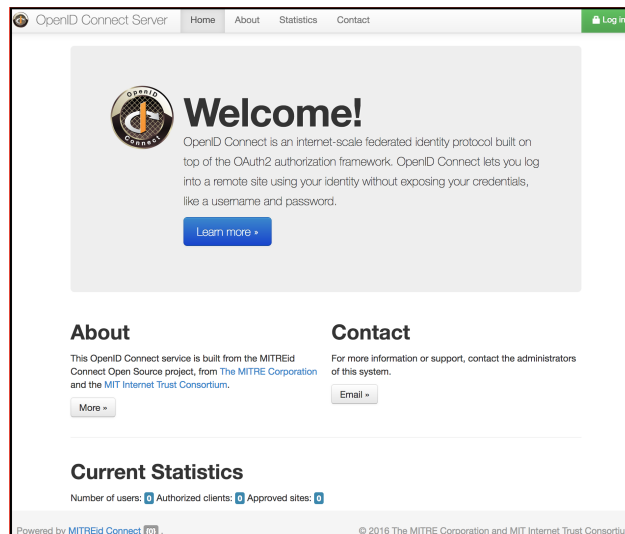


HEART Testing



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 its appearance under the "reference implementation" section of the HEART Working Group Wiki implies it supports full HEART compliance.

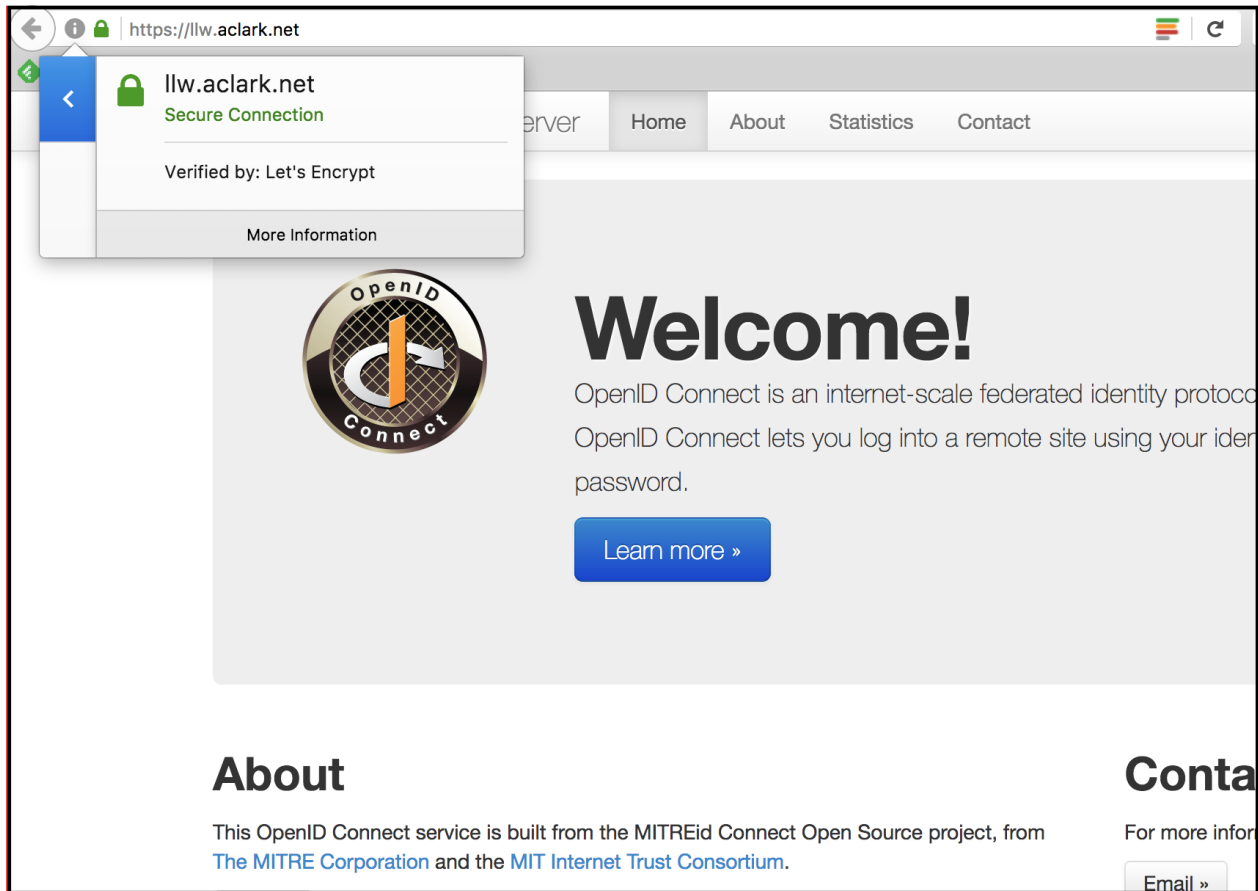
Endpoints

According to <https://github.com/mitreid-connect/OpenID-Connect-Java-Spring-Server/wiki/Server-configuration#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:

```
$ 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     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"
]
}
```