

# Policy Decision Point Interface Control Document

EOEPCA.ICD.xxx

TVUK System Team

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### EO Exploitation Platform Common Architecture Policy Decision Point Interface Control Document EOEPCA.ICD.xxx

COMMENTS and ISSUES  If you would like to raise comments or issues on this document, please do so by raising an Issue at the following URL https://github.com/EOEPCA/um-pdp-engine/issues.	<b>PDF</b> This document is available in PDF format here.
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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
0.1	dd/mm/yyyy	Initial in-progress draft

# Chapter 1. Introduction

## 1.1. Purpose and Scope

This document presents the Policy Decision Point Interfaces for the Common Architecture. It servers 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 Decision Point. The ICD provides a Building Block level specification of the interfaces exposed by the PDP to the rest of EOEPCA components.

#### **Section [Interfaces]**

Provides the interface specification of the Building Block.

## **Chapter 3. Policy Decision Point Interfaces**

#### **Abstract**

This OpenAPI Document describes the endpoints exposed by Policy Decision

Point Building Block deployments. <br > <br > Using this API will allow to register

policies that support the protection of policies using both the Login Service and the

Policy Decision Point and to perform checks based on XACML requests and

responses

## 3.1. Endpoints

#### 3.1.1. Policy Checks

#### 3.1.1.1. Policy Validation

POST /policy/validate

**XACML Policy Checks** 

#### **3.1.1.1.1. Description**

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

**3.1.1.1.2. Parameters** 

3.1.1.1.3. Return Type

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#### **3.1.1.1.4.** Responses

Table 2. http response codes

Code	Message	Datatype
200	OK	<<>>

3.1.1.1.5. Samples

### 3.1.2. Policy Management

#### **3.1.2.1. Policy GET**

GET /policy

List all owned policies

#### **3.1.2.1.1. Description**

This operation lists all policies 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[[policy]]

#### 3.1.2.1.4. Content Type

• application/json

#### 3.1.2.1.5. Responses

#### Table 3. http response codes

Code	Message	Datatype
200	ОК	List[[policy]]

#### 3.1.2.1.6. Samples

#### 3.1.2.2. Policy DELETE (ID)

#### DELETE /policy/{policy\_id}

Deletes an owned Policy Reference from the Platform

#### **3.1.2.2.1. Description**

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

#### **3.1.2.2.2. Parameters**

#### **Path Parameters**

Name	Description	Required
policy_id	Unique Policy ID	X

#### **Header Parameters**

Name	Description	Required
Authorization	JWT or Bearer Token	-

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#### 3.1.2.2.3. Return Type

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#### **3.1.2.2.4. Responses**

#### Table 4. http response codes

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

#### 3.1.2.2.5. Samples

#### 3.1.2.3. Policy GET (ID)

#### GET /policy/{policy\_id}

Retrieve a specific owned policy

#### **3.1.2.3.1. Description**

This operation retrieves information about an owned policy.

#### 3.1.2.3.2. Parameters

#### **Path Parameters**

Name	Description	Required
policy_id	Unique Policy ID	X

#### **Header Parameters**

Name	Description	Required
Authorization	JWT or Bearer Token	-

#### 3.1.2.3.3. Return Type

#### [policy]

#### 3.1.2.3.4. Content Type

• application/json

#### **3.1.2.3.5. Responses**

Table 5. http response codes

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

#### 3.1.2.3.6. Samples

#### 3.1.2.4. Policy PUT (ID)

#### PUT /policy/{policy\_id}

Updates an existing Policy reference in the Platform

#### **3.1.2.4.1. Description**

This operation updates an existing 'owned' policy reference.

#### **3.1.2.4.2. Parameters**

#### **Path Parameters**

Name	Description	Required
policy_id	Unique Policy ID	X

#### 3.1.2.4.3. Body Parameter

Name	Description	Required
Policy	Policy	X

#### **Header Parameters**

Name	Description	Required
Authorization	JWT or Bearer Token	-

#### 3.1.2.4.4. Return Type

-

#### **3.1.2.4.5. Responses**

#### Table 6. http response codes

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

#### 3.1.2.4.6. Samples

#### **3.1.2.5. Policy POST**

#### POST /policy

Creates a new Policy reference in the Platform

#### **3.1.2.5.1. Description**

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

#### **3.1.2.5.2. Parameters**

#### 3.1.2.5.3. Body Parameter

Name	Description	Required
NewPolicy	NewPolicy	X

#### **Header Parameters**

Name	Description	Required
Authorization	JWT or Bearer Token	-

#### 3.1.2.5.4. Return Type

#### [policy]

#### 3.1.2.5.5. Content Type

• application/json

#### 3.1.2.5.6. Responses

Table 7. http response codes

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

#### 3.1.2.5.7. Samples

## 3.2. Models

## 3.2.1. NewPolicy

Field Name	Require d	Туре	Description	Format
name		String	Human readable name for the policy	
description		String	Custom description for the policy pourpose	
policy_cfg		policy_cfg		
scopes		List of [string]	List of scopes associated with the policy	

## **3.2.2.** *Policy*

Field Name	Require d	Туре	Description	Format
ownership_id		UUID	UUID of the Owner End-User	uuid
id		UUID	UUID of the policy	uuid
name		String	Human readable name for the policy	
description		String	Custom description for the policy pourpose	
policy_cfg		policy_cfg		
scopes		List of [string]	List of scopes associated with the policy	

## **3.2.3.** *PolicyCfg*

Custom rules for the policy configuration

Field Name	Require d	Туре	Description	Format
resource_id		UUID	UUID of the applicable Resource	uuid
action		String	Applicable XACML Action	
rules		List of [object]	List of checks to create a policy. Each one will be executed in sequence, and the policy will fail as soon as one fails	

<< End of Document >>