



***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 POST

POST /proxy/{path}



## Request to Back-End Service

### 3.1.1.3.1. Description

This operation propagates all headers, query parameters and body

### 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 PUT

PUT /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

## 3.1.2. 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 6. 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 7. http response codes

Code	Message	Datatype
200	OK	<a href="#">[resource]</a>
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 8. 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 9. http response codes

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

### 3.1.2.4.6. Samples

### 3.1.2.5. Resource PUT (ID)

PUT /resources/{resource\_id}

Updates an existing Resource reference in the Platform

#### 3.1.2.5.1. Description

This operation updates an existing 'owned' resource reference.

#### 3.1.2.5.2. Parameters

## Path Parameters

Name	Description	Required
resource_id	Unique Resource ID	X

#### 3.1.2.5.3. Body Parameter

Name	Description	Required
Resource	Resource	X

## Header Parameters

Name	Description	Required
Authorization	JWT or Bearer Token	-

### 3.1.2.5.4. Return Type

-

### 3.1.2.5.5. Responses

Table 10. http response codes

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

### 3.1.2.5.6. 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 11. 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	-

<< End of Document >>