



OSDU™ Data Platform Application Developer Training

Entitlements & Legal Services



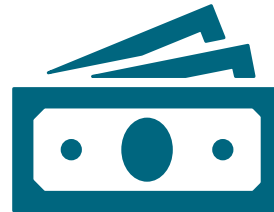
Copyright © 2021 The Open Group. This video is publicly available and may be downloaded for individual use, free of charge. No part of this video or The Open Group trademarks may be used or distributed for commercial gain, without the express written permission of The Open Group.



Usage Scenarios



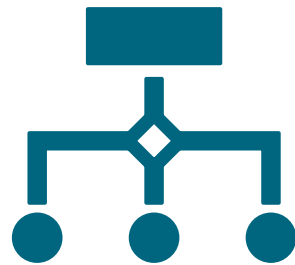
Agreements



Data selling



Legal Requirements



Company rules



Sanctions

Security and Compliance Services

» Entitlements

Uses **groups** to define **service** and **data** access inside the OSDU Data Platform.

» Legal

Defines the **legal status** of records

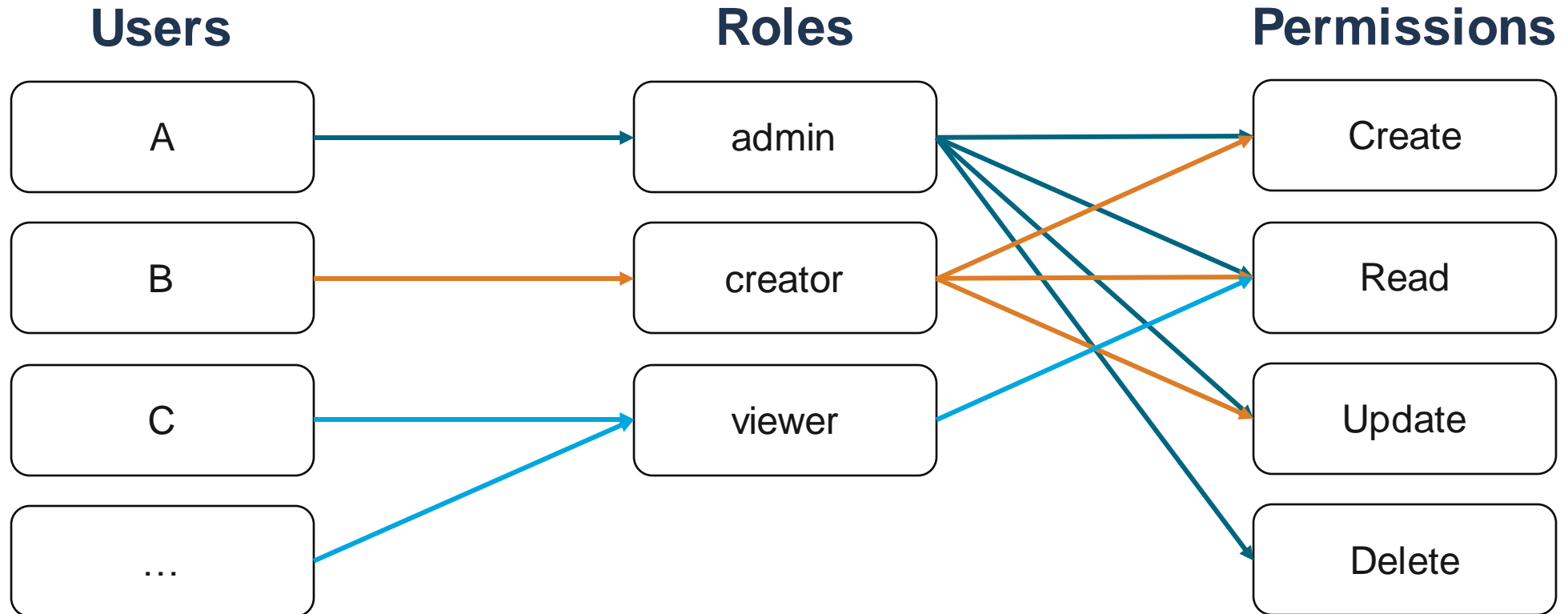
» Policy (Demo)

Apply **custom rules** for the **Storage** and **Search** CRUD operation

Policy Service <https://community.opengroup.org/osdu/platform/security-and-compliance/policy>

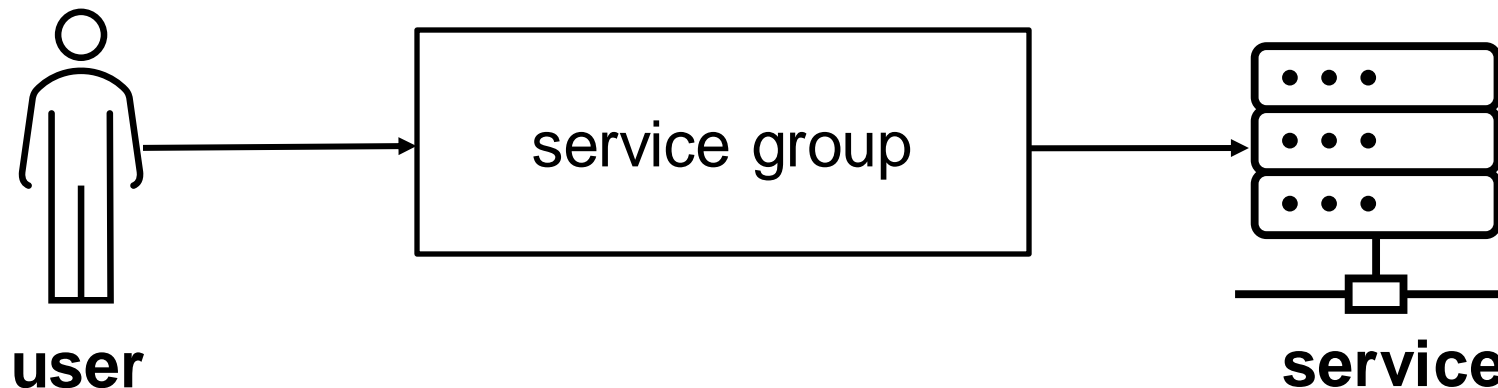
Entitlements Service

Role-based Access Control



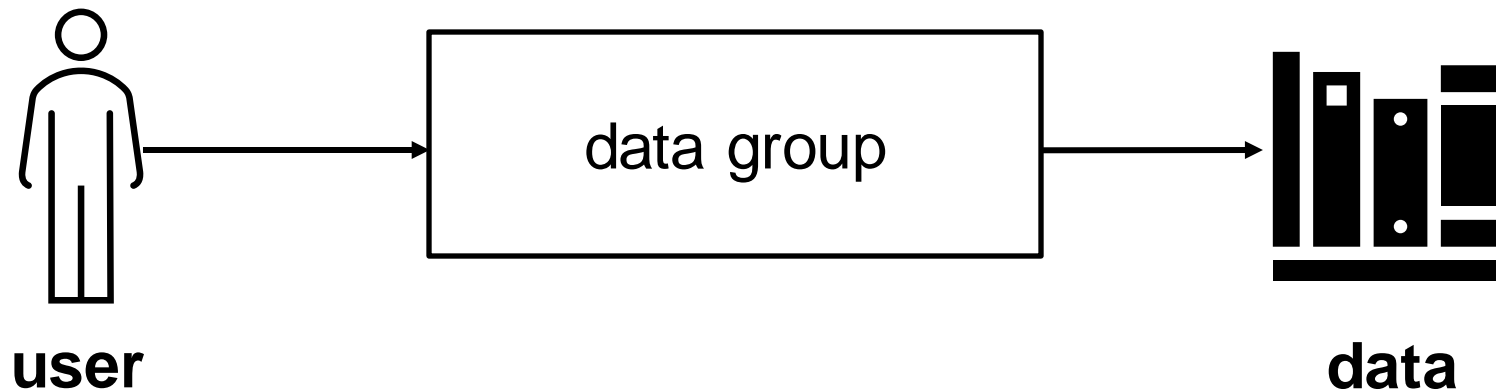
Service Groups

- » Grant access to services for users/service accounts
- » Service access is checked when a user tries to reach the service
- » Membership grants a list of privileges for requests
- » Groups are created during the service installation



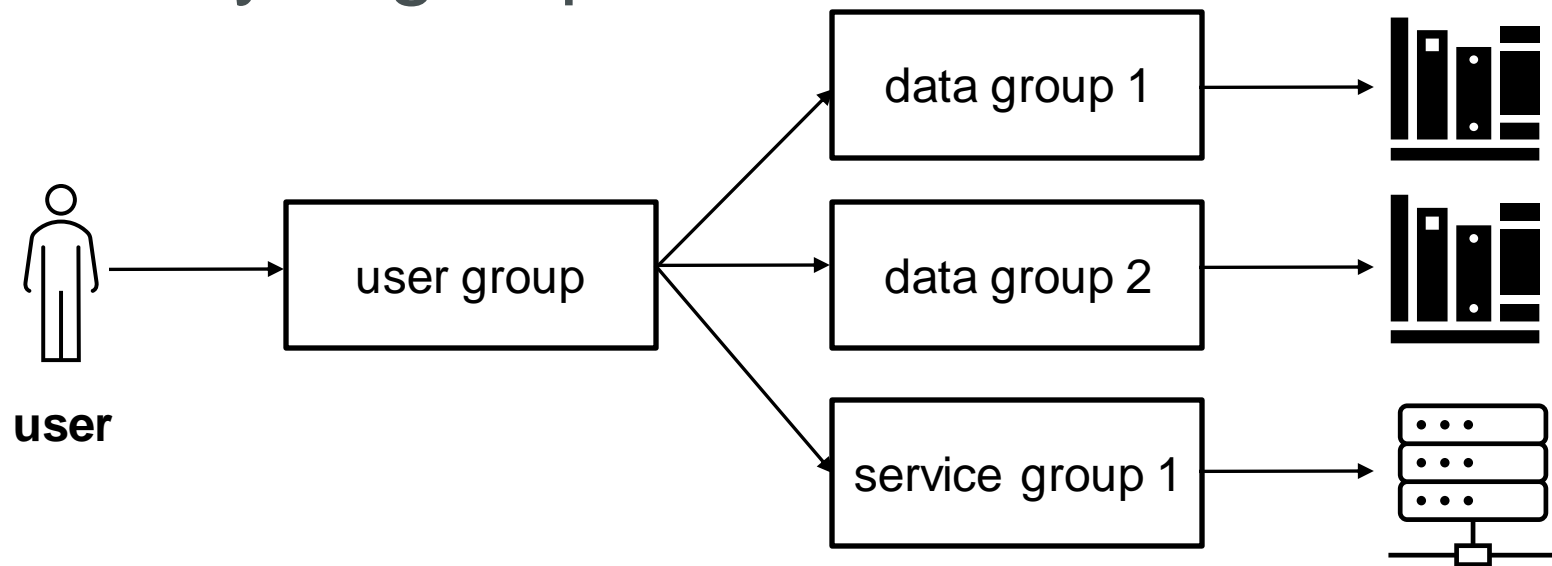
Data Groups

- » Grant access to records
- » A record has the ACL (Access Control List) property containing the data groups lists:
 - owners – "CRUD" permissions
 - viewers – read-only permissions



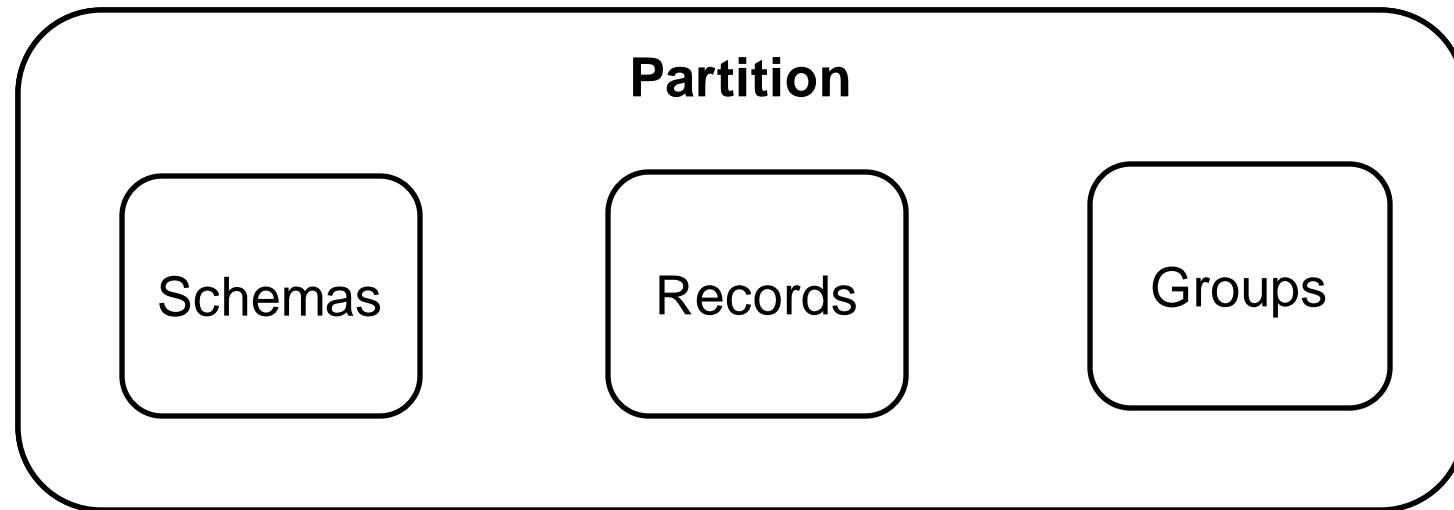
User Groups

- » Grant a list of permissions for user
- » Aggregate several groups into one
- » Create a hierarchy of groups



Data Partitions

- » Supports multi-tenancy
- » Each partition stores its own data, schemas, and groups
- » Used as an isolated environment



Naming Convention: Data Group

» Template:

data.{resourceName}.{permission}@{data-partition-id}.{domain}

» Example:

data.default.owners@opendes.osdu.opengroup.org

API Usage

The screenshot displays the Postman interface for an API request. The left sidebar shows a collection named "Entitlements example" containing several POST requests. The main panel shows a request for "Create user.exploration.viewers group" with the following details:

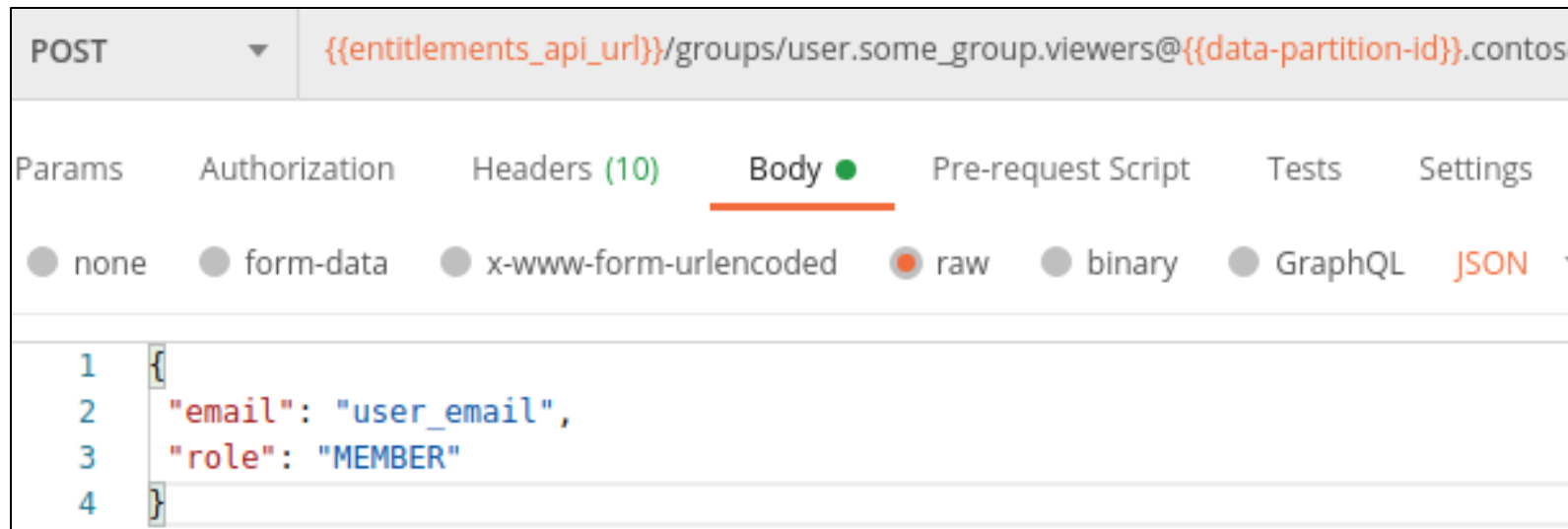
- Method: POST
- URL: `{{entitlements_api_url}}/groups`
- Body: JSON
- Request Body (raw JSON):

```
1 {  
2   "name": "user.example.viewers",  
3   "description": "Entitlements demo test group "  
4 }
```
- Response (Body):

```
1 {  
2   "name": "user.example.viewers",  
3   "email": "user.example.viewers@opendes.contoso.com",  
4   "description": "Entitlements demo test group "  
5 }
```
- Response Status: 201 Created, 753 ms, 1.01 KB

Group Roles

- » Group role defines privileges to manipulate group's members
 - "MEMBER" role allows to use group's privileges
 - "OWNER" role also allows to manage group members
- » Membership is defined during membership creation process



The screenshot shows a REST client interface for a POST request. The URL is `{{entitlements_api_url}}/groups/user.some_group.viewers@{{data-partition-id}}.contoso`. The 'Body' tab is selected, and the 'JSON' format is chosen. The request body is a JSON object with the following structure:

```
1 {  
2   "email": "user_email",  
3   "role": "MEMBER"  
4 }
```

Legal

Legal Tag

- » Legal service concerns the legal status of a record
- » Each record must contain a legal tag
- » Legal tag defines how data is ingested and consumed
- » You cannot upload a record with an invalid legal tag
- » Legal tag may be associated with a physical contract

Legal Properties

» Legal service contains full descriptions of legaltags

```
{  
  "name": "demo-legaltag",  
  "description": "A legaltag used for demonstration purposes.",  
  "properties": {  
    "countryOfOrigin":["US"],  
    "contractId": "No Contract Related",  
    "expirationDate": "2099-01-01",  
    "dataType": "Public Domain Data",  
    "originator": "OSDU",  
    "securityClassification": "Public",  
    "exportClassification": "EAR99",  
    "personalData": "No Personal Data"  
  }  
}
```

<https://community.opengroup.org/osdu/platform/security-and-compliance/legal/-/blob/master/docs/tutorial/ComplianceService.md#legaltag-properties>