



***TELESPAZIO***

***a LEONARDO and THALES company***

Policy Enforcement Point Interface  
Control Document  
***EOEPCA.ICD.xxx***

TVUK System Team

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# Policy Enforcement Point Interface Control Document

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EO Exploitation Platform Common Architecture  
*Policy Enforcement Point Interface Control Document*  
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## AMENDMENT HISTORY

This document shall be amended by releasing a new edition of the document in its entirety. The Amendment Record Sheet below records the history and issue status of this document.

*Table 1. Amendment Record Sheet*

| ISSUE      | DATE       | REASON                    |
|------------|------------|---------------------------|
| <b>0.1</b> | dd/mm/yyyy | Initial in-progress draft |

# Chapter 1. Introduction

## 1.1. Purpose and Scope

This document presents the Policy Enforcement Point Interfaces for the Common Architecture. It serves as a complementary document to its corresponding Software Design Document.

# Chapter 2. Overview

This Interface Control Document (ICD) is a companion to the System Design Document for the Policy Enforcement Point. The ICD provides a Building Block level specification of the interfaces exposed by the PEP to the rest of EOEPKA components.

## Section [\[Interfaces\]](#)

Provides the interface specification of the Building Block.

# Chapter 3. Policy Enforcement Point Interfaces

## Abstract

*This OpenAPI Document describes the endpoints exposed by Policy Enforcement Point Building Block deployments. <br> <br> Using this API will allow to register resources that can be protected using both the Login Service and the Policy Decision Point and access them through the Policy Enforcement Endpoint. <br> <br> As an example this documentation uses |"proxy|" as the configured base URL for Policy Enforcement, but this can be manipulated through configuration parameters.*

## 3.1. Endpoints

### 3.1.1. PolicyEnforcement

#### 3.1.1.1. Proxy DELETE

DELETE /proxy/{path}

Request to Back-End Service

##### 3.1.1.1.1. Description

This operation propagates all headers

##### 3.1.1.1.2. Parameters

###### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

###### Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

##### 3.1.1.1.3. Return Type

-



#### 3.1.1.1.4. Responses

Table 2. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

#### 3.1.1.1.5. Samples

#### 3.1.1.2. Proxy GET

GET /proxy/{path}

Request to Back-End Service

##### 3.1.1.2.1. Description

This operation propagates all headers and query parameters

##### 3.1.1.2.2. Parameters

###### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

###### Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

##### 3.1.1.2.3. Return Type

-

##### 3.1.1.2.4. Responses

Table 3. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

#### 3.1.1.2.5. Samples

#### 3.1.1.3. Proxy HEAD

HEAD /proxy/{path}

## Request to Back-End Service

### 3.1.1.3.1. Description

This operation propagates all headers and query parameters

### 3.1.1.3.2. Parameters

#### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

#### Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

### 3.1.1.3.3. Return Type

-

### 3.1.1.3.4. Responses

Table 4. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

### 3.1.1.3.5. Samples

### 3.1.1.4. Proxy POST

POST /proxy/{path}

## Request to Back-End Service

### 3.1.1.4.1. Description

This operation propagates all headers, query parameters and body

### 3.1.1.4.2. Parameters

#### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

## Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

### 3.1.1.4.3. Return Type

-

### 3.1.1.4.4. Responses

Table 5. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

### 3.1.1.4.5. Samples

### 3.1.1.5. Proxy PUT

PUT /proxy/{path}

Request to Back-End Service

#### 3.1.1.5.1. Description

This operation propagates all headers, query parameters and body

#### 3.1.1.5.2. Parameters

### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

## Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

### 3.1.1.5.3. Return Type

-

### 3.1.1.5.4. Responses

Table 6. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

#### 3.1.1.5.5. Samples

#### 3.1.1.6. Proxy PATCH

PATCH /proxy/{path}

Request to Back-End Service

##### 3.1.1.6.1. Description

This operation propagates all headers, query parameters and body

##### 3.1.1.6.2. Parameters

###### Path Parameters

| Name | Description                  | Required |
|------|------------------------------|----------|
| path | Path to the Back-End Service | X        |

###### Header Parameters

| Name          | Description                          | Required |
|---------------|--------------------------------------|----------|
| Authorization | RPT Token generated through UMA Flow | -        |

##### 3.1.1.6.3. Return Type

-

##### 3.1.1.6.4. Responses

Table 7. http response codes

| Code | Message                      | Datatype |
|------|------------------------------|----------|
| 200  | OK                           | <<>>     |
| 401  | Unauthorized access request. | <<>>     |

#### 3.1.1.6.5. Samples

### 3.1.2. Resources

#### 3.1.2.1. Resources GET

GET /resources

List all owned resources

#### 3.1.2.1.1. Description

This operation lists all resources filtered by ownership ID. Ownership ID is extracted from the OpenID Connect Token

#### 3.1.2.1.2. Parameters

##### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

#### 3.1.2.1.3. Return Type

array[[[resource](#)]]

#### 3.1.2.1.4. Content Type

- application/json

#### 3.1.2.1.5. Responses

Table 8. *http response codes*

| Code | Message | Datatype                           |
|------|---------|------------------------------------|
| 200  | OK      | List[[ <a href="#">resource</a> ]] |

#### 3.1.2.1.6. Samples

### 3.1.2.2. Resources POST

POST /resources

Creates a new Resource reference in the Platform

#### 3.1.2.2.1. Description

This operation generates a new resource reference object that can be protected. Ownership ID is set to the unique ID of the End-User

#### 3.1.2.2.2. Parameters

##### 3.1.2.2.3. Body Parameter

| Name        | Description                 | Required |
|-------------|-----------------------------|----------|
| NewResource | <a href="#">NewResource</a> | X        |

##### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

#### 3.1.2.2.4. Return Type

[resource]

#### 3.1.2.2.5. Content Type

- application/json

#### 3.1.2.2.6. Responses

Table 9. http response codes

| Code | Message      | Datatype   |
|------|--------------|------------|
| 200  | OK           | [resource] |
| 401  | UNAUTHORIZED | <<>>       |
| 404  | NOT FOUND    | <<>>       |

#### 3.1.2.2.7. Samples

#### 3.1.2.3. Resources DELETE

DELETE /resources/{resource\_id}

Deletes an owned Resource Reference from the Platform

##### 3.1.2.3.1. Description

This operation removes an existing Resource reference owned by the user.

##### 3.1.2.3.2. Parameters

###### Path Parameters

| Name        | Description        | Required |
|-------------|--------------------|----------|
| resource_id | Unique Resource ID | X        |

###### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

##### 3.1.2.3.3. Return Type

-

#### 3.1.2.3.4. Responses

Table 10. http response codes

| Code | Message      | Datatype |
|------|--------------|----------|
| 200  | OK           | <<>>     |
| 401  | UNAUTHORIZED | <<>>     |
| 404  | NOT FOUND    | <<>>     |

#### 3.1.2.3.5. Samples

#### 3.1.2.4. Resource GET (ID)

GET /resources/{resource\_id}

Retrieve a specific owned resource

##### 3.1.2.4.1. Description

This operation retrieves information about an owned resource.

##### 3.1.2.4.2. Parameters

###### Path Parameters

| Name        | Description        | Required |
|-------------|--------------------|----------|
| resource_id | Unique Resource ID | X        |

###### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

##### 3.1.2.4.3. Return Type

[resource]

##### 3.1.2.4.4. Content Type

- application/json

##### 3.1.2.4.5. Responses

Table 11. http response codes

| Code | Message   | Datatype   |
|------|-----------|------------|
| 200  | OK        | [resource] |
| 404  | NOT FOUND | <<>>       |

#### 3.1.2.4.6. Samples

#### 3.1.2.5. Resource HEAD (ID)

HEAD /resources/{resource\_id}

Retrieve a specific owned resource

##### 3.1.2.5.1. Description

This operation retrieves information about an owned resource.

##### 3.1.2.5.2. Parameters

###### Path Parameters

| Name        | Description        | Required |
|-------------|--------------------|----------|
| resource_id | Unique Resource ID | X        |

###### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

##### 3.1.2.5.3. Return Type

[resource]

##### 3.1.2.5.4. Content Type

- application/json

##### 3.1.2.5.5. Responses

Table 12. http response codes

| Code | Message   | Datatype   |
|------|-----------|------------|
| 200  | OK        | [resource] |
| 404  | NOT FOUND | <<>>       |

#### 3.1.2.5.6. Samples

#### 3.1.2.6. Resource PUT (ID)

PUT /resources/{resource\_id}

Updates an existing Resource reference in the Platform

##### 3.1.2.6.1. Description

This operation updates an existing 'owned' resource reference.



### 3.1.2.6.2. Parameters

#### Path Parameters

| Name        | Description        | Required |
|-------------|--------------------|----------|
| resource_id | Unique Resource ID | X        |

### 3.1.2.6.3. Body Parameter

| Name     | Description     | Required |
|----------|-----------------|----------|
| Resource | <i>Resource</i> | X        |

#### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

### 3.1.2.6.4. Return Type

-

### 3.1.2.6.5. Responses

Table 13. http response codes

| Code | Message      | Datatype |
|------|--------------|----------|
| 200  | OK           | <<>>     |
| 401  | UNAUTHORIZED | <<>>     |
| 404  | NOT FOUND    | <<>>     |

### 3.1.2.6.6. Samples

#### 3.1.2.7. Resource PATCH (ID)

PATCH /resources/{resource\_id}

Patches an existing Resource reference in the Platform

Currently, only support for this method is presented, and requires and functions the same as PUT.

##### 3.1.2.7.1. Description

This operation updates an existing 'owned' resource reference.

##### 3.1.2.7.2. Parameters

#### Path Parameters

| Name        | Description        | Required |
|-------------|--------------------|----------|
| resource_id | Unique Resource ID | X        |

#### 3.1.2.7.3. Body Parameter

| Name     | Description     | Required |
|----------|-----------------|----------|
| Resource | <i>Resource</i> | X        |

#### Header Parameters

| Name          | Description         | Required |
|---------------|---------------------|----------|
| Authorization | JWT or Bearer Token | -        |

#### 3.1.2.7.4. Return Type

-

#### 3.1.2.7.5. Responses

Table 14. http response codes

| Code | Message      | Datatype |
|------|--------------|----------|
| 200  | OK           | <<>>     |
| 401  | UNAUTHORIZED | <<>>     |
| 404  | NOT FOUND    | <<>>     |

#### 3.1.2.7.6. Samples

### 3.1.3. API

#### 3.1.3.1. Swagger UI

*/swagger-ui*

##### 3.1.3.1.1. Description

This operation accesses the API for the Policy Enforcement Point

##### 3.1.3.1.2. Parameters

#### Path Parameters

| Name | Description | Required |
|------|-------------|----------|
| -    | -           | -        |

## Header Parameters

| Name | Description | Required |
|------|-------------|----------|
| -    | -           | -        |

### 3.1.3.1.3. Return Type

-

### 3.1.3.1.4. Responses

Table 15. http response codes

| Code | Message | Datatype |
|------|---------|----------|
| 200  | OK      | <<>>     |

### 3.1.3.1.5. Samples

## 3.2. Models

### 3.2.1. NewResource

| Field Name      | Required | Type                             | Description                                 | Format |
|-----------------|----------|----------------------------------|---|--------|
| name            | Y        | String                           | Human readable name for the resource        | -      |
| description     | Y        | String                           | Human readable description of the resource  | -      |
| icon_uri        | Y        | String                           | Protected uri of the resource.              | -      |
| resource_scopes | Y        | List of <a href="#">[string]</a> | List of scopes associated with the resource | -      |

### 3.2.2. Resource

| Field Name      | Required | Type                             | Description                                 | Format |
|-----------------|----------|----------------------------------|---|--------|
| ownership_id    | Y        | UUID                             | UUID of the Owner End-User                  | uuid   |
| description     | Y        | UUID                             | Human readable description of the resource  | uuid   |
| name            | Y        | String                           | Human readable name for the resource        | -      |
| icon_uri        | Y        | String                           | Protected uri of the resource.              | -      |
| resource_scopes | Y        | List of <a href="#">[string]</a> | List of scopes associated with the resource | -      |

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