# Entity Client

Client linked to an entity for client credentials and JWT grant authentication methods. An entity can have several clients registered.

## Relevant links

* [API Documentation](../api/v0/index.html#/operations/list_entity_client)
* [Download docx](../download/entity_client.docx)

## Fields

| Name | Description | Format | Reference |
| --- | --- | --- | --- |
| id | Unique surrogate identifier. | bigintRead only |  |
| entity\_id | Reference to the entity that this client is attached to. | bigintRequiredNon-updatable | [entity.id](entity.md#field-id) |
| name | Name of the client. | textMax length: 256 |  |
| client\_id | The identifier of the entity. For use with client credentials authentication method. | textRequired |  |
| party\_id | Reference to the party this client allows to assume. A null value means the client cannot assume any party. | bigintRequired | [party.id](party.md#field-id) |
| scopes | List of scopes granted to the user when it logs in as an entity or when it acts as the party. When assuming a party through party membership, the least privileged set of scopes will be kept.Scopes are inspired from OAuth 2.0 and allow refinement of access control and privilege delegation mechanisms. | RequiredArray |  |
| client\_secret | The secret of the entity. For use with client credentials authentication method. Input as plain text but stored encrypted. | textMin length: 12 |  |
| public\_key | The public key of the entity (X.509 SubjectPublicKeyInfo). For use with JWT grant authentication method. | textPattern: ^-----BEGIN PUBLIC KEY-----\nMIIB[-A-Za-z0-9+/\n]\*={0,3}\n-----END PUBLIC KEY-----$ |  |
| recorded\_at | When the resource was recorded (created or updated) in the system. | timestamp with time zoneRead only |  |
| recorded\_by | The identity that recorded the resource. | bigintRead only |  |

## Validation Rules

| Validation rule key | Validation rule | Status |
| --- | --- | --- |
| ECL-VAL001 | Entity clients can only target a party the entity can assume. | DONE |

## Notifications

No notifications.

## Authorization

### Resource Level Authorization

Below is the [RLA](../technical/auth.md#resource-level-authorization-rla) for the resource. The default policy is **deny**.

#### Anonymous

No policies.

#### Entity

| Policy key | Policy | Status |
| --- | --- | --- |
| ECL-ENT001 | Read, create, update and delete their own clients. | DONE |

#### Common

No policies.

#### Balance Responsible Party

No policies.

#### End User

No policies.

#### Energy Supplier

No policies.

#### Flexibility Information System Operator

| Policy key | Policy | Status |
| --- | --- | --- |
| ECL-FISO001 | Read all clients. | DONE |

#### Market Operator

No policies.

#### Organisation

| Policy key | Policy | Status |
| --- | --- | --- |
| ECL-ORG001 | Read clients on the entity owning the organisation party. | DONE |
| ECL-ORG002 | Create, update and delete clients on the entity owning the organisation party, when the user is a human. | DONE |

#### System Operator

No policies.

#### Service Provider

No policies.

#### Third Party

No policies.

### Field Level Authorization

For party type abbreviations, check [the auth docs](../technical/auth.md#party-market-actors)

| FIELD | ANON | BRP | ES | EU | FISO | MO | SO | SP | TP | ORG |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| id |  | R | R | R | R | R | R | R | R | R |
| entity\_id |  | R | R | R | R | R | R | R | R | RC |
| name |  | R | R | R | R | R | R | R | R | RCU |
| client\_id |  | R | R | R | R | R | R | R | R | R |
| party\_id |  | R | R | R | R | R | R | R | R | RCU |
| scopes |  | R | R | R | R | R | R | R | R | RCU |
| client\_secret |  | R | R | R | R | R | R | R | R | RCU |
| public\_key |  | R | R | R | R | R | R | R | R | RCU |
| recorded\_at |  | R | R | R | R | R | R | R | R | R |
| recorded\_by |  | R | R | R | R | R | R | R | R | R |