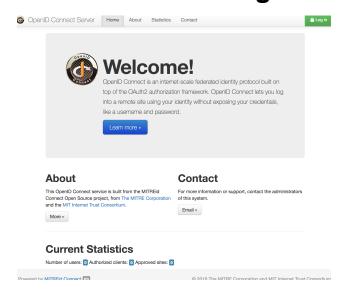
# **HEART Testing**



### What's this about?

From http://openid.net/wg/heart/,

The HEART Working Group intends to harmonize and develop a set of privacy and security specifications that enable an individual to control the authorization of access to RESTful health-related data sharing APIs, and to facilitate the development of interoperable implementations of these specifications by others.

## Reference implementation

According to https://bitbucket.org/openid/heart/wiki/Home,

MITREid Connect is an open source reference implementation of OpenID Connect and OAuth 2.0 from the MITRE Corporation and MIT Internet Trust Consortium (ITC).

While MITREID Connect does not specifically mention HEART, we assume it's appearance under the "reference implementation" section of the HEART Working Group Wiki implies it is fully HEART compliant.

## **Endpoints**

According to https://github.com/mitreid-connect/OpenID-Connect-Java-Spring-Server/wiki/Server-configur ation#endpoints, a HEART-compliant server should offer the following endpoints:

· Authorization endpoint: /authorize

Token endpoint: /token

• Token introspection: /introspect

• Token revocation: /revoke

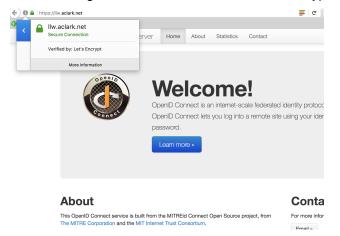
JSON Web Key Set (public key): /jwk

• User info: /userinfo

• Provider configuration: /.well-known/openid-configuration

## SSL

As SSL is a requirement, we have configured a free certificate from Let's Encrypt



# **Testing**

Here we confirm our MITREid-Connect server offers the specified endpoints.

## Authorization endpoint: /authorize

**TODO** 

Token endpoint: /token

#### Warning

This request made anonymously.

## **Token introspection: /introspect**

#### Warning

This request made anonymously.

### Token revocation: /revoke

### Warning

This request made anonymously.

### JSON Web Key Set (public key): /jwk

### User info: /userinfo

#### Warning

This request made anonymously.

### Provider configuration: /.well-known/openid-configuration

```
$ curl https://llw.aclark.net/.well-known/openid-configuration | jq
  % Total
          % Received % Xferd Average Speed
                                                  Time
                                                          Time
                                                                   Time Current
                                 Dload Upload
                                                  Total
                                                          Spent
                                                                   Left Speed
100 2829 100 2829 0
                                  2540
                                        0 0:00:01 0:00:01 --:-- 2541
{
  "request_parameter_supported": true,
  "claims_parameter_supported": false,
  "introspection_endpoint": "https://llw.aclark.net/introspect",
  "scopes_supported": [
    "openid",
    "profile",
    "email",
    "address",
    "phone",
    "offline_access"
  ],
  "issuer": "https://llw.aclark.net/",
  "userinfo_encryption_enc_values_supported": [
    "A256CBC+HS512",
    "A256GCM",
    "A192GCM",
    "A128GCM",
    "A128CBC-HS256",
    "A192CBC-HS384",
    "A256CBC-HS512",
    "A128CBC+HS256"
  "id_token_encryption_enc_values_supported": [
    "A256CBC+HS512",
    "A256GCM",
    "A192GCM",
    "A128GCM",
    "A128CBC-HS256",
    "A192CBC-HS384",
    "A256CBC-HS512",
    "A128CBC+HS256"
  ],
  "authorization_endpoint": "https://llw.aclark.net/authorize",
  "service_documentation": "https://llw.aclark.net/about",
  "request_object_encryption_enc_values_supported": [
    "A256CBC+HS512",
    "A256GCM",
    "A192GCM",
    "A128GCM",
    "A128CBC-HS256",
    "A192CBC-HS384",
    "A256CBC-HS512",
    "A128CBC+HS256"
  ],
  "userinfo_signing_alg_values_supported": [
    "HS256",
    "HS384",
    "HS512",
    "RS256",
```

```
"RS384",
  "RS512",
  "ES256",
  "ES384",
  "ES512",
  "PS256",
  "PS384",
  "PS512"
],
"claims_supported": [
  "sub",
  "name",
  "preferred_username",
  "given_name",
  "family_name",
  "middle_name",
  "nickname",
  "profile",
  "picture",
  "website",
  "gender",
  "zoneinfo",
  "locale",
  "updated_at",
  "birthdate",
  "email",
  "email_verified",
  "phone_number",
  "phone_number_verified",
  "address"
],
"claim_types_supported": [
  "normal"
"op_policy_uri": "https://llw.aclark.net/about",
"token endpoint auth methods supported": [
  "client_secret_post",
  "client_secret_basic",
  "client_secret_jwt",
 "private_key_jwt",
 "none"
"token_endpoint": "https://llw.aclark.net/token",
"response_types_supported": [
 "code",
 "token"
"request_uri_parameter_supported": false,
"userinfo_encryption_alg_values_supported": [
  "RSA-OAEP",
  "RSA-OAEP-256",
  "RSA1_5"
"grant_types_supported": [
  "authorization_code",
  "implicit",
```

```
"urn:ietf:params:oauth:grant-type:jwt-bearer",
  "client_credentials",
  "urn:ietf:params:oauth:grant_type:redelegate"
],
"revocation_endpoint": "https://llw.aclark.net/revoke",
"userinfo_endpoint": "https://llw.aclark.net/userinfo",
"token_endpoint_auth_signing_alg_values_supported": [
  "HS256",
  "HS384",
  "HS512",
  "RS256",
  "RS384",
  "RS512",
  "ES256",
  "ES384",
  "ES512",
  "PS256",
  "PS384",
  "PS512"
],
"op_tos_uri": "https://llw.aclark.net/about",
"require_request_uri_registration": false,
"code_challenge_methods_supported": [
  "plain",
  "S256"
],
"id_token_encryption_alg_values_supported": [
  "RSA-OAEP",
  "RSA-OAEP-256",
  "RSA1 5"
],
"jwks_uri": "https://llw.aclark.net/jwk",
"subject_types_supported": [
  "public",
  "pairwise"
"id_token_signing_alg_values_supported": [
  "HS256",
  "HS384",
  "HS512",
  "RS256",
  "RS384",
  "RS512",
  "ES256",
  "ES384",
  "ES512",
  "PS256",
  "PS384",
  "PS512",
  "none"
"registration_endpoint": "https://llw.aclark.net/register",
"request_object_signing_alg_values_supported": [
  "HS256",
  "HS384",
  "HS512",
```

```
"RS256",
    "RS384",
    "RS512",
    "ES256",
    "ES384",
    "ES512",
    "PS256",
    "PS384",
    "PS512"
  ],
  "request_object_encryption_alg_values_supported": [
    "RSA-OAEP",
    "RSA-OAEP-256",
    "RSA1_5"
 ]
}
```