# Service Providing Group Membership

The relation that links a controllable unit to a service providing group. A service providing group can contain several controllable units, and a controllable unit can belong to several groups at the same time.

## Relevant links

* [API Documentation](https://flex-test.elhub.no/api/v0/#/operations/list_service_providing_group_membership)
* [Download docx](../download/service_providing_group_membership.docx)

## Fields

| Name | Description | Format | Reference |
| --- | --- | --- | --- |
| id | Unique surrogate key. | bigintRead only |  |
| controllable\_unit\_id | Reference to the controllable unit this relation links to a service providing group. | bigintRequiredNon-updatable | [controllable\_unit.id](controllable_unit.md#field-id) |
| service\_providing\_group\_id | Reference to the service providing group this relation links to a controllable unit. | bigintRequiredNon-updatable | [service\_providing\_group.id](service_providing_group.md#field-id) |
| valid\_from | The date from which the relation between the controllable unit and the service providing group is valid. Midnight aligned on Norwegian timezone. | timestamp with time zoneRequired |  |
| valid\_to | The date until which the relation between the controllable unit and the service providing group is valid. Midnight aligned on Norwegian timezone. | timestamp with time zone |  |
| 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

No validation rules.

## Notifications

| Action | Recipient | Comment |
| --- | --- | --- |
| create, update, delete | SP of SPG, Impacted SO on SPGGP |  |

## 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.

#### Common

| Policy key | Policy | Status |
| --- | --- | --- |
| SPGM-COM001 | Read history on SPGM that they can read. | DONE |

#### Balance Responsible Party

No policies.

#### End User

No policies.

#### Energy Supplier

No policies.

#### Flexibility Information System Operator

| Policy key | Policy | Status |
| --- | --- | --- |
| SPGM-FISO001 | Read, create, update and delete all SPG membership relations. | DONE |

#### Market Operator

No policies.

#### System Operator

| Policy key | Policy | Status |
| --- | --- | --- |
| SPGM-SO001 | Read SPGM belonging to SPGs they can read. | DONE |

#### Service Provider

| Policy key | Policy | Status |
| --- | --- | --- |
| SPGM-SP001 | Create and update SPGM for SPGS that belongs to them, on periods where they are SP for the CU. | DONE |
| SPGM-SP002 | Read, delete SPGM for SPGS that belongs to them. | DONE |

#### Third Party

No policies.

### Field Level Authorization

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

| FIELD | ANON | BRP | ES | EU | FISO | MO | SO | SP | TP |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| id |  | R | R | R | R | R | R | R | R |
| controllable\_unit\_id |  | R | R | R | RC | R | R | RC | R |
| service\_providing\_group\_id |  | R | R | R | RC | R | R | RC | R |
| valid\_from |  | R | R | R | RCU | R | R | RCU | R |
| valid\_to |  | R | R | R | RCU | R | R | RCU | R |
| recorded\_at |  | R | R | R | R | R | R | R | R |
| recorded\_by |  | R | R | R | R | R | R | R | R |