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TraitWare / **customer-api**

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TraitWare OAuth 2.0

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Updated: 09/13/2013

OAuth 2.0 Spec

<http://tools.ietf.org/html/rfc6749>

Base Path

<https://customer-api.traitware.com/oauth>

TraitWare Endpoints

Authorization Endpoint

Request: GET /authorization

QueryString Params:

```
?client_id=CLIENT_ID # from the TCC for this application
&response_type=code
&state=CSRF_VALUE # generated by Client and compared at redirection endpoint
```

Successful Response: HTTP Status 200

Unsuccessful Response: HTTP Status 4xx or 5xx

Description: Endpoint that "Login with TraitWare" button links to.
Specific error information will be reported to the Redirection Endpoint.

Token Endpoint

Content Types supported: application/json, application/x-www-form-urlencoded

[Content-Type: application/json]

Request: POST /token

```
{
  "client_id": { type: String, required: true }, # from the TCC for this application
  "client_secret": { type: String, required: true }, # from the TCC for this application
  "code": { type: String, required: true }, # AUTHORIZATION_CODE
  "grant_type": "authorization_code"
}
```

[Content-Type: application/x-www-form-urlencoded]

Request: POST /token

QueryString Params:

```
?client_id=CLIENT_ID          # from the TCC for this application
&client_secret=CLIENT_SECRET  # from the TCC for this application
&code=AUTHORIZATION_CODE
&grant_type=authorization_code
}
```

Successful Response: (Content-Type: application/json)

```
{
  "access_token": { type: String, required: true },
  "timeout": { type: Integer, required: true },
  "state": { type: String, required: true }
}
```

HTTP Status 200

Unsuccessful Response: (Content-Type: application/json)

```
{
  "error": { type: String, required: true, enum: ERROR_TYPE },
  "state": { type: String, required: true }
}
```

HTTP Status 4xx/5xx

ERROR_TYPE:

invalid_request

The request is missing a required parameter, includes an unsupported parameter value (other than grant type), repeats a parameter, includes multiple credentials, utilizes more than one mechanism for authenticating the client, or is otherwise malformed.

invalid_client

Client authentication failed (e.g., unknown client, no client authentication included, or unsupported authentication method). The authorization server MAY return an HTTP 401 (Unauthorized) status code to indicate which HTTP authentication schemes are supported. If the client attempted to authenticate via the "Authorization" request header field, the authorization server MUST respond with an HTTP 401 (Unauthorized) status code and include the "WWW-Authenticate" response header field matching the authentication scheme used by the client.

invalid_grant

The provided authorization grant (e.g., authorization code, resource owner credentials) or refresh token is invalid, expired, revoked, does not match the redirection URI used in the authorization request, or was issued to another client.

unauthorized_client

The authenticated client is not authorized to use this authorization grant type.

unsupported_grant_type

The authorization grant type is not supported by the authorization server.

Description: Endpoint that the customer web server calls after receiving the authorization_code via the Redirection Endpoint call. This is a call to TraitWare's server to exchange the authorization_code for an access_token via a secure channel, server-to-server,

```
using the client_secret.
```

Client Endpoint

Redirection Endpoint

```
Request: GET /{defined_by_client_in_TCC}
```

Authentication Success:

QueryString Params:

```
?code=AUTHORIZATION_CODE
&state=CSRF_VALUE
```

Authentication Failure:

QueryString Params:

```
?error=ERROR_TYPE
&state=CSRF_VALUE
```

ERROR_TYPE

invalid_request

The request is missing a required parameter, includes an invalid parameter value, includes a parameter more than once, or is otherwise malformed.

unauthorized_client

The client is not authorized to request an authorization code using this method.

access_denied

The resource owner or authorization server denied the request.

unsupported_response_type

The authorization server does not support obtaining an authorization code using this method.

invalid_scope

The requested scope is invalid, unknown, or malformed.

server_error

The authorization server encountered an unexpected condition that prevented it from fulfilling the request. (This error code is needed because a 500 Internal Server Error HTTP status code cannot be returned to the client via an HTTP redirect.)

temporarily_unavailable

The authorization server is currently unable to handle the request due to a temporary overloading or maintenance of the server. (This error code is needed because a 503 Service Unavailable HTTP status code cannot be returned to the client via an HTTP redirect.)

Client Browser

Login Page Snippets

For the client site login, the following needs to be added to the HTML in the login page where the "Login with TraitWare" button will appear:

```
<div id="TraitWareLoginButton"></div>
```

This javascript needs to be added to the bottom of that page:

```
<script type="text/javascript">
TW = Object();
TW.clientId = "CLIENT_ID";
TW.state = "STATE";
</script>
<script src="https://customer-api.traitware.com/twlogin.js"></script>
```

Be sure to substitute CLIENT_ID and STATE with your own values during page render. CLIENT_ID is your application's CLIENT_ID available in the TraitWare Customer Console. The STATE value is generated by your web server as a Cross Site Request Forgery protection and should be compared in your Redirection Endpoint to ensure the request was originated by your server.

Last edited by toddhickerson, just now

