fhir/R4/HealthCareService.html>.

*Syntax:* GET [Base URL]/HealthcareService?{<parameter>=<value>}

The following table provides *HealthcareService* search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
specialty	Specialty provided by health care service.	token	Bundle
service-type	Type of service provided.	token	Bundle
name	Portion of health care service name.	string	Bundle
location	Location of health care service.	reference	Bundle
coverage-area	Location service is intended for/available to.	reference	Bundle
organization	Organization providing health care service.	reference	Bundle
endpoint	Technical endpoints providing access to electronic services operated for health care service.	reference	Bundle
service-category	Service category of health care service.	token	Bundle

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**Search Parameters:** FHIR API Document\_V1.1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/HealthCareService.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

*'HealthcareService' Sample Response:*

```
{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T20:28:45.183-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/HealthcareService?_id= Kern-hcs-123456"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/HealthcareService/Kern-hcs-123456",
      "resource": {
        "resourceType": "HealthcareService",
        "id": "Kern-hcs-123456",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2023-04-14T08:25:40-07:00",
          "profile": [
            "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-HealthcareService"
          ]
        }
      }
    }
  ]
}
```



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```
"extension": [
  {
    "url": "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/delivery-
method",
    "extension": [
      {
        "url": "type",
        "valueCodeableConcept": {
          "coding": [
            {
              "system": "http://hl7.org/fhir/us/davinci-pdex-plan-net/STU1/CodeSystem-
DeliveryMethodCS.html",
              "code": "physical",
              "display": "Physical"
            }
          ]
        }
      }
    ]
  }
],
"active": true,
"providedBy": {
  "reference": "Organization/Kern-org-1234567890"
},
"category": [
  {
    "coding": [
      {
        "system": "https://build.fhir.org/ig/HL7/davinci-pdex-plan-net/ValueSet-
HealthcareServiceCategoryVS.html",
        "code": "prov",
        "display": "Medical Provider"
      }
    ]
  }
]
```

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```
    }
  ],
  "location": [
    {
      "reference": "Location/Kern-loc-123456789"
    }
  ],
  "comment": "IHSS Indicator N, Telehealth Indicator N",
  "extraDetails": "Type of Service FSC",
  "telecom": [
    {
      "system": "phone",
      "value": "0000000000",
      "rank": 1
    }
  ],
  "notAvailable": [
    {
      "description": "NA"
    }
  ]
},
"search": {
  "mode": "match"
}
]
}
```

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### d. Insurance Plan (indicated as 'InsurancePlan')

An *Insurance Plan* provides details of an organization's health insurance product/plan through a discrete package of coverage benefits offered under various network types. The goal is to match specific health insurance benefits within a cost-sharing structure that meets the customer's needs. A given product may be comprised of multiple plans, including a list of covered benefits (*the product*), costs associated with those benefits (*the plan*), and additional information pertaining to the offering, such as owner/administrator, coverage area, contact information, etc. For more information, visit:

<https://www.hl7.org/fhir/R4/InsurancePlan.html>.

*Syntax:* GET [Base URL]/InsurancePlan?{<parameter>=<value>}

The following table provides *InsurancePlan* search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
type	A code indicating organization type.	token	Bundle
name	Portion of health care service name/alias.	string	Bundle
administered-by	Product administrator.	reference	Bundle
owned-by	Organization/sub-organization receiving services.	reference	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/InsurancePlan.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

*'InsurancePlan' Sample Response:*

```
{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T20:54:39.724-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
```

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```
"url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/InsurancePlan?_id=Kern-inspln-123456"
  }
],
"entry": [
  {
    "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/InsurancePlan/Kern-inspln-123456",
    "resource": {
      "resourceType": "InsurancePlan",
      "id": "Kern-inspln-123456",
      "meta": {
        "versionId": "16",
        "lastUpdated": "2023-04-14T08:41:08-07:00",
        "profile": [
          "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-InsurancePlan"
        ]
      },
      "status": "active",
      "type": [
        {
          "coding": [
            {
              "system": "http://hl7.org/fhir/us/davinci-pdex-plan-net/STU1/CodeSystem-InsuranceProductTypeCS.html",
              "code": "commhmo",
              "display": "Commercial HMO"
            }
          ]
        }
      ],
      "name": "Kern Family Health Care",
      "ownedBy": {
        "reference": "Organization/Kern-org-123456"
      }
    },
  },
],
```

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```
"administeredBy": {
  "reference": "Organization/Kern-org-123456"
},
"coverageArea": [
  {
    "reference": "Location/Kern-loc-123456"
  }
],
"contact": [
  {
    "telecom": [
      {
"system": "phone",
        "value": "0000000000",
        "rank": 1
      }
    ]
  }
],
"coverage": [
  {
    "type": {
      "text": "medical"
    },
    "benefit": [
      {
        "type": {
          "text": "inpatient"
        }
      }
    ]
  }
]
},
"search": {
```

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```

    "mode": "match"
  }
}
]
}

```

### e. Location (Indicated as 'Location')

*Location* provides position information regarding a physical place where health care services are provided, and where resources/participants may be stored, found, contained, or accommodated, including *incidental* locations (used for health care without prior designation or authorization) and *dedicated, formally appointed* locations. Locations may be private, public, mobile, or fixed, and may provide minimal items (such as small freezers) to large-scale hospital buildings or parking garages. For more information, visit: <https://www.hl7.org/fhir/R4/Location.html>.

*Syntax:* GET [Base URL]/Location?{[parameter=value]}

The following table provides *Location* search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
name	Portion of location name/alias.	string	Bundle
address	Portion of address/location.	string	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/Location.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

'Location' Sample Response:

```

{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T21:25:28.324-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {

```

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```
    "relation": "self",
    "url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/Location?_id=Kern-loc-
123456789"
  }
],
"entry": [
  {
    "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/Location/Kern-loc-
123456789",
    "resource": {
      "resourceType": "Location",
      "id": "Kern-loc-123456789",
      "meta": {
        "versionId": "5",
        "lastUpdated": "2023-04-19T12:11:04-07:00",
        "profile": [
          "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-Location"
        ]
      },
      "extension": [
        {
          "url": "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/newpatients",
          "extension": [
            {
              "url": "acceptingPatients",
              "valueCodeableConcept": {
                "coding": [
                  {
                    "code": "nopt"
                  }
                ]
              }
            }
          ]
        }
      ]
    }
  },

```

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```
{
  "url": "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/accessibility",
  "valueCodeableConcept": {
    "coding": [
      {
        "system": "https://build.fhir.org/ig/HL7/davinci-pdex-plan-net/ValueSet-
AccessibilityVS.html",
        "code": "handiaccess",
        "display": "handicap accessible"
      }
    ]
  }
},
"identifier": [
  {
    "type": {
      "coding": [
        {
          "code": "PRN"
        }
      ]
    },
    "system": "http://hl7.org/fhir/sid/us-npi",
    "value": "0000000000"
  },
  {
    "type": {
      "coding": [
        {
          "code": "TAX"
        }
      ]
    },
    "system": "urn:oid:2.16.840.1.113883.4.4",
```



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```
"value": "000000000"
},
{
  "type": {
    "text": "OSHDP"
  },
  "system": "http://www.khs.com/identifiers/location",
  "value": "000000000"
},
{
  "type": {
    "text": "FacLocID"
  },
  "system": "http://www.khs.com/identifiers/location",
  "value": "#000000000"
}
],
"status": "active",
"name": "Solace Home Health Care",
"description": "Licensed Bed Count 0, Staffed Bed Count 0, Teaching Indicator N, CBAS
Provider N, Sees CHildren 1R",
"type": [
  {
    "coding": [
      {
        "code": "InsFacType 33"
      }
    ]
  },
  {
    "coding": [
      {
        "code": "Tertiary Indicator N"
      }
    ]
  }
]
```

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```
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "value": "0000000000",
      "rank": 1
    },
    {
      "system": "email",
      "value": "ProviderConnections@khs-net.com",
      "rank": 1
    }
  ],
  "address": {
    "line": [
      "1701 Westwind Drive Ste. 122"
    ],
    "city": "Bakersfield",
    "district": "Kern",
    "state": "CA",
    "postalCode": "93301"
  },
  "managingOrganization": {
    "reference": "Organization/Kern-org-0000000000"
  },
  "hoursOfOperation": [
    {
      "daysOfWeek": [
        "mon"
      ],
      "openingTime": "09:00:00",
      "closingTime": "17:30:00"
    },
    {
```

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```
"daysOfWeek": [
  "tue"
],
"openingTime": "09:00:00",
"closingTime": "17:30:00"
},
{
  "daysOfWeek": [
    "wed"
  ],
  "openingTime": "09:00:00",
  "closingTime": "17:30:00"
},
{
  "daysOfWeek": [
    "thu"
  ],
  "openingTime": "09:00:00",
  "closingTime": "17:30:00"
},
{
  "daysOfWeek": [
    "fri"
  ],
  "openingTime": "09:00:00",
  "closingTime": "17:30:00"
}
]
},
"search": {
  "mode": "match"
}
}
]
```

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### f. Organization (indicated as 'Organization')

Within this context, *Organization* refers to a formally or informally recognized group of people or organizations formed to achieve a collective action. An *Organization* may include companies, institutions, corporations, departments, community groups, health care practice groups, payers/insurers, etc. It may be used as a shared registry of contact for various organizations, or to support other resources required for referencing organizations via documents, messages, etc. Multiple registries may exist dealing with distinct types/levels of organization. For more information, visit: <https://www.hl7.org/fhir/R4/Organization.html>.

*Syntax:* GET [Base URL]/Organization?{<parameter>=<value>}

The following table provides **Organization** search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
name	Portion of organization's name/alias.	string	Bundle
address	A server-defined search, potentially matching string fields within the address, including line, city, district, state, country, postalCode, and/or text.	string	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/Organization.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

'Organization' Sample Response:

```
{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T21:32:47.573-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/Organization?_id=Kern-org-0000000000"
    }
  ]
}
```

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```
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/Organization/Kern-org-0000000000",
      "resource": {
        "resourceType": "Organization",
        "id": "Kern-org-0000000000",
        "meta": {
          "versionId": "18",
          "lastUpdated": "2023-04-19T12:11:03-07:00",
          "profile": [
            "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-Organization"
          ]
        },
        "identifier": [
          {
            "type": {
              "coding": [
                {
                  "code": "NPI"
                }
              ]
            },
            "system": "http://hl7.org/fhir/sid/us-npi",
            "value": "0000000000"
          },
          {
            "type": {
              "coding": [
                {
                  "code": "TAX"
                }
              ]
            }
          }
        ]
      }
    }
  ]
}
```

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```
    },
    "system": "urn:oid:2.16.840.1.113883.4.4",
    "value": "000000000"
  }
],
"active": true,
"type": [
  {
    "coding": [
      {
        "system": "https://build.fhir.org/ig/HL7/davinci-pdex-plan-net/ValueSet-
OrgTypeVS.html",
        "code": "prvgrp",
        "display": "Provider Group"
      }
    ]
  }
],
"name": "David Horovitz, MD Inc.",
"telecom": [
  {
    "system": "phone",
    "value": "000000000",
    "rank": 1
  }
],
"search": {
  "mode": "match"
}
]
```

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### g. Organization Affiliation (identified as 'OrganizationAffiliation')

This term defines an affiliation, association, or relationship between two distinct organizations (not a 'part-of' or 'sub-division' relationship) and specifies a long-standing relationship existing between two separate business entities and may include shared communication regarding location/service details. For more information, visit: <https://www.hl7.org/fhir/R4/OrganizationAffiliation.html>.

*Syntax:* GET [Base URL]/OrganizationAffiliation?{<parameter>=<value>}

The following table provides [OrganizationAffiliation](#) search parameters w/corresponding descriptions:

Parameter	Description	Data Type	Response Type
specialty	Organization's specialty in context to applicable role.	token	Bundle
role	Definition of role performed.	string	Bundle
primary-organization	Organization receiving services from the participating organization.	reference	Bundle
participating-organization	Organization/sub-organization receiving services.	reference	Bundle
location	Location(s) at which role occurs.	reference	Bundle
service	Health care services provided.	reference	Bundle
endpoint	Technical endpoints providing access to services.	reference	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/OrganizationAffiliation.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

'OrganizationAffiliation' Sample Response:

```
{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T21:36:38.056-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
```

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```
    "relation": "self",
    "url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/OrganizationAffiliation?_id=Kern-
orgafl-0000000000"
  }
],
"entry": [
  {
    "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/OrganizationAffiliation/Kern-
orgafl-0000000000",
    "resource": {
      "resourceType": "OrganizationAffiliation",
      "id": "Kern-orgafl-0000000000",
      "meta": {
        "versionId": "19",
        "lastUpdated": "2023-04-19T12:11:03-07:00",
        "profile": [
          "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-
OrganizationAffiliation"
        ]
      },
      "identifier": [
        {
          "type": {
            "coding": [
              {
                "code": "TAX"
              }
            ]
          },
          "system": "urn:oid:2.16.840.1.113883.4.4",
          "value": "000000000"
        }
      ],
      "active": true,
      "organization": {
```



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```
    "reference": "Organization/Kern-org-0000000000"
  },
  "telecom": [
    {
      "system": "phone",
      "value": "0000000000"
    },
    {
      "system": "phone",
      "value": "0000000000"
    }
  ]
},
"search": {
  "mode": "match"
}
]
}
```

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### h. Practitioner (Identified as ‘Practitioner’)

A *Practitioner* is a person directly or indirectly involved in health care provisioning, covering all individuals engaged in the healthcare process and healthcare-related services as part of their formal responsibilities. For more information, visit: <https://www.hl7.org/fhir/R4/Practitioner.html>.

*Syntax:* GET [Base URL]/Practitioner?{<parameter>=<value>}

The following table provides *Practitioner* search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
name	A server-defined search, potentially matching string fields within the HumanName, including family, given, prefix, suffix, and/or text.	string	Bundle
identifier	Practitioner’s identifier.	token	Bundle
family	Portion of family name.	string	Bundle
given	Portion of given name.	string	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/Practitioner.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

### i. Practitioner Role (Identified as ‘PractitionerRole’)

This term refers to a specific set of roles, locations, specialties, and services that a practitioner may perform at an organization, including a record of location/services practitioners provide for an organization. For more information, visit: <https://www.hl7.org/fhir/R4/PractitionerRole.html>.

*Syntax:* GET [Base URL]/PractitionerRole?{<parameter>=<value>}

The following table provides *PractitionerRole* search parameters with corresponding descriptions:

Parameter	Description	Data Type	Response Type
specialty	Practitioner’s specialty.	token	Bundle
practitioner	Practitioner providing defined services.	reference	Bundle
endpoint	Technical endpoints providing access to services for practitioner.	reference	Bundle

**Search Parameters:** FHIR API Document\_V1.1\_KHS

**Description and Data Type:** <https://www.hl7.org/fhir/R4/PractitionerRole.html>

**Response Type:** <https://build.fhir.org/search.html#returnbundletype> (3.2.1.3)

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### 'Practitioner Role' Sample Response:

```
https://fastplusapi.khs-net.com:8080/provider/pda/r4/PractitionerRole?_id=Kern-practrole-0000000000-0000000000-0000000000
{
  "resourceType": "Bundle",
  "id": "123456",
  "meta": {
    "lastUpdated": "2023-05-21T21:44:27.809-07:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/PractitionerRole?_id=Kern-practrole-0000000000-0000000000-0000000000"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fastplusapi.khs-net.com:8080/provider/pda/r4/PractitionerRole/Kern-practrole-0000000000-0000000000-0000000000",
      "resource": {
        "resourceType": "PractitionerRole",
        "id": "Kern-practrole-0000000000-0000000000-0000000000",
        "meta": {
          "versionId": "14",
          "lastUpdated": "2022-05-19T11:18:00-07:00",
          "profile": [
            "http://hl7.org/fhir/us/davinci-pdex-plan-net/StructureDefinition/plannet-PractitionerRole"
          ]
        },
        "active": true,
        "practitioner": {
```

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```
"reference": "Practitioner/Kern-pract-0000000000"  
},  
"organization": {  
  "reference": "Organization/Kern-org-0000000000"  
},  
"specialty": [  
  {  
    "coding": [  
      {  
        "code": "103T00000X"  
      }  
    ]  
  },  
  {  
    "coding": [  
      {  
        "code": "1041C0700X"  
      }  
    ]  
  },  
  {  
    "coding": [  
      {  
        "code": "111N00000X"  
      }  
    ]  
  }  
],  
"location": [  
  {  
    "reference": "Location/Kern-loc-0000000000"  
  }  
],  
"healthcareService": [  
  {
```

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```
        "reference": "HealthcareService/Kern-hcs-N-N-0000000000-0000000000"
      }
    ],
    "telecom": [
      {
        "system": "phone",
        "value": "0000000000",
        "rank": 1
      }
    ]
  },
  "search": {
    "mode": "match"
  }
}
]
```