



جهاز الضرائب
TAX AUTHORITY

Oman SMP API Specifications v1.2 (12-July-2026)

@omantax 

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Table of Contents

1. Oman SMP API Specifications – v1.2 (12-7-2026)	3
1.1 Version Control	3
1.2 SMP Service Description	3
1.3 Table of URLs	3
1.4 For Developers	3
1.5 API Routes	4
1.5.1 API Routes - Table of API Routes	4
1.5.2 API Routes – Source Code	4
2. Schemas	8
2.1 Schemas – Table of Schemas.....	8
2.1.1 Table of Schemas.....	8
2.2 Schemas – Source Code.....	9
3. Full SMP API Specification Source Code.....	16

1. Oman SMP API Specifications – v1.2 (12-July-2026)

1.1 Version Control

Version	Date	Description	Detailed Changelog
1.0	4-June-2026	First version	-
1.1	7-July-2026	Adding production URL	-
1.2	12-July-2026	Enhance error handling	- Added more descriptive error codes - Added a structured response for errors and success message

1.2 SMP Service Description

The Oman SMP REST API provides secure, standards-based access to Service Metadata Publisher (SMP) resources for participant SML, participant service metadata, and participant Peppol Directory publication/amendment/removal.

1.3 Table of URLs

API Category	Security	Path Prefix	Environments	
			T-SMP URL	Production SMP URL
POST/PUT/DELETE APIs	mTLS Secured	/v1/secure/smp/wrapper	test-smp-ext-api.taxoman.gov.om	smp-ext-api.taxoman.gov.om

1.4 For Developers

For an interactable view please utilize the following editor: <https://editor.swagger.io/>, Copy and Paste the full API Specification (see below) on the editor's text box.

1.5 API Routes

1.5.1 API Routes - Table of API Routes

API Routes	Available Methods	Version	Description	Request Security
/{participantId}/services/{documentTypeId}	PUT	v1.2	Add participant (if not created before) Add service meta data including process list for the documents	Authenticated using certificate
	DELETE	v1.2	Delete a document type from the participant's list of applicable documents	Authenticated using certificate
/{participantId}	DELETE	v1.2	Deletes the participant from the SMP, SML & Directory	Authenticated using certificate

1.5.2 API Routes – Source Code

/{participantId}
<pre> /{participantId}: parameters: - name: participantId in: path required: true description: The participant identifier (e.g. iso6523-actorid-upis::0088:123456). schema: type: string example: iso6523-actorid-upis::9915:test-participant description: The identifier must be URL-encoded when used in the path. For example, the '#' character should be encoded as '%23', and ':' should be encoded as '%3A'. delete: tags: - ServiceGroup summary: Delete Service Group description: Removes a participant ID and issues a deletion command to the SML. operationId: deleteServiceGroup security: - mTLS: [] responses: </pre>

```
'200':
  description: Service Group successfully deleted.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/SuccessResponseType'
      example:
        message: Service group successfully deleted
        participantId: iso6523-actorid-upis::9915:test-participant
        timestamp: "2026-07-06T14:30:00Z"
'204':
  description: Idempotent delete success.
'404':
  description: Service Group does not exist.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 404
        code: NOT_FOUND
        message: Service group not found
        details: The participant identifier does not exist in the system.
        timestamp: "2026-07-06T14:30:00Z"
'422':
  description: Invalid Peppol identifier.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 422
        code: INVALID_PEPPOL_IDENTIFIER
        message: Invalid Peppol participant identifier
        details: The participant identifier does not conform to Peppol syntax; ensure correct
scheme and encoding.
        errors:
          - field: participantId
            issue: Missing or invalid scheme
          timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while processing the deletion request.
        timestamp: "2026-07-06T14:30:00Z"
```

/{participantId}/services/{DocumentTypeId}

```
/{participantId}/services/{documentTypeId}:
  parameters:
    - name: participantId
      in: path
      required: true
      schema:
        type: string
        example: iso6523-actorid-upis::9915:test-participant
      description:
        The identifier must be URL-encoded when used in the path. For example, the '#' character should be encoded as '%23', and ':'
should be encoded as '%3A'.
    - name: documentTypeId
      in: path
      required: true
      description: The document type identifier representing the standard and format.
      schema:
        type: string
        example: busdoh-docid-qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice%23urn:cen.eu:en16931:2017%23compliant%23urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
      description: The identifier must be URL-encoded when used in the path. For example, the '#' character should be encoded as '%23',
and ':' should be encoded as '%3A'.
```

```

put:
  tags:
    - ServiceMetadata
  summary: Create or Update Service Metadata & Optionally the business card
  description: |
    As per wrapper definition, this method does the following:
    - Creates the AP endpoint URLs, transport profiles, and certificates. Overwrites existing.
    - Creates the participant if not already existing.
    - Pushes participant to SML
    - Pushes participant to Peppol Directory
    Note that validations and restrictions can happen on above actions.
  operationId: putServiceMetadataAndBusinessCard
  security:
    - mTLS: []
  requestBody:
    required: true
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/ParticipantDetailsType'
        example: |
          <ParticipantDetails>
            <smp:ServiceMetadata xmlns:wsa="http://www.w3.org/2005/08/addressing"
xmlns:smp="http://busdox.org/serviceMetadata/publishing/1.0/" xmlns:id="http://busdox.org/transport/identifiers/1.0/">
              <smp:ServiceInformation>
                <id:ParticipantIdentifier scheme="iso6523-actorid-upis">9876:participantid</id:ParticipantIdentifier>
                <id:DocumentIdentifier scheme="busdox-docid-qns">urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1</id:DocumentIdentifier>
                <smp:ProcessList>
                  <smp:Process>
                    <id:ProcessIdentifier scheme="cenbii-procid-ubl">urn:fdc:peppol.eu:2017:poacc:billing:01:1.0</id:ProcessIdentifier>
                    <smp:ServiceEndpointList>
                      <smp:Endpoint transportProfile="peppol-transport-as4-v2_0">
                        <wsa:EndpointReference>
                          <wsa:Address>http://test.smpserver/as4</wsa:Address>
                        </wsa:EndpointReference>
                        <smp:RequireBusinessLevelSignature>false</smp:RequireBusinessLevelSignature>
                        <smp:Certificate>blacert</smp:Certificate>
                        <smp:ServiceDescription>Unit test service</smp:ServiceDescription>
                        <smp:TechnicalContactUrl>https://tms.taxoman.gov.om/portal/</smp:TechnicalContactUrl>
                      </smp:Endpoint>
                    </smp:ServiceEndpointList>
                  </smp:Process>
                </smp:ProcessList>
              </smp:ServiceInformation>
            </smp:ServiceMetadata>
            <BusinessCard xmlns="http://www.peppol.eu/schema/pd/businesscard/20180621/">
              <BusinessEntity registrationDate="2026-01-01">
                <Name language="en">Test entity Oman</Name>
                <Name language="ar">عسل</Name>
                <CountryCode>OM</CountryCode>
              </BusinessEntity>
            </BusinessCard>
          </ParticipantDetails>
  responses:
    '200':
      description: Successful update.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/SuccessResponseType'
          example:
            message: SML, Service metadata and business card successfully created/updated
            participantId: iso6523-actorid-upis::9915:test-participant
            documentTypeId: busdox-docid-qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
            timestamp: "2026-07-06T14:30:00Z"
    '400':
      description: Bad request.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ErrorResponseType'
          example:
            status: 400
            code: BAD_REQUEST
            message: Bad request
            details: The request body contains invalid XML structure or missing required fields.
            timestamp: "2026-07-06T14:30:00Z"
    '422':
      description: Invalid Peppol identifiers (participant, documentTypeId, or processId).
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ErrorResponseType'
          example:
            status: 422
            code: INVALID_PEPPOLE_IDENTIFIERS
            message: One or more Peppol identifiers are invalid
            details: The request contains invalid Peppol identifiers.
            errors:
              - field: participantId
                issue: Invalid Format
              - field: participantId
                issue: The participant ID in body does not match the Participant ID in the URL
              - field: documentTypeId
                issue: The documentType ID in body does not match the Document Type ID in the URL
              - field: documentTypeId

```

```

        issue: DocumentTypeID not conforming to format
        - field: processId
        issue: A process in the payload contains an invalid process identifier scheme/value
        - field: endpoint
        issue: Two endpoints under the same process and transport profile have overlapping validity periods
        timestamp: "2026-07-06T14:30:00Z"
'424':
  description: Dependency failure when contacting with external systems (SML or Directory).
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 424
        code: DEPENDENCY_FAILURE
        message: Failed to contact with one or more external dependencies
        details: SML contact failed; Directory update failed.
        errors:
          - field: SML
            issue: Connection timeout to SML endpoint
          - field: Directory
            issue: Connection timeout to Directory endpoint
        timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while processing the service metadata request. Please ensure to use valid ICD and
        timestamp: "2026-07-06T14:30:00Z"
delete:
  tags:
    - ServiceMetadata
  summary: Delete Service Metadata
  description: |
    As per wrapper definition, this method does the following:
    - Removes specific routing configurations for a document type.
  operationId: deleteServiceMetadata
  security:
    - mTLS: []
  responses:
    '200':
      description: Successfully deleted.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/SuccessResponseType'
          example:
            message: Service metadata successfully deleted
            participantId: iso6523-actorid-upis::9915:test-participant
            documentTypeId: busdoh-dohid-qns::urn:oasis:names:specification:ubl:schema:Invoice-
            2::Invoice#urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
            timestamp: "2026-07-06T14:30:00Z"
    '404':
      description: Metadata not found.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ErrorResponse'
          example:
            status: 404
            code: NOT_FOUND
            message: Metadata not found
            details: Service metadata for the given participant/document type does not exist.
            timestamp: "2026-07-06T14:30:00Z"
    '422':
      description: Invalid Peppol identifier, DocumentTypeID, or ProcessID.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ErrorResponse'
          example:
            status: 422
            code: INVALID_PEPPOL_IDENTIFIERS
            message: One or more Peppol identifiers are invalid
            details: The request contains invalid Peppol identifiers.
            errors:
              - field: participantId
                issue: ParticipantID not conforming to format
              - field: documentTypeId
                issue: DocumentTypeID not conforming to format
            timestamp: "2026-07-06T14:30:00Z"
    '424':
      description: Dependency failure when contacting with external systems (SML or Directory).
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ErrorResponse'
          example:
            status: 424
            code: DEPENDENCY_FAILURE
            message: Failed to contact deletion with external dependencies

```

```

details: Deletion applied locally but failed to propagate to SML and/or Directory.
errors:
  - field: SML
    issue: Connection timeout to SML endpoint
  - field: Directory
    issue: Connection timeout to Directory endpoint
timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponse'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while deleting the service metadata.
        timestamp: "2026-07-06T14:30:00Z"

```

2. Schemas

2.1 Schemas – Table of Schemas

Schemas are defined, referenceable objects with fields that can have rules such as "maxLength". They are reusable and can reference/nest each-other.

2.1.1 Table of Schemas

Schema Name	Description
ErrorResponse	Standard structure for errors
SuccessResponseType	Standard Structure for success messages
ParticipantDetailsType	Used for when the service provider does an SMP /services request for a participant
ServiceMetadataType	Contains either detailed service information (ServiceInformation) or a redirect to another SMP (Redirect).
ServiceInformationType	Contains the full details of a service, including participant and document identifiers, and a list of processes.
ProcessType	Defines a specific business process, identified by a ProcessIdentifier, and lists the service endpoints for that process.
EndpointType	Defines the technical details of a transport endpoint, including its address, transport profile, certificate, and other metadata.
RedirectType	Defines a redirect to another SMP for a specific document type, including the target SMP's URL and certificate UID.
ParticipantIdentifierType	A standardized identifier for a participant in the network, consisting of a scheme and a value.
DocumentIdentifierType	A standardized identifier for a document type, consisting of a scheme and a value.
ProcessIdentifierType	A standardized identifier for a business process, consisting of a scheme and a value.
ExtensionType	A generic object used for future extensions to the SMP specification.
BusinessCardType	Root element for a single Peppol Directory business card.

BusinessEntityType	Represents a single business entity as contained in a business card.
ContactType	Resembles the structure of a single business contact.
MultilingualNameType	Represents a name that can be provided in multiple languages. In XML, 'language' is an attribute.

2.2 Schemas – Source Code

ErrorResponseType
<pre> ErrorResponse: type: object properties: status: type: integer description: HTTP status code representing the error. example: 422 code: type: string description: Short machine-readable error code. example: INVALID_PEPPOL_IDENTIFIER message: type: string description: Human-readable error message summarizing the problem. example: Invalid Peppol identifier details: type: string description: Longer description or guidance for remediation. example: The participant identifier does not conform to the required Peppol scheme and encoding. errors: type: array description: Optional list of field-specific errors. items: type: object properties: field: type: string issue: type: string timestamp: type: string format: date-time description: timestamp when the error occurred. example: "2026-07-06T14:30:00Z" </pre>

SuccessResponseType
<pre> SuccessResponseType: type: object properties: message: type: string participantId: type: string documentTypeId: type: string timestamp: type: string format: date-time </pre>

ParticipantDetailsType

```
ParticipantDetailsType:
  type: object
  required:
    - ServiceMetadata
  xml:
    name: ParticipantDetails
  properties:
    ServiceMetadata:
      $ref: '#/components/schemas/ServiceMetadataType'
    BusinessCard:
      $ref: '#/components/schemas/BusinessCardType'
```

ServiceMetadataType

```
ServiceMetadataType:
  type: object
  xml:
    name: ServiceMetadata
  properties:
    ServiceInformation:
      $ref: '#/components/schemas/ServiceInformationType'
    Redirect:
      $ref: '#/components/schemas/RedirectType'
```

ServiceInformationType

```
ServiceInformationType:
  type: object
  xml:
    name: ServiceInformation
  required:
    - ParticipantIdentifier
    - DocumentIdentifier
    - ProcessList
  properties:
    ParticipantIdentifier:
      $ref: '#/components/schemas/ParticipantIdentifierType'
    DocumentIdentifier:
      $ref: '#/components/schemas/DocumentIdentifierType'
    ProcessList:
      type: object
      xml:
        name: ProcessList
      properties:
        Process:
          type: array
          minItems: 1
          xml:
            wrapped: false
            name: Process
          items:
            $ref: '#/components/schemas/ProcessType'
    Extension:
      $ref: '#/components/schemas/ExtensionType'
```

ProcessType

```
ProcessType:
  type: object
  xml:
    name: Process
  required:
    - ProcessIdentifier
    - ServiceEndpointList
  properties:
    ProcessIdentifier:
      $ref: '#/components/schemas/ProcessIdentifierType'
    ServiceEndpointList:
```

```

type: object
xml:
  name: ServiceEndpointList
properties:
  Endpoint:
    type: array
    minItems: 1
    xml:
      wrapped: false
      name: Endpoint
    items:
      $ref: '#/components/schemas/EndpointType'
Extension:
  $ref: '#/components/schemas/ExtensionType'

```

EndpointType

```

EndpointType:
type: object
xml:
  name: Endpoint
required:
  - transportProfile
  - EndpointReference
  - RequireBusinessLevelSignature
  - Certificate
  - ServiceDescription
  - TechnicalContactUrl
properties:
  transportProfile:
    type: string
    xml:
      attribute: true
  EndpointReference:
    type: object
    xml:
      name: EndpointReference
    required:
      - Address
    properties:
      Address:
        type: string
        format: uri
  RequireBusinessLevelSignature:
    type: boolean
  MinimumAuthenticationLevel:
    type: string
  ServiceActivationDate:
    type: string
    format: date-time
  ServiceExpirationDate:
    type: string
    format: date-time
  Certificate:
    type: string
  ServiceDescription:
    type: string
  TechnicalContactUrl:
    type: string
    format: uri
  TechnicalInformationUrl:
    type: string
    format: uri
Extension:
  $ref: '#/components/schemas/ExtensionType'

```

RedirectType

```

RedirectType:
type: object
required:

```

```
- CertificateUID
- href
properties:
  CertificateUID:
    type: string
  href:
    type: string
    format: uri
```

ParticipantIdentifierType

```
ParticipantIdentifierType:
  type: object
  xml:
    name: ParticipantIdentifier
  required:
    - scheme
    - value
  properties:
    scheme:
      type: string
      xml:
        attribute: true
    value:
      type: string
```

DocumentIdentifierType

```
DocumentIdentifierType:
  type: object
  xml:
    name: DocumentIdentifier
  required:
    - scheme
    - value
  properties:
    scheme:
      type: string
      xml:
        attribute: true
    value:
      type: string
```

ProcessIdentifierType

```
ProcessIdentifierType:
  type: object
  xml:
    name: ProcessIdentifier
  required:
    - scheme
    - value
  properties:
    scheme:
      type: string
      xml:
        attribute: true
    value:
      type: string
```

ExtensionType

ExtensionType:
type: object

BusinessCardType

BusinessCardType:
type: object
description: Root element for a single Peppol Directory business card.
xml:
name: BusinessCard
properties:
ParticipantIdentifier: # Must not be included in case of using the /{pid}/services/{docId} route
\$ref: '#/components/schemas/ParticipantIdentifierType'
BusinessEntity:
type: array
description: "A list of business entities (companies, public bodies) reachable via the ServiceGroup. In XML, this will be represented by one or more <BusinessEntity> elements."
items:
\$ref: '#/components/schemas/BusinessEntityType'
xml:
wrapped: false

BusinessEntityType

BusinessEntityType:
type: object
description: Represents a single business entity as contained in a business card.
required:
- Name
- CountryCode
xml:
name: BusinessEntity
properties:
Name:
type: array
description: "The multilingual name of the business entity. At least one name must be provided."
minItems: 1
items:
\$ref: '#/components/schemas/MultilingualNameType'
xml:
wrapped: false
CountryCode:
type: string
description: "A 2-letter ISO 3166-1 alpha-2 country code"
minLength: 2
maxLength: 2
xml:
name: CountryCode
registrationDate:
type: string
format: date
description: "The date when the participant was registered for Peppol."
xml:
attribute: true
GeographicalInformation:
type: string
description: "Specific geographic information, such as an address or a region."
xml:
name: GeographicalInformation
Identifier:
type: array
description: "Additional identifiers for this entity, like VAT number, national organisation number, etc."
items:
properties:
value:
type: string

```

    description: "The value of the identifier (the element's text content)."
```

```

  scheme:
    type: string
    description: "The scheme of the identifier. For Peppol, this is typically 'iso6523-actorid-upis'."
```

```

    xml:
      attribute: true

  xml:
    wrapped: false
  WebsiteURI:
    type: array
    description: "URIs linking to the business entity's websites."
    items:
      type: string
      format: uri
      xml:
        name: WebsiteURI
    xml:
      wrapped: false
  Contact:
    type: array
    description: "Business contact points to get in touch with the business entity."
    items:
      $ref: '#/components/schemas/ContactType'
    xml:
      wrapped: false
  AdditionalInformation:
    type: string
    description: "Any other relevant information that does not fit into a structured field."
    xml:
      name: AdditionalInformation
```

ContactType

```

ContactType:
  type: object
  description: Resembles the structure of a single business contact.
  xml:
    name: Contact
  properties:
    Type:
      type: string
      description: "The type of the contact (e.g., sales, support)."
```

```

      xml:
        name: Type
    Name:
      type: string
      description: "The name of the contact (individual or organisational unit)."
```

```

      xml:
        name: Name
    PhoneNumber:
      type: string
      description: "The public telephone number of the contact."
```

```

      xml:
        name: PhoneNumber
    Email:
      type: string
      description: "The public email address of the contact."
```

```

      xml:
        name: Email
```

MultilingualNameType

```

MultilingualNameType:
  type: object
  description: "Represents a name that can be provided in multiple languages."
  required:
    - value
  xml:
    name: Name
  properties:
    value:
      type: string
      description: A string that must not be empty.
      minLength: 1
    language:
      type: string
      description: "A 2-letter ISO 639-1 language code (e.g., 'en' for English)."
```

3. Full SMP API Specification Source Code

Full SMP API Specification Source Code

```
openapi: 3.1.0

info:
  title: Oman Tax Authority SMP REST API
  description: |
    The Oman Tax Authority SMP REST API provides secure, standards-based
    access to Service Metadata Publisher (SMP) resources for participant
    service group management, service metadata publication, and
    peppol directory integration.

    mTLS Authentication is required for write operations.
  version: 1.2.0

servers:
  - url: https://{host}/v1/secure/smp/wrapper
    description: Base URL for the Wrapper SMP API. Replace {host} with the actual server address.
    variables:
      host:
        default: test-smp-ext-api.taxoman.gov.om
        description: The hostname of the SMP server. Ensure to change it as needed.

tags:
  - name: ServiceGroup
    description: Operations related to managing Participant Identifiers and SML contact.
  - name: ServiceMetadata
    description: Operations defining document types, business processes, and AS4 transport
    endpoints.

paths:
  /{participantId}:
    parameters:
      - name: participantId
        in: path
        required: true
        description: The participant identifier (e.g. iso6523-actorid-upis::0088:123456).
        schema:
          type: string
          example: iso6523-actorid-upis::9915:test-participant
          description:
            The identifier must be URL-encoded when used in the path. For example, the '#' character
            should be encoded as '%23', and ':' should be encoded as '%3A'.
    delete:
      tags:
        - ServiceGroup
      summary: Delete Service Group
      description: Removes a participant ID and issues a deletion command to the SML.
      operationId: deleteServiceGroup
      security:
        - mTLS: []
      responses:
        '200':
          description: Service Group successfully deleted.
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/SuccessResponseType'
              example:
                message: Service group successfully deleted
                participantId: iso6523-actorid-upis::9915:test-participant
                timestamp: "2026-07-06T14:30:00Z"
        '204':
          description: Idempotent delete success.
        '404':
          description: Service Group does not exist.
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/ErrorResponseType'
```

```

example:
  status: 404
  code: NOT_FOUND
  message: Service group not found
  details: The participant identifier does not exist in the system.
  timestamp: "2026-07-06T14:30:00Z"
'422':
  description: Invalid Peppol identifier.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 422
        code: INVALID_PEPPOL_IDENTIFIER
        message: Invalid Peppol participant identifier
        details: The participant identifier does not conform to Peppol syntax; ensure
correct scheme and encoding.
        errors:
          - field: participantId
            issue: Missing or invalid scheme
          timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while processing the deletion request.
        timestamp: "2026-07-06T14:30:00Z"
/{participantId}/services/{documentTypeId}:
  parameters:
    - name: participantId
      in: path
      required: true
      schema:
        type: string
        example: iso6523-actorid-upis::9915:test-participant
        description:
          The identifier must be URL-encoded when used in the path. For example, the '#' character
should be encoded as '%23', and ':' should be encoded as '%3A'.
    - name: documentTypeId
      in: path
      required: true
      description: The document type identifier representing the standard and format.
      schema:
        type: string
        example: busdox-docid-qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice%23urn:cen.eu:en16931:2017%23compliant%23urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
        description: The identifier must be URL-encoded when used in the path. For example, the
'#' character should be encoded as '%23', and ':' should be encoded as '%3A'.
  put:
    tags:
      - ServiceMetadata
    summary: Create or Update Service Metadata & Optionally the business card
    description: |
      As per wrapper definition, this method does the following:
      - Creates the AP endpoint URLs, transport profiles, and certificates. Overwrites existing.
      - Creates the participant if not already existing.
      - Pushes participant to SML
      - Pushes participant to Peppol Directory
      Note that validations and restrictions can happen on above actions.
    operationId: putServiceMetadataAndBusinessCard
    security:
      - mTLS: []
    requestBody:
      required: true
      content:
        application/xml:

```

```

schema:
  $ref: '#/components/schemas/ParticipantDetailsType'
example: |
  <ParticipantDetails>
    <smp:ServiceMetadata xmlns:wsa="http://www.w3.org/2005/08/addressing"
xmlns:smp="http://busdox.org/serviceMetadata/publishing/1.0/"
xmlns:id="http://busdox.org/transport/identifiers/1.0/">
      <smp:ServiceInformation>
        <id:ParticipantIdentifier scheme="iso6523-actorid-
upis">9876:participantid</id:ParticipantIdentifier>
        <id:DocumentIdentifier scheme="busdox-docid-
qns">urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1</id:Docu
mentIdentifier>
        <smp:ProcessList>
          <smp:Process>
            <id:ProcessIdentifier scheme="cenbii-procid-
ubl">urn:fdc:peppol.eu:2017:poacc:billing:01:1.0</id:ProcessIdentifier>
            <smp:ServiceEndpointList>
              <smp:Endpoint transportProfile="peppol-transport-as4-v2_0">
                <wsa:EndpointReference>
                  <wsa:Address>http://test.smpserver/as4</wsa:Address>
                </wsa:EndpointReference>
                <smp:RequireBusinessLevelSignature>false</smp:RequireBusinessLevelSignat
ure>
                <smp:Certificate>blacert</smp:Certificate>
                <smp:ServiceDescription>Unit test service</smp:ServiceDescription>
                <smp:TechnicalContactUrl>https://tms.taxoman.gov.om/portal/</smp:Technic
alContactUrl>
              </smp:Endpoint>
            </smp:ServiceEndpointList>
          </smp:Process>
        </smp:ProcessList>
      </smp:ServiceInformation>
    </smp:ServiceMetadata>
    <BusinessCard xmlns="http://www.peppol.eu/schema/pd/businesscard/20180621/">
      <BusinessEntity registrationDate="2026-01-01">
        <Name language="en">Test entity Oman</Name>
        <Name language="ar">عمان</Name>
        <CountryCode>OM</CountryCode>
      </BusinessEntity>
    </BusinessCard>
  </ParticipantDetails>
responses:
  '200':
    description: Successful update.
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/SuccessResponseType'
        example:
          message: SML, Service metadata and business card successfully created/updated
          participantId: iso6523-actorid-upis::9915:test-participant
          documentTypeId: busdox-docid-
qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
          timestamp: "2026-07-06T14:30:00Z"
  '400':
    description: Bad request.
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ErrorResponseType'
        example:
          status: 400
          code: BAD_REQUEST
          message: Bad request
          details: The request body contains invalid XML structure or missing required fields.
          timestamp: "2026-07-06T14:30:00Z"
  '422':
    description: Invalid Peppol identifiers (participant, documentTypeId, or processId).
    content:
      application/json:

```

```

schema:
  $ref: '#/components/schemas/ErrorResponseType'
example:
  status: 422
  code: INVALID_PEPPOL_IDENTIFIERS
  message: One or more Peppol identifiers are invalid
  details: The request contains invalid Peppol identifiers.
  errors:
    - field: participantId
      issue: Invalid Format
    - field: participantId
      issue: The participant ID in body does not match the Participant ID in the URL
    - field: documentTypeId
      issue: The documentType ID in body does not match the Document Type ID in the
URL
    - field: documentTypeId
      issue: DocumentTypeID not conforming to format
    - field: processId
      issue: A process in the payload contains an invalid process identifier
scheme/value
    - field: endpoint
      issue: Two endpoints under the same process and transport profile have
overlapping validity periods
  timestamp: "2026-07-06T14:30:00Z"
'424':
  description: Dependency failure when contacting with external systems (SML or Directory).
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 424
        code: DEPENDENCY_FAILURE
        message: Failed to contact with one or more external dependencies
        details: SML contact failed; Directory update failed.
        errors:
          - field: SML
            issue: Connection timeout to SML endpoint
          - field: Directory
            issue: Connection timeout to Directory endpoint
        timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while processing the service metadata request.
Please ensure to use valid ICD and revise entered values.
  timestamp: "2026-07-06T14:30:00Z"

delete:
  tags:
    - ServiceMetadata
  summary: Delete Service Metadata
  description: |
    As per wrapper defitintion, this method does the following:
    - Removes specific routing configurations for a document type.
  operationId: deleteServiceMetadata
  security:
    - mTLS: []
  responses:
    '200':
      description: Successfully deleted.
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/SuccessResponseType'
          example:
            message: Service metadata successfully deleted

```

```

    participantId: iso6523-actorid-upis::9915:test-participant
    documentTypeId: busdox-docid-
qns::urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1
    timestamp: "2026-07-06T14:30:00Z"
'404':
  description: Metadata not found.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 404
        code: NOT_FOUND
        message: Metadata not found
        details: Service metadata for the given participant/document type does not exist.
        timestamp: "2026-07-06T14:30:00Z"
'422':
  description: Invalid Peppol identifier, DocumentTypeID, or ProcessID.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 422
        code: INVALID_PEPPOL_IDENTIFIERS
        message: One or more Peppol identifiers are invalid
        details: The request contains invalid Peppol identifiers.
        errors:
          - field: participantId
            issue: ParticipantID not conforming to format
          - field: documentTypeId
            issue: DocumentTypeID not conforming to format
        timestamp: "2026-07-06T14:30:00Z"
'424':
  description: Dependency failure when contacting with external systems (SML or Directory).
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 424
        code: DEPENDENCY_FAILURE
        message: Failed to contact deletion with external dependencies
        details: Deletion applied locally but failed to propagate to SML and/or Directory.
        errors:
          - field: SML
            issue: Connection timeout to SML endpoint
          - field: Directory
            issue: Connection timeout to Directory endpoint
        timestamp: "2026-07-06T14:30:00Z"
'500':
  description: Internal server error.
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/ErrorResponseType'
      example:
        status: 500
        code: INTERNAL_ERROR
        message: Internal server error
        details: An unexpected error occurred while deleting the service metadata.
        timestamp: "2026-07-06T14:30:00Z"
components:
  securitySchemes:
    mTLS:
      type: mutualTLS
      description: |
        Mutual TLS (mTLS) authentication.
        The client must present a valid X.509 certificate during the TLS handshake.
        The certificate will be validated by the server.
  schemas:

```

```

ErrorResponse:
  type: object
  properties:
    status:
      type: integer
      description: HTTP status code representing the error.
      example: 422
    code:
      type: string
      description: Short machine-readable error code.
      example: INVALID_PEPPOL_IDENTIFIER
    message:
      type: string
      description: Human-readable error message summarizing the problem.
      example: Invalid Peppol identifier
    details:
      type: string
      description: Longer description or guidance for remediation.
      example: The participant identifier does not conform to the required Peppol scheme and
encoding.
  errors:
    type: array
    description: Optional list of field-specific errors.
    items:
      type: object
      properties:
        field:
          type: string
        issue:
          type: string
    timestamp:
      type: string
      format: date-time
      description: timestamp when the error occurred.
      example: "2026-07-06T14:30:00Z"

SuccessResponseType:
  type: object
  properties:
    message:
      type: string
    participantId:
      type: string
    documentTypeId:
      type: string
    timestamp:
      type: string
      format: date-time

PartialSuccessResponseType:
  type: object
  properties:
    message:
      type: string
    participantId:
      type: string
    results:
      type: object
      properties:
        serviceMetadataStatus:
          type: string
        businessCardStatus:
          type: string
        smlUpdateStatus:
          type: string
        directoryUpdateStatus:
          type: string
    failures:
      type: array
      items:
        type: object
        properties:
          component:

```

```

        type: string
        reason:
          type: string
        timestamp:
          type: string
          format: date-time

ParticipantDetailsType:
  type: object
  required:
    - ServiceMetadata
  xml:
    name: ParticipantDetails
  properties:
    ServiceMetadata:
      $ref: '#/components/schemas/ServiceMetadataType'
    BusinessCard:
      $ref: '#/components/schemas/BusinessCardType'

ServiceMetadataType:
  type: object
  xml:
    name: ServiceMetadata
  properties:
    ServiceInformation:
      $ref: '#/components/schemas/ServiceInformationType'
    Redirect:
      $ref: '#/components/schemas/RedirectType'

ServiceInformationType:
  type: object
  xml:
    name: ServiceInformation
  required:
    - ParticipantIdentifier
    - DocumentIdentifier
    - ProcessList
  properties:
    ParticipantIdentifier:
      $ref: '#/components/schemas/ParticipantIdentifierType'
    DocumentIdentifier:
      $ref: '#/components/schemas/DocumentIdentifierType'
    ProcessList:
      type: object
      xml:
        name: ProcessList
      properties:
        Process:
          type: array
          minItems: 1
          xml:
            wrapped: false
            name: Process
          items:
            $ref: '#/components/schemas/ProcessType'
    Extension:
      $ref: '#/components/schemas/ExtensionType'

ProcessType:
  type: object
  xml:
    name: Process
  required:
    - ProcessIdentifier
    - ServiceEndpointList
  properties:
    ProcessIdentifier:
      $ref: '#/components/schemas/ProcessIdentifierType'
    ServiceEndpointList:
      type: object
      xml:
        name: ServiceEndpointList
      properties:

```

```

    Endpoint:
      type: array
      minItems: 1
      xml:
        wrapped: false
        name: Endpoint
      items:
        $ref: '#/components/schemas/EndpointType'
    Extension:
      $ref: '#/components/schemas/ExtensionType'

EndpointType:
  type: object
  xml:
    name: Endpoint
  required:
    - transportProfile
    - EndpointReference
    - RequireBusinessLevelSignature
    - Certificate
    - ServiceDescription
    - TechnicalContactUrl
  properties:
    transportProfile:
      type: string
      xml:
        attribute: true
    EndpointReference:
      type: object
      xml:
        name: EndpointReference
      required:
        - Address
      properties:
        Address:
          type: string
          format: uri
    RequireBusinessLevelSignature:
      type: boolean
    MinimumAuthenticationLevel:
      type: string
    ServiceActivationDate:
      type: string
      format: date-time
    ServiceExpirationDate:
      type: string
      format: date-time
    Certificate:
      type: string
    ServiceDescription:
      type: string
    TechnicalContactUrl:
      type: string
      format: uri
    TechnicalInformationUrl:
      type: string
      format: uri
    Extension:
      $ref: '#/components/schemas/ExtensionType'

RedirectType:
  type: object
  required:
    - CertificateUID
    - href
  properties:
    CertificateUID:
      type: string
    href:
      type: string
      format: uri

ParticipantIdentifierType:

```

```

type: object
xml:
  name: ParticipantIdentifier
required:
  - scheme
  - value
properties:
  scheme:
    type: string
    xml:
      attribute: true
  value:
    type: string

DocumentIdentifierType:
  type: object
  xml:
    name: DocumentIdentifier
  required:
    - scheme
    - value
  properties:
    scheme:
      type: string
      xml:
        attribute: true
    value:
      type: string

ProcessIdentifierType:
  type: object
  xml:
    name: ProcessIdentifier
  required:
    - scheme
    - value
  properties:
    scheme:
      type: string
      xml:
        attribute: true
    value:
      type: string

ExtensionType:
  type: object

BusinessCardType:
  type: object
  description: Root element for a single Peppol Directory business card.
  xml:
    name: BusinessCard
  properties:
    ParticipantIdentifier:
      $ref: '#/components/schemas/ParticipantIdentifierType'
    BusinessEntity:
      type: array
      description: "A list of business entities (companies, public bodies) reachable via the
ServiceGroup. In XML, this will be represented by one or more <BusinessEntity> elements."
      items:
        $ref: '#/components/schemas/BusinessEntityType'
      xml:
        wrapped: false

BusinessEntityType:
  type: object
  description: Represents a single business entity as contained in a business card.
  required:
    - Name
    - CountryCode
  xml:
    name: BusinessEntity
  properties:

```

```

Name:
  type: array
  description: "The multilingual name of the business entity. At least one name must be
provided."
  minItems: 1
  items:
    $ref: '#/components/schemas/MultilingualNameType'
  xml:
    wrapped: false
CountryCode:
  type: string
  description: "A 2-letter ISO 3166-1 alpha-2 country code"
  minLength: 2
  maxLength: 2
  xml:
    name: CountryCode
registrationDate:
  type: string
  format: date
  description: "The date when the participant was registered for Peppol."
  xml:
    attribute: true
GeographicalInformation:
  type: string
  description: "Specific geographic information, such as an address or a region."
  xml:
    name: GeographicalInformation
Identifier:
  type: array
  description: "Additional identifiers for this entity, like VAT number, national
organisation number, etc."
  items:
    properties:
      value:
        type: string
        description: "The value of the identifier (the element's text content)."

```

```

Type:
  type: string
  description: "The type of the contact (e.g., sales, support)."
```

xml:

```

  name: Type
Name:
  type: string
  description: "The name of the contact (individual or organisational unit)."
```

xml:

```

  name: Name
PhoneNumber:
  type: string
  description: "The public telephone number of the contact."
```

xml:

```

  name: PhoneNumber
Email:
  type: string
  description: "The public email address of the contact."
```

xml:

```

  name: Email

MultilingualNameType:
  type: object
  description: "Represents a name that can be provided in multiple languages."
  required:
    - value
  xml:
    name: Name
  properties:
    value:
      type: string
      description: "A string that must not be empty."
      minLength: 1
    language:
      type: string
      description: "A 2-letter ISO 639-1 language code (e.g., 'en' for English)."
```

minLength: 2
maxLength: 2

xml:

```

  attribute: true
```