

# FHIR API

## Authentication:

### **Sample request to get jwt token for user of an organization:**

```
curl --request GET 'https://ihe-calmhsa.ehn-  
prod.net/SpiritHSB/REST/forward_sts/IUA/oauth2/token' \  
--header 'PROVIDER: keycloak' \  
--header 'Content-Type: application/x-www-form-urlencoded' \  
--data-urlencode 'username={{LOGIN_USERNAME}}' \  
--data-urlencode 'password={{PASSWORD}}' \  
--data-urlencode 'grant_type=password' \  
--data-urlencode 'subject=Name' \  
--data-urlencode 'role=Administrator' \  
--data-urlencode 'organization=organization_name' \  
--data-urlencode 'organizationId=urn:organization'
```

Parameter	Data Type	Description
username	String	Username of client.
password	String	Password of client.
grant_type	String	Grant type set to "password".
subject	String	Name of subject receiving token.
role	String	Role set to "Administrator".
organization	String	Organization name.
organizationId	String	Organization ID.

### **Sample request to get jwt token for patient access:**

```
curl --request GET 'https://ihe-calmhsa.ehn-  
prod.net/SpiritHSB/REST/forward\_sts/IUA/oauth2/Patient/token' \  
--header 'PROVIDER: keycloak'
```

**Sample token response decoded:**

```
{
  "aud": "http://ihe.connectathon.IUA/ResourceProvider-IHE-Connectathon",
  "sub": "6cc272ba-4dd9-4a98-a270-b042e92cceb9",
  "extensions": {
    "ihe_iua": {
      "home_community_id": "urn:oid:2.16.840.1.113883.2.1.3.31.2.1.1.1.1.12",
      "subject_organization_id": "testOrgId",
      "subject_role": {
        "system": "1.2.3.4.5.7",
        "code": "patient",
        "display": "ROLE"
      },
      "purpose_of_use": {
        "system": "1.2.3.4.5.6",
        "code": "TREATMENT",
        "display": "TREATMENT"
      },
      "subject_name": "usertest",
      "subject_organization": "testOrg"
    }
  },
  "nbf": 1707472463,
  "scope": "ITI-66 ITI-67 ITI-68 ITI-78 ITI-83 PCC-44",
  "iss": "urn:mint:sts",
  "exp": 1707473063,
  "jti": "34bda15e-cbc8-4ab3-ac5e-36a169af6467"
}
```

**Authorization:**

The authorization varies depending on the type of token attached to the user's requests. Patient access differs from other users' access, each granting distinct levels of permissions.

**Patient Access API:**

**Base URL**

[https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward\\_qedm/r4/](https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward_qedm/r4/)

**Resources**

Resource	Read	Search	create/update
AllergyIntolerance	Y	Y	N
Binary	Y	Y	N
CarePlan	Y	Y	N
CareTeam	Y	Y	N
Condition	Y	Y	N
Coverage	Y	Y	N
Device	Y	Y	N
DiagnosticReport	Y	Y	N
DocumentReference	Y	Y	N
Encounter	Y	Y	N
ExplanationOfBenefit	Y	Y	N
Goal	Y	Y	N
Group	Y	Y	N
Immunization	Y	Y	N
Location	Y	Y	N
MedicationRequest	Y	Y	N
Observation	Y	Y	N
Organization	Y	Y	N
Patient	Y	Y	N
Practitioner	Y	Y	N
Procedure	Y	Y	N
Provenance	Y	Y	N

**Common Parameters**

Parameter	Type	Description
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_format	String	Format of response
_include	String	Adds resources and resource versions referenced by the primary results
_reinclude	String	Adds resources that reference the primary result

### ***Supported Headers***

Parameter	Direction	Description
Authorization	Request	Bearer token used to authorize the request
Content-Type	Request	Preferred format of response payload. Default: application/fhir+json;charset=UTF-8

### **Practitioner Access API:**

#### ***Base URL***

[https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward\\_gedm/r4/](https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward_gedm/r4/)

### **Provider Directory Access API:**

#### ***Base URL***

[https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward\\_cdr/](https://ihe-calmhsa.ehn-prod.net/SpiritHSB/REST/forward_cdr/)

#### ***Resources***

Resource	Read	Search	create/update
Practitioner	Y	Y	N
Practitioner Role	Y	Y	N
Healthcare Service	Y	Y	N
Location	Y	Y	N

### ***Common Parameters***

<b>Parameter</b>	<b>Type</b>	<b>Description</b>
_format	String	Format of response
_include	String	Adds resources and resource versions referenced by the primary results
_revinclude	String	Adds resources that reference the primary result

### ***Supported Headers***

<b>Parameter</b>	<b>Direction</b>	<b>Description</b>
Authorization	Request	Bearer token used to authorize the request
Content-Type	Request	Preferred format of response payload. Default: application/fhir+json;charset=UTF-8