

PSI-ICD

Version: 1.2.2

Date: 2025-02-03

Reference: PSI-ICD

Total Pages: 532

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1 Document Meta Information

1.1 Document Signature Table

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Table 1.1: Signature Table.

1.1.1 Document Change Record

1.1.1.1 Changes

Date	Version	author	message
2022-08-24	MS1	Christian Grubert	Initial version
2022-09-30	MS2	Christian Grubert	Added party management and resource registration.
2022-12-31	MS3	Christian Grubert	Added inquiry, template, event, attachment and billing API
2023-04-19	MS4	Christian Grubert	Updated endpoints descriptions for billing and attachments, added beam areas, best-effort flag and inquiry timeouts, added security considerations
2023-07-26	MS5	Norbert Czeranka	Priority system for offerings, characteristics, trouble ticket management and time intervals

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Date	Version	author	message
2023-10-06	MS6	Christian Grubert	Introduced JSON Schema approach and GeoJSON details
2024-01-25	MS7	Christian Grubert	Clarified mandatory columns, additional JSON schemas, introduced polymorphism
2024-09-11	MS8 [1.2.0]	Thomas Schulz	Public release adjustments.
2024-12-09	MS9 [1.2.1]	Christian Grubert	Mission-API and location handling updates.
2025-02-03	MS10 [1.2.2]	Norbert Czeranka	Relative times in Mision-API, implicit subtypes, Open-API 3.0 type update.

Table 1.2: DCR Table.

1.1.1.2 Source Control

Changes to this document are tracked electronically. No signature is required by the authors. The following information can prove the integrity of the document and reveal any change.



Table 1.3: GIT Changelog Table.

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Figure 1.1: DCR QR-Code.

1.2 Documents

1.2.1 Reference Documents

Acronym	Reference	Title	Version
PSI-DL	PSI-DL	PSI CGI Document List	current MS (doc version)
PSI-ICD	PSI-ICD	PSI Interface Control Document	see before
PSI-TAD	PSI-TAD	PSI Terms, Abbreviations and Definitions	see before
PSI-TOD	PSI-TOD	PSI Tasks and Operations Dictionary	see before

Table 1.4: Reference Documents.

1.2.2 External Annexes

Reference	Title or Filename
PSI-ICD-Annex-I	PSI-ICD-Annex-I.zip
PSI-ICD-Annex-II	PSI-ICD-Annex-II.zip

Table 1.5: External Annexes

Ref: PSI-ICD **PSI Interface Control Document**

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Introduction 2

The Pooling & Sharing Interfaces Definitions (PSID) project is an ESA co-funded effort to define a common standard for the interfaces of Pooling & Sharing Systems (PSS) for Satellite Communication (SatCom) services. A PSS is a digital platform for matchmaking (Gov)SatCom users' demands (both commercial and institutional) with (Gov)SatCom providers' offers. Bringing together multiple (Gov)SatCom providers in one platform makes the market transparent, thus allowing users to get an overview of the market and to compare different offers efficiently. Additionally, a PSS assists users with little knowledge about the (Gov)SatCom domain defining their requirements on the (Gov)SatCom services. Those two aspects combined allow for fast access to the services and an efficient usage of the available capacities. To accomplish this, a PSS steps in between the usual processes of finding a provider/supplier, requesting an offer, and ordering the desired products or services, either as a service broker or by pooling products and services from different providers and offering them as an intermediary or distributor. Subsequently, the PSS can be used to monitor the services and manage multiple missions in a single application.

Eventually, a PSS can also be used as (or manage) a community hub, i.e., a number of end users or customers with similar interest that share their common resources and utilize a commonly obtained pool of (Gov)SatCom capacities. This strategy increases the efficient usage of scarce resources further.

There are already different approaches on PSSs, that might lead to an unnecessary fragmentation of the market. Therefore, a common standard for the interfaces of a PSS is required to allow the interaction between those different PSSs and reduce the effort of (Gov)SatCom providers to offer their product and services via multiple PSSs to maximize their reach.

Such a standard needs to take care of the different interfaces involved in the aforementioned processes, i.e.,

- 1. an interface between PSS and resource providers (satellite operators, service providers, or other PSSs),
- 2. an interface between the PSS and users, and
- 3. an interface between PSS and its own governance.

The goal of this project is to mainly define aspect 1 and to develop a software mock-up as needed to validate the various interfaces being developed.

The PSI standard derives from the existing industry-standard "Open Digital Framework" of TM Forum alliance¹. The "Open Digital Framework" is a reference framework for delivering online Information, Communications and Entertainment services to the telecom world. It empowers market participants to compete and cooperate. One of PSI's goals is to make this existing standard fit for the world of satellite communication.

The consortium for this project consists of the service & technology providers SES Techcom and CGI, as well as of the (Gov)SatCom operators SES, Hellas Sat, Hispasat, Hisdesat, and LuxGovSat, and Inmarsat being both a service & technology provider and a (Gov)SatCom operator.

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¹See https://www.tmforum.org/resources/reference/gb991-tm-forums-core-concepts-and-principles-v22-0-0/

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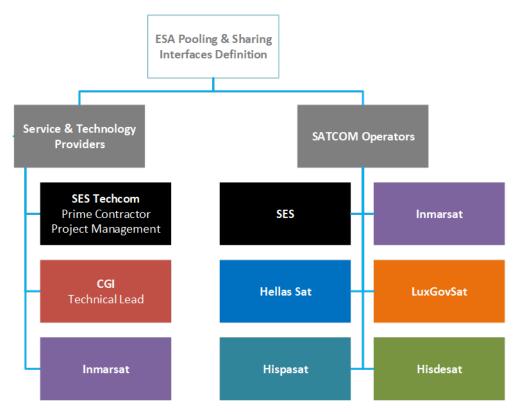


Figure 2.1: The PSI consortium.

2.1 Scope of Document

This document is the Interface Control Document of the Pooling & Sharing Interface (PSI). It contains the description of the interfaces between a PSS and a provider or two PSS, which are based on TM Forum OpenAPIs.

The following sections heavily refer to terms, abbreviations and definitions defined in the [PSI-TAD].

2.1.1 Compiled Document

NOTE: THIS IS A COMPILED DOCUMENT 2

This document has been compiled/generated from external sources and is not being written as-is. Therefore, any changes made within this compiled version of the document will be lost upon recompilation!

To make (permanent) changes, edit the respective sources directly or contact the PSID team.

2.1.2 Signature

Changes to this document are tracked electronically. No signature is required by the authors. The information in the "Source Control" chapter can prove the integrity of the document and reveal any change.

²Document compiled on 2025-02-12 11:44.

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2.1.3 Development State

Current document version is 1.2.2. Next version is targeted for 2025-04-01.

2.1.4 PSI Release Notes

2.1.4.1 Introduction

Welcome to the third release of the Pooling and Sharing Interface API! Below, you'll find details about the features, enhancements, and other important aspects of this release.

2.1.4.2 Key Highlights

The focus of this release lies on **mission management**, to facilitate a common understanding of user requirement towards communication. It aims to complement the Inquiry API by providing workflows and *understanding* to service requirements. This is mainly a user-oriented API, but it also enables exchange of mission data between PSS systems and therefore cross-platform-market places. This could become a future focal point. Such data exchange would include actual user requirements (expressed as missions), as well as templates for such missions. By the use of templates, user mission creation is streamlined and allows a governance to safeguard, streamline or ease the process of user requirement gathering.

Together with the APIs, we are working on a Plug&Play component for P&S systems (Hubs, Brokers, Market-places...), based on ODA. This will be a standalone Micro-Frontend open to be integrated into existing OSS/B-SS/PSS systems. A first draft is included in this release.

It will come with different views:

- Time based (e.g. mission timeline, Gantt-Chart, to express that is needed when)
- Geography based (e.g. mission zones or network nodes on a map to express what is needed where)
- Logical View (e.g. communication interdependency graph to express how the requirements will look like)

Another area of improvement is the performance management API.

A new API has been added that allows to request performance reports to an ongoing mission from the provider. That is: the report itself is generated on provider's systems. The API handles the request and exchange of the report. The report has to be in line with the product's SLA and allows monitoring of compliance. It allows also to define alarm thresholds and receive a push of threshold violations by the provider, avoiding a constant pull.

We also added the technical considerations and resulting decisions to the document set. This allows easier future evolution and maintenance of the standard.

2.1.4.3 What's New

- [PSI-GID] now contains descriptions about the ODA component for mission management
- [PSI-ICD] now contains new and updated APIs see below!
- [PSI-ADR] first release of our decision records

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- [PSI-TAD] now contains descriptions of concepts for user missions, as well as performance and alarm management
- [PSI-TOD] now contains new tasks and operations for user missions, performance and alarm management

2.1.4.3.1 Newly added APIs

- PSID002 Mission Management
- This customer-facing API allows them to manage missions and assign products, services and resources to them.
- It can also serve as an entry point for the Customer Inquiry API to find matching products for their requirements.
- PSID143 Performance Monitoring
- Based on MEF143 Performance Monitoring API (Version 2.0.0-RC).
- The performance monitoring allows a PSS or customer to request performance reports from a provider.
- PSID642 Alarm
- Based on TMF642 Alarm API (Version 4.1.0).
- · Allows the provider to notify a PSS or customer about detected problems with their products.

2.1.4.3.2 Updates APIs

- PSID001 Customer Inquiry
- · Improved handling of places by adapting TMF Geography types.
- · PSID620 Product Catalog
- Based on TMF620 Product Catalog Management API (Version 4.1.0).
- Changed SLARef to ServiceLevelSpecificationRef
- · Streamlined GeoJSON types
- PSID633 Service Catalog
- Based on TMF633 Service Catalog Management API (Version 4.1.0).
- Changed SLARef to ServiceLevelSpecificationRef
- · Streamlined GeoJSON types
- PSID634 Resource Catalog
- Based on TMF634 Resource Catalog Management API (Version 4.1.0).
- Changed SLARef to ServiceLevelSpecificationRef
- Streamlined GeoJSON types
- PSID657 Service Quality Management
- Based on TMF657 Service Quality Management API (Version 4.1.0).
- Add endpoints to manage KPIs that are supported by the PSS.

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2.1.4.3.3 Added Requirements

- MISSION requirement category
- REQ-06-03 Key Indicator Management
- REQ-06-04 Performance Monitoring Job Management
- REQ-06-05 Performance Monitoring Report Management
- REQ-06-06 Alarm Management

2.1.4.4 Known Limitations

- 1. The Service Quality Management is rather basic. There is an ongoing effort to align this set of APIs with the results of a TM Forum Catalyst project. More information will follow in one of the next releases.
- 2. The Mission Management Service is at an early state. However, the available API implements basic mission management services, import and export. A full set of APIs to implement such a service are subject to an upcoming release. Refer also the [PSI-GID] to learn about the available API use cases.

2.1.5 Outlook

Currently, we are working on the next release with the following focal points:

- · Finalize the mission management component
- Update the API baseline to TM Forum 5
- · Converge with MEF schema for some selected APIs

2.1.6 Feedback and Contributions

We value your feedback! If you encounter any issues or have suggestions, please reach out. Additionally, we welcome contributions from the community.

2.2 High-Level Connection

This document describes the interfaces any PSS and any provider system must implement to enable communication between them. Unless specified otherwise, all interfaces are implemented RESTful, which includes the following properties:

· Connection Type: ad-hoc

Protocol: HTTP(S)

Content Type: JSON

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Each of the following sections describe the available endpoints and operations, including the parameters, and request bodies. Wherever a named class is referenced see the Data-Transfer-Objects section for details. All information is also available as OpenAPI Specifications³ in [PSI-ICD-Annex-I] of this document. These files can be used to generate server and client code⁴ in a programming language of choice.

Every interface is implemented by a server and a client. There is no clear distinction between a PSS and a provider system in this document, since both can implement each side depending on the use-case. Especially the broker-type PSS will often receive data from one party (e.g. the customer) as a server and forward it to another (e.g. the provider) as a client. The PSI mock-up is a sample implementation of the endpoints described in the ICD.

It is up to the implementor to decide how the endpoints will be implemented internally on their side. For recommended guidelines and design patterns when implementing TM Forum's REST APIs, use the TMF630 REST API Design Guidelines 4.2.0⁵ document as a reference. Filtering, for instance, is an optional function that is not required to be implemented for the GET endpoints returning lists of objects. Therefore, it is not part of the parameters listed in the respective endpoint sections of the ICD. If an implementor of the server side decides to develop it, *Part One* of the REST API Design Guidelines describes the recommendations for querying resources with attribute filtering, while *Part Six* describes advanced collection filtering using JSON Path. Client implementors are advised to clarify which filters are available on the server side.

2.3 Security Considerations

The PSID is designed to be as implementation-agnostic as possible, so it can be used as a building block for any PSS or client (user, provider and governance). Therefore, it must also be integrated in the overall security solution of the implementing system and can not establish strong requirements on those aspects. The following subsections will provide an overview of interface-related security aspects the implementor must consider, as well as some guidance on available solutions.

2.3.1 Transport Encryption

As stated in the introduction, all data is exchanged with TLS encryption using HTTPS. It is strongly recommended using the latest version (which is 1.3 at the time of writing) and to disable older versions via the server configuration to prevent downgrade attacks. The recommendation also applies to internal subsystems, even if they are not using PSI directly. Each party can decide whether to use a well-known certification authority or to arrange a custom Public-Key-Infrastructure (PKI). In the latter case, the root keys of the PKI have to be exchanged beforehand to establish the connection.

For extended security, the implementation can introduce additional encryption layers. Most notably, classified systems will most likely require a VPN connection. The soft- or hardware solution for the connection is to be agreed beforehand.

The above-mentioned measures are implemented on the transport layer and therefore transparent to the application. But this implies that the data is only encrypted on the network between one system and another. It is quite common though to use middleboxes like reverse-proxies and load-balancers, which will decrypt and re-encrypt the data for transmission to the next system. For highest security, the parties can agree to use the JSON Web Encryption (JWE, RFC 7516) technology. It enables the encryption of the message body (e.g. an inquiry), so it can only be decrypted by the target subsystem.

³https://swagger.io/resources/open-api/

⁴https://swagger.io/tools/swagger-codegen/

⁵https://www.tmforum.org/resources/specification/tmf630-rest-api-design-guidelines-4-2-0/

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2.3.2 Authentication

Authentication is the process of validating the identity of a communication partner. This can be between two systems (PSS-to-Provider, PSS-to-PSS) or between a natural person and a system. Setting up the authentication for the first time is part of the accreditation process.

Since all data exchange is based on HTTPS, the server is always authenticated via the SSL certificate. As described above, the authenticity is checked either via a well-known certification authority or via a custom PKI. Additionally, it is possible to use certificate pinning (RFC 7469) to prevent man-in-the-middle attacks.

There are many standardized authentication methods available for clients. Selecting the right one depends on the security needs and structure of the implementation. There may also be differences made for authentication of other systems and natural persons.

For machine-to-machine communication, each implementation is expected to have a configuration of allowed hosts (e.g. api.example.com:8081) and their respective authentication scheme and credentials. Depending on the operational requirements, this may be offered as a self-service UI or restricted to the system operators (e.g. for security reasons or complexity concerns). When calling an endpoint, the respective authentication can be selected and applied automatically.

The recommended authentication method is the OAuth 2.0 protocol, which is also favoured by the REST API Design Guidelines of TM Forum. It separates the authentication provider from the rest of the system and allows authenticating systems and natural persons alike. The credentials to authenticate the client can be classic combinations of username and password, a second-factor, or certificate-based like the server authentication. Either way they are sent to the authentication provider before the first request, which then verifies the identity and creates an access token. The token is stored in a server-side session (using a short-lived cookie in the client browser) or returned to the client for further use as an HTTP-Header (useful for machine-to-machine communication).

2.3.3 Authorization and Data Visibility

Authorization is closely related to the above described authentication: It is the process of determining whether the authenticated entity has access to a source. Because of the close relation, it is not possible to define this without implying an authorization method. This chapter describes two aspects, which have to be considered by the server implementation.

First, it has to check the permissions of the client to access any given endpoint. For example, there are endpoints that are only allowed to be called by the system governance (see [PSI-TOD]). Consequently, any request by other parties must be prohibited, and a 403 status code must be returned as described in the [PSI-ICD]. The most common concept for this is role based access control (RBAC).

If the client is allowed to access the endpoint, the server must also check if the client is allowed to perform the given operation on the requested data. This could be implemented by using an access control list (ACL). As long as not stated otherwise, every party is only allowed to read and update entities they previously created themselves. The owner will extend this access as side effects to other actions:

- As part of resource accreditation, the resource is made visible to (Gov)SatCom users.
- When an order is created, the party information of the customer is made visible to the provider.

The system might also provide further internal processes to make data *writable* by other parties, e.g. for other persons in the same organization or a mission expert that supports the customer in the process of service acquisition. These permission checks are mandatory for the overall entity, but can also be performed on single attributes if required.

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The Event API needs special attention in this regard. The implementation must assure that no published events are leaked to third parties. Also, it shall ensure that received events are processed under the same conditions as above.

2.3.4 Other Security Aspects

There are other security aspects that should be considered by all systems independently of the PSI. The following (incomplete) list is indicating some well-known ones, that could be part of the accreditation process if deemed relevant for the governance:

- · Securing data-at-rest (e.g. in databases) from unauthorized access and data loss
- · Denial-of-Service attacks
- · Brute-Force attacks
- · Replay attacks
- · Physical security

2.4 Types and Characteristics

The PSS defines a set of supported types for resources, services and products in consultation with the providers. It provides them in a JSON Schema file that is made available through the API itself or can be exchanged offline. Each type then defines *characteristics* that describe the exact nature of it.

Product types are also the fundament of the matchmaking: The customer specifies a set of inquired characteristics and the PSS will find products that satisfy them. The result can be a single service or resource, that satisfies all requirements, or a more or less complex combination of such, depending on the capabilities of the algorithm. If partial matches are allowed, services that only partially match the inquired features are included into the results.

Both sides, PSS and Provider, may introduce additional characteristics, e.g. as part of the development of new or enhanced products. In any case, no assumptions shall be made on the support of those by the other side: If the PSS adds support for a new characteristic, it has to define a sensible, neutral default value that is applied to all specifications that do not contain the new characteristic. No provider shall be penalized in the matchmaking for not defining it, unless the user explicitly requests the new characteristic. If a provider sends a new characteristic, the PSS may decide to ignore it, or to accept and visualize it as-is for the customer without further handling.

The following subsections describe the set of resource, service and product types that were analysed in the course of the project. While these are not part of the standard per se, it is sensible for most systems to support them.

2.4.1 Examples

The following examples show different scenarios of how features and characteristics can be used in three phases of the service lifecycle:

- 1. The customer inquiry,
- 2. the response with matching specifications from the catalog and
- 3. the actual service implementation which is stored in the inventory.

They are structured according to the "Commission Implementing Decision (EU) 2023/1054", which defines the service portfolio of the Union Space Programme, and covers the service layers L0 - L2.

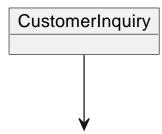
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2.4.1.1 Raw Bandwidth (L0)

Inquiry:



InquiredProduct: Bandwidth at Location XY		
targetEntityType	BandwidthProduct	
servicePeriod	07/2023 to 08/2023	
frequencyBand	С	
allocatedBandwidth	>= 5 MHz	
uplinkFrequencyStart	4 GHz	
uplinkFrequencyEnd	8 GHz	
uplinkGeometry	{ "type": "", "coordinates": [] }	
downlinkFrequencyStart	4 GHz	
downlinkFrequencyEnd	8 GHz	
downlinkGeometry	{ "type": "", "coordinates": [] }	

Figure 2.2: Example Inquiry for Raw Bandwidth

Results:

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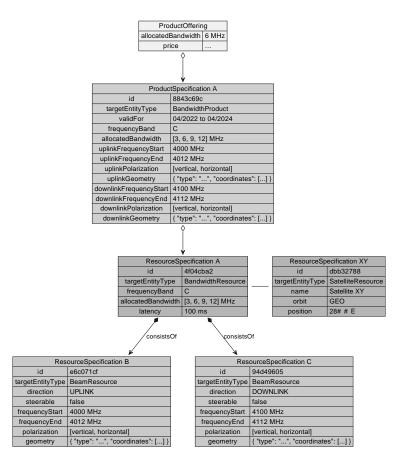


Figure 2.3: Example Results for Raw Bandwidth

Implementation:

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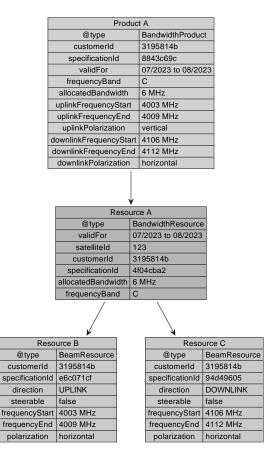


Figure 2.4: Example Inventory for Raw Bandwidth

Note that the geometry is deliberately not copied to the resource instances in this example. Since the beams are not steerable, copying this information would most probably not add any value. The implementation may choose to do so if justified, e.g. to track the actual configuration of steerable beams.

2.4.1.2 Anchoring Capacity (L1)

Inquiry:

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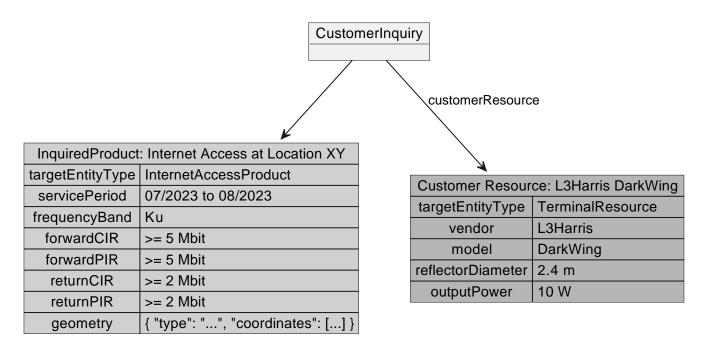


Figure 2.5: Example Inquiry for Anchoring Capacity

Results:

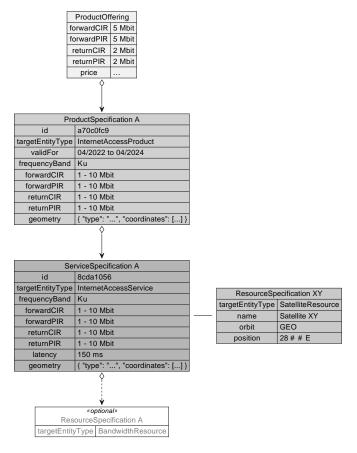


Figure 2.6: Example Results for Anchoring Capacity

Implementation:

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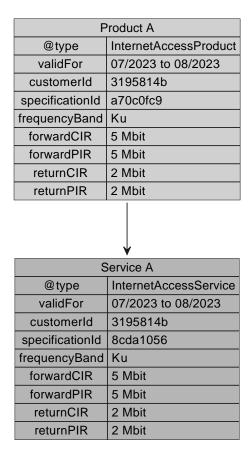


Figure 2.7: Example Inventory for Anchoring Capacity

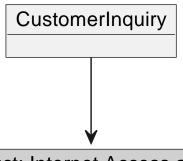
2.4.1.3 End-to-End Service (L2)

Inquiry:

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InquiredProduct: Internet Access at Location XY			
targetEntityType	InternetAccessProduct		
servicePeriod	07/2023 to 08/2023		
frequencyBand	Ku		
forwardCIR	>= 5 Mbit		
forwardPIR	>= 5 Mbit		
returnCIR	>= 2 Mbit		
returnPIR	>= 2 Mbit		
geometry	{ "type": "", "coordinates": [] }		

Figure 2.8: Example Inquiry for End-to-End Service

Results:

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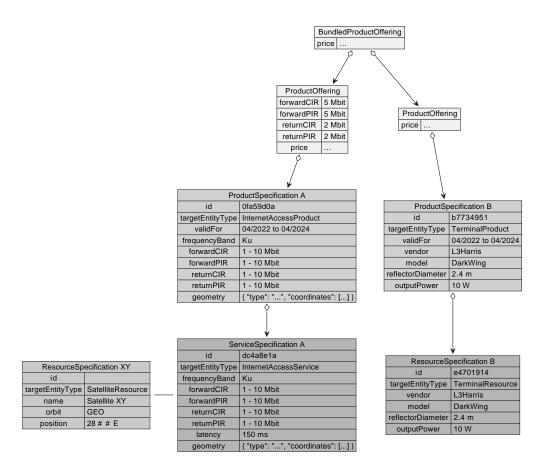


Figure 2.9: Example Results for End-to-End Service

Implementation:

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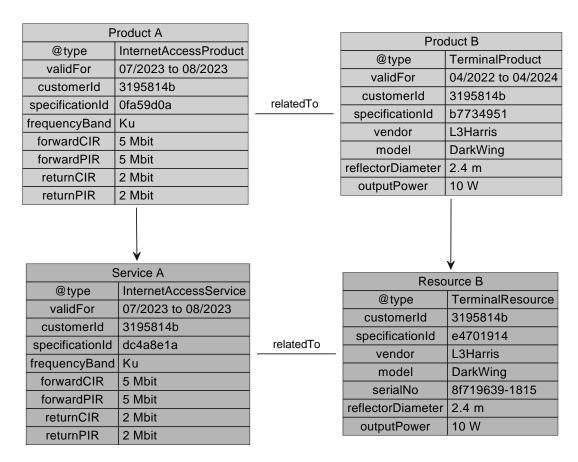


Figure 2.10: Example Inventory for End-to-End Service

2.4.1.4 Multi-Product Request

An inquiry can contain multiple product requests at the same time. This can be used to either request different services that may be cheaper when bought as a package, or to describe varying communication needs in the course of a mission. The following example combines both cases: the mission starts with only one end-to-end service with low information rate, then increases it and adds additional raw bandwidth.

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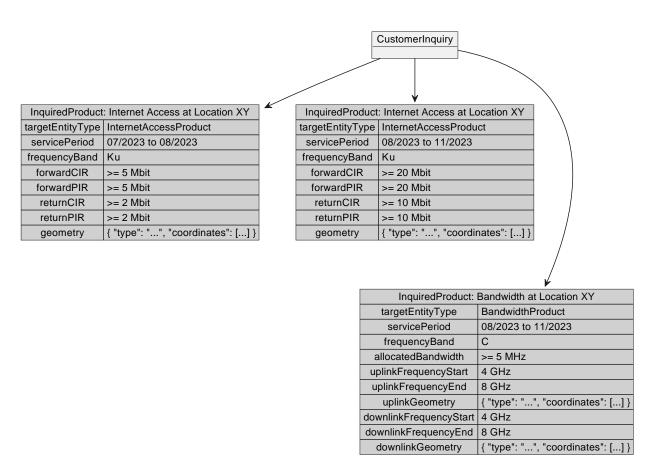


Figure 2.11: Example Of A Customer Inquiry of Internet Access / Bandwidth

The result of this inquiry is a combination of the results above and therefore not shown. Depending on the capabilities of the matchmaking, the internet access can be fulfilled by just one provider that is able to upgrade the active service, or it could offer two services possibly by different providers. The BandwidthProduct result is likely to be independent, but could also be bundled with the other two.

2.4.2 JSON Schemas

The following example demonstrates the structure of a JSON Schema. Apart from the identifier and description, the main content is the list of properties. Each one is defined by its name and type, and can be further qualified with value constraints and whether they are required. Lastly, they typically share all basic properties with the underlying entity, which is the Service in this case.

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	JSON Schema: InternetAccessService					
\$schema	http://json-schema.org/draft-07/schema#					
\$id	InternetAccessService.schema.json					
title	InternetAccessS	Service				
description	Describes a ser	vice tha	at pro	vides internet access via satellites.		
allOf	\$ref Service.sc	hema.j	son#S	Service		
properties	frequencyBand	type	strin	g		
		enum	Р			
			L			
			S			
			С			
			Χ			
			KA			
			MILI	<a .<="" td="">		
		KU				
	forwardCIR	type default		integer		
				0		
		description		Measured in kbps		
	forwardPIR	type		integer		
		descri	ption	Measured in kbps		
	returnCIR	type		integer		
		defaul	-	0		
		descri	ption	Measured in kbps		
	returnPIR	type		integer		
		_	ption	Measured in kbps		
	latency	type		integer		
		<u> </u>		Measured in ms		
	geometry		object			
		\$ref	f https://geojson.org/schema/FeatureCollection.json			
required	frequencyBand					
	forwardPIR					
	returnPIR					

Figure 2.12: JSON Schema for InternetAccessService

More example schemas (including space assets and user terminals) can be found in [PSI-ICD-Annex-II] of this document. They are extracted from the prototype, which was designed based on input of different providers.

2.4.3 Integration of Service Monitoring Specification into Performance Monitoring API

The performance Monitoring API delivered by the PSS API is a generic envelope that allows for the lifecycle management of relevant performance monitoring objects. The API itself does not provide explicit definitions for configuring performance monitoring or prescribing the structure of output data. However, it offers flexible extensibility to accommodate the configuration of service-specific performance objectives and results. This allows for customization and adaptation to various monitoring requirements and desired data formats. These monitoring configuration and result schemas can be defined using the JsonSchema (draft 7) format and can be integrated into the PerformanceJob and PerformanceReport using the TMF extension pattern. The extension hosting types in the API data model are:

- ServicePayloadSpecificAttributes this type is extended with the Service monitoring configuration schema which typically contains information about the subject of the monitoring (i.e., service) and key indicators that need to be measured
- ResultPayload this type is extended with a Service monitoring result schema which defines the structure of performance monitoring data returned by the provider

Selection of the appropriate schema for the extension points is done by providing the @type attribute which must be set to a value that uniquely identifies the service monitoring configuration. This identifier is provided as root schema \$id and must be agreed upon between the PSS and service provider.

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PSS implementation might opt to integrate the selected performance monitoring specifications into the data model during development. In such a case an integrated data model is built and monitoring specifications are in an inheritance relationship according to either ServicePayloadSpecificAttributes or ResultPayload as described in the OAS specification. This pattern is called Static Binding. The snippets below present an example of a static binding of the envelope API based on an exemplary MEF monitoring specifications, for both extension points.

```
ServicePayloadSpecificAttributes:
 type: object
 description: ServicePayloadSpecificAttributes is used as an extension point
   for MEF specific service performance monitoring configuration. It includes
   definition of service/entity and applicable performance monitoring objectives.
   The '0type' attribute is used as a discriminator
 discriminator:
   mapping:
     urn:mef:lso:spec:legato:ip-performance-monitoring-configuration:v0.0.1:all: '#/components/schemas/
          IpPerformanceMonitoringConfiguration'
   propertyName: '@type'
 properties:
   '@type':
     type: string
     description:
       The name that uniquely identifies type of performance monitoring configuration
       that specifies PM objectives. In case of MEF services this is the URN \,
        provided in performance monitoring configuration specification.
        The named type must be a subclass of ServicePayloadSpecificAttributes.
```

```
IpPerformanceMonitoringConfiguration:
   allof:
    - $ref: '#/components/schemas/ServicePayloadSpecificAttributes'
    - type: object
    description: IP Performance Monitoring Configuration Schema.
```

```
ResultPayload:
 type: object
 description:
   ResultPayload is used as an extension point for MEF specific service
   performance monitoring results. The '@type' attribute is used as a discriminator
   mapping:
     urn:mef:lso:spec:legato:ip-performance-monitoring-results:v0.0.1:all: '#/components/schemas/
         IpPerformanceMonitoringResults'
   propertyName: '@type'
 properties:
   '@type':
     type: string
     description:
       The name that uniquely identifies type of performance monitoring
       results that are returned by the Performance Report. In case of MEF services this
       is the URN provided in performance monitoring results specification.
       The named type must be a subclass of ResultPayload.
```

```
IpPerformanceMonitoringResults:
   allOf:
    - $ref: '#/components/schemas/ResultPayload'
    - type: object
    description: IP Performance Monitoring Results Schema.
```

The following figure presents two MEF performance monitoring schemas that represent configuration and result classes for IP services. When these schemas are used, the @type of ServicePayloadSpecificAttributes takes

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the "urn:mef:lso:spec:legato:ip-performancemonitoring-configuration:v0.0.1:all" value to indicate which performance specification should be used to interpret a set of service-specific attributes included in the payload. Similarly, for ResultPayload, the @type attribute takes "urn:mef:lso:spec:legato:ip-performancemonitoring-results:v0.0.1:all" value which indicates how the resulting performance collection should be interpreted.

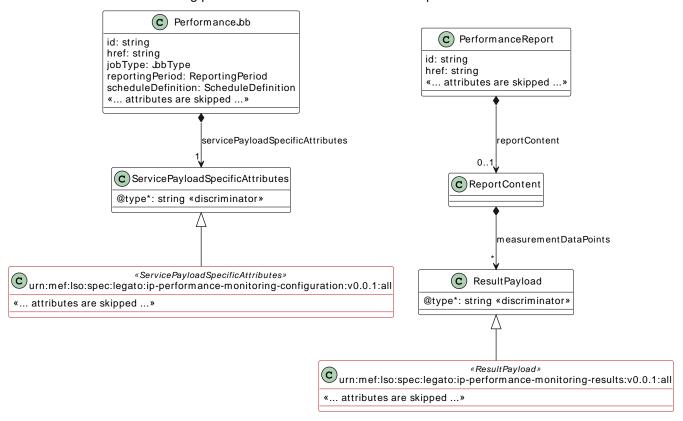


Figure 2.13: Performance Monitoring.

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3 REST APIs

3.1 alarm (/alarm)

Alarm API

3.1.1 **GET** /alarm

Absolute Path: /alarm/v1/alarm

Summary: List or find Alarm objects

3.1.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.1: Parameters of GET alarm.

3.1.1.2 Responses

Code	Description	Content
200	Success	Alarm
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.2: Responses of GET alarm.

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3.1.2 GET /alarm/{id}

Absolute Path: /alarm/v1/alarm/{id}
Summary: Retrieves a Alarm by ID

3.1.2.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Alarm
fields	string	No	Comma-separated properties to provide in response

Table 3.3: Parameters of GET alarm/{id}.

3.1.2.2 Responses

Code	Description	Content
200	Success	Alarm
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.4: Responses of GET alarm/{id}.

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3.2 attachment (/documentManagement)

Attachment Management API

3.2.1 GET /document/{documentId}/attachment

Absolute Path: /documentManagement/v1/document/{documentId}/attachment

TOD Reference: TOD-01-03-10-View_All_Attachments

Summary: List or find Attachment objects

3.2.1.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	The identifier of the Document.
fields	string	No	Comma-separated properties to be provided in response.

Table 3.5: Parameters of GET document/{documentId}/attachment.

3.2.1.2 Responses

Code	Description	Content
200	Success	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.6: Responses of GET document/{documentId}/attachment.

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3.2.2 POST /document/{documentId}/attachment

Absolute Path: /documentManagement/v1/document/{documentId}/attachment

TOD Reference: TOD-01-03-06-Create_Attachment

Summary: Creates an Attachment

3.2.2.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	The identifier of the Document.

Table 3.7: Parameters of POST document/{documentId}/attachment.

3.2.2.2 Request Body

Content Type	Reference
multipart/form-data	Attachment_Create
application/json;charset=utf-8	Attachment_Create

Table 3.8: Request Body of POST document/{documentId}/attachment.

3.2.2.3 Responses

Code	Description	Content
201	Created	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.9: Responses of POST document/{documentId}/attachment.

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3.2.3 GET /document/{documentId}/attachment/{attachmentId}

Absolute Path: /document/Management/v1/document/{documentId}/attachment/{attachmentId}

TOD Reference: TOD-01-03-09-View_Attachment

Summary: Retrieves an Attachment by ID

3.2.3.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	The identifier of the Document.
attachmentId	string	Yes	The identifier of the Attachment.
fields	string	No	Comma-separated properties to provide in response.

Table 3.10: Parameters of GET document/{documentId}/attachment/{attachmentId}.

3.2.3.2 Responses

Code	Description	Content
200	Success	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.11: Responses of GET document/{documentId}/attachment/{attachmentId}.

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3.2.4 DELETE /document/{documentId}/attachment/{attachmentId}

Absolute Path: /document/Management/v1/document/{documentId}/attachment/{attachmentId}

TOD Reference: TOD-01-03-08-Remove_Attachment

Summary: Deletes an Attachment

3.2.4.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	Identifier of the document.
attachmentId	string	Yes	Identifier of the attachment.

Table 3.12: Parameters of DELETE document/{documentId}/attachment/{attachmentId}.

3.2.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.13: Responses of DELETE document/{documentId}/attachment/{attachmentId}.

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3.2.5 PATCH /document/{documentId}/attachment/{attachmentId}

Absolute Path: /document/Management/v1/document/{documentId}/attachment/{attachmentId}

TOD Reference: TOD-01-03-07-Update_Attachment

Summary: Updates an Attachment

3.2.5.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	The identifier of the document.
attachmentId	string	Yes	The identifier of the attachment.

Table 3.14: Parameters of PATCH document/{documentId}/attachment/{attachmentId}.

3.2.5.2 Request Body

Content Type	Reference
multipart/form-data	Attachment_Update
application/json;charset=utf-8	Attachment_Update

Table 3.15: Request Body of PATCH document/{documentId}/attachment/{attachmentId}.

3.2.5.3 Responses

Code	Description	Content
200	Updated	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.16: Responses of PATCH document/{documentId}/attachment/{attachmentId}.

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3.2.6 GET /document/{documentId}/attachment/{attachmentId}/content

Absolute Path: /document/Management/v1/document/{documentId}/attachment/{attachmentId}/content

TOD Reference: TOD-01-03-11-Fetch_Attachment_Content

Summary: Retrieves an Attachment content by ID

3.2.6.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	The identifier of the Document.
attachmentId	string	Yes	The identifier of the Attachment.

Table 3.17: Parameters of GET document/{documentId}/attachment/{attachmentId}/content.

3.2.6.2 Responses

Code	Description	Content
200	Success	binary
302	Found	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.18: Responses of GET document/{documentId}/attachment/{attachmentId}/content.

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3.2.7 PUT /document/{documentId}/attachment/{attachmentId}/content

Absolute Path: /document/Management/v1/document/{documentId}/attachment/{attachmentId}/content

TOD Reference: TOD-01-03-12-Update_Attachment_Content

Summary: Updates the content of an Attachment

3.2.7.1 Parameters

Name	Туре	Required	Description
documentId	string	Yes	Identifier of the Document
attachmentId	string	Yes	Identifier of the Attachment

Table 3.19: Parameters of PUT document/{documentId}/attachment/{attachmentId}/content.

3.2.7.2 Request Body

Content Type	Reference
/	binary

Table 3.20: Request Body of PUT document/{documentId}/attachment/{attachmentId}/content.

3.2.7.3 Responses

Code	Description	Content
200	Updated	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.21: Responses of PUT document/{documentId}/attachment/{attachmentId}/content.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.3 cancelPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

3.3.1 GET /cancelPerformanceJob

Absolute Path: /performanceMonitoring/v1/cancelPerformanceJob

Summary: Lists or finds CancelPerformanceJob objects.

3.3.1.1 Parameters

Name	Туре	Required	Description
performanceJobId	string	No	Identifer of Performance Job that is a subject of CancelPerformanceJob.
state	string	No	State of CancelPerformanceJob. See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the CancelPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the CancelPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.22: Parameters of GET cancelPerformanceJob.

3.3.1.2 Responses

Code	Description	Content
200	Success	CancelPerformanceJob_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Ref: PSI-ICD

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Code	Description	Content
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Table 3.23: Responses of GET cancelPerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.3.2 POST /cancelPerformanceJob

Absolute Path: /performanceMonitoring/v1/cancelPerformanceJob

TOD Reference: TOD-06-04-03-Cancel_Performance_Monitoring_Job

3.3.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	CancelPerformanceJob_Create

Table 3.24: Request Body of POST cancelPerformanceJob.

3.3.2.2 Responses

Code	Description	Content
201	Created	CancelPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.25: Responses of POST cancelPerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.3.3 GET /cancelPerformanceJob/{id}

Absolute Path: /performanceMonitoring/v1/cancelPerformanceJob/{id}

Summary: Retrieves a CancelPerformanceJob by ID.

3.3.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CancelPerformanceJob

Table 3.26: Parameters of GET cancelPerformanceJob/{id}.

3.3.3.2 Responses

Code	Description	Content
200	Success	CancelPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.27: Responses of GET cancelPerformanceJob/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.4 checkProductStock (/stock)

Stock Check API

3.4.1 POST /checkProductStock

Absolute Path: /stock/v1/checkProductStock

TOD Reference: TOD-05-04-01-Check_Product_Stock

Summary: Creates a CheckProductStock

3.4.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	CheckProductStock_Create

Table 3.28: Request Body of POST checkProductStock.

3.4.1.2 Responses

Code	Description	Content
200	Sucess	CheckProductStock
201	Created	CheckProductStock
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.29: Responses of POST checkProductStock.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.4.2 GET /checkProductStock/{id}

Absolute Path: /stock/v1/checkProductStock/{id}

TOD Reference: TOD-05-04-01-Check_Product_Stock

Summary: Retrieves a CheckProductStock by ID

3.4.2.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CheckProductStock
fields	string	No	Comma-separated properties to provide in response

Table 3.30: Parameters of GET checkProductStock/{id}.

3.4.2.2 Responses

Code	Description	Content
200	Success	CheckProductStock
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.31: Responses of GET checkProductStock/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.5 customerBill (/customerBillManagement)

Customer Bill Management API

3.5.1 GET /customerBill

Absolute Path: /customerBillManagement/v1/customerBill **TOD Reference:** TOD-03-03-04-View_All_Customer_Bills

Summary: List or find CustomerBill objects

3.5.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.32: Parameters of GET customerBill.

3.5.1.2 Responses

Code	Description	Content
200	Success	CustomerBill
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.33: Responses of GET customerBill.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.5.2 POST /customerBill

Absolute Path: /customerBillManagement/v1/customerBill

TOD Reference: TOD-03-03-01-Create_Customer_Bill

Summary: Creates a CustomerBill

3.5.2.1 Request Body

(Content Type	Reference
	application/json;charset=utf-8	CustomerBill_Create

Table 3.34: Request Body of POST customerBill.

3.5.2.2 Responses

Code	Description	Content
201	Created	CustomerBill
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.35: Responses of POST customerBill.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.5.3 GET /customerBill/{id}

Absolute Path: /customerBillManagement/v1/customerBill/{id}

TOD Reference: TOD-03-03-03-View_Customer_Bill

Summary: Retrieves a CustomerBill by ID

3.5.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CustomerBill
fields	string	No	Comma-separated properties to provide in response

Table 3.36: Parameters of GET customerBill/{id}.

3.5.3.2 Responses

Code	Description	Content
200	Success	CustomerBill
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.37: Responses of GET customerBill/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.5.4 DELETE /customerBill/{id}

Absolute Path: /customerBillManagement/v1/customerBill/{id}

TOD Reference: TOD-03-03-05-Withdraw_Customer_Bill

Summary: Withdraw a CustomerBill

3.5.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	The identifier of the CustomerBill.

Table 3.38: Parameters of DELETE customerBill/{id}.

3.5.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.39: Responses of DELETE customerBill/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.5.5 PATCH /customerBill/{id}

Absolute Path: /customerBillManagement/v1/customerBill/{id}

TOD Reference: TOD-03-03-02-Update_Customer_Bill

Summary: Updates partially a CustomerBill

3.5.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CustomerBill

Table 3.40: Parameters of PATCH customerBill/{id}.

3.5.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	CustomerBill_Update

Table 3.41: Request Body of PATCH customerBill/{id}.

3.5.5.3 Responses

Code	Description	Content
200	Updated	CustomerBill
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.42: Responses of PATCH customerBill/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.6 customerInquiry (/customerInquiry)

Customer Inquiry API

3.6.1 POST /customerInquiry

Absolute Path: /customerInquiry/v1/customerInquiry

TOD Reference: TOD-03-01-01-Create_Customer_Inquiry

Summary: Creates a CustomerInquiry

3.6.1.1 Request Body

Content Type	Reference
application/json	CustomerInquiry_Create

Table 3.43: Request Body of POST customerInquiry.

3.6.1.2 Responses

Code	Description	Content
202	Accepted	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.44: Responses of POST customerInquiry.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.6.2 GET /customerInquiry/{id}

Absolute Path: /customerInquiry/v1/customerInquiry/{id} **TOD Reference:** TOD-03-01-02-View_Customer_Inquiry

Summary: Retrieves a CustomerInquiry

3.6.2.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.45: Parameters of GET customerInquiry/{id}.

3.6.2.2 Responses

Code	Description	Content
200	ОК	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.46: Responses of GET customerInquiry/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.6.3 DELETE /customerInquiry/{id}

Absolute Path: /customerInquiry/v1/customerInquiry/{id}

TOD Reference: TOD-03-01-05-Cancel_Customer_Inquiry

Summary: Cancels a CustomerInquiry

3.6.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.47: Parameters of DELETE customerInquiry/{id}.

3.6.3.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.48: Responses of DELETE customerInquiry/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.6.4 PATCH /customerInquiry/{id}

Absolute Path: /customerInquiry/v1/customerInquiry/{id}

TOD Reference: TOD-03-01-04-Update_Customer_Inquiry

Summary: Updates partially a CustomerInquiry

3.6.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.49: Parameters of PATCH customerInquiry/{id}.

3.6.4.2 Request Body

Content Type	Reference
application/json	CustomerInquiry_Update

Table 3.50: Request Body of PATCH customerInquiry/{id}.

3.6.4.3 Responses

Code	Description	Content
202	Update Accepted	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.51: Responses of PATCH customerInquiry/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.6.5 GET /customerInquiry/{id}/results

Absolute Path: /customerInquiry/v1/customerInquiry/{id}/results

TOD Reference: TOD-03-01-03-View_Inquiry_Results

Summary: Retrieves the InquiryResults matching the CustomerInquiry

3.6.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the CustomerInquiry
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.52: Parameters of GET customerInquiry/{id}/results.

3.6.5.2 Responses

Code	Description	Content
200	Success	InquiryResult
204	No content can be provided, because the inquiry is not yet processed.	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.53: Responses of GET customerInquiry/{id}/results.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.7 document (/documentManagement)

Document Management API

3.7.1 GET /document

Absolute Path: /documentManagement/v1/document **TOD Reference:** TOD-01-03-05-View_All_Documents

Summary: List or find Document objects

3.7.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.54: Parameters of GET document.

3.7.1.2 Responses

Code	Description	Content
200	Success	Document
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.55: Responses of GET document.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.7.2 POST /document

Absolute Path: /documentManagement/v1/document **TOD Reference:** TOD-01-03-01-Create_Document

Summary: Creates a Document

3.7.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Document_Create

Table 3.56: Request Body of POST document.

3.7.2.2 Responses

Code	Description	Content
201	Created	Document
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.57: Responses of POST document.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.7.3 GET /document/{id}

Absolute Path: /documentManagement/v1/document/{id}

TOD Reference: TOD-01-03-04-View_Document

Summary: Retrieves a Document by ID

3.7.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Document
fields	string	No	Comma-separated properties to provide in response

Table 3.58: Parameters of GET document/{id}.

3.7.3.2 Responses

Code	Description	Content
200	Success	Document
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.59: Responses of GET document/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.7.4 DELETE /document/{id}

Absolute Path: /documentManagement/v1/document/{id}

TOD Reference: TOD-01-03-03-Remove_Document

Summary: Deletes a Document

3.7.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Document

Table 3.60: Parameters of DELETE document/{id}.

3.7.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.61: Responses of DELETE document/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.7.5 PATCH /document/{id}

Absolute Path: /document/Management/v1/document/{id}

TOD Reference: TOD-01-03-02-Update_Document

Summary: Updates partially a Document

3.7.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Document

Table 3.62: Parameters of PATCH document/{id}.

3.7.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Document_Update

Table 3.63: Request Body of PATCH document/{id}.

3.7.5.3 Responses

Code	Description	Content
200	Updated	Document
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.64: Responses of PATCH document/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.8 hub (/eventManagement)

Event Hub API

3.8.1 GET /topic

Absolute Path: /eventManagement/v1/topic

TOD Reference: TOD-01-02-01-View_Event_Topics

Summary: List or find Topic objects

3.8.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.65: Parameters of GET topic.

3.8.1.2 Responses

Code	Description	Content
200	Success	Topic
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.66: Responses of GET topic.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.8.2 GET /topic/{topicId}/hub

Absolute Path: /eventManagement/v1/topic/{topicId}/hub

Summary: List or find Hub subscription objects

3.8.2.1 Parameters

Name	Туре	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.67: Parameters of GET topic/{topicId}/hub.

3.8.2.2 Responses

Code	Description	Content
200	Success	HubSubscription
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.68: Responses of GET topic/{topicId}/hub.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.8.3 POST /topic/{topicId}/hub

Absolute Path: /eventManagement/v1/topic/{topicId}/hub **TOD Reference:** TOD-01-02-02-Register_Event_Callback

Summary: Register listener to a Hub

3.8.3.1 Parameters

Name	Туре	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity

Table 3.69: Parameters of POST topic/{topicId}/hub.

3.8.3.2 Request Body

Content Type	Reference
application/json;charset=utf-8	HubSubscription_Create

Table 3.70: Request Body of POST topic/{topicId}/hub.

3.8.3.3 Responses

Code	Description	Content
201	Created	HubSubscription
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.71: Responses of POST topic/{topicId}/hub.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.8.4 DELETE /topic/{topicId}/hub/{id}

Absolute Path: /eventManagement/v1/topic/{topicId}/hub/{id} **TOD Reference:** TOD-01-02-04-Deregister_Event_Callback

Summary: Unregister listener from a Hub

3.8.4.1 Parameters

Name	Туре	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
id	string	Yes	Identifier of the Hub

Table 3.72: Parameters of DELETE topic/{topicId}/hub/{id}.

3.8.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.73: Responses of DELETE topic/{topicId}/hub/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.9 individual (/partyManagement)

Individual API

3.9.1 GET /individual

Absolute Path: /partyManagement/v1/individual

TOD Reference: TOD-01-01-05-View_All_Party_Profiles

Summary: List or find Individual objects

3.9.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.74: Parameters of GET individual.

3.9.1.2 Responses

Code	Description	Content
200	Success	Individual
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.75: Responses of GET individual.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.9.2 POST /individual

Absolute Path: /partyManagement/v1/individual

TOD Reference: TOD-01-01-01-Create_Party_Profile

Summary: Creates a Individual

3.9.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Individual_Create

Table 3.76: Request Body of POST individual.

3.9.2.2 Responses

Code	Description	Content
201	Created	Individual
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.77: Responses of POST individual.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.9.3 GET /individual/{id}

Absolute Path: /partyManagement/v1/individual/{id} **TOD Reference:** TOD-01-01-04-View_Party_Profile

Summary: Retrieves a Individual by ID

3.9.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Individual
fields	string	No	Comma-separated properties to provide in response

Table 3.78: Parameters of GET individual/{id}.

3.9.3.2 Responses

Code	Description	Content
200	Success	Individual
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.79: Responses of GET individual/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.9.4 DELETE /individual/{id}

Absolute Path: /partyManagement/v1/individual/{id}

TOD Reference: TOD-01-01-03-Remove_Party_Profile

Summary: Deletes a Individual

3.9.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Individual

Table 3.80: Parameters of DELETE individual/{id}.

3.9.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.81: Responses of DELETE individual/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.9.5 PATCH /individual/{id}

Absolute Path: /partyManagement/v1/individual/{id} **TOD Reference:** TOD-01-01-02-Update_Party_Profile

Summary: Updates partially a Individual

3.9.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Individual

Table 3.82: Parameters of PATCH individual/{id}.

3.9.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Individual_Update

Table 3.83: Request Body of PATCH individual/{id}.

3.9.5.3 Responses

Code	Description	Content
200	Updated	Individual
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.84: Responses of PATCH individual/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.10 keyIndicator (/serviceQuality)

Key Indicator API

3.10.1 GET /keyIndicator

Absolute Path: /serviceQuality/v1/keyIndicator

TOD Reference: TOD-06-03-05-View_All_Key_Indicator

Summary: List or find KeyIndicator objects

3.10.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.85: Parameters of GET keyIndicator.

3.10.1.2 Responses

Code	Description	Content
200	Success	KeyIndicator
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.86: Responses of GET keyIndicator.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.10.2 POST /keyIndicator

Absolute Path: /serviceQuality/v1/keyIndicator

TOD Reference: TOD-06-03-01-Create_Key_Indicator

Summary: Creates a KeyIndicator

3.10.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	KeyIndicator_Create

Table 3.87: Request Body of POST keyIndicator.

3.10.2.2 Responses

Code	Description	Content
201	Created	KeyIndicator
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.88: Responses of POST keyIndicator.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.10.3 GET /keyIndicator/{id}

Absolute Path: /serviceQuality/v1/keyIndicator/{id} **TOD Reference:** TOD-06-03-04-View_Key_Indicator

Summary: Retrieves a KeyIndicator by ID

3.10.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.89: Parameters of GET keyIndicator/{id}.

3.10.3.2 Responses

Code	Description	Content
200	Success	KeyIndicator
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.90: Responses of GET keyIndicator/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.10.4 DELETE /keyIndicator/{id}

Absolute Path: /serviceQuality/v1/keyIndicator/{id}

TOD Reference: TOD-06-03-03-Remove_Key_Indicator

Summary: Deletes a KeyIndicator

3.10.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.91: Parameters of DELETE keyIndicator/{id}.

3.10.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.92: Responses of DELETE keyIndicator/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.10.5 PATCH /keyIndicator/{id}

Absolute Path: /serviceQuality/v1/keyIndicator/{id}

TOD Reference: TOD-06-03-02-Update_Key_Indicator

Summary: Updates partially a KeyIndicator

3.10.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.93: Parameters of PATCH keyIndicator/{id}.

3.10.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	KeyIndicator_Update

Table 3.94: Request Body of PATCH keyIndicator/{id}.

3.10.5.3 Responses

Code	Description	Content
200	Updated	KeyIndicator
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.95: Responses of PATCH keyIndicator/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.11 listener (/eventManagement)

Event Listener API

3.11.1 GET /topic/{topicId}/event

Absolute Path: /eventManagement/v1/topic/{topicId}/event

Summary: List or find Event objects

3.11.1.1 Parameters

Name	Туре	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.96: Parameters of GET topic/{topicId}/event.

3.11.1.2 Responses

Code	Description	Content
200	Success	Event
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.97: Responses of GET topic/{topicId}/event.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.11.2 POST /topic/{topicId}/event

Absolute Path: /eventManagement/v1/topic/{topicId}/event

TOD Reference: TOD-01-02-03-Dispatch_Event

Summary: Creates a Event

3.11.2.1 Parameters

Name	Туре	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity

Table 3.98: Parameters of POST topic/{topicId}/event.

3.11.2.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Event_Create

Table 3.99: Request Body of POST topic/{topicId}/event.

3.11.2.3 Responses

Code	Description	Content
201	Created	Event
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.100: Responses of POST topic/{topicId}/event.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.12 mission (/missionManagement)

Mission API

3.12.1 GET/mission

Absolute Path: /missionManagement/v1/mission **TOD Reference:** TOD-03-04-05-View_All_Missions

Summary: List or find Mission objects

3.12.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.101: Parameters of GET mission.

3.12.1.2 Responses

Code	Description	Content
200	Success	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.102: Responses of GET mission.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.12.2 POST /mission

Absolute Path: /missionManagement/v1/mission **TOD Reference:** TOD-03-04-01-Create_Mission

Summary: Creates a Mission

3.12.2.1 Request Body

Content Type	Reference
application/json	Mission_Create

Table 3.103: Request Body of POST mission.

3.12.2.2 Responses

Code	Description	Content
202	Accepted	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.104: Responses of POST mission.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.12.3 GET /mission/{id}

Absolute Path: /missionManagement/v1/mission/{id}

TOD Reference: TOD-03-04-04-View_Mission

Summary: Retrieves a Mission

3.12.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Mission
fields	string	No	Comma-separated properties to provide in response

Table 3.105: Parameters of GET mission/{id}.

3.12.3.2 Responses

Code	Description	Content
200	ОК	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.106: Responses of GET mission/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.12.4 DELETE /mission/{id}

Absolute Path: /missionManagement/v1/mission/{id}

TOD Reference: TOD-03-04-03-Remove_Mission

Summary: Deletes a Mission

3.12.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Mission

Table 3.107: Parameters of DELETE mission/{id}.

3.12.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.108: Responses of DELETE mission/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.12.5 PATCH /mission/{id}

Absolute Path: /missionManagement/v1/mission/{id}

TOD Reference: TOD-03-04-02-Update_Mission

Summary: Updates partially a Mission

3.12.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Mission

Table 3.109: Parameters of PATCH mission/{id}.

3.12.5.2 Request Body

Content Type	Reference
application/json	Mission_Update

Table 3.110: Request Body of PATCH mission/{id}.

3.12.5.3 Responses

Code	Description	Content
202	Update Accepted	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.111: Responses of PATCH mission/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.13 modifyPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

3.13.1 GET /modifyPerformanceJob

Absolute Path: /performanceMonitoring/v1/modifyPerformanceJob

Summary: Lists or finds ModifyPerformanceJob objects.

3.13.1.1 Parameters

Name	Туре	Required	Description
performanceJobId	string	No	Identifer of Performance Job that is a subject of ModifyPerformanceJob.
state	string	No	State of ModifyPerformanceJob See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the ModifyPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the ModifyPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.112: Parameters of GET modifyPerformanceJob.

3.13.1.2 Responses

Code	Description	Content
200	Success	ModifyPerformanceJob_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Ref: PSI-ICD

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Code	Description	Content
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Table 3.113: Responses of GET modifyPerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.13.2 POST /modifyPerformanceJob

Absolute Path: /performanceMonitoring/v1/modifyPerformanceJob

TOD Reference: TOD-06-04-02-Update_Performance_Monitoring_Job

3.13.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ModifyPerformanceJob_Create

Table 3.114: Request Body of POST modifyPerformanceJob.

3.13.2.2 Responses

Code	Description	Content
201	Created	ModifyPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.115: Responses of POST modifyPerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.13.3 GET /modifyPerformanceJob/{id}

Absolute Path: /performanceMonitoring/v1/modifyPerformanceJob/{id}

Summary: Retrieves a ModifyPerformanceJob by ID.

3.13.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ModifyPerformanceJob

Table 3.116: Parameters of GET modifyPerformanceJob/{id}.

3.13.3.2 Responses

Code	Description	Content
200	Success	ModifyPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.117: Responses of GET modifyPerformanceJob/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.14 organization (/partyManagement)

Organization API

3.14.1 GET /organization

Absolute Path: /partyManagement/v1/organization

TOD Reference: TOD-01-01-05-View_All_Party_Profiles

Summary: List or find Organization objects

3.14.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.118: Parameters of GET organization.

3.14.1.2 Responses

Code	Description	Content
200	Success	Organization
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.119: Responses of GET organization.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.14.2 POST /organization

Absolute Path: /partyManagement/v1/organization **TOD Reference:** TOD-01-01-01-Create_Party_Profile

Summary: Creates a Organization

3.14.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Organization_Create

Table 3.120: Request Body of POST organization.

3.14.2.2 Responses

Code	Description	Content
201	Created	Organization
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.121: Responses of POST organization.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.14.3 GET /organization/{id}

Absolute Path: /partyManagement/v1/organization/{id}

TOD Reference: TOD-01-01-04-View_Party_Profile

Summary: Retrieves a Organization by ID

3.14.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Organization
fields	string	No	Comma-separated properties to provide in response

Table 3.122: Parameters of GET organization/{id}.

3.14.3.2 Responses

Code	Description	Content
200	Success	Organization
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.123: Responses of GET organization/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.14.4 DELETE /organization/{id}

Absolute Path: /partyManagement/v1/organization/{id} **TOD Reference:** TOD-01-01-03-Remove_Party_Profile

Summary: Deletes a Organization

3.14.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Organization

Table 3.124: Parameters of DELETE organization/{id}.

3.14.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.125: Responses of DELETE organization/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.14.5 PATCH /organization/{id}

Absolute Path: /partyManagement/v1/organization/{id} **TOD Reference:** TOD-01-01-02-Update_Party_Profile

Summary: Updates partially a Organization

3.14.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Organization

Table 3.126: Parameters of PATCH organization/{id}.

3.14.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Organization_Update

Table 3.127: Request Body of PATCH organization/{id}.

3.14.5.3 Responses

Code	Description	Content
200	Updated	Organization
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.128: Responses of PATCH organization/{id}.

Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.15 performanceJob (/performanceMonitoring)

Performance Monitoring Job API

3.15.1 GET /performanceJob

Absolute Path: /performanceMonitoring/v1/performanceJob

TOD Reference: TOD-06-04-05-View_All_Performance_Monitoring_Job

Summary: List or find Performance Job objects.

3.15.1.1 Parameters

Name	Туре	Required	Description
buyerJobld	string	No	Identifier assigned and understandable by Buyer/Client to facilitate search requests.
state	string	No	State of the Performance Job. See PerformanceJobStateType definition for details.
creationDate.gt	string	No	Date when the job was created - greater than.
creationDate.lt	string	No	Date when the job was created - lower than.
jobType	null	No	Type of the Performance Job
granularity	null	No	Sampling rate of the collection of measurements.
reportingPeriod	null	No	Definition of time period during which report will be active and collect measurements.
consumingApplica- tionId	string	No	Identifier of consuming application.
producingApplicationId	string	No	Identifier of producing application.
jobPriority	string	No	The priority of the Performance Job.
offset	integer	No	Requested index for start of item to be provided in response requested by the client. Note that the index starts with "0".
limit	integer	No	Requested number of resources to be provided in response.

Table 3.129: Parameters of GET performanceJob.

3.15.1.2 Responses

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceJob_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500

Table 3.130: Responses of GET performanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.15.2 POST /performanceJob

Absolute Path: /performanceMonitoring/v1/performanceJob

TOD Reference: TOD-06-04-01-Create_Performance_Monitoring_Job

Summary: Creates a Performance Job.

3.15.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceJob_Create

Table 3.131: Request Body of POST performanceJob.

3.15.2.2 Responses

Code	Description	Content
201	'Created (https://tools.ietf.org/html/rfc7231#section-6.3.2)'	PerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500 Internal Server Error		Error500

Table 3.132: Responses of POST performanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.15.3 GET /performanceJob/{id}

Absolute Path: /performanceMonitoring/v1/performanceJob/{id}

TOD Reference: TOD-06-04-04-View_Performance_Monitoring_Job

Summary: Retrieves a Performance Job by ID.

3.15.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Performance Job

Table 3.133: Parameters of GET performanceJob/{id}.

3.15.3.2 Responses

Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceJob
400	Bad Request	Error400
401 Unauthorized		Error401
403	Forbidden	Error403
404 Not Found 500 Internal Server Error		Error404
		Error500

Table 3.134: Responses of GET performanceJob/{id}.

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PSI-ICD



3.16 performanceJobComplexQuery (/performanceMonitoring)

Performance Monitoring Job API

3.16.1 POST /performanceJobComplexQuery

Absolute Path: /performanceMonitoring/v1/performanceJobComplexQuery

TOD Reference: TOD-06-04-05-View_All_Performance_Monitoring_Job

Summary: Creates a PerformanceJobComplexQuery.

3.16.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceJobComplexQuery_Create

Table 3.135: Request Body of POST performanceJobComplexQuery.

3.16.1.2 Responses

Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceJobComplexQuery
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500

Table 3.136: Responses of POST performanceJobComplexQuery.

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PSI-ICD



3.17 performanceReport (/performanceMonitoring)

Performance Monitoring Report API

3.17.1 GET /performanceReport

Absolute Path: /performanceMonitoring/v1/performanceReport

TOD Reference: TOD-06-05-03-View_All_Performance_Monitoring_Report

Summary: List or find Performance Report objects.

3.17.1.1 Parameters

Name	Туре	Required	Description
performanceJobld	string	No	Identifier of Performance Job that generated Performance Report.
state	string	No	State of the Performance Report. See PerformanceReportStateType definition for details.
creationDate.gt	string	No	Date when the report was created - greater than.
creationDate.lt	string	No	Date when the report was created - lower than.
reportingTime- frame.startDate.gt	string	No	Start date of reporting timeframe - greater than.
reportingTime- frame.startDate.lt	string	No	Start date of reporting timeframe - lower than.
reportingTime- frame.endDate.gt	string	No	End date of reporting timeframe - greater than.
reportingTime- frame.endDate.lt	string	No	End date of reporting timeframe - lower than.
granularity	null	No	Sampling rate of the collection of measurements
outputFormat	null	No	Format of report output
resultFormat	null	No	Type of providing report results
consumingApplica- tionId	string	No	Identifier of consuming application
producingApplicationId	string	No	Identifier of producing application

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Name	Туре	Required	Description
offset	integer	No	Requested index for start of item to be provided in response requested by the client. Note that the index starts with "0".
limit	integer	No	Requested number of resources to be provided in response.

Table 3.137: Parameters of GET performanceReport.

3.17.1.2 Responses

Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceReport_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500

Table 3.138: Responses of GET performanceReport.

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3.17.2 POST /performanceReport

Absolute Path: /performanceMonitoring/v1/performanceReport

TOD Reference: TOD-06-05-01-Create_Performance_Monitoring_Report

Summary: Creates a Performance Report.

3.17.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceReport_Create

Table 3.139: Request Body of POST performanceReport.

3.17.2.2 Responses

Code	Description	Content
201	'Created (https://tools.ietf.org/html/rfc7231#section-6.3.2)'	PerformanceReport
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500

Table 3.140: Responses of POST performanceReport.

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3.17.3 GET /performanceReport/{id}

Absolute Path: /performanceMonitoring/v1/performanceReport/{id}

TOD Reference: TOD-06-05-02-View_Performance_Monitoring_Report

Summary: Retrieves a Performance Report by ID.

3.17.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Performance Report to be retrieved.

Table 3.141: Parameters of GET performanceReport/{id}.

3.17.3.2 Responses

Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceReport
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500

Table 3.142: Responses of GET performanceReport/{id}.

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PSI-ICD



3.18 performanceReportComplexQuery (/performanceMonitoring)

Performance Monitoring Report API

3.18.1 POST /performanceReportComplexQuery

Absolute Path: /performanceMonitoring/v1/performanceReportComplexQuery

TOD Reference: TOD-06-05-03-View_All_Performance_Monitoring_Report

Summary: Creates a PerformanceReportComplexQuery.

3.18.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceReportComplexQuery_Create

Table 3.143: Request Body of POST performanceReportComplexQuery.

3.18.1.2 Responses

Code	Description	Content
200	'OK. (https://tools.ietf.org/html/rfc7231#section-6.3.1)'	PerformanceReportComplex- Query
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500

Table 3.144: Responses of POST performanceReportComplexQuery.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.19 product (/productInventory)

Product Inventory API

3.19.1 GET /product

Absolute Path: /productInventory/v1/product

TOD Reference: TOD-05-03-05-View_All_Products

Summary: List or find Product objects

3.19.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.145: Parameters of GET product.

3.19.1.2 Responses

Code	Description	Content
200	Success	Product
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.146: Responses of GET product.

Date: 2025-02-03 Version: 1.2.2

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3.19.2 POST /product

Absolute Path: /productInventory/v1/product

TOD Reference: TOD-05-03-01-Create_Product

Summary: Creates a Product

3.19.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Product_Create

Table 3.147: Request Body of POST product.

3.19.2.2 Responses

Code	Description	Content
201	Created	Product
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.148: Responses of POST product.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.19.3 GET /product/{id}

Absolute Path: /productInventory/v1/product/{id}
TOD Reference: TOD-05-03-04-View_Product

Summary: Retrieves a Product by ID

3.19.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Product
fields	string	No	Comma-separated properties to provide in response

Table 3.149: Parameters of GET product/{id}.

3.19.3.2 Responses

Code	Description	Content
200	Success	Product
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.150: Responses of GET product/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.19.4 DELETE /product/{id}

Absolute Path: /productInventory/v1/product/{id} **TOD Reference:** TOD-05-03-03-Remove_Product

Summary: Deletes a Product

3.19.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Product

Table 3.151: Parameters of DELETE product/{id}.

3.19.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.152: Responses of DELETE product/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.19.5 PATCH /product/{id}

Absolute Path: /productInventory/v1/product/{id} **TOD Reference:** TOD-05-03-02-Update_Product

Summary: Updates partially a Product

3.19.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Product

Table 3.153: Parameters of PATCH product/{id}.

3.19.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Product_Update

Table 3.154: Request Body of PATCH product/{id}.

3.19.5.3 Responses

Code	Description	Content
200	Updated	Product
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.155: Responses of PATCH product/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.20 productOffering (/productCatalog)

Product Offering API

3.20.1 GET /productOffering

Absolute Path: /productCatalog/v1/productOffering

TOD Reference: TOD-02-04-05-View_All_Product_Offerings

Summary: List or find ProductOffering objects

3.20.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.156: Parameters of GET productOffering.

3.20.1.2 Responses

Code	Description	Content
200	Success	ProductOffering
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.157: Responses of GET productOffering.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.20.2 POST /productOffering

Absolute Path: /productCatalog/v1/productOffering

TOD Reference: TOD-02-04-01-Create_Product_Offering

Summary: Creates a ProductOffering

3.20.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductOffering_Create

Table 3.158: Request Body of POST productOffering.

3.20.2.2 Responses

Code	Description	Content
201	Created	ProductOffering
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.159: Responses of POST productOffering.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.20.3 GET /productOffering/{id}

Absolute Path: /productCatalog/v1/productOffering/{id} **TOD Reference:** TOD-02-04-04-View_Product_Offering

Summary: Retrieves a ProductOffering by ID

3.20.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ProductOffering
fields	string	No	Comma-separated properties to provide in response

Table 3.160: Parameters of GET productOffering/{id}.

3.20.3.2 Responses

Code	Description	Content
200	Success	ProductOffering
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.161: Responses of GET productOffering/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.20.4 DELETE /productOffering/{id}

Absolute Path: /productCatalog/v1/productOffering/{id}

TOD Reference: TOD-02-04-03-Remove_Product_Offering

Summary: Deletes a ProductOffering

3.20.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ProductOffering

Table 3.162: Parameters of DELETE productOffering/{id}.

3.20.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.163: Responses of DELETE productOffering/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.20.5 PATCH /productOffering/{id}

Absolute Path: /productCatalog/v1/productOffering/{id} **TOD Reference:** TOD-02-04-02-Update_Product_Offering

Summary: Updates partially a ProductOffering

3.20.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductOffering

Table 3.164: Parameters of PATCH productOffering/{id}.

3.20.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductOffering_Update

Table 3.165: Request Body of PATCH productOffering/{id}.

3.20.5.3 Responses

Code	Description	Content
200	Updated	ProductOffering
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.166: Responses of PATCH productOffering/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.21 productOrder (/productOrdering)

Product Order API

3.21.1 GET /productOrder

Absolute Path: /productOrdering/v1/productOrder

TOD Reference: TOD-03-02-04-View_All_Product_Orders

Summary: List or find ProductOrder objects

3.21.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.167: Parameters of GET productOrder.

3.21.1.2 Responses

Code	Description	Content
200	Success	ProductOrder
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.168: Responses of GET productOrder.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.21.2 POST /productOrder

Absolute Path: /productOrdering/v1/productOrder

TOD Reference: TOD-03-02-01-Create_Product_Order

Summary: Creates a ProductOrder

3.21.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductOrder_Create

Table 3.169: Request Body of POST productOrder.

3.21.2.2 Responses

Code	Description	Content
201	Created	ProductOrder
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.170: Responses of POST productOrder.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.21.3 GET /productOrder/{id}

Absolute Path: /productOrdering/v1/productOrder/{id} **TOD Reference:** TOD-03-02-03-View_Product_Order

Summary: Retrieves a ProductOrder by ID

3.21.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductOrder
fields	string	No	Comma-separated properties to provide in response

Table 3.171: Parameters of GET productOrder/{id}.

3.21.3.2 Responses

Code	Description	Content
200	Success	ProductOrder
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.172: Responses of GET productOrder/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.21.4 DELETE /productOrder/{id}

Absolute Path: /productOrdering/v1/productOrder/{id}

Summary: Deletes a ProductOrder

3.21.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductOrder

Table 3.173: Parameters of DELETE productOrder/{id}.

3.21.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.174: Responses of DELETE productOrder/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.21.5 PATCH /productOrder/{id}

Absolute Path: /productOrdering/v1/productOrder/{id} **TOD Reference:** TOD-03-02-02-Update_Product_Order

Summary: Updates partially a ProductOrder

3.21.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductOrder

Table 3.175: Parameters of PATCH productOrder/{id}.

3.21.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductOrder_Update

Table 3.176: Request Body of PATCH productOrder/{id}.

3.21.5.3 Responses

Code	Description	Content
200	Updated	ProductOrder
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.177: Responses of PATCH productOrder/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.22 productSpecification (/productCatalog)

Product Specification API

3.22.1 GET /productSpecification

Absolute Path: /productCatalog/v1/productSpecification

TOD Reference: TOD-02-03-05-View_All_Product_Specifications

Summary: List or find ProductSpecification objects

3.22.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.178: Parameters of GET productSpecification.

3.22.1.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.179: Responses of GET productSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.22.2 POST /productSpecification

Absolute Path: /productCatalog/v1/productSpecification

TOD Reference: TOD-02-03-01-Create_Product_Specification

Summary: Creates a ProductSpecification

3.22.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductSpecification_Create

Table 3.180: Request Body of POST productSpecification.

3.22.2.2 Responses

Code	Description	Content
201	Created	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.181: Responses of POST productSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.22.3 GET /productSpecification/{id}

Absolute Path: /productCatalog/v1/productSpecification/{id} **TOD Reference:** TOD-02-03-04-View_Product_Specification

Summary: Retrieves a ProductSpecification by ID

3.22.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ProductSpecification
fields	string	No	Comma-separated properties to provide in response

Table 3.182: Parameters of GET productSpecification/{id}.

3.22.3.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.183: Responses of GET productSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.22.4 DELETE /productSpecification/{id}

Absolute Path: /productCatalog/v1/productSpecification/{id}

TOD Reference: TOD-02-03-03-Remove_Product_Specification

Summary: Deletes a ProductSpecification

3.22.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductSpecification

Table 3.184: Parameters of DELETE productSpecification/{id}.

3.22.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.185: Responses of DELETE productSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.22.5 PATCH /productSpecification/{id}

Absolute Path: /productCatalog/v1/productSpecification/{id}

TOD Reference: TOD-02-03-02-Update_Product_Specification

Summary: Updates partially a ProductSpecification

3.22.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ProductSpecification

Table 3.186: Parameters of PATCH productSpecification/{id}.

3.22.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductSpecification_Update

Table 3.187: Request Body of PATCH productSpecification/{id}.

3.22.5.3 Responses

Code	Description	Content
200	Updated	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.188: Responses of PATCH productSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.23 productTemplate (/productCatalog)

Product Template API

3.23.1 GET /productTemplate

Absolute Path: /productCatalog/v1/productTemplate

TOD Reference: TOD-04-03-05-View_All_Product_Templates

Summary: List or find ProductTemplate objects

3.23.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response.
offset	integer	No	Requested index for start of resources to be provided in response.
limit	integer	No	Requested number of resources to be provided in response.

Table 3.189: Parameters of GET productTemplate.

3.23.1.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.190: Responses of GET productTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.23.2 POST /productTemplate

Absolute Path: /productCatalog/v1/productTemplate

TOD Reference: TOD-04-03-01-Create_Product_Template

Summary: Creates a ProductTemplate

3.23.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductSpecification_Create

Table 3.191: Request Body of POST productTemplate.

3.23.2.2 Responses

Code	Description	Content
201	Created	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.192: Responses of POST productTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.23.3 GET /productTemplate/{id}

Absolute Path: /productCatalog/v1/productTemplate/{id} **TOD Reference:** TOD-04-03-04-View_Product_Template

Summary: Retrieves a ProductTemplate by ID.

3.23.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ProductTemplate.
fields	string	No	Comma-separated properties to provide in response.

Table 3.193: Parameters of GET productTemplate/{id}.

3.23.3.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.194: Responses of GET productTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.23.4 DELETE /productTemplate/{id}

Absolute Path: /productCatalog/v1/productTemplate/{id}

TOD Reference: TOD-04-03-03-Remove_Product_Template

Summary: Deletes a ProductTemplate

3.23.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ProductTemplate

Table 3.195: Parameters of DELETE productTemplate/{id}.

3.23.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.196: Responses of DELETE productTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.23.5 PATCH /productTemplate/{id}

Absolute Path: /productCatalog/v1/productTemplate/{id}

TOD Reference: TOD-04-03-02-Update_Product_Template

Summary: Updates partially a ProductTemplate

3.23.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	The identifier of the ProductTemplate

Table 3.197: Parameters of PATCH productTemplate/{id}.

3.23.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ProductSpecification_Update

Table 3.198: Request Body of PATCH productTemplate/{id}.

3.23.5.3 Responses

Code	Description	Content
200	Updated	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.199: Responses of PATCH productTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.24 resource (/resourceInventory)

Resource Inventory API

3.24.1 GET /resource

Absolute Path: /resourceInventory/v1/resource

TOD Reference: TOD-05-01-05-View_All_Resources

Summary: List or find Resource objects

3.24.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.200: Parameters of GET resource.

3.24.1.2 Responses

Code	Description	Content
200	Success	Resource
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.201: Responses of GET resource.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.24.2 POST /resource

Absolute Path: /resourceInventory/v1/resource

TOD Reference: TOD-05-01-01-Create_Resource

Summary: Creates a Resource

3.24.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Resource_Create

Table 3.202: Request Body of POST resource.

3.24.2.2 Responses

Code	Description	Content
201	Created	Resource
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.203: Responses of POST resource.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.24.3 GET /resource/{id}

Absolute Path: /resourceInventory/v1/resource/{id} **TOD Reference:** TOD-05-01-04-View_Resource

Summary: Retrieves a Resource by ID

3.24.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to provide in response

Table 3.204: Parameters of GET resource/{id}.

3.24.3.2 Responses

Code	Description	Content
200	Success	Resource
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.205: Responses of GET resource/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.24.4 DELETE /resource/{id}

Absolute Path: /resourceInventory/v1/resource/{id} **TOD Reference:** TOD-05-01-03-Remove_Resource

Summary: Deletes a Resource

3.24.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.206: Parameters of DELETE resource/{id}.

3.24.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.207: Responses of DELETE resource/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.24.5 PATCH /resource/{id}

Absolute Path: /resourceInventory/v1/resource/{id} **TOD Reference:** TOD-05-01-02-Update_Resource

Summary: Updates partially a Resource

3.24.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.208: Parameters of PATCH resource/{id}.

3.24.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Resource_Update

Table 3.209: Request Body of PATCH resource/{id}.

3.24.5.3 Responses

Code	Description	Content
200	Updated	Resource
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.210: Responses of PATCH resource/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.25 resourceSpecification (/resourceCatalog)

Resource Specification API

3.25.1 GET /resourceSpecification

Absolute Path: /resourceCatalog/v1/resourceSpecification

TOD Reference: TOD-02-01-05-View_All_Resource_Specifications

Summary: List or find ResourceSpecification objects

3.25.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.211: Parameters of GET resourceSpecification.

3.25.1.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.212: Responses of GET resourceSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.25.2 POST /resourceSpecification

Absolute Path: /resourceCatalog/v1/resourceSpecification

TOD Reference: TOD-02-01-01-Create_Resource_Specification

Summary: Creates a ResourceSpecification

3.25.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ResourceSpecification_Create

Table 3.213: Request Body of POST resourceSpecification.

3.25.2.2 Responses

Code	Description	Content
201	Created	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.214: Responses of POST resourceSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.25.3 GET /resourceSpecification/{id}

Absolute Path: /resourceCatalog/v1/resourceSpecification/{id} **TOD Reference:** TOD-02-01-04-View_Resource_Specification

Summary: Retrieves a ResourceSpecification by ID

3.25.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ResourceSpecification
fields	string	No	Comma-separated properties to provide in response

Table 3.215: Parameters of GET resourceSpecification/{id}.

3.25.3.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.216: Responses of GET resourceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.25.4 DELETE /resourceSpecification/{id}

Absolute Path: /resourceCatalog/v1/resourceSpecification/{id}

TOD Reference: TOD-02-01-03-Remove_Resource_Specification

Summary: Deletes a ResourceSpecification

3.25.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ResourceSpecification

Table 3.217: Parameters of DELETE resourceSpecification/{id}.

3.25.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.218: Responses of DELETE resourceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.25.5 PATCH /resourceSpecification/{id}

Absolute Path: /resourceCatalog/v1/resourceSpecification/{id}

TOD Reference: TOD-02-01-02-Update_Resource_Specification

Summary: Updates partially a ResourceSpecification

3.25.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ResourceSpecification

Table 3.219: Parameters of PATCH resourceSpecification/{id}.

3.25.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ResourceSpecification_Update

Table 3.220: Request Body of PATCH resourceSpecification/{id}.

3.25.5.3 Responses

Code	Description	Content
200	Updated	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.221: Responses of PATCH resourceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.26 resourceTemplate (/resourceCatalog)

Resource Template API

3.26.1 GET /resourceTemplate

Absolute Path: /resourceCatalog/v1/resourceTemplate

TOD Reference: TOD-04-01-05-View_All_Resource_Templates

Summary: List or find ResourceTemplate objects

3.26.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response.
offset	integer	No	The requested index for start of resources to be provided in response.
limit	integer	No	The requested number of resources to be provided in response.

Table 3.222: Parameters of GET resourceTemplate.

3.26.1.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.223: Responses of GET resourceTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.26.2 POST /resourceTemplate

Absolute Path: /resourceCatalog/v1/resourceTemplate

TOD Reference: TOD-04-01-01-Create_Resource_Template

Summary: Creates a ResourceTemplate

3.26.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ResourceSpecification_Create

Table 3.224: Request Body of POST resourceTemplate.

3.26.2.2 Responses

Code	Description	Content
201	Created	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.225: Responses of POST resourceTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.26.3 GET /resourceTemplate/{id}

Absolute Path: /resourceCatalog/v1/resourceTemplate/{id} **TOD Reference:** TOD-04-01-04-View_Resource_Template

Summary: Retrieves a ResourceTemplate by ID

3.26.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	The identifier of the ResourceTemplate.
fields	string	No	Comma-separated properties to provide in response.

Table 3.226: Parameters of GET resourceTemplate/{id}.

3.26.3.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.227: Responses of GET resourceTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.26.4 DELETE /resourceTemplate/{id}

Absolute Path: /resourceCatalog/v1/resourceTemplate/{id}

TOD Reference: TOD-04-01-03-Remove_Resource_Template

Summary: Deletes a ResourceTemplate

3.26.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ResourceTemplate.

Table 3.228: Parameters of DELETE resourceTemplate/{id}.

3.26.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.229: Responses of DELETE resourceTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.26.5 PATCH /resourceTemplate/{id}

Absolute Path: /resourceCatalog/v1/resourceTemplate/{id} **TOD Reference:** TOD-04-01-02-Update_Resource_Template

Summary: Updates partially a ResourceTemplate

3.26.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ResourceTemplate.

Table 3.230: Parameters of PATCH resourceTemplate/{id}.

3.26.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ResourceSpecification_Update

Table 3.231: Request Body of PATCH resourceTemplate/{id}.

3.26.5.3 Responses

Code	Description	Content
200	Updated	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.232: Responses of PATCH resourceTemplate/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.27 resumePerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

3.27.1 GET /resumePerformanceJob

Absolute Path: /performanceMonitoring/v1/resumePerformanceJob

Summary: Lists or finds ResumePerformanceJob objects

3.27.1.1 Parameters

Name	Туре	Required	Description
performanceJobId	string	No	Identifer of Performance Job that is a subject of ResumePerformanceJob.
state	string	No	State of ResumePerformanceJob. See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the ResumePerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the ResumePerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.233: Parameters of GET resumePerformanceJob.

3.27.1.2 Responses

Code	Description	Content
200	Success	ResumePerformanceJob_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Ref: PSI-ICD

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Date: 2025-02-03 Version: 1.2.2

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Code	Description	Content
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Table 3.234: Responses of GET resumePerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.27.2 POST /resumePerformanceJob

Absolute Path: /performanceMonitoring/v1/resumePerformanceJob

3.27.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ResumePerformanceJob_Create

Table 3.235: Request Body of POST resumePerformanceJob.

3.27.2.2 Responses

Code	Description	Content
201	Created	ResumePerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.236: Responses of POST resumePerformanceJob.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.27.3 GET /resumePerformanceJob/{id}

Absolute Path: /performanceMonitoring/v1/resumePerformanceJob/{id}

Summary: Retrieves a ResumePerformanceJob by ID.

3.27.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ResumePerformanceJob

Table 3.237: Parameters of GET resumePerformanceJob/{id}.

3.27.3.2 Responses

Code	Description	Content
200	Success	ResumePerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.238: Responses of GET resumePerformanceJob/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.28 service (/serviceInventory)

Service Inventory API

3.28.1 GET/service

Absolute Path: /serviceInventory/v1/service

TOD Reference: TOD-05-02-05-View_All_Services

Summary: List or find Service objects

3.28.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.239: Parameters of GET service.

3.28.1.2 Responses

Code	Description	Content
200	Success	Service
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.240: Responses of GET service.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.28.2 POST /service

Absolute Path: /serviceInventory/v1/service

TOD Reference: TOD-05-02-01-Create_Service

Summary: Creates a Service

3.28.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	Service_Create

Table 3.241: Request Body of POST service.

3.28.2.2 Responses

Code	Description	Content
201	Created	Service
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.242: Responses of POST service.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.28.3 GET /service/{id}

Absolute Path: /serviceInventory/v1/service/{id} **TOD Reference:** TOD-05-02-04-View_Service

Summary: Retrieves a Service by ID

3.28.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Service
fields	string	No	Comma-separated properties to provide in response

Table 3.243: Parameters of GET service/{id}.

3.28.3.2 Responses

Code	Description	Content
200	Success	Service
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.244: Responses of GET service/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.28.4 DELETE /service/{id}

Absolute Path: /serviceInventory/v1/service/{id} **TOD Reference:** TOD-05-02-03-Remove_Service

Summary: Deletes a Service

3.28.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the Service

Table 3.245: Parameters of DELETE service/{id}.

3.28.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.246: Responses of DELETE service/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.28.5 PATCH /service/{id}

Absolute Path: /serviceInventory/v1/service/{id}
TOD Reference: TOD-05-02-02-Update_Service

Summary: Updates partially a Service

3.28.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Service

Table 3.247: Parameters of PATCH service/{id}.

3.28.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	Service_Update

Table 3.248: Request Body of PATCH service/{id}.

3.28.5.3 Responses

Code	Description	Content
200	Updated	Service
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.249: Responses of PATCH service/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.29 serviceLevelObjective (/serviceQuality)

Service Level Objective API

3.29.1 GET /serviceLevelObjective

Absolute Path: /serviceQuality/v1/serviceLevelObjective

TOD Reference: TOD-06-01-05-View_All_Service_Level_Objective

Summary: List or find ServiceLevelObjective objects

3.29.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.250: Parameters of GET serviceLevelObjective.

3.29.1.2 Responses

Code	Description	Content
200	Success	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.251: Responses of GET serviceLevelObjective.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.29.2 POST /serviceLevelObjective

Absolute Path: /serviceQuality/v1/serviceLevelObjective

TOD Reference: TOD-06-01-01-Create_Service_Level_Objective

Summary: Creates a ServiceLevelObjective

3.29.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelObjective_Create

Table 3.252: Request Body of POST serviceLevelObjective.

3.29.2.2 Responses

Code	Description	Content
201	Created	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.253: Responses of POST serviceLevelObjective.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.29.3 GET /serviceLevelObjective/{id}

Absolute Path: /serviceQuality/v1/serviceLevelObjective/{id}

TOD Reference: TOD-06-01-04-View_Service_Level_Objective

Summary: Retrieves a ServiceLevelObjective by ID

3.29.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective
fields	string	No	Comma-separated properties to provide in response

Table 3.254: Parameters of GET serviceLevelObjective/{id}.

3.29.3.2 Responses

Code	Description	Content
200	Success	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.255: Responses of GET serviceLevelObjective/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.29.4 DELETE /serviceLevelObjective/{id}

Absolute Path: /serviceQuality/v1/serviceLevelObjective/{id}

TOD Reference: TOD-06-01-03-Remove_Service_Level_Objective

Summary: Deletes a ServiceLevelObjective

3.29.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective

Table 3.256: Parameters of DELETE serviceLevelObjective/{id}.

3.29.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.257: Responses of DELETE serviceLevelObjective/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.29.5 PATCH /serviceLevelObjective/{id}

Absolute Path: /serviceQuality/v1/serviceLevelObjective/{id}

TOD Reference: TOD-06-01-02-Update_Service_Level_Objective

Summary: Updates partially a ServiceLevelObjective

3.29.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective

Table 3.258: Parameters of PATCH serviceLevelObjective/{id}.

3.29.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelObjective_Update

Table 3.259: Request Body of PATCH serviceLevelObjective/{id}.

3.29.5.3 Responses

Code	Description	Content
200	Updated	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.260: Responses of PATCH serviceLevelObjective/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.30 serviceLevelSpecification (/serviceQuality)

Service Level Specification API

3.30.1 GET /serviceLevelSpecification

Absolute Path: /serviceQuality/v1/serviceLevelSpecification

TOD Reference: TOD-06-02-05-View_All_Service_Level_Specification

Summary: List or find ServiceLevelSpecification objects

3.30.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.261: Parameters of GET serviceLevelSpecification.

3.30.1.2 Responses

Code	Description	Content
200	Success	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.262: Responses of GET serviceLevelSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.30.2 POST /serviceLevelSpecification

Absolute Path: /serviceQuality/v1/serviceLevelSpecification

TOD Reference: TOD-06-02-01-Create_Service_Level_Specification

Summary: Creates a ServiceLevelSpecification

3.30.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelSpecification_Create

Table 3.263: Request Body of POST serviceLevelSpecification.

3.30.2.2 Responses

Code	Description	Content
201	Created	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.264: Responses of POST serviceLevelSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.30.3 GET /serviceLevelSpecification/{id}

Absolute Path: /serviceQuality/v1/serviceLevelSpecification/{id}

TOD Reference: TOD-06-02-04-View_Service_Level_Specification

Summary: Retrieves a ServiceLevelSpecification by ID

3.30.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification
fields	string	No	Comma-separated properties to provide in response

Table 3.265: Parameters of GET serviceLevelSpecification/{id}.

3.30.3.2 Responses

Code	Description	Content
200	Success	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.266: Responses of GET serviceLevelSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.30.4 DELETE /serviceLevelSpecification/{id}

Absolute Path: /serviceQuality/v1/serviceLevelSpecification/{id}

TOD Reference: TOD-06-02-03-Remove_Service_Level_Specification

Summary: Deletes a ServiceLevelSpecification

3.30.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification

Table 3.267: Parameters of DELETE serviceLevelSpecification/{id}.

3.30.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.268: Responses of DELETE serviceLevelSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.30.5 PATCH /serviceLevelSpecification/{id}

Absolute Path: /serviceQuality/v1/serviceLevelSpecification/{id}

TOD Reference: TOD-06-02-02-Update_Service_Level_Specification

Summary: Updates partially a ServiceLevelSpecification

3.30.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification

Table 3.269: Parameters of PATCH serviceLevelSpecification/{id}.

3.30.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelSpecification_Update

Table 3.270: Request Body of PATCH serviceLevelSpecification/{id}.

3.30.5.3 Responses

Code	Description	Content
200	Updated	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.271: Responses of PATCH serviceLevelSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.31 serviceSpecification (/serviceCatalog)

Service Specification API

3.31.1 GET /serviceSpecification

Absolute Path: /serviceCatalog/v1/serviceSpecification

TOD Reference: TOD-02-02-05-View_All_Service_Specifications

Summary: List or find ServiceSpecification objects

3.31.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.272: Parameters of GET serviceSpecification.

3.31.1.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.273: Responses of GET serviceSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.31.2 POST /serviceSpecification

Absolute Path: /serviceCatalog/v1/serviceSpecification

TOD Reference: TOD-02-02-01-Create_Service_Specification

Summary: Creates a ServiceSpecification

3.31.2.1 Request Body

Content Type		Reference	
	application/json;charset=utf-8	ServiceSpecification_Create	

Table 3.274: Request Body of POST serviceSpecification.

3.31.2.2 Responses

Code	Description	Content
201	Created	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.275: Responses of POST serviceSpecification.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.31.3 GET /serviceSpecification/{id}

Absolute Path: /serviceCatalog/v1/serviceSpecification/{id} **TOD Reference:** TOD-02-02-04-View_Service_Specification

Summary: Retrieves a ServiceSpecification by ID

3.31.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceSpecification
fields	string	No	Comma-separated properties to provide in response

Table 3.276: Parameters of GET serviceSpecification/{id}.

3.31.3.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.277: Responses of GET serviceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.31.4 DELETE /serviceSpecification/{id}

Absolute Path: /serviceCatalog/v1/serviceSpecification/{id}

TOD Reference: TOD-02-02-03-Remove_Service_Specification

Summary: Deletes a ServiceSpecification

3.31.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceSpecification

Table 3.278: Parameters of DELETE serviceSpecification/{id}.

3.31.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.279: Responses of DELETE serviceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.31.5 PATCH /serviceSpecification/{id}

Absolute Path: /serviceCatalog/v1/serviceSpecification/{id}

TOD Reference: TOD-02-02-02-Update_Service_Specification

Summary: Updates partially a ServiceSpecification

3.31.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the ServiceSpecification

Table 3.280: Parameters of PATCH serviceSpecification/{id}.

3.31.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceSpecification_Update

Table 3.281: Request Body of PATCH serviceSpecification/{id}.

3.31.5.3 Responses

Code	Description	Content
200	Updated	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.282: Responses of PATCH serviceSpecification/{id}.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.32 serviceTemplate (/serviceCatalog)

Service Template API

3.32.1 GET /serviceTemplate

Absolute Path: /serviceCatalog/v1/serviceTemplate

TOD Reference: TOD-04-02-05-View_All_Service_Templates

Summary: List or find ServiceTemplate objects

3.32.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response.
offset	integer	No	The requested index for start of resources to be provided in response.
limit	integer	No	The requested number of resources to be provided in response.

Table 3.283: Parameters of GET serviceTemplate.

3.32.1.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.284: Responses of GET serviceTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.32.2 POST /serviceTemplate

Absolute Path: /serviceCatalog/v1/serviceTemplate

TOD Reference: TOD-04-02-01-Create_Service_Template

Summary: Creates a ServiceTemplate

3.32.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceSpecification_Create

Table 3.285: Request Body of POST serviceTemplate.

3.32.2.2 Responses

Code	Description	Content
201	Created	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.286: Responses of POST serviceTemplate.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



3.32.3 GET /serviceTemplate/{id}

Absolute Path: /serviceCatalog/v1/serviceTemplate/{id} **TOD Reference:** TOD-04-02-04-View_Service_Template

Summary: Retrieves a ServiceTemplate by ID

3.32.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ServiceTemplate.
fields	string	No	Comma-separated properties to provide in response.

Table 3.287: Parameters of GET serviceTemplate/{id}.

3.32.3.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.288: Responses of GET serviceTemplate/{id}.

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3.32.4 DELETE /serviceTemplate/{id}

Absolute Path: /serviceCatalog/v1/serviceTemplate/{id}

TOD Reference: TOD-04-02-03-Remove_Service_Template

Summary: Deletes a ServiceTemplate

3.32.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ServiceTemplate.

Table 3.289: Parameters of DELETE serviceTemplate/{id}.

3.32.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.290: Responses of DELETE serviceTemplate/{id}.

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3.32.5 PATCH /serviceTemplate/{id}

Absolute Path: /serviceCatalog/v1/serviceTemplate/{id}

TOD Reference: TOD-04-02-02-Update_Service_Template

Summary: Updates partially a ServiceTemplate

3.32.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	The identifier of the ServiceTemplate.

Table 3.291: Parameters of PATCH serviceTemplate/{id}.

3.32.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceSpecification_Update

Table 3.292: Request Body of PATCH serviceTemplate/{id}.

3.32.5.3 Responses

Code	Description	Content
200	Updated	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.293: Responses of PATCH serviceTemplate/{id}.

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3.33 suspendPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

3.33.1 GET/suspendPerformanceJob

Absolute Path: /performanceMonitoring/v1/suspendPerformanceJob

Summary: Lists or finds SuspendPerformanceJob objects.

3.33.1.1 Parameters

Name	Туре	Required	Description
performanceJobId	string	No	Identifer of Performance Job that is a subject of SuspendPerformanceJob.
state	string	No	State of SuspendPerformanceJob. See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the SuspendPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the SuspendPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.294: Parameters of GET suspendPerformanceJob.

3.33.1.2 Responses

Code	Description	Content
200	Success	SuspendPerformanceJob_Find
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

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Code	Description	Content
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Table 3.295: Responses of GET suspendPerformanceJob.

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3.33.2 POST /suspendPerformanceJob

Absolute Path: /performanceMonitoring/v1/suspendPerformanceJob

3.33.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	SuspendPerformanceJob_Create

Table 3.296: Request Body of POST suspendPerformanceJob.

3.33.2.2 Responses

Code	Description	Content
201	Created	SuspendPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	Error422
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.297: Responses of POST suspendPerformanceJob.

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3.33.3 GET /suspendPerformanceJob/{id}

Absolute Path: /performanceMonitoring/v1/suspendPerformanceJob/{id}

Summary: Retrieves a SuspendPerformanceJob by ID

3.33.3.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the SuspendPerformanceJob

Table 3.298: Parameters of GET suspendPerformanceJob/{id}.

3.33.3.2 Responses

Code	Description	Content
200	Success	SuspendPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.299: Responses of GET suspendPerformanceJob/{id}.

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3.34 troubleTicket (/troubleTicket)

Trouble Ticket API

3.34.1 GET /troubleTicket

Absolute Path: /troubleTicket/v1/troubleTicket

TOD Reference: TOD-01-04-05-View_All_Trouble_Tickets

Summary: List or find TroubleTicket objects

3.34.1.1 Parameters

Name	Туре	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.300: Parameters of GET troubleTicket.

3.34.1.2 Responses

Code	Description	Content
200	Success	TroubleTicket
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.301: Responses of GET troubleTicket.

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3.34.2 POST /troubleTicket

Absolute Path: /troubleTicket/v1/troubleTicket

TOD Reference: TOD-01-04-01-Create_Trouble_Ticket

Summary: Creates a TroubleTicket

3.34.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	TroubleTicket_Create

Table 3.302: Request Body of POST troubleTicket.

3.34.2.2 Responses

Code	Description	Content
201	Created	TroubleTicket
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.303: Responses of POST troubleTicket.

Date: 2025-02-03 Version: 1.2.2

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3.34.3 GET /troubleTicket/{id}

Absolute Path: /troubleTicket/v1/troubleTicket/{id}

TOD Reference: TOD-01-04-04-View_Trouble_Ticket

Summary: Retrieves a TroubleTicket by ID

3.34.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the TroubleTicket
fields	string	No	Comma-separated properties to provide in response

Table 3.304: Parameters of GET troubleTicket/{id}.

3.34.3.2 Responses

Code	Description	Content
200	Success	TroubleTicket
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.305: Responses of GET troubleTicket/{id}.

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3.34.4 DELETE /troubleTicket/{id}

Absolute Path: /troubleTicket/v1/troubleTicket/{id}

TOD Reference: TOD-01-04-03-Remove_Trouble_Ticket

Summary: Deletes a TroubleTicket

3.34.4.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the TroubleTicket

Table 3.306: Parameters of DELETE troubleTicket/{id}.

3.34.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.307: Responses of DELETE troubleTicket/{id}.

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3.34.5 PATCH /troubleTicket/{id}

Absolute Path: /troubleTicket/v1/troubleTicket/{id}

TOD Reference: TOD-01-04-02-Update_Trouble_Ticket

Summary: Updates partially a TroubleTicket

3.34.5.1 Parameters

Name	Туре	Required	Description
id	string	Yes	Identifier of the TroubleTicket

Table 3.308: Parameters of PATCH troubleTicket/{id}.

3.34.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	TroubleTicket_Update

Table 3.309: Request Body of PATCH troubleTicket/{id}.

3.34.5.3 Responses

Code	Description	Content
200	Updated	TroubleTicket
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.310: Responses of PATCH troubleTicket/{id}.

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4 Data-Transfer-Objects

The following sections describe all DTOs used in the APIs described above. Most entities can make use of polymorphism using the <code>@type</code> and <code>@baseType</code> attributes. An implementation may omit these fields if only the base type is used, i.e. no subtypes exist. This is the case for essentially all inner types, e.g. characteristics and references. In references, the attribute <code>@referredType</code> can be used to hint the type of the target entity.

4.1 Addressable

Base schema for addressable entities

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No

Table 4.1: Fields of Addressable.

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4.2 AffectedService

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.2: Fields of AffectedService.

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4.3 AgreementItemRef

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
agreementItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.3: Fields of AgreementItemRef.

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4.4 AgreementRef

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.4: Fields of AgreementRef.

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4.5 Alarm

This resource represents an alarm supporting the information model defined in ITU-T X.733.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
ackState	string	N/A	No
ackSystemId	string	N/A	No
ackUserId	string	N/A	No
alarmChangedTime	string	date-time	No
alarmClearedTime	string	date-time	No
alarmDetails	string	N/A	No
alarmEscalation	boolean	N/A	No
alarmRaisedTime	string	date-time	No
alarmReportingTime	string	date-time	No
alarmedObjectType	string	N/A	No
clearSystemId	string	N/A	No
clearUserId	string	N/A	No
externalAlarmId	string	N/A	No
isRootCause	boolean	N/A	No
plannedOutageIndicator	string	N/A	No
probableCause	string	N/A	No
proposedRepairedActions	string	N/A	No
reportingSystemId	string	N/A	No
serviceAffecting	boolean	N/A	No
sourceSystemId	string	N/A	No
specificProblem	string	N/A	No
state	string	oneOf[raised, updated, cleared]	No
affectedService	array	AffectedService	No
alarmType	AlarmType	N/A	No
alarmedObject	AlarmedObject	N/A	No
comment	array	Comment	No
correlatedAlarm	array	AlarmRef	No
crossedThresholdInformation	CrossedThresholdInformation	N/A	No

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Field	Туре	Format	Required
parentAlarm	array	AlarmRef	No
perceivedSeverity	PerceivedSeverity	N/A	No
place	array	RelatedPlaceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.5: Fields of Alarm.

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4.6 AlarmRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.6: Fields of AlarmRef.

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4.7 AlarmType

Categorizes the alarm (X.733 8.1.1, 3GPP TS 32.111-2 Annex A)

Field	Туре	Format	Required
AlarmType	string	oneOf[communicationsAlarm, processingErrorAlarm, environmentalAlarm, qualityOfServiceAlarm, equipmentAlarm, integrityViolation, operationalViolation, physicalViolation, securityService, mechanismViolation, timeDomainViolation]	No

Table 4.7: Fields of AlarmType.

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4.8 AlarmedObject

Identifies the managed object instance associated with the alarm.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.8: Fields of AlarmedObject.

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4.9 AlternateProductStock

AlternateProductStock is used to log and execute Alternate about product stock availability

Field	Туре	Format	Required
id	string	N/A	No
alternateAvailabilityDate	string	date-time	No
alternatePlace	PlaceRef	N/A	No
alternateProduct	ProductRefOrValue	N/A	No
alternateQuantity	Quantity	N/A	No
alternateStock	ProductStockRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.9: Fields of AlternateProductStock.

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4.10 ApplicableTimePeriod

The period of time for which Capacity or CapacityDemand applies.

Field	Туре	Format	Required
dayOfWeek	string	N/A	No
fromToDateTime	TimePeriod	N/A	No
rangeInterval	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.10: Fields of ApplicableTimePeriod.

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4.11 AppliedPayment

The applied payment is the result of lettering process. It enables to assign automatically or manually part of incoming payment amount to a bill.

Field	Туре	Format	Required
appliedAmount	Money	N/A	No
payment	PaymentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.11: Fields of AppliedPayment.

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4.12 AppointmentRef

Refers an appointment, such as a Customer presentation or internal meeting or site visit

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.12: Fields of AppointmentRef.

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4.13 AssociationSpecificationRef

reference to an AssociationSpecification object

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.13: Fields of AssociationSpecificationRef.

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4.14 Attachment

Complements the description of an element (for instance a product) through video, pictures...

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
attachmentType	string	N/A	No
mimeType	string	N/A	No
url	string	uri	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.14: Fields of Attachment.

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4.15 AttachmentOrDocumentRef

Reference to an attachment or a document. A document comprises of multiple attachments, while a single attachment has uri, mimeType, size, etc.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
attachmentType	string	N/A	No
mimeType	string	N/A	No
url	string	uri	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.15: Fields of AttachmentOrDocumentRef.

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4.16 AttachmentRef

Attachment reference. An attachment complements the description of an element (for instance a product) through video, pictures

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
url	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.16: Fields of AttachmentRef.

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4.17 AttachmentURL

The AttachmentURL is used to get the PM report.

Field	Туре	Format	Required
url	string	N/A	Yes

Table 4.17: Fields of AttachmentURL.

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4.18 Attachment_Create

Complements the description of an element (for instance a product) through video, pictures...

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
attachmentType	string	N/A	No
content	string	binary	No
mimeType	string	N/A	No
url	string	uri	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No

Table 4.18: Fields of Attachment_Create.

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4.19 Attachment_Update

Complements the description of an element (for instance a product) through video, pictures...

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
attachmentType	string	N/A	No
content	string	binary	No
mimeType	string	N/A	No
url	string	uri	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No

Table 4.19: Fields of Attachment_Update.

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4.20 AvailabilityResultType

Possible values of the availability result check for CheckProductStockItem.

Field	Туре	Format	Required
AvailabilityResultType	string	oneOf[available, notAvailable, alternate]	No

Table 4.20: Fields of AvailabilityResultType.

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4.21 BillCycleRef

....

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.21: Fields of BillCycleRef.

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4.22 BillingAccountRef

BillingAccount reference. A BillingAccount is a detailed description of a bill structure.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
ratingType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.22: Fields of BillingAccountRef.

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4.23 BundledGroupProductOffering

Defines a group between a parent product offering and multiple child offerings, allowing (for example) choosing a minimum of 2 and a maximum of 6 offerings from within the list of child offerings. And optionally specifying offerings that would be selected by default. For example facilitate the choice of between 2 and 7 channel packs from a list, and cause certain items to be selected by default.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
bundledGroupProductOf- feringOption	BundledGroupProductOf- feringOption	N/A	No
bundledGroupProductOffer- ing	array	BundledGroupProductOffer-ing	No
bundledProductOffering	array	BundledProductOffering	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.23: Fields of BundledGroupProductOffering.

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4.24 BundledGroupProductOfferingOption

A set of numbers that specifies the lower and upper limits for a ProductOfferingGroup that can be procured as part of the related BundledGroupProductOffering. Values can range from 0 to unbounded

Field	Туре	Format	Required
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.24: Fields of BundledGroupProductOfferingOption.

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4.25 BundledProductOffering

A type of ProductOffering that belongs to a grouping of ProductOfferings made available to the market. It inherits of all attributes of ProductOffering.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
bundledProductOfferingOp- tion	BundledProductOfferingOp- tion	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.25: Fields of BundledProductOffering.

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4.26 BundledProductOfferingOption

A set of numbers that specifies the lower and upper limits for a ProductOffering that can be procured as part of the related BundledProductOffering. Values can range from 0 to unbounded

Field	Туре	Format	Required
numberRelOfferDefault	integer	N/A	No
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.26: Fields of BundledProductOfferingOption.

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4.27 BundledProductSpecification

A type of ProductSpecification that belongs to a grouping of ProductSpecifications made available to the market. It inherits of all attributes of ProductSpecification.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.27: Fields of BundledProductSpecification.

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4.28 CancelPerformanceJob

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
cancellationDeniedReason	string	N/A	No
creationDate	string	date-time	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.28: Fields of CancelPerformanceJob.

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4.29 CancelPerformanceJob_Common

Request for cancellation of an existing Performance Job

Field	Туре	Format	Required
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes

Table 4.29: Fields of CancelPerformanceJob_Common.

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4.30 CancelPerformanceJob_Create

Field	Туре	Format	Required
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes

Table 4.30: Fields of CancelPerformanceJob_Create.

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4.31 CancelPerformanceJob_Find

This class represents a single list item for the response of ${\tt listCancelPerformanceJob}$

Field	Туре	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.31: Fields of CancelPerformanceJob_Find.

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4.32 CategoryRef

The category for grouping recommendations

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.32: Fields of CategoryRef.

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4.33 ChannelRef

The channel to which the resource reference to. e.g. channel for selling product offerings, channel for opening a trouble ticket etc..

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.33: Fields of ChannelRef.

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4.34 Characteristic

Describes a given characteristic of an object or entity through a name/value pair.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
value	any	N/A	Yes
unitOfMeasure	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.34: Fields of Characteristic.

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4.35 CharacteristicRelationship

Another Characteristic that is related to the current Characteristic;

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.35: Fields of CharacteristicRelationship.

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4.36 CharacteristicSpecification

This class defines a characteristic specification.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
configurable	boolean	N/A	No
extensible	boolean	N/A	No
isUnique	boolean	N/A	No
maxCardinality	integer	N/A	No
minCardinality	integer	N/A	No
regex	string	N/A	No
valueType	string	N/A	No
charSpecRelationship	array	CharacteristicSpecification- Relationship	No
characteristicValueSpecifica- tion	array	CharacteristicValueSpecifica-tion	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@valueSchemaLocation	string	N/A	No

Table 4.36: Fields of CharacteristicSpecification.

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4.37 CharacteristicSpecificationRelationship

An aggregation, migration, substitution, dependency or exclusivity relationship between/among Characteristic specifications. The specification characteristic is embedded within the specification whose ID and href are in this entity, and identified by its ID.

Field	Туре	Format	Required
name	string	N/A	No
characteristicSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
parentSpecificationId	string	N/A	No
relationshipType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.37: Fields of CharacteristicSpecificationRelationship.

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4.38 Characteristic Value Precedence

Possible values for the precedence of a characteristic value.

Field	Туре	Format	Required
CharacteristicValuePrecedence	string	oneOf[preferred, minimum, maximum, alternative]	No

Table 4.38: Fields of CharacteristicValuePrecedence.

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4.39 Characteristic Value Specification

specification of a value (number or text or an object) that can be assigned to a Characteristic.

Field	Туре	Format	Required
isDefault	boolean	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
unitOfMeasure	string	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
valueType	string	N/A	No
validFor	TimePeriod	N/A	No
value	any	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.39: Fields of CharacteristicValueSpecification.

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4.40 CheckProductStock

CheckProductStock is used to log and execute check about product stock availability

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
completedCheckProduct- StockDate	string	date-time	No
creationDate	string	date-time	No
instantSyncCheck	boolean	N/A	No
provideAlternative	boolean	N/A	No
requestedCheckProduct- StockDate	string	date-time	No
checkProductStockItem	array	CheckProductStockItem	No
place	PlaceRef	N/A	No
relatedParty	array	RelatedParty	No
state	TaskStateType	N/A	No
requestedAvailability	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.40: Fields of CheckProductStock.

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4.41 CheckProductStockItem

CheckProductStockItem is used to log and execute query about one product (or configured product) stock availability

Field	Туре	Format	Required
id	string	N/A	Yes
availabilityResult	AvailabilityResultType	N/A	No
provideAlternative	boolean	N/A	No
alternate	array	AlternateProductStock	No
checkedProductStock	ProductStock	N/A	Yes
requestedQuantity	Quantity	N/A	Yes
state	TaskStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.41: Fields of CheckProductStockItem.

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4.42 CheckProductStock_Create

CheckProductStock is used to log and execute check about product stock availability Skipped properties: id,href

Field	Туре	Format	Required
instantSyncCheck	boolean	N/A	No
provideAlternative	boolean	N/A	No
requestedCheckProduct- StockDate	string	date-time	No
checkProductStockItem	array	CheckProductStockItem	Yes
place	PlaceRef	N/A	No
relatedParty	array	RelatedParty	No
requestedAvailability	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.42: Fields of CheckProductStock_Create.

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4.43 Comment

Indicates the comments entered on the alarm.

Field	Туре	Format	Required
comment	string	N/A	No
systemId	string	N/A	No
time	string	date-time	No
userld	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.43: Fields of Comment.

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4.44 ConstraintRef

Constraint reference. The Constraint resource represents a policy/rule applied to an entity or entity spec.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.44: Fields of ConstraintRef.

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4.45 ContactMedium

Indicates the contact medium that could be used to contact the party.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
mediumType	string	N/A	No
preferred	boolean	N/A	No
characteristic	MediumCharacteristic	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.45: Fields of ContactMedium.

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4.46 CrossedThresholdInformation

Identifies the details of the threshold that has been crossed.

Field	Туре	Format	Required
direction	string	N/A	No
granularity	string	N/A	No
indicatorName	string	N/A	No
indicatorUnit	string	N/A	No
observedValue	string	N/A	No
thresholdCrossingDescription	string	N/A	No
threshold	ThresholdRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.46: Fields of CrossedThresholdInformation.

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4.47 CustomerBill

The customer bill. Can be a regular recurring bill or an extra bill on demand by the customer or the csp.

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
billDate	string	date-time	No
billNo	string	N/A	No
category	string	N/A	No
lastUpdate	string	date-time	No
nextBillDate	string	date-time	No
paymentDueDate	string	date-time	No
amountDue	Money	N/A	No
appliedPayment	array	AppliedPayment	No
billCycle	BillCycleRef	N/A	No
billDocument	array	AttachmentOrDocumentRef	No
billingAccount	BillingAccountRef	N/A	No
billingPeriod	TimePeriod	N/A	No
financialAccount	FinancialAccountRef	N/A	No
paymentMethod	PaymentMethodRef	N/A	No
relatedParty	array	RelatedParty	No
remainingAmount	Money	N/A	No
runType	CustomerBillRunType	N/A	No
state	CustomerBillStateType	N/A	No
taxExcludedAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
taxItem	array	TaxItem	No
productOrder	ProductOrderRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.47: Fields of CustomerBill.

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4.48 CustomerBillRef

Bill reference.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.48: Fields of CustomerBillRef.

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4.49 CustomerBillRunType

Recommended Enumeration Type (not formal forced in standard): Valid values for the runType of a bill. The bill could be produced in a regular bill cycle 'onCycle'. Otherwise the bill is produced on a request (e.g. customer request). This could be indicated by 'offCycle'

Field	Туре	Format	Required
CustomerBillRunType	string	oneOf[onCycle, offCycle]	No

Table 4.49: Fields of CustomerBillRunType.

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4.50 CustomerBillStateType

Recommended Enumeration Type (not formal forced in standard): Valid values for the lifecycle state of the bill: new = 'bill is ready to validate or to sent', validated = 'bill is checked (manual / automatic)', sent = 'bill is sent with the channel defined in the billingaccount', settled = 'bill is payed', partiallySettled = 'bill is partially payed', onHold = 'bill will not be in further processing until open issues connected to the bill are solved'

Field	Туре	Format	Required
CustomerBillStateType	string	oneOf[new, onHold, validated, sent, settled, partiallyPaid, withdrawn]	No

Table 4.50: Fields of CustomerBillStateType.

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4.51 CustomerBill_Create

The customer bill to be created. Can be a regular recurring bill or an extra bill on demand by the customer or the csp.

Field	Туре	Format	Required
billDate	string	date-time	No
billNo	string	N/A	No
category	string	N/A	No
lastUpdate	string	date-time	No
nextBillDate	string	date-time	No
paymentDueDate	string	date-time	No
amountDue	Money	N/A	No
appliedPayment	array	AppliedPayment	No
billCycle	BillCycleRef	N/A	No
billDocument	array	AttachmentOrDocumentRef	No
billingAccount	BillingAccountRef	N/A	No
billingPeriod	TimePeriod	N/A	No
financialAccount	FinancialAccountRef	N/A	No
paymentMethod	PaymentMethodRef	N/A	No
relatedParty	array	RelatedParty	No
remainingAmount	Money	N/A	No
runType	CustomerBillRunType	N/A	No
state	CustomerBillStateType	N/A	No
taxExcludedAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
taxItem	array	TaxItem	No
productOrder	ProductOrderRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.51: Fields of CustomerBill_Create.

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4.52 CustomerBill_Update

The customer bill. Can be a regular recurring bill or an extra bill on demand by the customer or the csp. Skipped properties: id,href,amountDue,appliedPayment,billDate,billDocument,billNo,billingAccount,billingPeriod,category,financialAccourt

Field	Туре	Format	Required
billCycle	BillCycleRef	N/A	No
state	CustomerBillStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.52: Fields of CustomerBill_Update.

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4.53 CustomerCharacteristic

A characteristic describing the customer. Used to scope results of a CustomerInquiry.

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
valueType	string	N/A	No
value	string	N/A	No

Table 4.53: Fields of CustomerCharacteristic.

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4.54 CustomerInquiry

A request for information (resources, services, products and offerings) from a Customer.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
state	InquiryStateType	N/A	Yes
responseTime	ResponseTime	N/A	Yes
customerProfile	array	CustomerCharacteristic	No
bundlesOnly	boolean	N/A	No
customerResource	array	ResourceSpecification	No
place	array	PlaceRefOrValue	No
inquiredProduct	array	InquiredProduct	No
inquiredProvider	array	InquiredProvider	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.54: Fields of CustomerInquiry.

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4.55 CustomerInquiry_Create

A request for information (resources, services, products and offerings) from a Customer. Skipped properties: id,href,state,responseTime

Field	Туре	Format	Required
customerProfile	array	CustomerCharacteristic	No
bundlesOnly	boolean	N/A	No
customerResource	array	ResourceSpecification	No
place	array	PlaceRefOrValue	No
inquiredProduct	array	InquiredProduct	No
inquiredProvider	array	InquiredProvider	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.55: Fields of CustomerInquiry_Create.

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4.56 CustomerInquiry_Update

An update request of a customer inquiry that allows to change the inquired providers.

Field	Туре	Format	Required
inquiredProvider	array	InquiredProvider	No

Table 4.56: Fields of CustomerInquiry_Update.

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4.57 Disability

Lack or inadequate strength or ability.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
disabilityCode	string	N/A	No
disabilityName	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.57: Fields of Disability.

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4.58 Document

Document is a tangible output from an activity

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
documentType	string	N/A	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
version	string	N/A	No
attachment	array	Attachment	No
characteristic	array	Characteristic	No
documentRelationship	array	DocumentRef	No
relatedEntity	RelatedEntity	N/A	No
relatedParty	array	RelatedParty	No

Table 4.58: Fields of Document.

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4.59 DocumentRef

Reference to a document. A document contains metadata for the associated attachments.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.59: Fields of DocumentRef.

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4.60 Document_Create

Document is a tangible output from an activity Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
documentType	string	N/A	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
version	string	N/A	No
characteristic	array	Characteristic	No
documentRelationship	array	DocumentRef	No
relatedEntity	RelatedEntity	N/A	No
relatedParty	array	RelatedParty	No

Table 4.60: Fields of Document_Create.

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4.61 Document_Update

Document is a tangible output from an activity Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
documentType	string	N/A	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
version	string	N/A	No
characteristic	array	Characteristic	No
documentRelationship	array	DocumentRef	No
relatedEntity	RelatedEntity	N/A	No
relatedParty	array	RelatedParty	No

Table 4.61: Fields of Document_Update.

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4.62 Duration

A time interval in a given unit of time

Field	Туре	Format	Required
amount	integer	N/A	No
units	string	N/A	No

Table 4.62: Fields of Duration.

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4.63 Entity

Base entity schema for use in TMForum Open-APIs

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	Yes

Table 4.63: Fields of Entity.

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4.64 EntityRef

Entity reference schema to be use for all entityRef class.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.64: Fields of EntityRef.

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4.65 EntitySpecificationRelationship

A migration, substitution, dependency or exclusivity relationship between/among entity specifications.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
role	string	N/A	No
associationSpec	AssociationSpecificationRef	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.65: Fields of EntitySpecificationRelationship.

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4.66 EntityValue

Base entity value schema for use in TMForum Open-APIs

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.66: Fields of EntityValue.

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4.67 **Error**

Used when an API throws an Error, typically with a HTTP error response-code (3xx, 4xx, 5xx)

Field	Туре	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.67: Fields of Error.

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4.68 Error400

'Bad Request. (https://tools.ietf.org/html/rfc7231#section-6.5.1)'

Field	Туре	Format	Required
code	Error400Code	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.68: Fields of Error400.

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4.69 Error400Code

One of the following error codes: - missingQueryParameter: The URI is missing a required query-string parameter - missingQueryValue: The URI is missing a required query-string parameter value - invalidQuery: The query section of the URI is invalid - invalidBody: The request has an invalid body.

Field	Туре	Format	Required
Error400Code	string	oneOf[missingQueryParameter, missingQueryValue, invalidQuery, invalidBody]	No

Table 4.69: Fields of Error400Code.

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4.70 Error401

'Unauthorized. (https://tools.ietf.org/html/rfc7235#section-3.1)'

Field	Туре	Format	Required
code	Error401Code	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.70: Fields of Error401.

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4.71 Error401Code

One of the following error codes: - missingCredentials: No credentials provided - invalidCredentials: Provided credentials are invalid or expired.

Field	Туре	Format	Required
Error401Code	string	oneOf[missingCredentials, invalidCredentials]	No

Table 4.71: Fields of Error401Code.

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4.72 Error403

Forbidden. This code indicates that the server understood the request but refused to authorize it. (https://tools.ietf.org/html/rfc 6.5.3)

Field	Туре	Format	Required
code	Error403Code	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.72: Fields of Error403.

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4.73 Error403Code

This code indicates that the server understood the request but refuses to authorize it because of one of the following error codes: - accessDenied: Access denied - forbiddenRequester: Forbidden requester - tooManyUsers: Too many users.

Field	Туре	Format	Required
Error403Code	string	oneOf[accessDenied, forbiddenRequester, tooManyUsers]	No

Table 4.73: Fields of Error403Code.

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4.74 Error404

Resource for the requested path not found. (https://tools.ietf.org/html/rfc7231#section-6.5.4)

Field	Туре	Format	Required
code	string	oneOf[notFound]	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.74: Fields of Error404.

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4.75 Error422

Unprocessable entity due to a business validation problem. (https://tools.ietf.org/html/rfc4918#section-11.2)

Field	Туре	Format	Required
code	Error422Code	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
propertyPath	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.75: Fields of Error422.

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4.76 Error422Code

One of the following error codes: - missingProperty: The property that was expected is not present in the payload - invalidValue: The property has an incorrect value - invalidFormat: The property value does not comply with the expected value format - referenceNotFound: The object referenced by the property cannot be identified in the target system - unexpectedProperty: Additional, not expected property has been provided - tooLargeDataset: The requested entity will produce too much data - tooManyRecords: The number of records to be provided in the response exceeds the threshold - tooManyRequests: The number of simultaneous requests from one API client exceeds the threshold - otherIssue: Other problem was identified (detailed information provided in a reason).

Field	Туре	Format	Required
Error422Code	string	oneOf[missingProperty, invalidValue, invalidFormat, referenceNotFound, unexpectedProperty, tooLargeDataset, tooManyRecords, tooManyRequests, otherIssue]	No

Table 4.76: Fields of Error422Code.

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4.77 Error500

Internal Server Error. (https://tools.ietf.org/html/rfc7231#section-6.6.1)

Field	Туре	Format	Required
code	string	oneOf[internalError]	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.77: Fields of Error500.

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4.78 Error501

Not Implemented. Used in case Seller is not supporting an optional operation (https://tools.ietf.org/html/rfc7231#section-6.6.2)

Field	Туре	Format	Required
code	string	oneOf[notImplemented]	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.78: Fields of Error501.

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4.79 Event

event with common attributes.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
description	string	N/A	No
correlationId	string	N/A	No
domain	string	N/A	No
eventId	string	N/A	No
eventTime	string	date-time	No
eventType	string	N/A	No
priority	string	N/A	No
timeOccurred	string	date-time	No
title	string	N/A	No
analyticCharacteristic	array	Characteristic	No
event	object	N/A	No
relatedParty	array	RelatedParty	No
reportingSystem	EntityRef	N/A	No
source	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.79: Fields of Event.

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4.80 Event_Create

event with common attributes. Skipped properties: id,href

Field	Туре	Format	Required
description	string	N/A	No
correlationId	string	N/A	No
domain	string	N/A	No
eventId	string	N/A	No
eventTime	string	date-time	No
eventType	string	N/A	No
priority	string	N/A	No
timeOccurred	string	date-time	No
title	string	N/A	No
analyticCharacteristic	array	Characteristic	No
event	object	N/A	No
relatedParty	array	RelatedParty	No
reportingSystem	EntityRef	N/A	No
source	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.80: Fields of Event_Create.

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4.81 Extensible

Base Extensible schema for use in TMForum Open-APIs

Field	Туре	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	Yes

Table 4.81: Fields of Extensible.

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4.82 ExternalReference

External reference of the individual or reference in other system

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
externalReferenceType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.82: Fields of ExternalReference.

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4.83 Feature

Configuration feature.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	Yes
isBundle	boolean	N/A	No
isEnabled	boolean	N/A	No
constraint	array	ConstraintRef	No
featureCharacteristic	array	Characteristic	Yes
featureRelationship	array	FeatureRelationship	No

Table 4.83: Fields of Feature.

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4.84 FeatureRelationship

Configuration feature

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	Yes
relationshipType	string	N/A	Yes
validFor	TimePeriod	N/A	No

Table 4.84: Fields of FeatureRelationship.

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4.85 FeatureSpecification

Specification for resource, service or product features

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
isBundle	boolean	N/A	No
isEnabled	boolean	N/A	No
version	string	N/A	No
constraint	array	ConstraintRef	No
featureSpecCharacteristic	array	FeatureSpecificationCharacteristic	No
featureSpecRelationship	array	FeatureSpecificationRelation- ship	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.85: Fields of FeatureSpecification.

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4.86 FeatureSpecificationCharacteristic

Configuration feature characteristic specification.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
configurable	boolean	N/A	No
extensible	boolean	N/A	No
isUnique	boolean	N/A	No
maxCardinality	integer	N/A	No
minCardinality	integer	N/A	No
regex	string	N/A	No
valueType	string	N/A	No
featureSpecCharRelationship	array	FeatureSpecificationCharacteristicRelationship	No
featureSpecCharacteristic- Value	array	CharacteristicValueSpecification	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@valueSchemaLocation	string	N/A	No

Table 4.86: Fields of FeatureSpecificationCharacteristic.

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4.87 FeatureSpecificationCharacteristicRelationship

An aggregation, migration, substitution, dependency or exclusivity relationship between/among FeatureSpecificationCharacteristics.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
characteristicId	string	N/A	No
featureld	string	N/A	No
relationshipType	string	N/A	No
resourceSpecificationHref	string	uri	No
resourceSpecificationId	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.87: Fields of FeatureSpecificationCharacteristicRelationship.

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4.88 FeatureSpecificationRelationship

Relationship between feature specifications

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	Yes
parentSpecificationHref	string	uri	No
parentSpecificationId	string	N/A	No
relationshipType	string	N/A	Yes
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.88: Fields of FeatureSpecificationRelationship.

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4.89 FileTransferData

Defines the place where the report content should be stored.

Field	Туре	Format	Required
fileFormat	string	N/A	No
fileLocation	string	uri	No
transportProtocol	string	N/A	No
compressionType	string	oneOf[NO_PACKING, GZIP, TAR, VENDOR_EXT, MINOR_EXT]	No
packingType	string	N/A	No
retentionPeriod	string	N/A	No

Table 4.89: Fields of FileTransferData.

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4.90 FinancialAccountRef

AccountReceivable reference. An account of money owed by a party to another entity in exchange for goods or services that have been delivered or used. An account receivable aggregates the amounts of one or more party accounts (billing or settlement) owned by a given party.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.90: Fields of FinancialAccountRef.

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4.91 GeoJson

GeoJson

Field	Туре	Format	Required
type	string	oneOf["Feature", "FeatureCollection"]	Yes

Table 4.91: Fields of GeoJson.

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4.92 GeoJsonFeature

GeoJSon Feature

Field	Туре	Format	Required
geometry	Geometry	N/A	No
properties	any	N/A	No
type	string	"Feature"	Yes

Table 4.92: Fields of GeoJsonFeature.

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4.93 GeoJsonFeatureCollection

The GeoJSon FeatureCollection.

Field	Туре	Format	Required
features	array	GeoJsonFeature	No
type	string	"FeatureCollection"	Yes

Table 4.93: Fields of GeoJsonFeatureCollection.

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4.94 GeographicAddress

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
city	string	N/A	No
country	string	N/A	No
locality	string	N/A	No
postcode	string	N/A	No
stateOrProvince	string	N/A	No
streetName	string	N/A	No
streetNr	string	N/A	No
streetNrLast	string	N/A	No
streetNrLastSuffix	string	N/A	No
streetNrSuffix	string	N/A	No
streetSuffix	string	N/A	No
streetType	string	N/A	No
geographicLocation	GeographicLocationRefOr- Value	N/A	No
geographicAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"GeographicAddress"	Yes

Table 4.94: Fields of GeographicAddress.

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4.95 GeographicLocation

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
geoJson	Geometry	N/A	No
bbox	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"GeographicLocation"	Yes

Table 4.95: Fields of GeographicLocation.

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4.96 GeographicLocationRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@referredType	string	N/A	No
@type	string	"GeographicLocationRef"	Yes

Table 4.96: Fields of GeographicLocationRef.

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4.97 GeographicLocationRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the GeographicLocation entity and not the GeographicLocationRefOrValue class itself

Field	Туре	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicLocationRef"]	Yes

Table 4.97: Fields of GeographicLocationRefOrValue.

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4.98 Geometry

A GeoJson geometry.

Field	Туре	Format	Required
type	string	oneOf["LineString", "MultiLineString", "MultiPoint", "MultiPolygon", "Point", "Polygon"]	Yes

Table 4.98: Fields of Geometry.

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4.99 HourRange

Defines start and end date

Field	Туре	Format	Required
start	string	date-time	No
end	string	date-time	No

Table 4.99: Fields of HourRange.

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4.100 HubSubscription

A Hub is used to subscribe to an event notification

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
callback	string	uri	Yes
query	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.100: Fields of HubSubscription.

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4.101 HubSubscription_Create

A Hub is used to subscribe to an event notification Skipped properties: id,href

Field	Туре	Format	Required
callback	string	uri	Yes
query	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.101: Fields of HubSubscription_Create.

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4.102 Individual

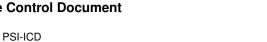
Individual represents a single human being (a man, woman or child). The individual can be a customer, an employee or any other person that the organization needs to store information about.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
aristocraticTitle	string	N/A	No
birthDate	string	date-time	No
countryOfBirth	string	N/A	No
deathDate	string	date-time	No
familyName	string	N/A	No
familyNamePrefix	string	N/A	No
formattedName	string	N/A	No
fullName	string	N/A	No
gender	string	N/A	No
generation	string	N/A	No
givenName	string	N/A	No
legalName	string	N/A	No
location	string	N/A	No
maritalStatus	string	N/A	No
middleName	string	N/A	No
nationality	string	N/A	No
placeOfBirth	string	N/A	No
preferredGivenName	string	N/A	No
title	string	N/A	No
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
disability	array	Disability	No
externalReference	array	ExternalReference	No
individualIdentification	array	IndividualIdentification	No
languageAbility	array	LanguageAbility	No
otherName	array	OtherNameIndividual	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No

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Field	Туре	Format	Required
skill	array	Skill	No
status	IndividualStateType	N/A	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.102: Fields of Individual.

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4.103 IndividualIdentification

Represents our registration of information used as proof of identity by an individual (passport, national identity card, drivers license, social security number, birth certificate)

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
identificationId	string	N/A	No
identificationType	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
attachment	AttachmentOrDocumentRef	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.103: Fields of IndividualIdentification.

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4.104 IndividualStateType

Valid values for the lifecycle state of the individual

Field	Туре	Format	Required
IndividualStateType	string	oneOf[initialized, validated, deceased]	No

Table 4.104: Fields of IndividualStateType.

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4.105 Individual_Create

Individual represents a single human being (a man, woman or child). The individual can be a customer, an employee or any other person that the organization needs to store information about. Skipped properties: id,href

Field	Туре	Format	Required
aristocraticTitle	string	N/A	No
birthDate	string	date-time	No
countryOfBirth	string	N/A	No
deathDate	string	date-time	No
familyName	string	N/A	Yes
familyNamePrefix	string	N/A	No
formattedName	string	N/A	No
fullName	string	N/A	No
gender	string	N/A	No
generation	string	N/A	No
givenName	string	N/A	Yes
legalName	string	N/A	No
location	string	N/A	No
maritalStatus	string	N/A	No
middleName	string	N/A	No
nationality	string	N/A	No
placeOfBirth	string	N/A	No
preferredGivenName	string	N/A	No
title	string	N/A	No
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
disability	array	Disability	No
externalReference	array	ExternalReference	No
individualIdentification	array	IndividualIdentification	No
languageAbility	array	LanguageAbility	No
otherName	array	OtherNameIndividual	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No
skill	array	Skill	No
status	IndividualStateType	N/A	No

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Field	Туре	Format	Required
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.105: Fields of Individual_Create.

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4.106 Individual_Update

Individual represents a single human being (a man, woman or child). The individual can be a customer, an employee or any other person that the organization needs to store information about. Skipped properties: id,href

Field	Туре	Format	Required
aristocraticTitle	string	N/A	No
birthDate	string	date-time	No
countryOfBirth	string	N/A	No
deathDate	string	date-time	No
familyName	string	N/A	No
familyNamePrefix	string	N/A	No
formattedName	string	N/A	No
fullName	string	N/A	No
gender	string	N/A	No
generation	string	N/A	No
givenName	string	N/A	No
legalName	string	N/A	No
location	string	N/A	No
maritalStatus	string	N/A	No
middleName	string	N/A	No
nationality	string	N/A	No
placeOfBirth	string	N/A	No
preferredGivenName	string	N/A	No
title	string	N/A	No
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
disability	array	Disability	No
externalReference	array	ExternalReference	No
individualIdentification	array	IndividualIdentification	No
languageAbility	array	LanguageAbility	No
otherName	array	OtherNameIndividual	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No
skill	array	Skill	No
status	IndividualStateType	N/A	No

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Field	Туре	Format	Required
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.106: Fields of Individual_Update.

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4.107 InquiredCharacteristicValueSpecification

specification of a value (number or text or an object) that can be assigned to a Characteristic.

Field	Туре	Format	Required
precedence	CharacteristicValuePrecedence	N/A	No
unitOfMeasure	string	N/A	No
valueType	string	N/A	No
value	object	N/A	No

Table 4.107: Fields of InquiredCharacteristicValueSpecification.

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4.108 InquiredProduct

A product inquired by the customer.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
servicePeriod	TimePeriod	N/A	No
place	array	RelatedPlaceRefOrValue	No
inquiredProductCharacteristic	array	InquiredProductCharacteristic	No
estimatedUsage	array	UsageEstimation	No

Table 4.108: Fields of InquiredProduct.

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4.109 InquiredProductCharacteristic

A characteristic quality or distinctive feature of an InquiredProduct. The characteristic can take a discrete value, such as color, can take a range of values, (for example, sensitivity of 100-240 mV), or can be derived from a formula (for example, usage time (hrs) = 30 - talk time *3).

Field	Туре	Format	Required
id	string	N/A	Yes
name	string	N/A	No
priority	number	N/A	No
valueType	string	N/A	No
inquiredProductCharacteris- ticValue	array	InquiredCharacteristicValue- Specification	Yes

Table 4.109: Fields of InquiredProductCharacteristic.

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4.110 InquiredProductRef

A reference to an InquiredProduct.

Field	Туре	Format	Required
id	string	N/A	Yes
name	string	N/A	No

Table 4.110: Fields of InquiredProductRef.

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4.111 InquiredProductRelationship

Field	Туре	Format	Required
inquiredProductRef	InquiredProductRef	N/A	Yes
coverage	string	oneOf[complete, partial]	No
quantity	integer	N/A	No
totalPrice	array	TotalPrice	No
servicePeriod	TimePeriod	N/A	No
relationshipCharacteristic	array	RelationshipCharacteristic	No
productOfferingRef	ProductOfferingRef	N/A	No
productSpecificationRef	ProductSpecificationRef	N/A	No
productRef	ProductRef	N/A	No

Table 4.111: Fields of InquiredProductRelationship.

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4.112 InquiredProvider

A provider to which the customer inquiry will be sent.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
state	InquiryStateType	N/A	No
actualResponseTime	string	date-time	No

Table 4.112: Fields of InquiredProvider.

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4.113 InquiryResult

A ranked result of an inquiry. Must contain at least one ProductSpecification, optionally complemented by an offering.

Field	Туре	Format	Required
id	string	N/A	Yes
priority	number	N/A	No
note	array	Note	No
totalPrice	array	TotalPrice	No
inquiredProductRelationship	array	InquiredProductRelationship	No
productSpecification	array	ProductSpecification	Yes
product	array	Product	No
productOffering	array	ProductOffering	No

Table 4.113: Fields of InquiryResult.

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4.114 InquiryStateType

Possible values for the state of the customer inquiry

Field	Туре	Format	Required
InquiryStateType	string	oneOf[pending, inProgress, cancelled, completed]	No

Table 4.114: Fields of InquiryStateType.

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4.115 Interval

Enumeration of applicable time intervals

Field	Туре	Format	Required
Interval	string	oneOf[10 milliseconds, 100 milliseconds, 1 second, 10 second, 1 minute, 5 minutes, 15 minutes, 30 minutes, 1 hour, 24 hours, 1 month, 1 year, not applicable]	No

Table 4.115: Fields of Interval.

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4.116 JobType

The type of PM Job

Field	Туре	Format	Required
JobType	string	oneOf[on-demand]	No

Table 4.116: Fields of JobType.

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4.117 KeyIndicator

KeyIndicators are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorith- mOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
validFor	TimePeriod	N/A	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.117: Fields of KeyIndicator.

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4.118 KeyIndicatorRelationship

A uni-directionmal relationship from this entity to a target entity instance.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	EntityRef	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.118: Fields of KeyIndicatorRelationship.

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4.119 KeyIndicator_Create

KeyIndicator are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorith- mOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
validFor	TimePeriod	N/A	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.119: Fields of KeyIndicator_Create.

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4.120 KeyIndicator_Update

KeyIndicator are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorith- mOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.120: Fields of KeyIndicator_Update.

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4.121 LanguageAbility

Ability of an individual to understand or converse in a language.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
isFavouriteLanguage	boolean	N/A	No
languageCode	string	N/A	No
languageName	string	N/A	No
listeningProficiency	string	N/A	No
readingProficiency	string	N/A	No
speakingProficiency	string	N/A	No
writingProficiency	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.121: Fields of LanguageAbility.

Date: 2025-02-03 Version: 1.2.2

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4.122 LineString

A GeoJSON LineString.

Field	Туре	Format	Required
coordinates	array	Point2D	No
type	string	"LineString"	Yes

Table 4.122: Fields of LineString.

Ref: PSI-ICD

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4.123 LogicalResource

Logic resource is a type of resource that describes the common set of attributes shared by all concrete logical resources (e.g. TPE, MSISDN, IP Addresses) in the inventory.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	Yes
name	string	N/A	No
description	string	N/A	No
value	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"LogicalResource"	Yes

Table 4.123: Fields of LogicalResource.

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4.124 LogicalResourceSpecification

This is an example of a derived class of ResourceSpecification, and is used to define the invariant characteristics and behavior (attributes, methods, constraints, and relationships) of a LogicalResource.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
featureSpecification	array	FeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecCharacteristic	array	ResourceSpecificationCharacteristic	No
resourceSpecRelationship	array	ResourceSpecificationRela- tionship	No
targetResourceSchema	TargetResourceSchema	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"LogicalResourceSpecification"	Yes

Table 4.124: Fields of LogicalResourceSpecification.

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4.125 MarketSegmentRef

provides references to the corresponding market segment as target of product offerings. A market segment is grouping of Parties, GeographicAreas, SalesChannels, and so forth.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.125: Fields of MarketSegmentRef.

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4.126 MeasurementTime

Timeframe boundary for collected data

Field	Туре	Format	Required
measurementStartDate	string	date-time	No
measurementEndDate	string	date-time	No
measurementInterval	Interval	N/A	No

Table 4.126: Fields of MeasurementTime.

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4.127 MediumCharacteristic

Describes the contact medium characteristics that could be used to contact a party (an individual or an organization)

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
city	string	N/A	No
contactType	string	N/A	No
country	string	N/A	No
emailAddress	string	N/A	No
faxNumber	string	N/A	No
phoneNumber	string	N/A	No
postCode	string	N/A	No
socialNetworkId	string	N/A	No
stateOrProvince	string	N/A	No
street1	string	N/A	No
street2	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.127: Fields of MediumCharacteristic.

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4.128 Mission

A mission of a customer.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
lastUpdate	string	date-time	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.128: Fields of Mission.

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4.129 MissionAsset

Planning of a required asset in a mission. May contain any combination of user-defined characteristics for an inquiry, an ordered product or a service/resource that is already in the customer inventory.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
servicePeriod	RelativeTimePeriod	N/A	No
place	array	RelatedPlaceRefOrValue	No
inquiredProductCharacteristic	array	InquiredProductCharacteristic	No
realizingProduct	array	ProductRef	No
realizingService	array	ServiceRef	No
realizingResource	array	ResourceRef	No
assetRelationship	array	MissionAssetRelationship	No

Table 4.129: Fields of MissionAsset.

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4.130 MissionAssetRelationship

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No

Table 4.130: Fields of MissionAssetRelationship.

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4.131 MissionRelationship

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
name	string	N/A	No
relationshipType	string	N/A	No

Table 4.131: Fields of MissionRelationship.

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4.132 MissionStatusType

Possible values for the status of a mission

Field	Туре	Format	Required
MissionStatusType	string	oneOf[draft, active, cancelled, completed]	No

Table 4.132: Fields of MissionStatusType.

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4.133 Mission_Create

A mission of a customer. Skipped properties: id,href,lastUpdated

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.133: Fields of Mission_Create.

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4.134 Mission_Update

A mission of a customer. Skipped properties: id,href,lastUpdated

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.134: Fields of Mission_Update.

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4.135 ModifyPerformanceJob

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance- Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No
creationDate	string	date-time	Yes
modificationDeniedReason	string	N/A	No
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.135: Fields of ModifyPerformanceJob.

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4.136 ModifyPerformanceJob_Common

Request for modification of an existing Performance Job

Field	Туре	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance- Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No

Table 4.136: Fields of ModifyPerformanceJob_Common.

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4.137 ModifyPerformanceJob_Create

Field	Туре	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance- Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No

Table 4.137: Fields of ModifyPerformanceJob_Create.

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4.138 ModifyPerformanceJob_Find

This class represents a single list item for the response of ${\tt listModifyPerformanceJob}$

Field	Туре	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.138: Fields of ModifyPerformanceJob_Find.

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4.139 ModifyPerformanceJob_ProfileValue

Direct assignment of values defined by PerformanceProfile type to PerformanceJob object. Necessary when PerformanceJob is created without reference to PerformanceProfile.

Field	Туре	Format	Required
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
outputFormat	OutputFormat	N/A	No
reportingPeriod	Interval	N/A	No
resultFormat	ResultFormat	N/A	No

Table 4.139: Fields of ModifyPerformanceJob_ProfileValue.

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4.140 Money

A base / value business entity used to represent money

Field	Туре	Format	Required
unit	string	N/A	No
value	number	float	No

Table 4.140: Fields of Money.

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4.141 MonthlyScheduleDayOfWeekDefinition

Monthly scheduled day of the week.

Field	Туре	Format	Required
recurringDaySequence	array	DayOfWeek	No
dayOfMonthRecurrence	array	DayOfMonth	No

Table 4.141: Fields of MonthlyScheduleDayOfWeekDefinition.

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4.142 MultiLineString

A GeoJSON MultiLineString.

Field	Туре	Format	Required
coordinates	array	Point2D	No
type	string	"MultiLineString"	Yes

Table 4.142: Fields of MultiLineString.

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4.143 MultiPoint

A GeoJSON MultiPoint.

Field	Туре	Format	Required
coordinates	array	Point2D	No
type	string	"MultiPoint"	Yes

Table 4.143: Fields of MultiPoint.

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4.144 MultiPolygon

A GeoJSON MultiPolygon.

Field	Туре	Format	Required
coordinates	array	Point2D	No
type	string	"MultiPolygon"	Yes

Table 4.144: Fields of MultiPolygon.

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4.145 Note

Extra information about a given entity

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
author	string	N/A	No
date	string	date-time	No
text	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.145: Fields of Note.

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4.146 OrderItemActionType

action to be performed on the product

Field	Туре	Format	Required
OrderItemActionType	string	oneOf[add, modify, delete, noChange]	No

Table 4.146: Fields of OrderItemActionType.

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4.147 OrderItemRelationship

Field	Туре	Format	Required
id	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.147: Fields of OrderItemRelationship.

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4.148 OrderPrice

An amount, usually of money, that represents the actual price paid by the Customer for this item or this order

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
priceType	string	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
price	Price	N/A	No
priceAlteration	array	PriceAlteration	No
productOfferingPrice	ProductOfferingPriceRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.148: Fields of OrderPrice.

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4.149 OrderTerm

Description of a productTerm linked to this orderItem. This represent a commitment with a duration

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Quantity	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.149: Fields of OrderTerm.

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4.150 Organization

Organization represents a group of people identified by shared interests or purpose. Examples include business, department and enterprise. Because of the complex nature of many businesses, both organizations and organization units are represented by the same data.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
isHeadOffice	boolean	N/A	No
isLegalEntity	boolean	N/A	No
nameType	string	N/A	No
organizationType	string	N/A	No
tradingName	string	N/A	No
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
existsDuring	TimePeriod	N/A	No
externalReference	array	ExternalReference	No
organizationChildRelationship	array	OrganizationChildRelation- ship	No
organizationIdentification	array	OrganizationIdentification	No
organizationParentRelation- ship	OrganizationParentRelation- ship	N/A	No
otherName	array	OtherNameOrganization	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No
status	OrganizationStateType	N/A	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.150: Fields of Organization.

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4.151 OrganizationChildRelationship

Child references of an organization in a structure of organizations.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
relationshipType	string	N/A	No
organization	OrganizationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.151: Fields of OrganizationChildRelationship.

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4.152 OrganizationIdentification

Represents our registration of information used as proof of identity by an organization

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
identificationId	string	N/A	No
identificationType	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
attachment	AttachmentOrDocumentRef	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.152: Fields of OrganizationIdentification.

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4.153 OrganizationParentRelationship

Parent references of an organization in a structure of organizations.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
relationshipType	string	N/A	No
organization	OrganizationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.153: Fields of OrganizationParentRelationship.

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4.154 OrganizationRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.154: Fields of OrganizationRef.

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4.155 OrganizationStateType

Valid values for the lifecycle state of the organization

Field	Туре	Format	Required
OrganizationStateType	string	oneOf[initialized, validated, closed]	No

Table 4.155: Fields of OrganizationStateType.

Ref: PSI-ICD

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4.156 Organization_Create

Organization represents a group of people identified by shared interests or purpose. Examples include business, department and enterprise. Because of the complex nature of many businesses, both organizations and organization units are represented by the same data. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
isHeadOffice	boolean	N/A	No
isLegalEntity	boolean	N/A	No
nameType	string	N/A	No
organizationType	string	N/A	No
tradingName	string	N/A	Yes
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
existsDuring	TimePeriod	N/A	No
externalReference	array	ExternalReference	No
organizationChildRelationship	array	OrganizationChildRelation- ship	No
organizationIdentification	array	OrganizationIdentification	No
organizationParentRelation- ship	OrganizationParentRelation- ship	N/A	No
otherName	array	OtherNameOrganization	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No
status	OrganizationStateType	N/A	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.156: Fields of Organization_Create.

Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



4.157 Organization_Update

Organization represents a group of people identified by shared interests or purpose. Examples include business, department and enterprise. Because of the complex nature of many businesses, both organizations and organization units are represented by the same data. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
isHeadOffice	boolean	N/A	No
isLegalEntity	boolean	N/A	No
nameType	string	N/A	No
organizationType	string	N/A	No
tradingName	string	N/A	No
contactMedium	array	ContactMedium	No
creditRating	array	PartyCreditProfile	No
existsDuring	TimePeriod	N/A	No
externalReference	array	ExternalReference	No
organizationChildRelationship	array	OrganizationChildRelation- ship	No
organizationIdentification	array	OrganizationIdentification	No
organizationParentRelation- ship	OrganizationParentRelation- ship	N/A	No
otherName	array	OtherNameOrganization	No
partyCharacteristic	array	Characteristic	No
relatedParty	array	RelatedParty	No
status	OrganizationStateType	N/A	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.157: Fields of Organization_Update.

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4.158 OtherNameIndividual

Keeps track of other names, for example the old name of a woman before marriage or an artist name.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
aristocraticTitle	string	N/A	No
familyName	string	N/A	No
familyNamePrefix	string	N/A	No
formattedName	string	N/A	No
fullName	string	N/A	No
generation	string	N/A	No
givenName	string	N/A	No
legalName	string	N/A	No
middleName	string	N/A	No
preferredGivenName	string	N/A	No
title	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.158: Fields of OtherNameIndividual.

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4.159 OtherNameOrganization

Keeps track of other names, for example the old name of an organization.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
nameType	string	N/A	No
tradingName	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.159: Fields of OtherNameOrganization.

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4.160 OutputFormat

List of possible output formats for the Performance Report

Field	Туре	Format	Required
OutputFormat	string	oneOf[json, xml, avro, csv]	No

Table 4.160: Fields of OutputFormat.

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4.161 POPAlteration

Is an amount, usually of money, that modifies the price charged for an order item.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
priceType	string	N/A	Yes
priority	integer	N/A	No
recurringChargePeriod	string	N/A	No
applicationDuration	Duration	N/A	No
price	ProductPriceValue	N/A	Yes
unitOfMeasure	Quantity	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.161: Fields of POPAlteration.

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4.162 PartyCreditProfile

An individual might be evaluated for its worthiness and this evaluation might be based on a credit rating given by a credit agency.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
creditAgencyName	string	N/A	No
creditAgencyType	string	N/A	No
ratingReference	string	N/A	No
ratingScore	integer	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.162: Fields of PartyCreditProfile.

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4.163 PaymentMethodRef

PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.163: Fields of PaymentMethodRef.

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4.164 PaymentRef

If an immediate payment has been done at the product order submission, the payment information are captured and stored (as a reference) in the order.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.164: Fields of PaymentRef.

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4.165 PerceivedSeverity

Lists the possible severities that can be allocated to an Alarm. The values are consistent with ITU-T Recommendation X.733. Once an alarm has been cleared, its perceived severity is set to 'cleared' and can no longer be set.

Field	Туре	Format	Required
PerceivedSeverity	string	oneOf[critical, major, minor, warning, indeterminate, cleared]	No

Table 4.165: Fields of PerceivedSeverity.

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4.166 PerformanceJob

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	Yes
creationDate	string	date-time	Yes
lastModifiedDate	string	date-time	No
rejectionReason	string	N/A	No
state	PerformanceJobStateType	N/A	Yes

Table 4.166: Fields of PerformanceJob.

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4.167 PerformanceJobComplexQuery

Performance Job Complex Query entity is used to perform searches on Performance Job entities, including clauses based on ScheduleDefinition and ServicePayloadSpecificAttributes.

Field	Туре	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	No
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	No
performanceJob	PerformanceJobRef	N/A	No
producingApplicationId	string	N/A	No
reportingPeriod	Interval	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No
state	PerformanceJobStateType	N/A	No

Table 4.167: Fields of PerformanceJobComplexQuery.

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4.168 PerformanceJobComplexQuery_Create

Performance Job Complex Query entity is used to perform searches on Performance Job entities, including clauses based on ScheduleDefinition and ServicePayloadSpecificAttributes.

Field	Туре	Format	Required
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate.gt	string	date-time	No
creationDate.lt	string	date-time	No
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	No
producingApplicationId	string	N/A	No
reportingPeriod	Interval	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No
state	PerformanceJobStateType	N/A	No

Table 4.168: Fields of PerformanceJobComplexQuery_Create.

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4.169 PerformanceJobProcessStateType

Field	Туре	Format	Required
PerformanceJobPro- cessStateType	string	oneOf[accepted, acknowledged, completed, declined]	No

Table 4.169: Fields of PerformanceJobProcessStateType.

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4.170 PerformanceJobRef

A reference to a Performance Job resource

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
@type	string	"PerformanceJobRef"	Yes

Table 4.170: Fields of PerformanceJobRef.

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4.171 PerformanceJobRefOrValue

Defines the reference to Performance Monitoring Job or defines values from PerformanceJob type.

Field	Туре	Format	Required
@type	string	oneOf["PerformanceJobRef", "PerformanceJobValue"]	Yes

Table 4.171: Fields of PerformanceJobRefOrValue.

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4.172 PerformanceJobStateType

The state of the Performance Monitoring Job.
state MEF 133 name Description

| | acknowledged | Acknowledged | A Create Performance Monitoring Job request has been received by the Seller/Server and has passed basic validation. Performance Monitoring Job Identifier is assigned in the Acknowledged state. The request remains Acknowledged until all validations as applicable are completed. If the attributes are validated the request determines if the start time is immediate or scheduled. If immediate, the Performance Monitoring Job moves to the In-progress state. If scheduled, the Performance Monitoring Job moves to the Scheduled state. If not all attributes are validated, the request moves to the Rejected state. | | cancelled | Cancelled | A Performance Monitoring Job that is In-Progress, Suspended, or Sceduled is cancelled. | | completed | Completed | A non-recurring Performance Monitoring Job finished execution. | | inProgress | In-Progress | A Performance Monitoring Job is running. Upon completion of the Job, a determination if the Performance Monitoring Job is a one-time Job or is recurring is performed. If the Performance Monitoring Job is a one-time Job, the state of the Performance Monitoring Job moves to the Completed state. If the Performance Monitoring Job is recurring, the Performance Monitoring Job circles back to determine if it has an immediate start time or a scheduled start time. If a Suspend Performance Monitoring Job request is accepted, the Job moves to the Suspended state. If a Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. | | pending | Pending | A Modify Performance Monitoring Job request has been accepted by the Seller/Server. The Performance Monitoring Job remains Pending while updates to the Job are completed. Once updates are complete, the Job returns to the Scheduled or In-Progress status depending on the schedule definition. | | rejected | Rejected | A create Performance Monitoring Job request fails validation and is rejected with error indications by the Seller/Server. | | resourceUnavailable | Resource Unavailable | A Performance Monitoring Job cannot be allocated necessary resources when moving to execution (In-Progress state). | | scheduled | Scheduled | A Performance Monitoring Job is created that does not have an immediate start time. The Performance Monitoring Job stays Scheduled until the start time is reached. The Performance Monitoring Job then moves to In-Progress. If the Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. If the Modify Performance Monitoring Job request is accepted, the Job moves to the Pending state. | | suspended | Suspended | A Suspend Performance Monitoring Job request is accepted by the Seller/Server. The Job remains Suspended until a Resume Performance Monitoring Job request is accepted by the Seller/Server at which time the Job returns to the In-Progress state. If the Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. If the Modify Performance Monitoring Job request is accepted, the Job moves to the Pending state.

Field	Туре	Format	Required
PerformanceJobStateType	string	oneOf[acknowledged, cancelled, completed, inProgress, pending, rejected, resourceUnavailable, scheduled, suspended]	No

Table 4.172: Fields of PerformanceJobStateType.

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4.173 PerformanceJobValue

Direct assignment of values defined by PerformanceJob type to PerformanceReport object. Necessary when PerformanceReport is not created by PerformanceJob and without relation to PerformanceJob.

Field	Туре	Format	Required
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	Yes
producingApplicationId	string	N/A	No
resultFormat	ResultFormat	N/A	Yes
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	Yes
@type	string	"PerformanceJobValue"	Yes

Table 4.173: Fields of PerformanceJobValue.

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4.174 PerformanceJob_Common

A Performance Monitoring Job specifies the performance monitoring objectives specific to each subject of monitoring which could be an ordered pair (i.e., two UNIs) or an entity (i.e., port).

Field	Туре	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	Yes

Table 4.174: Fields of PerformanceJob_Common.

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4.175 PerformanceJob_Create

Field	Туре	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	Yes

Table 4.175: Fields of PerformanceJob_Create.

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4.176 PerformanceJob_Find

This class represents a single list item for the response of the <code>listPerformanceJob</code> operation.

Field	Туре	Format	Required
id	string	N/A	Yes
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	Yes
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
state	PerformanceJobStateType	N/A	Yes

Table 4.176: Fields of PerformanceJob_Find.

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4.177 PerformanceProfileValue

Direct assignment of values defined by PerformanceProfile type to PerformanceJob object. Necessary when PerformanceJob is created without reference to PerformanceProfile.

Field	Туре	Format	Required
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	Yes
outputFormat	OutputFormat	N/A	Yes
reportingPeriod	Interval	N/A	No
resultFormat	ResultFormat	N/A	Yes

Table 4.177: Fields of PerformanceProfileValue.

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4.178 PerformanceReport

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
creationDate	string	date-time	Yes
failureReason	string	N/A	No
lastModifiedDate	string	date-time	No
performanceJob	PerformanceJobRefOrValue	N/A	No
reportContent	array	ReportContentItem	No
reportUrl	AttachmentURL	N/A	No
state	PerformanceReportStateType	N/A	Yes

Table 4.178: Fields of PerformanceReport.

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4.179 PerformanceReportComplexQuery

Performance Report Complex Query entity is used to perform searches on Performance Report entities, including clauses based on ServicePayloadSpecificAttributes.

Field	Туре	Format	Required
description	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	No
performanceJob	PerformanceJobRef	N/A	No
performanceReport	PerformanceReportRef	N/A	No
producingApplicationId	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
resultFormat	ResultFormat	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No
state	PerformanceReportStateType	N/A	No

Table 4.179: Fields of PerformanceReportComplexQuery.

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4.180 PerformanceReportComplexQuery_Create

Performance Report Complex Query entity is used to perform searches on Performance Report entities, including clauses based on ServicePayloadSpecificAttributes.

Field	Туре	Format	Required
consumingApplicationId	string	N/A	No
creationDate.gt	string	date-time	No
creationDate.lt	string	date-time	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	No
performanceJob	PerformanceJobRef	N/A	No
producingApplicationId	string	N/A	No
reportingTime- frame.startDate.gt	string	date-time	No
reportingTime- frame.startDate.lt	string	date-time	No
reportingTime- frame.endDate.gt	string	date-time	No
reportingTime- frame.endDate.lt	string	date-time	No
resultFormat	ResultFormat	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No
state	PerformanceReportStateType	N/A	No

Table 4.180: Fields of PerformanceReportComplexQuery_Create.

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4.181 PerformanceReportRef

A reference to a Performance Report resource

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No

Table 4.181: Fields of PerformanceReportRef.

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4.182 PerformanceReportStateType

Possible values for the state of a Performance Report.

| State | Description | | — | — | — | — | — | — | — | — | | acknowledged | A Performance Report request has been received by Seller/Server and has passed basic validations. Performance Report Identifier is assigned in the Acknowledged state. The report remains Acknowledged until all validations as applicable are completed. If the attributes are validated, the Performance Report moves to the In-Progress state. If not all attributes are validated, the report moves to the Rejected state. | | completed | A Performance Report is completed and results are available. | | failed | A Performance Report processing has failed. | | inProgress | A Performance Report has successfully passed the validations checks and the report processing has started. | | rejected | This state indicates that:

- Invalid information is provided through the PerformanceReport request
- The request fails to meet validation rules for PerformanceReport delivery (processing).

Field	Туре	Format	Required
PerformanceReportStateType	string	oneOf[acknowledged, completed, failed, inProgress, rejected]	No

Table 4.182: Fields of PerformanceReportStateType.

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4.183 PerformanceReport_Common

The execution of PM Job results in Performance Measurement collections that provide Buyer/Client with performance objectives results.

Field	Туре	Format	Required
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No

Table 4.183: Fields of PerformanceReport_Common.

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4.184 PerformanceReport_Create

Field	Туре	Format	Required
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
performanceJob	PerformanceJobValue	N/A	Yes

Table 4.184: Fields of PerformanceReport_Create.

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4.185 PerformanceReport_Find

This class represents a single list item for the response of the <code>listPerformanceReport</code> operation.

Field	Туре	Format	Required
id	string	N/A	Yes
description	string	N/A	No
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRefOrValue	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
state	PerformanceReportStateType	N/A	Yes

Table 4.185: Fields of PerformanceReport_Find.

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4.186 PhysicalResource

Physical resource is a type of resource that describes the common set of attributes shared by all concrete physical resources (e.g. EQUIPMENT) in the inventory.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	Yes
name	string	N/A	No
description	string	N/A	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No
versionNumber	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"PhysicalResource"	Yes

Table 4.186: Fields of PhysicalResource.

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4.187 PhysicalResourceSpecification

This is an example of a derived class of ResourceSpecification, and is used to define the invariant characteristics and behavior (attributes, methods, constraints, and relationships) of a PhysicalResource.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
model	string	N/A	No
part	string	N/A	No
sku	string	N/A	No
vendor	string	N/A	No
category	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
featureSpecification	array	FeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecCharacteristic	array	ResourceSpecificationCharacteristic	No
resourceSpecRelationship	array	ResourceSpecificationRela- tionship	No
targetResourceSchema	TargetResourceSchema	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	"PhysicalResourceSpecification"	Yes

Table 4.187: Fields of PhysicalResourceSpecification.

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4.188 Place

Place reference. Place defines the places where the products are sold or delivered.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	oneOf["Place", "GeographicLocation", "GeographicAddress"]	Yes

Table 4.188: Fields of Place.

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4.189 PlaceRef

Place reference. PlaceRef defines the placeRefs where the products are sold or delivered.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@referredType	string	N/A	No
@type	string	"PlaceRef"	Yes

Table 4.189: Fields of PlaceRef.

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4.190 PlaceRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Place entity and not the PlaceRefOrValue class itself

Field	Туре	Format	Required
@type	string	oneOf["GeographicAddress", "GeographicLocation", "PlaceRef"]	Yes

Table 4.190: Fields of PlaceRefOrValue.

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4.191 **Point**

A GeoJSON Point.

Field	Туре	Format	Required
coordinates	Point2D	N/A	No
type	string	"Point"	Yes

Table 4.191: Fields of Point.

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4.192 Point2D

Field	Туре	Format	Required
N/A	array	number	No

Table 4.192: Fields of Point2D.

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4.193 Polygon

A GeoJSON Polygon.

Field	Туре	Format	Required
coordinates	array	Point2D	No
type	string	"Polygon"	Yes

Table 4.193: Fields of Polygon.

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4.194 Price

Provides all amounts (tax included, duty free, tax rate), used currency and percentage.

Field	Туре	Format	Required
percentage	number	float	No
taxRate	number	float	No
dutyFreeAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.194: Fields of Price.

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4.195 PriceAlteration

Is an amount, usually of money, that modifies the price charged for an order item.

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
applicationDuration	integer	N/A	No
priceType	string	N/A	Yes
priority	integer	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price	N/A	Yes
productOfferingPrice	ProductOfferingPriceRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.195: Fields of PriceAlteration.

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4.196 Product

A product offering procured by a customer or other interested party playing a party role. A product is realized as one or more service(s) and / or resource(s).

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productSerialNumber	string	N/A	No
startDate	string	date-time	No
terminationDate	string	date-time	No
agreement	array	AgreementItemRef	No
billingAccount	BillingAccountRef	N/A	No
place	array	RelatedPlaceRefOrValue	No
product	array	ProductRefOrValue	No
productCharacteristic	array	Characteristic	No
productOffering	ProductOfferingRef	N/A	No
productOrderItem	array	RelatedProductOrderItem	No
productPrice	array	ProductPrice	No
productRelationship	array	ProductRelationship	No
productSpecification	ProductSpecificationRef	N/A	No
productTerm	array	ProductTerm	No
realizingResource	array	ResourceRef	No
realizingService	array	ServiceRef	No
relatedParty	array	RelatedParty	No
status	ProductStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.196: Fields of Product.

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4.197 ProductOffering

Represents entities that are orderable from the provider of the catalog, this resource includes pricing information.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
statusReason	string	N/A	No
version	string	N/A	No
agreement	array	AgreementRef	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductOffering	array	BundledProductOffering	No
category	array	CategoryRef	No
channel	array	ChannelRef	No
marketSegment	array	MarketSegmentRef	No
place	array	PlaceRef	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse	No
productOfferingPrice	array	ProductOfferingPriceRefOr- Value	No
productOfferingRelationship	array	ProductOfferingRelationship	No
productOfferingTerm	array	ProductOfferingTerm	No
productSpecification	ProductSpecificationRef	N/A	No
resourceCandidate	ResourceCandidateRef	N/A	No
serviceCandidate	ServiceCandidateRef	N/A	No
serviceLevelSpecification	ServiceLevelSpecificationRef	N/A	No
validFor	TimePeriod	N/A	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedParty	No

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Field	Туре	Format	Required
bundledGroupProductOffer- ing	array	BundledGroupProductOffer-ing	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.197: Fields of ProductOffering.

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4.198 ProductOfferingPriceRef

ProductPriceOffering reference. An amount, usually of money, that is asked for or allowed when a ProductOffering is bought, rented, or leased

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.198: Fields of ProductOfferingPriceRef.

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4.199 ProductOfferingPriceRefOrValue

A new product offering price being created by value or a reference to an existing product offering price that alreasy created. The polymorphic attributes @type, @schemaLocation & @referredType are related to the product offering price and not to this ReforValue structure

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
priceType	string	N/A	No
recurringChargePeriod	string	N/A	No
recurringChargePeriodLength	integer	N/A	No
version	string	N/A	No
constraint	array	ConstraintRef	No
price	ProductPriceValue	N/A	No
priceAlteration	array	POPAlteration	No
unitOfMeasure	Quantity	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.199: Fields of ProductOfferingPriceRefOrValue.

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4.200 ProductOfferingQualificationItemRef

It's a productOfferingQualification item that has been executed previously.

Field	Туре	Format	Required
id	string	N/A	Yes
productOfferingQualifica- tionHref	string	N/A	No
productOfferingQualificationId	string	N/A	Yes
productOfferingQualification- Name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.200: Fields of ProductOfferingQualificationItemRef.

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4.201 ProductOfferingQualificationRef

It's a productOfferingQualification that has been executed previously

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.201: Fields of ProductOfferingQualificationRef.

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4.202 ProductOfferingRef

ProductOffering reference. A product offering represents entities that are orderable from the provider of the catalog, this resource includes pricing information.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.202: Fields of ProductOfferingRef.

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4.203 ProductOfferingRelationship

A relationship between two product Offerings.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.203: Fields of ProductOfferingRelationship.

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4.204 ProductOfferingTerm

A condition under which a ProductOffering is made available to Customers. For instance, a productOffering can be offered with multiple commitment periods.

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.204: Fields of ProductOfferingTerm.

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4.205 ProductOffering_Create

Represents entities that are orderable from the provider of the catalog, this resource includes pricing information. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
statusReason	string	N/A	No
version	string	N/A	No
agreement	array	AgreementRef	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductOffering	array	BundledProductOffering	No
category	array	CategoryRef	No
channel	array	ChannelRef	No
marketSegment	array	MarketSegmentRef	No
place	array	PlaceRef	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse	No
productOfferingPrice	array	ProductOfferingPriceRefOr- Value	No
productOfferingRelationship	array	ProductOfferingRelationship	No
productOfferingTerm	array	ProductOfferingTerm	No
productSpecification	ProductSpecificationRef	N/A	No
resourceCandidate	ResourceCandidateRef	N/A	No
serviceCandidate	ServiceCandidateRef	N/A	No
serviceLevelSpecification	ServiceLevelSpecificationRef	N/A	No
validFor	TimePeriod	N/A	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedParty	No
bundledGroupProductOffer- ing	array	BundledGroupProductOffer-ing	No

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Field	Туре	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.205: Fields of ProductOffering_Create.

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4.206 ProductOffering_Update

Represents entities that are orderable from the provider of the catalog, this resource includes pricing information. Skipped properties: id,href,lastUpdate,@type,@baseType

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
lifecycleStatus	string	N/A	No
statusReason	string	N/A	No
version	string	N/A	No
agreement	array	AgreementRef	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductOffering	array	BundledProductOffering	No
category	array	CategoryRef	No
channel	array	ChannelRef	No
marketSegment	array	MarketSegmentRef	No
place	array	PlaceRef	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse	No
productOfferingPrice	array	ProductOfferingPriceRefOr- Value	No
productOfferingRelationship	array	ProductOfferingRelationship	No
productOfferingTerm	array	ProductOfferingTerm	No
productSpecification	ProductSpecificationRef	N/A	No
resourceCandidate	ResourceCandidateRef	N/A	No
serviceCandidate	ServiceCandidateRef	N/A	No
serviceLevelSpecification	ServiceLevelSpecificationRef	N/A	No
validFor	TimePeriod	N/A	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedParty	No
bundledGroupProductOffer- ing	array	BundledGroupProductOffer-ing	No
@schemaLocation	string	uri	No

Table 4.206: Fields of ProductOffering_Update.

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4.207 ProductOrder

A Product Order is a type of order which can be used to place an order between a customer and a service provider or between a service provider and a partner and vice versa,

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
description	string	N/A	No
cancellationDate	string	date-time	No
cancellationReason	string	N/A	No
category	string	N/A	No
completionDate	string	date-time	No
expectedCompletionDate	string	date-time	No
externalld	string	N/A	No
notificationContact	string	N/A	No
orderDate	string	date-time	No
priority	string	N/A	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
agreement	array	AgreementRef	No
billingAccount	BillingAccountRef	N/A	No
channel	array	RelatedChannel	No
note	array	Note	No
orderTotalPrice	array	OrderPrice	No
payment	array	PaymentRef	No
productOfferingQualification	array	ProductOfferingQualification- Ref	No
productOrderItem	array	ProductOrderItem	Yes
quote	array	QuoteRef	No
relatedParty	array	RelatedParty	No
state	ProductOrderStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.207: Fields of ProductOrder.

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4.208 ProductOrderItem

An identified part of the order. A product order is decomposed into one or more order items.

Field	Туре	Format	Required
id	string	N/A	Yes
quantity	integer	N/A	No
action	OrderItemActionType	N/A	Yes
appointment	AppointmentRef	N/A	No
billingAccount	BillingAccountRef	N/A	No
itemPrice	array	OrderPrice	No
itemTerm	array	OrderTerm	No
itemTotalPrice	array	OrderPrice	No
payment	array	PaymentRef	No
product	ProductRefOrValue	N/A	No
productOffering	ProductOfferingRef	N/A	No
productOfferingQualification- Item	ProductOfferingQualification- ItemRef	N/A	No
productOrderItem	array	ProductOrderItem	No
productOrderItemRelation- ship	array	OrderItemRelationship	No
qualification	array	ProductOfferingQualification- Ref	No
quoteltem	QuoteltemRef	N/A	No
state	ProductOrderItemStateType	N/A	No
requestedStartDate	string	date-time	No
requestedEndDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.208: Fields of ProductOrderItem.

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4.209 ProductOrderItemStateType

Possible values for the state of the product order item

Field	Туре	Format	Required
ProductOrderItemStateType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, completed, failed, assessingCancellation, pendingCancellation]	No

Table 4.209: Fields of ProductOrderItemStateType.

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4.210 ProductOrderRef

ProductOrder reference.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.210: Fields of ProductOrderRef.

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4.211 ProductOrderStateType

Possible values for the state of the order

Field	Туре	Format	Required
ProductOrderStateType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, completed, failed, partial, assessingCancellation, pendingCancellation]	No

Table 4.211: Fields of ProductOrderStateType.

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4.212 ProductOrder_Create

A Product Order is a type of order which can be used to place an order between a customer and a service provider or between a service provider and a partner and vice versa, Skipped properties: id,href,completionDate,orderDate,state,expected provider and a partner and vice versa, Skipped properties: id,href,completionDate,orderDate,state,expected provider and a partner and vice versa, Skipped properties: id,href,completionDate,orderDate,state,expected provider and vice versa, skipped properties: id,href,completionDate,orderD

Field	Туре	Format	Required
description	string	N/A	No
cancellationDate	string	date-time	No
cancellationReason	string	N/A	No
category	string	N/A	No
externalld	string	N/A	No
notificationContact	string	N/A	No
priority	string	N/A	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
agreement	array	AgreementRef	No
billingAccount	BillingAccountRef	N/A	No
channel	array	RelatedChannel	No
note	array	Note	No
orderTotalPrice	array	OrderPrice	No
payment	array	PaymentRef	No
productOfferingQualification	array	ProductOfferingQualification- Ref	No
productOrderItem	array	ProductOrderItem	Yes
quote	array	QuoteRef	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.212: Fields of ProductOrder_Create.

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4.213 ProductOrder_Update

A Product Order is a type of order which can be used to place an order between a customer and a service provider or between a service provider and a partner and vice versa, Skipped properties: id,href,orderDate

Field	Туре	Format	Required
description	string	N/A	No
cancellationDate	string	date-time	No
cancellationReason	string	N/A	No
category	string	N/A	No
completionDate	string	date-time	No
expectedCompletionDate	string	date-time	No
externalld	string	N/A	No
notificationContact	string	N/A	No
priority	string	N/A	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
agreement	array	AgreementRef	No
billingAccount	BillingAccountRef	N/A	No
channel	array	RelatedChannel	No
note	array	Note	No
orderTotalPrice	array	OrderPrice	No
payment	array	PaymentRef	No
productOfferingQualification	array	ProductOfferingQualification- Ref	No
productOrderItem	array	ProductOrderItem	No
quote	array	QuoteRef	No
relatedParty	array	RelatedParty	No
state	ProductOrderStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.213: Fields of ProductOrder_Update.

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4.214 ProductPrice

An amount, usually of money, that represents the actual price paid by a Customer for a purchase, a rent or a lease of a Product. The price is valid for a defined period of time.

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
priceType	string	N/A	Yes
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
price	Price	N/A	Yes
productOfferingPrice	ProductOfferingPriceRef	N/A	No
productPriceAlteration	array	PriceAlteration	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.214: Fields of ProductPrice.

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4.215 ProductPriceValue

Provides all amounts (tax included, duty free, tax rate), used currency and percentage to apply for Price Alteration.

Field	Туре	Format	Required
percentage	number	float	No
taxCategory	string	N/A	No
taxRate	number	float	No
dutyFreeAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.215: Fields of ProductPriceValue.

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4.216 ProductRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.216: Fields of ProductRef.

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4.217 ProductRefOrValue

A product to be created defined by value or existing defined by reference. The polymorphic attributes @type, @schemaLocation & @referredType are related to the product entity and not the RelatedProductRefOrValue class itself

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productSerialNumber	string	N/A	No
startDate	string	date-time	No
terminationDate	string	date-time	No
agreement	array	AgreementItemRef	No
billingAccount	BillingAccountRef	N/A	No
place	array	RelatedPlaceRefOrValue	No
product	array	ProductRefOrValue	No
productCharacteristic	array	Characteristic	No
productOffering	ProductOfferingRef	N/A	No
productOrderItem	array	RelatedProductOrderItem	No
productPrice	array	ProductPrice	No
productRelationship	array	ProductRelationship	No
productSpecification	ProductSpecificationRef	N/A	No
productTerm	array	ProductTerm	No
realizingResource	array	ResourceRef	No
realizingService	array	ServiceRef	No
relatedParty	array	RelatedParty	No
status	ProductStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

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Field	Туре	Format	Required
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Table 4.217: Fields of ProductRefOrValue.

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4.218 ProductRelationship

Linked products to the one instantiate, such as [bundled] if the product is a bundle and you want to describe the bundled products inside this bundle; [reliesOn] if the product needs another already owned product to rely on (e.g. an option on an already owned mobile access product) [targets] or [isTargeted] (depending on the way of expressing the link) for any other kind of links that may be useful

Field	Туре	Format	Required
relationshipType	string	N/A	Yes
product	ProductRefOrValue	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.218: Fields of ProductRelationship.

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4.219 ProductSpecification

Is a detailed description of a tangible or intangible object made available externally in the form of a ProductOffering to customers or other parties playing a party role.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
productNumber	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductSpecification	array	BundledProductSpecification	No
productSpecCharacteristic	array	ProductSpecificationCharacteristic	No
productSpecificationRelation- ship	array	ProductSpecificationRelation- ship	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceSpecification	array	ServiceSpecificationRef	No
targetProductSchema	TargetProductSchema	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.219: Fields of ProductSpecification.

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4.220 ProductSpecificationCharacteristic

A characteristic quality or distinctive feature of a ProductSpecification. The characteristic can be take on a discrete value, such as color, can take on a range of values, (for example, sensitivity of 100-240 mV), or can be derived from a formula (for example, usage time (hrs) = 30 - talk time *3). Certain characteristics, such as color, may be configured during the ordering or some other process.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
configurable	boolean	N/A	No
extensible	boolean	N/A	No
isUnique	boolean	N/A	No
maxCardinality	integer	N/A	No
minCardinality	integer	N/A	No
regex	string	N/A	No
valueType	string	N/A	No
productSpecCharRelationship	array	ProductSpecificationCharacteristicRelationship	No
productSpecCharacteristic- Value	array	CharacteristicValueSpecification	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@valueSchemaLocation	string	N/A	No

Table 4.220: Fields of ProductSpecificationCharacteristic.

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4.221 ProductSpecificationCharacteristicRelationship

An aggregation, migration, substitution, dependency or exclusivity relationship between/among productSpecificationCharacteristics.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
charSpecSeq	integer	N/A	No
relationshipType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.221: Fields of ProductSpecificationCharacteristicRelationship.

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4.222 ProductSpecificationCharacteristicValueUse

A use of the ProductSpecificationCharacteristicValue by a ProductOffering to which additional properties (attributes) apply or override the properties of similar properties contained in ProductSpecificationCharacteristicValue. It should be noted that characteristics which their value(s) addressed by this object must exist in corresponding product specification. The available characteristic values for a ProductSpecificationCharacteristic in a Product specification can be modified at the ProductOffering level. For example, a characteristic 'Color' might have values White, Blue, Green, and Red. But, the list of values can be restricted to e.g. White and Blue in an associated product offering. It should be noted that the list of values in 'ProductSpecificationCharacteristicValueUse' is a strict subset of the list of values as defined in the corresponding product specification characteristics.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
maxCardinality	integer	N/A	No
minCardinality	integer	N/A	No
valueType	string	N/A	No
productSpecCharacteristic- Value	array	CharacteristicValueSpecification	No
productSpecification	ProductSpecificationRef	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.222: Fields of ProductSpecificationCharacteristicValueUse.

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4.223 ProductSpecificationRef

Product specification reference: A ProductSpecification is a detailed description of a tangible or intangible object made available externally in the form of a ProductOffering to customers or other parties playing a party role.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.223: Fields of ProductSpecificationRef.

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4.224 ProductSpecificationRelationship

A migration, substitution, dependency or exclusivity relationship between/among product specifications.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.224: Fields of ProductSpecificationRelationship.

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4.225 ProductSpecification_Create

Is a detailed description of a tangible or intangible object made available externally in the form of a ProductOffering to customers or other parties playing a party role. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
productNumber	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductSpecification	array	BundledProductSpecification	No
productSpecCharacteristic	array	ProductSpecificationCharacteristic	No
productSpecificationRelation- ship	array	ProductSpecificationRelation- ship	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceSpecification	array	ServiceSpecificationRef	No
targetProductSchema	TargetProductSchema	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.225: Fields of ProductSpecification_Create.

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4.226 ProductSpecification_Update

Is a detailed description of a tangible or intangible object made available externally in the form of a ProductOffering to customers or other parties playing a party role. Skipped properties: id,href,lastUpdate,@type,@baseType

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
lifecycleStatus	string	N/A	No
productNumber	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
bundledProductSpecification	array	BundledProductSpecification	No
productSpecCharacteristic	array	ProductSpecificationCharacteristic	No
productSpecificationRelation- ship	array	ProductSpecificationRelation- ship	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceSpecification	array	ServiceSpecificationRef	No
targetProductSchema	TargetProductSchema	N/A	No
validFor	TimePeriod	N/A	No
@schemaLocation	string	uri	No

Table 4.226: Fields of ProductSpecification_Update.

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4.227 ProductStatusType

Possible values for the status of the product

Field	Туре	Format	Required
ProductStatusType	string	oneOf[created, pendingActive, cancelled, active, pendingTerminate, terminated, suspended, aborted]	No

Table 4.227: Fields of ProductStatusType.

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4.228 ProductStock

ProductStock is a base class for defining a product (or configured product with values characteristic) stock level.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
lastInventoryDate	string	date-time	No
lastUpdate	string	date-time	No
replenishmentDate	string	date-time	No
stockLevelCategory	string	N/A	No
channel	array	ChannelRef	No
marketSegment	array	MarketSegmentRef	No
maxStockLevel	Quantity	N/A	No
minStockLevel	Quantity	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
productStockLevel	Quantity	N/A	No
productStockRelationship	array	ProductStockRelationship	No
productStockStatusType	ProductStockStatusType	N/A	No
productStockUsageType	ProductStockUsageType	N/A	No
relatedParty	array	RelatedParty	No
reorderQuantity	Quantity	N/A	No
resource	array	ResourceRef	No
stockLevelAlert	Quantity	N/A	No
stockedProduct	ProductRefOrValue	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.228: Fields of ProductStock.

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4.229 ProductStockRef

ProductStockRef is a reference to a product stock

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.229: Fields of ProductStockRef.

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4.230 ProductStockRelationship

Linked product stock with a type relationship.

Field	Туре	Format	Required
relationshipType	string	N/A	Yes
stockLevel	ProductStockRef	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.230: Fields of ProductStockRelationship.

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4.231 ProductStockStatusType

Possible values for the status of the stock level

Field	Туре	Format	Required
ProductStockStatusType	string	oneOf[reserved, available, unavailable, unknown]	No

Table 4.231: Fields of ProductStockStatusType.

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4.232 ProductStockUsageType

Possible values for the usage of the stock level - This is illustrative

Field	Туре	Format	Required
ProductStockUsageType	string	oneOf[inTransit, onDisplay, damaged, returned, replenishmentInProgress, inShop]	No

Table 4.232: Fields of ProductStockUsageType.

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4.233 ProductTerm

Description of a productTerm linked to this product. This represent a commitment with a duration

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Quantity	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.233: Fields of ProductTerm.

Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2

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4.234 Product_Create

A product offering procured by a customer or other interested party playing a party role. A product is realized as one or more service(s) and / or resource(s). Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productSerialNumber	string	N/A	No
startDate	string	date-time	No
terminationDate	string	date-time	No
agreement	array	AgreementItemRef	No
billingAccount	BillingAccountRef	N/A	No
place	array	RelatedPlaceRefOrValue	No
product	array	ProductRefOrValue	No
productCharacteristic	array	Characteristic	No
productOffering	ProductOfferingRef	N/A	No
productOrderItem	array	RelatedProductOrderItem	No
productPrice	array	ProductPrice	No
productRelationship	array	ProductRelationship	No
productSpecification	ProductSpecificationRef	N/A	No
productTerm	array	ProductTerm	No
realizingResource	array	ResourceRef	No
realizingService	array	ServiceRef	No
relatedParty	array	RelatedParty	No
status	ProductStatusType	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.234: Fields of Product_Create.

Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2

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4.235 Product_Update

A product offering procured by a customer or other interested party playing a party role. A product is realized as one or more service(s) and / or resource(s). Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productSerialNumber	string	N/A	No
startDate	string	date-time	No
terminationDate	string	date-time	No
agreement	array	AgreementItemRef	No
billingAccount	BillingAccountRef	N/A	No
place	array	RelatedPlaceRefOrValue	No
product	array	ProductRefOrValue	No
productCharacteristic	array	Characteristic	No
productOffering	ProductOfferingRef	N/A	No
productOrderItem	array	RelatedProductOrderItem	No
productPrice	array	ProductPrice	No
productRelationship	array	ProductRelationship	No
productSpecification	ProductSpecificationRef	N/A	No
productTerm	array	ProductTerm	No
realizingResource	array	ResourceRef	No
realizingService	array	ServiceRef	No
relatedParty	array	RelatedParty	No
status	ProductStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.235: Fields of Product_Update.

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4.236 Quantity

An amount in a given unit

Field	Туре	Format	Required
amount	number	float	No
units	string	N/A	No

Table 4.236: Fields of Quantity.

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4.237 QuoteltemRef

It's a Quote item that has been executed previously.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
quoteHref	string	N/A	No
quoteld	string	N/A	Yes
quoteName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.237: Fields of QuoteItemRef.

Date: 2025-02-03 Version: 1.2.2

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4.238 QuoteRef

It's a Quote that has been executed previously

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.238: Fields of QuoteRef.

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PSID Pooling & Sharing

4.239 RecurringFrequency

A recurring frequency to run a job within a timeframe defined by schedule definition, for example, every 5 minutes, 15 minutes, 1 hour, 1 day

Field	Туре	Format	Required
recurringFrequencyValue	integer	N/A	Yes
recurringFrequencyUnits	string	oneOf[MINUTES, HOURS, DAYS, WEEKS, MONTHS]	Yes

Table 4.239: Fields of RecurringFrequency.

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4.240 RelatedChannel

Related channel to another entity. May be online web, mobile app, social ,etc.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.240: Fields of RelatedChannel.

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4.241 RelatedEntity

A reference to an entity, where the type of the entity is not known in advance.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.241: Fields of RelatedEntity.

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4.242 RelatedEntityRefOrValue

A reference to an entity, where the type of the entity is not known in advance. A related entity defines a entity described by reference or by value linked to a specific entity. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Entity and not the RelatedEntityRefOrValue class itself

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
role	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.242: Fields of RelatedEntityRefOrValue.

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4.243 RelatedParty

Related Party reference. A related party defines a party or a party role linked to a specific entity.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.243: Fields of RelatedParty.

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4.244 RelatedPlaceRefOrValue

Related Entity reference. A related place defines a place described by reference or by value linked to a specific entity. The polymorphic attributes @type, @schemaLocation & @referredType are related to the place entity and not the RelatedPlaceRefOrValue class itself

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
role	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.244: Fields of RelatedPlaceRefOrValue.

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4.245 RelatedProductOrderItem

RelatedProductOrderItem (ProductOrder item) .The product order item which triggered product creation/change/termination.

Field	Туре	Format	Required
orderItemAction	string	N/A	No
orderItemId	string	N/A	Yes
productOrderHref	string	N/A	No
productOrderId	string	N/A	Yes
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.245: Fields of RelatedProductOrderItem.

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4.246 RelatedServiceOrderItem

RelatedServiceOrderItem (a ServiceOrder item) .The service order item which triggered service creation/change/termination.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
itemId	string	N/A	Yes
role	string	N/A	No
serviceOrderHref	string	N/A	No
serviceOrderId	string	N/A	Yes
itemAction	OrderItemActionType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.246: Fields of RelatedServiceOrderItem.

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4.247 RelationshipCharacteristic

A characteristic property or distinguishing feature of this relationship.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
deviation	string	N/A	No
valueType	string	N/A	No
relationshipCharacteristic- Value	array	CharacteristicValueSpecification	No

Table 4.247: Fields of RelationshipCharacteristic.

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4.248 RelativeTimePeriod

A period of time relative to another.

Field	Туре	Format	Required
endDateTime	string	date-time	No
startDateTime	string	date-time	No
startOffset	string	duration	No
startAnchor	string	N/A	No
endOffset	string	duration	No
endAnchor	string	N/A	No

Table 4.248: Fields of RelativeTimePeriod.

Date: 2025-02-03 Version: 1.2.2



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4.249 ReportContentItem

Single item of the performance monitoring results in case result format was set to payload. Each item contains the timeframe of the collected data and a list of values measured in that timeframe.

Field	Туре	Format	Required
measurementTime	MeasurementTime	N/A	Yes
measurementDataPoints	array	ResultPayload	No

Table 4.249: Fields of ReportContentItem.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



4.250 ReportingTimeframe

Specifies the date range between which data points will be included in the report.

Field	Туре	Format	Required
reportingStartDate	string	date-time	No
reportingEndDate	string	date-time	No

Table 4.250: Fields of ReportingTimeframe.

Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2

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4.251 Resource

Resource is an abstract entity that describes the common set of attributes shared by all concrete resources (e.g. TPE, EQUIPMENT) in the inventory.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	Yes
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	oneOf["LogicalResource", "PhysicalResource", "Resource"]	Yes

Table 4.251: Fields of Resource.

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4.252 ResourceAdministrativeStateType

ResourceAdministrativeStateType enumerations

Field	Туре	Format	Required
ResourceAdministrativeS-tateType	string	oneOf[locked, unlocked, shutdown]	No

Table 4.252: Fields of ResourceAdministrativeStateType.

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4.253 ResourceCandidateRef

ResourceCandidate is an entity that makes a resource specification available to a catalog. A ResourceCandidate and its associated resource specification may be published - made visible - in any number of resource catalogs, or in none.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.253: Fields of ResourceCandidateRef.

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4.254 ResourceOperationalStateType

ResourceOperationalStateType enumerations

Field	Туре	Format	Required
ResourceOperationalState- Type	string	oneOf[enable, disable]	No

Table 4.254: Fields of ResourceOperationalStateType.

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4.255 ResourceRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.255: Fields of ResourceRef.

Ref: PSI-ICD

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4.256 ResourceRefOrValue

Resource is an abstract entity that describes the common set of attributes shared by all concrete resources. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Resource entity and not the related ResourceRefOrValue class itself

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	Yes
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.256: Fields of ResourceRefOrValue.

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4.257 ResourceRelationship

Linked resources to the one instantiate, such as [bundled] if the resource is a bundle and you want to describe the bundled resources inside this bundle; [reliesOn] if the resource needs another already owned resource to rely on (e.g. an option on an already owned mobile access resource) [targets] or [isTargeted] (depending on the way of expressing the link) for any other kind of links that may be useful

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
relationshipType	string	N/A	Yes
resource	ResourceRefOrValue	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.257: Fields of ResourceRelationship.

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Ref: PSI-ICD

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4.258 ResourceSpecification

Resources are physical or non-physical components (or some combination of these) within an enterprise's infrastructure or inventory. They are typically consumed or used by services (for example a physical port assigned to a service) or contribute to the realization of a Product (for example, a SIM card). They can be drawn from the Application, Computing and Network domains, and include, for example, Network Elements, software, IT systems, content and information, and technology components. A ResourceSpecification is a base class that represents a generic means for implementing a particular type of Resource. In essence, a ResourceSpecification defines the common attributes and relationships of a set of related Resources, while Resource defines a specific instance that is based on a particular ResourceSpecification.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
featureSpecification	array	FeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecCharacteristic	array	ResourceSpecificationCharacteristic	No
resourceSpecRelationship	array	ResourceSpecificationRela- tionship	No
targetResourceSchema	TargetResourceSchema	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	oneOf["LogicalResourceSpecif" "PhysicalResourceSpecification", "ResourceSpecification"]	ication", Yes

Table 4.258: Fields of ResourceSpecification.

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4.259 ResourceSpecificationCharacteristic

This class defines the characteristic features of a resource specification. Every ResourceSpecification has a variety of important attributes, methods, constraints, and relationships, which distinguish a resource specification from other resource specifications.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
configurable	boolean	N/A	No
extensible	boolean	N/A	No
isUnique	boolean	N/A	No
maxCardinality	integer	N/A	No
minCardinality	integer	N/A	No
regex	string	N/A	No
valueType	string	N/A	No
resourceSpecCharRelation- ship	array	ResourceSpecificationCharacteristicRelationship	No
resourceSpecCharacteristic- Value	array	CharacteristicValueSpecification	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@valueSchemaLocation	string	N/A	No

Table 4.259: Fields of ResourceSpecificationCharacteristic.

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4.260 ResourceSpecificationCharacteristicRelationship

An aggregation, migration, substitution, dependency or exclusivity relationship between/among ResourceSpecificationCharacteristics. The specification characteristic is embedded within the specification whose ID and href are in this entity, and identified by its ID.

Field	Туре	Format	Required
name	string	N/A	No
characteristicSpecificationId	string	N/A	No
relationshipType	string	N/A	No
resourceSpecificationHref	string	uri	No
resourceSpecificationId	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.260: Fields of ResourceSpecificationCharacteristicRelationship.

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4.261 ResourceSpecificationRef

Resources are physical or non-physical components (or some combination of these) within an enterprise's infrastructure or inventory. They are typically consumed or used by services (for example a physical port assigned to a service) or contribute to the realization of a Product (for example, a SIM card). They can be drawn from the Application, Computing and Network domains, and include, for example, Network Elements, software, IT systems, content and information, and technology components. A ResourceSpecification is an abstract base class for representing a generic means for implementing a particular type of Resource. In essence, a ResourceSpecification defines the common attributes and relationships of a set of related Resources, while Resource defines a specific instance that is based on a particular ResourceSpecification.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.261: Fields of ResourceSpecificationRef.

Date: 2025-02-03 Version: 1.2.2

PSI-ICD



4.262 ResourceSpecificationRelationship

A migration, substitution, dependency or exclusivity relationship between/among resource specifications.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
defaultQuantity	integer	N/A	No
maximumQuantity	integer	N/A	No
minimumQuantity	integer	N/A	No
relationshipType	string	N/A	No
role	string	N/A	No
characteristic	array	ResourceSpecificationCharacteristic	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.262: Fields of ResourceSpecificationRelationship.

Ref: PSI-ICD

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4.263 ResourceSpecification_Create

Resources are physical or non-physical components (or some combination of these) within an enterprise's infrastructure or inventory. They are typically consumed or used by services (for example a physical port assigned to a service) or contribute to the realization of a Product (for example, a SIM card). They can be drawn from the Application, Computing and Network domains, and include, for example, Network Elements, software, IT systems, content and information, and technology components. A ResourceSpecification is a base class that represents a generic means for implementing a particular type of Resource. In essence, a ResourceSpecification defines the common attributes and relationships of a set of related Resources, while Resource defines a specific instance that is based on a particular ResourceSpecification. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
featureSpecification	array	FeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecCharacteristic	array	ResourceSpecificationCharacteristic	No
resourceSpecRelationship	array	ResourceSpecificationRela- tionship	No
targetResourceSchema	TargetResourceSchema	N/A	No
validFor	TimePeriod	N/A	No
model	string	N/A	No
part	string	N/A	No
sku	string	N/A	No
vendor	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.263: Fields of ResourceSpecification Create.

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Ref: PSI-ICD

Date: 2025-02-03 Version: 1.2.2



4.264 ResourceSpecification_Update

Resources are physical or non-physical components (or some combination of these) within an enterprise's infrastructure or inventory. They are typically consumed or used by services (for example a physical port assigned to a service) or contribute to the realization of a Product (for example, a SIM card). They can be drawn from the Application, Computing and Network domains, and include, for example, Network Elements, software, IT systems, content and information, and technology components. A ResourceSpecification is a base class that represents a generic means for implementing a particular type of Resource. In essence, a ResourceSpecification defines the common attributes and relationships of a set of related Resources, while Resource defines a specific instance that is based on a particular ResourceSpecification. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
featureSpecification	array	FeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecCharacteristic	array	ResourceSpecificationCharacteristic	No
resourceSpecRelationship	array	ResourceSpecificationRela- tionship	No
targetResourceSchema	TargetResourceSchema	N/A	No
validFor	TimePeriod	N/A	No
model	string	N/A	No
part	string	N/A	No
sku	string	N/A	No
vendor	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.264: Fields of ResourceSpecification_Update.

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4.265 ResourceStatusType

ResourceStatusType enumerations

Field	Туре	Format	Required
ResourceStatusType	string	oneOf[standby, alarm, available, reserved, unknown, suspended]	No

Table 4.265: Fields of ResourceStatusType.

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4.266 ResourceUsageStateType

ResourceUsageStateType enumerations

Field	Туре	Format	Required
ResourceUsageStateType	string	oneOf[idle, active, busy]	No

Table 4.266: Fields of ResourceUsageStateType.

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4.267 Resource_Create

Resource is an abstract entity that describes the common set of attributes shared by all concrete resources (e.g. TPE, EQUIPMENT) in the inventory. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
value	string	N/A	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No
versionNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.267: Fields of Resource_Create.

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4.268 Resource_Update

Resource is an abstract entity that describes the common set of attributes shared by all concrete resources (e.g. TPE, EQUIPMENT) in the inventory. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
startOperatingDate	string	date-time	No
activationFeature	array	Feature	No
administrativeState	ResourceAdministrativeState- Type	N/A	No
attachment	array	AttachmentOrDocumentRef	No
note	array	Note	No
operationalState	ResourceOperationalState- Type	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
resourceCharacteristic	array	Characteristic	No
resourceRelationship	array	ResourceRelationship	No
resourceSpecification	ResourceSpecificationRef	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
value	string	N/A	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No
versionNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.268: Fields of Resource_Update.

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4.269 ResponseTime

The response time for an inquiry. At least the maximum estimated time must be filled on creation, the actual value is filled on completion.

Field	Туре	Format	Required
minimum	string	date-time	No
average	string	date-time	No
maximum	string	date-time	Yes
actual	string	date-time	No

Table 4.269: Fields of ResponseTime.

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4.270 ResultFormat

List of possible result formats that define how Seller/Server will deliver Performance Report to the Buyer/Client.

Field	Туре	Format	Required
ResultFormat	string	oneOf[payload, attachment]	No

Table 4.270: Fields of ResultFormat.

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4.271 ResultPayload

ResultPayload is used as an extension point for MEF-specific service performance monitoring results. The @type attribute is used as a discriminator.

Field	Туре	Format	Required
@type	string	N/A	Yes

Table 4.271: Fields of ResultPayload.

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4.272 ResumePerformanceJob

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No
creationDate	string	date-time	Yes
resumptionDeniedReason	string	N/A	No
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.272: Fields of ResumePerformanceJob.

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4.273 ResumePerformanceJob_Common

Request for resumption of an existing Performance Job

Field	Туре	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No

Table 4.273: Fields of ResumePerformanceJob_Common.

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4.274 ResumePerformanceJob_Create

Field	Туре	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No

Table 4.274: Fields of ResumePerformanceJob_Create.

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4.275 ResumePerformanceJob_Find

This class represents a single list item for the response of ${\tt listResumePerformanceJob}$

Field	Туре	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.275: Fields of ResumePerformanceJob_Find.

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4.276 ScheduleDefinition

The schedule definition for running jobs.

Field	Туре	Format	Required
scheduleDefinitionStartTime	string	date-time	No
scheduleDefinitionEndTime	string	date-time	No
recurringFrequency	RecurringFrequency	N/A	No
scheduleDefinitionHourRange	array	HourRange	No
monthlyScheduleDay- OfWeekDefinition	MonthlyScheduleDay- OfWeekDefinition	N/A	No
weeklyScheduledDefinition	array	DayOfWeek	No

Table 4.276: Fields of ScheduleDefinition.

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4.277 Service

Service is a base class for defining the Service hierarchy. All Services are characterized as either being possibly visible and usable by a Customer or not. This gives rise to the two subclasses of Service: CustomerFacingService and ResourceFacingService.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endDate	string	date-time	No
hasStarted	boolean	N/A	No
isBundle	boolean	N/A	No
isServiceEnabled	boolean	N/A	No
isStateful	boolean	N/A	No
serviceDate	string	N/A	No
serviceType	string	N/A	No
startDate	string	date-time	No
startMode	string	N/A	No
feature	array	Feature	No
note	array	Note	No
place	array	RelatedPlaceRefOrValue	No
relatedEntity	array	RelatedEntityRefOrValue	No
relatedParty	array	RelatedParty	No
serviceCharacteristic	array	Characteristic	No
serviceOrderItem	array	RelatedServiceOrderItem	No
serviceRelationship	array	ServiceRelationship	No
serviceSpecification	ServiceSpecificationRef	N/A	No
state	ServiceStateType	N/A	No
supportingResource	array	ResourceRef	No
supportingService	array	ServiceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

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Field	Туре	Format	Required
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Table 4.277: Fields of Service.

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4.278 ServiceCandidateRef

ServiceCandidate reference. ServiceCandidate is an entity that makes a ServiceSpecification available to a catalog.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.278: Fields of ServiceCandidateRef.

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4.279 ServiceFeatureSpecification

Specification for service features

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
isBundle	boolean	N/A	No
isEnabled	boolean	N/A	No
version	string	N/A	No
constraint	array	ConstraintRef	No
featureSpecCharacteristic	array	CharacteristicSpecification	No
featureSpecRelationship	array	FeatureSpecificationRelation- ship	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.279: Fields of ServiceFeatureSpecification.

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4.280 ServiceLevelObjective

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	No
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
validFor	TimePeriod	N/A	No
keyIndicator	KeyIndicator	N/A	No
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThreshold	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.280: Fields of ServiceLevelObjective.

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4.281 ServiceLevelObjectiveRef

A set of Service Level Objectives that are contained in the Service Level Specification.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.281: Fields of ServiceLevelObjectiveRef.

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4.282 ServiceLevelObjectiveThreshold

A threshold base entity containing threshold rules. This entity is mandatory.

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
thresholdType	string	oneOf[LogicDefinition, PreDefined]	No
consequence	array	ServiceLevelSpecConsequence	No
thresholdCondition	string	oneOf[Raise, Clear]	No
applicability	array	ApplicableTimePeriod	No
upperBound	Quantity	N/A	No
lowerBound	Quantity	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.282: Fields of ServiceLevelObjectiveThreshold.

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4.283 ServiceLevelObjective_Create

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	Yes
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
validFor	TimePeriod	N/A	No
keyIndicator	KeyIndicator	N/A	Yes
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThreshold	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.283: Fields of ServiceLevelObjective_Create.

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4.284 ServiceLevelObjective_Update

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Туре	Format	Required
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	No
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
keyIndicator	KeyIndicator	N/A	No
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThresh- old	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.284: Fields of ServiceLevelObjective_Update.

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4.285 ServiceLevelSpecConsequence

A target/threshold crossing or a target/threshold ceased to be crossing results in a consequence.

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
prescribedAction	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.285: Fields of ServiceLevelSpecConsequence.

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4.286 ServiceLevelSpecification

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.286: Fields of ServiceLevelSpecification.

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4.287 ServiceLevelSpecificationRef

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.287: Fields of ServiceLevelSpecificationRef.

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4.288 ServiceLevelSpecification_Create

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	Yes
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.288: Fields of ServiceLevelSpecification_Create.

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4.289 ServiceLevelSpecification_Update

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications. Skipped properties: id,href,validFor

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.289: Fields of ServiceLevelSpecification_Update.

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4.290 ServicePayloadSpecificAttributes

ServicePayloadSpecificAttributes is used as an extension point for MEF-specific service performance monitoring configuration. It includes a definition of service/entity and applicable performance monitoring objectives. The <code>@type</code> attribute is used as a discriminator.

Field	Туре	Format	Required
@type	string	N/A	Yes

Table 4.290: Fields of ServicePayloadSpecificAttributes.

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4.291 ServiceRef

Service reference, for when Service is used by other entities

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.291: Fields of ServiceRef.

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4.292 ServiceRefOrValue

A Service to be created defined by value or existing defined by reference. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Service entity and not the RelatedServiceRefOrValue class itself

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	N/A	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endDate	string	date-time	No
hasStarted	boolean	N/A	No
isBundle	boolean	N/A	No
isServiceEnabled	boolean	N/A	No
isStateful	boolean	N/A	No
serviceDate	string	N/A	No
serviceType	string	N/A	No
startDate	string	date-time	No
startMode	string	N/A	No
feature	array	Feature	No
note	array	Note	No
place	array	RelatedPlaceRefOrValue	No
relatedEntity	array	RelatedEntityRefOrValue	No
relatedParty	array	RelatedParty	No
serviceCharacteristic	array	Characteristic	No
serviceOrderItem	array	RelatedServiceOrderItem	No
serviceRelationship	array	ServiceRelationship	No
serviceSpecification	ServiceSpecificationRef	N/A	No
state	ServiceStateType	N/A	No
supportingResource	array	ResourceRef	No
supportingService	array	ServiceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

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Field	Туре	Format	Required
@referredType	string	N/A	No

Table 4.292: Fields of ServiceRefOrValue.

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4.293 ServiceRelationship

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
relationshipType	string	N/A	Yes
service	ServiceRefOrValue	N/A	Yes
serviceRelationshipCharacteristic	array	Characteristic	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.293: Fields of ServiceRelationship.

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4.294 ServiceSpecRelationship

A dependency, substitution or exclusivity relationship between/among service specifications.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
role	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.294: Fields of ServiceSpecRelationship.

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4.295 ServiceSpecification

ServiceSpecification is a class that offers characteristics to describe a type of service. Functionally, it acts as a template by which Services may be instantiated. By sharing the same specification, these services would therefore share the same set of characteristics.

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
constraint	array	ConstraintRef	No
entitySpecRelationship	array	EntitySpecificationRelation- ship	No
featureSpecification	array	ServiceFeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceLevelSpecification	array	ServiceLevelSpecificationRef	No
serviceSpecRelationship	array	ServiceSpecRelationship	No
specCharacteristic	array	CharacteristicSpecification	No
targetEntitySchema	TargetEntitySchema	N/A	No
validFor	TimePeriod	N/A	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.295: Fields of ServiceSpecification.

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4.296 ServiceSpecificationRef

Service specification reference: ServiceSpecification(s) required to realize a ProductSpecification.

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.296: Fields of ServiceSpecificationRef.

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4.297 ServiceSpecification_Create

ServiceSpecification is a class that offers characteristics to describe a type of service. Functionally, it acts as a template by which Services may be instantiated. By sharing the same specification, these services would therefore share the same set of characteristics. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	Yes
description	string	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
constraint	array	ConstraintRef	No
entitySpecRelationship	array	EntitySpecificationRelation- ship	No
featureSpecification	array	ServiceFeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceLevelSpecification	array	ServiceLevelSpecificationRef	No
serviceSpecRelationship	array	ServiceSpecRelationship	No
specCharacteristic	array	CharacteristicSpecification	No
targetEntitySchema	TargetEntitySchema	N/A	No
validFor	TimePeriod	N/A	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.297: Fields of ServiceSpecification_Create.

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4.298 ServiceSpecification_Update

ServiceSpecification is a class that offers characteristics to describe a type of service. Functionally, it acts as a template by which Services may be instantiated. By sharing the same specification, these services would therefore share the same set of characteristics. Skipped properties: id,href,lastUpdate

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
constraint	array	ConstraintRef	No
entitySpecRelationship	array	EntitySpecificationRelation- ship	No
featureSpecification	array	ServiceFeatureSpecification	No
relatedParty	array	RelatedParty	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceLevelSpecification	array	ServiceLevelSpecificationRef	No
serviceSpecRelationship	array	ServiceSpecRelationship	No
specCharacteristic	array	CharacteristicSpecification	No
targetEntitySchema	TargetEntitySchema	N/A	No
validFor	TimePeriod	N/A	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.298: Fields of ServiceSpecification_Update.

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4.299 ServiceStateType

Valid values for the lifecycle state of the service

Field	Туре	Format	Required
ServiceStateType	string	oneOf[feasibilityChecked, designed, reserved, inactive, active, terminated]	No

Table 4.299: Fields of ServiceStateType.

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4.300 Service_Create

Service is a base class for defining the Service hierarchy. All Services are characterized as either being possibly visible and usable by a Customer or not. This gives rise to the two subclasses of Service: CustomerFacingService and ResourceFacingService. Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endDate	string	date-time	No
hasStarted	boolean	N/A	No
isBundle	boolean	N/A	No
isServiceEnabled	boolean	N/A	No
isStateful	boolean	N/A	No
serviceDate	string	N/A	No
serviceType	string	N/A	No
startDate	string	date-time	No
startMode	string	N/A	No
feature	array	Feature	No
note	array	Note	No
place	array	RelatedPlaceRefOrValue	No
relatedEntity	array	RelatedEntityRefOrValue	No
relatedParty	array	RelatedParty	No
serviceCharacteristic	array	Characteristic	No
serviceOrderItem	array	RelatedServiceOrderItem	No
serviceRelationship	array	ServiceRelationship	No
serviceSpecification	ServiceSpecificationRef	N/A	Yes
state	ServiceStateType	N/A	Yes
supportingResource	array	ResourceRef	No
supportingService	array	ServiceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.300: Fields of Service_Create.

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4.301 Service_Update

Service is a base class for defining the Service hierarchy. All Services are characterized as either being possibly visible and usable by a Customer or not. This gives rise to the two subclasses of Service: CustomerFacingService and ResourceFacingService. Skipped properties: id,href,serviceDate

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endDate	string	date-time	No
hasStarted	boolean	N/A	No
isBundle	boolean	N/A	No
isServiceEnabled	boolean	N/A	No
isStateful	boolean	N/A	No
serviceType	string	N/A	No
startDate	string	date-time	No
startMode	string	N/A	No
feature	array	Feature	No
note	array	Note	No
place	array	RelatedPlaceRefOrValue	No
relatedEntity	array	RelatedEntityRefOrValue	No
relatedParty	array	RelatedParty	No
serviceCharacteristic	array	Characteristic	No
serviceOrderItem	array	RelatedServiceOrderItem	No
serviceRelationship	array	ServiceRelationship	No
serviceSpecification	ServiceSpecificationRef	N/A	No
state	ServiceStateType	N/A	No
supportingResource	array	ResourceRef	No
supportingService	array	ServiceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.301: Fields of Service_Update.

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4.302 Skill

Skills evaluated for an individual with a level and possibly with a limited validity when an obsolescence is defined (Ex: the first-aid certificate first level is limited to one year and an update training is required each year to keep the level).

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
comment	string	N/A	No
evaluatedLevel	string	N/A	No
skillCode	string	N/A	No
skillName	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.302: Fields of Skill.

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4.303 StatusChange

Holds the status notification reasons and associated date the status changed, populated by the server

Field	Туре	Format	Required
id	string	N/A	No
href	string	uri	No
changeDate	string	date-time	No
changeReason	string	N/A	No
status	TroubleTicketStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.303: Fields of StatusChange.

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4.304 SuspendPerformanceJob

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No
creationDate	string	date-time	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes
suspensionDeniedReason	string	N/A	No

Table 4.304: Fields of SuspendPerformanceJob.

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4.305 SuspendPerformanceJob_Common

Request for suspension of an existing Performance Job

Field	Туре	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No

Table 4.305: Fields of SuspendPerformanceJob_Common.

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4.306 SuspendPerformanceJob_Create

Field	Туре	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No

Table 4.306: Fields of SuspendPerformanceJob_Create.

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4.307 SuspendPerformanceJob_Find

This class represents a single list item for the response of ${\tt listSuspendPerformanceJob}$

Field	Туре	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.307: Fields of SuspendPerformanceJob_Find.

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4.308 TargetEntitySchema

The reference object to the schema and type of target entity which is described by a specification

Field	Туре	Format	Required
@schemaLocation	string	N/A	Yes
@type	string	N/A	Yes

Table 4.308: Fields of TargetEntitySchema.

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4.309 TargetProductSchema

The reference object to the schema and type of target product which is described by product specification

Field	Туре	Format	Required
@schemaLocation	string	uri	Yes
@type	string	N/A	Yes

Table 4.309: Fields of TargetProductSchema.

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4.310 TargetResourceSchema

The reference object to the schema and type of target resource which is described by resource specification

Field	Туре	Format	Required
@schemaLocation	string	uri	Yes
@type	string	N/A	Yes

Table 4.310: Fields of TargetResourceSchema.

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4.311 TaskStateType

Possible values for the state of a task

Field	Туре	Format	Required
TaskStateType	string	oneOf[accepted, terminatedWithError, inProgress, done]	No

Table 4.311: Fields of TaskStateType.

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4.312 TaxDefinition

Reference of a tax definition. A tax is levied by an authorized tax jurisdiction. There are many different types of tax (Federal Tax levied by the US Government, State Tax levied by the State of California,...).

Field	Туре	Format	Required
id	string	N/A	No
name	string	N/A	No
jurisdictionLevel	string	N/A	No
jurisdictionName	string	N/A	No
taxType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.312: Fields of TaxDefinition.

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4.313 TaxExemptionCertificate

A tax exemption certificate represents a tax exemption granted to a party (individual or organization) by a tax jurisdiction which may be a city, state, country,... An exemption has a certificate identifier (received from the jurisdiction that levied the tax) and a validity period. An exemption is per tax types and determines for each type of tax what portion of the tax is exempted (partial by percentage or complete) via the tax definition.

Field	Туре	Format	Required
id	string	N/A	No
certificateNumber	string	N/A	No
issuingJurisdiction	string	N/A	No
reason	string	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
taxDefinition	array	TaxDefinition	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.313: Fields of TaxExemptionCertificate.

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4.314 TaxItem

A tax item is created for each tax rate and tax type used in the bill.

Field	Туре	Format	Required
taxCategory	string	N/A	No
taxRate	number	float	No
taxAmount	Money	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.314: Fields of TaxItem.

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4.315 ThresholdRef

Field	Туре	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.315: Fields of ThresholdRef.

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4.316 TimeInterval

An interval of time from start- to endTime. If a time zone is required, it must be determined from the context.

Field	Туре	Format	Required
startTime	string	time	Yes
endTime	string	time	Yes

Table 4.316: Fields of TimeInterval.

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4.317 TimePeriod

A period of time, either as a deadline (endDateTime only) a startDateTime only, or both

Field	Туре	Format	Required
endDateTime	string	date-time	No
startDateTime	string	date-time	No

Table 4.317: Fields of TimePeriod.

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4.318 **Topic**

Is a event channel provided by the Event Streaming API

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
name	string	N/A	No
contentQuery	string	N/A	No
headerQuery	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.318: Fields of Topic.

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4.319 TotalPrice

An amount, usually of money, that represents the actual price to be paid by a Customer for current group of inquiry results.

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
priceType	string	N/A	Yes
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price	N/A	Yes

Table 4.319: Fields of TotalPrice.

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4.320 TroubleTicket

A trouble ticket is a record of an issue that is created, tracked, and managed by a trouble ticket management system

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
expectedResolutionDate	string	date-time	No
externalld	string	N/A	No
lastUpdate	string	date-time	No
priority	string	N/A	No
requestedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
severity	string	N/A	No
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
ticketType	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef	N/A	No
note	array	Note	No
relatedEntity	array	RelatedEntity	No
relatedParty	array	RelatedParty	No
status	TroubleTicketStatusType	N/A	No
statusChange	array	StatusChange	No
troubleTicketRelationship	array	TroubleTicketRelationship	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.320: Fields of TroubleTicket.

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4.321 TroubleTicketRelationship

Represents a relationship between trouble Trouble Tickets

Field	Туре	Format	Required
id	string	N/A	No
href	string	N/A	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.321: Fields of TroubleTicketRelationship.

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4.322 TroubleTicketStatusType

Possible values for the status of the trouble ticket

Field	Туре	Format	Required
TroubleTicketStatusType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, closed, resolved]	No

Table 4.322: Fields of TroubleTicketStatusType.

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4.323 TroubleTicket_Create

A trouble ticket is a record of an issue that is created, tracked, and managed by a trouble ticket management system Skipped properties: id,href

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	Yes
creationDate	string	date-time	No
expectedResolutionDate	string	date-time	No
externalld	string	N/A	No
lastUpdate	string	date-time	No
priority	string	N/A	No
requestedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
severity	string	N/A	Yes
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
ticketType	string	N/A	Yes
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef	N/A	No
note	array	Note	No
relatedEntity	array	RelatedEntity	No
relatedParty	array	RelatedParty	No
status	TroubleTicketStatusType	N/A	No
statusChange	array	StatusChange	No
troubleTicketRelationship	array	TroubleTicketRelationship	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.323: Fields of TroubleTicket_Create.

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4.324 TroubleTicket_Update

A trouble ticket is a record of an issue that is created, tracked, and managed by a trouble ticket management system Skipped properties: id,href,creationDate,lastUpdate,statusChange,statusChangeDate

Field	Туре	Format	Required
name	string	N/A	No
description	string	N/A	No
expectedResolutionDate	string	date-time	No
externalld	string	N/A	No
priority	string	N/A	No
requestedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
severity	string	N/A	No
statusChangeReason	string	N/A	No
ticketType	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef	N/A	No
note	array	Note	No
relatedEntity	array	RelatedEntity	No
relatedParty	array	RelatedParty	No
status	TroubleTicketStatusType	N/A	No
troubleTicketRelationship	array	TroubleTicketRelationship	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.324: Fields of TroubleTicket_Update.

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4.325 UsageEstimation

The estimated usage of a product. The customer may provide this to allow the provider to optimize the returned products.

Field	Туре	Format	Required
name	string	N/A	No
value	integer	N/A	No
unitOfMeasure	string	N/A	No
recurringChargePeriod	string	N/A	No
recurringChargePeriodLength	integer	N/A	No

Table 4.325: Fields of UsageEstimation.

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