



***TELESPAZIO***

***a LEONARDO and THALES company***

Pricing Engine Interface Control  
Document  
***EOEPCA.ICD.xxx***

TVUK System Team

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# Pricing Engine Interface Control Document

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# EO Exploitation Platform Common Architecture

## Pricing Engine Interface Control Document

EOEPCA.ICD.xxx

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| <b>COMMENTS and ISSUES</b><br>If you would like to raise comments or issues on this document, please do so by raising an Issue at the following URL <a href="https://github.com/EOEPCA/um-pricing-engine/issues">https://github.com/EOEPCA/um-pricing-engine/issues</a> . | <b>PDF</b><br>This document is available in PDF format <a href="#">here</a> .   |
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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 Pricing Engine 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 Pricing Engine. The ICD provides a Building Block level specification of the interfaces exposed by the Pricing Engine to the rest of EOEPKA 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. Pricing Calculation

#### 3.1.1.1. Pricing Events Calculation

POST /pricing/calculate

Rates and prices for events

##### 3.1.1.1.1. Description

This operation calculates rates and prices for the event received in the JSON Request and then store the value in the database.

##### 3.1.1.1.2. Parameters

##### 3.1.1.1.3. Return Type

-

##### 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. Pricing Management

#### 3.1.2.1. Pricing GET

GET /pricing

List all rates and prices from the database

#### 3.1.2.1.1. Description

This operation lists all rates and prices filtered by event ID. Event ID is extracted from the JSON Request

#### 3.1.2.1.2. Parameters

##### Header Parameters

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

#### 3.1.2.1.3. Return Type

array[[rate or price]]

#### 3.1.2.1.4. Content Type

- application/json

#### 3.1.2.1.5. Responses

Table 3. http response codes

| Code | Message | Datatype                    |
|------|---------|-----------------------------|
| 200  | OK      | List[[rates and/or prices]] |

#### 3.1.2.1.6. Samples

#### 3.1.2.2. Pricing DELETE (ID)

DELETE /pricing/{event\_id}

Deletes a value from the database

##### 3.1.2.2.1. Description

This operation removes an existing value owned by the event.

##### 3.1.2.2.2. Parameters

##### Path Parameters

| Name     | Description     | Required |
|----------|-----------------|----------|
| event_id | Unique Event ID | X        |

##### Header Parameters



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

#### 3.1.2.2.3. Return Type

-

#### 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. Pricing Value GET (ID)

GET /pricing/{event\_id}

Retrieve a specific owned rate or price value

##### 3.1.2.3.1. Description

This operation retrieves the value for the event.

##### 3.1.2.3.2. Parameters

###### Path Parameters

| Name     | Description     | Required |
|----------|-----------------|----------|
| event_id | Unique Event ID | X        |

###### Header Parameters

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

##### 3.1.2.3.3. Return Type

[event\_value]

##### 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        | [event_value] |
| 404  | NOT FOUND | <<>>          |

### 3.1.2.3.6. Samples

### 3.1.2.4. Pricing PUT (ID)

PUT /pricing/{event\_id}

Updates an existing rate or price reference in the Platform

#### 3.1.2.4.1. Description

This operation updates an existing value for a specific event.

#### 3.1.2.4.2. Parameters

##### Path Parameters

| Name     | Description     | Required |
|----------|-----------------|----------|
| event_id | Unique Event ID | X        |

#### 3.1.2.4.3. Body Parameter

| Name        | Description   | Required |
|-------------|---------------|----------|
| Event Value | [event_value] | 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. Pricing POST

POST /pricing

Stores rates and prices reference in the Platform

##### 3.1.2.5.1. Description

This operation stores the rate or price in the database.

##### 3.1.2.5.2. Parameters

##### 3.1.2.5.3. Body Parameter

| Name          | Description | Required |
|---------------|-------------|----------|
| NewEventValue | [NewValue]  | X        |

##### Header Parameters

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

##### 3.1.2.5.4. Return Type

[event\_value]

##### 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           | [event_value] |
| 401  | UNAUTHORIZED | <<>>          |
| 404  | NOT FOUND    | <<>>          |

##### 3.1.2.5.7. Samples

## 3.2. Models

### 3.2.1. NewEventValue

| Field Name | Required | Type   | Description     | Format |
|------------|----------|--------|-----------------|--------|
| event_id   |          | String | ID of the event |        |

<< End of Document >>