

HelixTrack Core REST API documentation

The following sections list all the HelixTrack API calls specifications.

Table of contents

- [Authentication API](#)
 - [Authenticate the user](#)
 - [The JWT payload](#)
 - [Sign out the user from the system](#)
 - [Obtain the version of the authentication API service](#)
- [Core API](#)
 - [JWT capability check](#)
 - [Database capability check](#)
 - [System health](#)
 - [Obtain the version of the HelixTrack Core API service](#)
 - [Perform the entity CRUD operations](#)
- [API response error codes](#)
 - [Request related error codes](#)
 - [System related error codes](#)
 - [Entity related error codes](#)
- [HashiCorp Vault API](#)

Authentication API

Authenticate the user

- endpoint: `/do`
- method: `POST`
- payload:

```
{
  "action":      "authenticate"    /* mandatory */
  "username":    "string",         /* mandatory */
  "password":    "string",         /* mandatory */
  "locale":      "string"          /* optional  */
}
```

- response:

```
{
  "jwt":          "string",
  "errorCode":    -1,
  "errorMessage": "string",
}
```

```
"errorMessageLocalised": "string"
}
```

The JWT payload

```
{
  "sub": "authentication",
  "name": "string",
  "username": "string",
  "role": "string",
  "permissions": "string",
  "htCoreAddress": "string"
}
```

Sign out the user from the system

- endpoint: /do
- method: POST
- payload:

```
{
  "action": "signOut" /* mandatory */
  "jwt": "string" /* mandatory */
  "locale": "string" /* optional */
}
```

- response:

```
{
  "errorCode": -1,
  "errorMessage": "string",
  "errorMessageLocalised": "string"
}
```

Obtain the version of the authentication API service

- endpoint: /do
- method: POST
- payload:

```
{
  "action": "version" /* mandatory */
  "jwt": "string" /* mandatory */
}
```

```
"locale":      "string"      /* optional */  
}
```

- response:

```
{  
  "version":      "string",  
  "versionCode":  "string",  
  "errorCode":    -1,  
  "errorMessage": "string",  
  "errorMessageLocalised": "string"  
}
```

Core API

JWT capability check

- endpoint: `/do`
- method: `POST`
- payload:

```
{  
  "action":      "jwtCapable" /* mandatory */  
  "locale":      "string"    /* optional */  
}
```

- response:

```
{  
  "capable":      "boolean",  
  "errorCode":    -1,  
  "errorMessage": "string",  
  "errorMessageLocalised": "string"  
}
```

Database capability check

- endpoint: `/do`
- method: `POST`
- payload:

```
{  
  "action":      "dbCapable" /* mandatory */  
}
```

```
"locale":      "string"      /* optional */  
}
```

- response:

```
{  
  "capable":      "boolean",  
  "errorCode":    -1,  
  "errorMessage": "string",  
  "errorMessageLocalised": "string"  
}
```

System health

- endpoint: `/do`
- method: `POST`
- payload:

```
{  
  "action":      "health"      /* mandatory */  
  "locale":      "string"      /* optional */  
}
```

- response:

```
{  
  "report":      "string",  
  "errorCode":   -1,  
  "errorMessage": "string",  
  "errorMessageLocalised": "string"  
}
```

Obtain the version of the HelixTrack Core API service

- endpoint: `/do`
- method: `POST`
- payload:

```
{  
  "action":      "version"      /* mandatory */  
  "jwt":         "string"      /* mandatory */  
  "locale":      "string"      /* optional */  
}
```

- response:

```
{
  "version":          "string",
  "versionCode":      "string",
  "errorCode":        -1,
  "errorMessage":     "string",
  "errorMessageLocalised": "string"
}
```

Perform the entity CRUD operations

- endpoint: `/do`
- method: `POST`
- payload:

```
{
  "action":          "string"      /* mandatory */
  "jwt":             "string"      /* mandatory */
  "locale":          "string"      /* optional  */
  "object":          "string"      /* mandatory */
}
```

- response:

```
{
  "id":              "string",
  "errorCode":        -1,
  "errorMessage":     "string",
  "errorMessageLocalised": "string"
}
```

Supported `action`(s) are:

- `create`
- `modify`
- `remove`.

The `object` payload can be:

- JSON serialized value of the object if `action` is `create` or `modify`
- The UUID identifier of the object if it is the `remove action`.

Response will contain the UUID identifier of the object with no error code (-1) if operation is successful.

API response error codes

The following list contains all supported error codes:

- -1: No error
- 100X: Request related error codes
- 200X: System related error codes
- 300X: Entity related error codes

Note: More error codes will be documented soon.

Request related error codes

Tbd.

System related error codes

Tbd.

Entity related error codes

Tbd.

HashiCorp Vault API

[HashiCorp Vault](#) API documentation can be found [here](#).

Note: Vault is used by the API services.