



EUROPEAN COMMISSION

DIGIT  
Connecting Europe Facility

**SML**

## **Interface Control Document**

# **Business Document Metadata Service Location (BDMSL)**

Version [1.09]

Status [Final]

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Date: 18/01/2021

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## Summary of Changes:

Version	Date	Created by	Short Description of Changes
0.01	20/07/2016	Yves ADAM	Initial version
0.02	25/07/2016	Yves ADAM	First delivery for review
0.03	25/08/2016	Yves ADAM	Integrate comments of Flavio SANTOS
0.04	07/09/2016	Yves ADAM	Integrate comments of Pedro TAVARES
0.05	13/09/2016	Yves ADAM	Integrate comments of Adrien FERIAI
1.00	15/09/2016	Yves ADAM	Integrate comments of Flavio SANTOS
1.01	06/03/2017	Flavio SANTOS	Updating <i>MigrationKey</i> constraint
1.02	07/03/2017	Tiago MIGUEL	Changes related to Is Alive
1.03	25/04/2017	Flavio SANTOS	Update license to EUPL 1.1
1.04	19/07/2017	Flavio SANTOS	Update participant id error message
1.05	16/01/2018	Flavio SANTOS	Update license to EUPL 1.2
1.06	27/03/2018	CEF Support	Reuse policy notice added. E-SENS BDXL profile replaced by eDelivery BDXL profile.
1.07	25/09/2019	Caroline AEBY	No more standby services
1.08	06/05/2019	Joze RIHTARSIC	Update use cases – BDMSLService, add new usecases BDMSLAdminService, remove the 'Directory user'.
1.09	04/01/2021	Joze RIHTARSIC	Update : - use cases for BDMSLAdminService Truststore management: UC29 – UC32 - BDMSLAdminService wsdl and xsd - update subdomain certificate operation description

## Table of Contents

<b>1. INTRODUCTION .....</b>	<b>7</b>
1.1. Purpose of the Interface Control Document.....	7
1.2. Scope of the document .....	7
1.3. Audience.....	8
1.4. References.....	8
<b>2. INTRODUCTION .....</b>	<b>11</b>
2.1. Glossary .....	11
<b>3. INTERFACE FUNCTIONAL SPECIFICATION .....</b>	<b>12</b>
3.1. Purpose of the BDMSL component .....	12
3.2. Use cases overview .....	13
3.2.1. Actors.....	13
3.2.2. Use cases diagram .....	14
3.3. Sample Requests and Responses .....	20
3.4. Detailed use cases - ManageServiceMetadataService .....	21
3.4.1. UC1 Create.....	22
3.4.2. UC2 Read .....	24
3.4.3. UC3 Update .....	26
3.4.4. UC4 Delete.....	28
3.5. Detailed use cases - ManageBusinessIdentifierService.....	30
3.5.1. UC5 - Create .....	31
3.5.2. UC6 - CreateList.....	33
3.5.3. UC7- Delete .....	35
3.5.4. UC8-DeleteList.....	37
3.5.5. UC9 PrepareToMigrate.....	39
3.5.6. UC10 Migrate .....	41
3.5.7. UC11 List.....	43
3.6. Detailed use cases – BDMSLService .....	45
3.6.1. UC12- PrepareChangeCertificate .....	45
3.6.2. UC13- CreateParticipantIdentifier.....	47
3.6.3. UC14 IsAlive.....	49
3.7. Detailed use cases – BDMSLService .....	50
3.7.1. UC15 ClearCache .....	51
3.7.2. UC16 ChangeCertificate .....	52
3.7.3. UC17 SetProperty.....	54
3.7.4. UC17 SetProperty.....	55
3.7.5. UC19 DeleteProperty .....	56
3.7.6. UC20 CreateSubDomain .....	57
3.7.7. UC21 UpdateSubDomain.....	58
3.7.8. UC22 GetSubDomain.....	59

3.7.9. UC23 DeleteSubDomain .....	60
3.7.10. UC24 AddSubDomainCertificate .....	61
3.7.11. UC25 UpdateSubDomainCertificate .....	63
3.7.12. UC26 ListSubDomainCertificates .....	64
3.7.13. UC27 AddDNSRecord .....	65
3.7.14. UC28 DeleteDNSRecord .....	66
3.7.15. UC29 AddTruststoreCertificate .....	67
3.7.16. UC30 GetTruststoreCertificate .....	68
3.7.17. UC31 DeleteTruststoreCertificate .....	69
3.7.18. UC32 ListTruststoreCertificateAliases .....	70
<b>4. INTERFACE BEHAVIOURAL SPECIFICATION .....</b>	<b>71</b>
4.1. Sequence diagrams .....	71
4.1.1. ManageServiceMetadataService .....	71
4.1.2. ManageBusinessIdentifierService .....	72
4.1.3. BDMSLService .....	74
4.1.4. BDMSLAdminService .....	75
4.2. WSDL – Data model .....	76
4.2.1. WSDL model for ManageServiceMetadataService .....	78
4.2.1.1. Operations Signatures .....	78
4.2.1.1.1. Create() Signature .....	78
4.2.1.1.2. Create() Input .....	79
4.2.1.1.3. Create() Output .....	80
4.2.1.1.4. Read() Signature .....	81
4.2.1.1.5. Read() Input .....	81
4.2.1.1.6. Read() Output .....	84
4.2.1.1.7. Update() Signature .....	86
4.2.1.1.8. Update() Input .....	86
4.2.1.1.9. Update() Output .....	88
4.2.1.1.10. Delete() Signature .....	89
4.2.1.1.11. Delete() Input .....	89
4.2.1.1.12. Delete() Output .....	90
4.2.2. WSDL model for ManageBusinessIdentifierService .....	91
4.2.2.1. Operations Signatures .....	91
4.2.2.1.1. Create() Signature .....	91
4.2.2.1.2. Create() Input .....	92
4.2.2.1.3. Create() Output .....	94
4.2.2.1.4. CreateList() Signature .....	94
4.2.2.1.5. CreateList() Input .....	95
4.2.2.1.6. CreateList() Output .....	98
4.2.2.1.7. Delete() Signature .....	98
4.2.2.1.8. Delete() Input .....	98
4.2.2.1.9. Delete() Output .....	101
4.2.2.1.10. DeleteList() Signature .....	101
4.2.2.1.11. DeleteList() Input .....	102
4.2.2.1.12. DeleteList() Output .....	104
4.2.2.1.13. PrepareToMigrate() Signature .....	105
4.2.2.1.14. PrepareToMigrate() Input .....	105
4.2.2.1.15. PrepareToMigrate() Output .....	109

4.2.2.1.16. Migrate() Signature .....	109
4.2.2.1.17. Migrate() Input .....	110
4.2.2.1.18. Migrate() Output .....	113
4.2.2.1.19. List() Signature .....	113
4.2.2.1.20. List() Input .....	114
4.2.2.1.21. List() Output .....	115
4.2.3. WSDL model for BDMSLService .....	119
4.2.3.1. Operations Signatures .....	119
4.2.3.1.1. PrepareChangeCertificate() Signature .....	119
4.2.3.1.2. PrepareChangeCertificate() Input .....	120
4.2.3.1.3. PrepareChangeCertificate() Output .....	121
4.2.3.1.4. CreateParticipantIdentifier() Signature .....	121
4.2.3.1.5. CreateParticipantIdentifier() Input .....	122
4.2.3.1.6. CreateParticipantIdentifier() Output .....	124
4.2.3.1.7. IsAlive() Signature .....	125
4.2.3.1.8. IsAlive() Input .....	125
4.2.3.1.9. IsAlive() Output .....	125
4.2.3.1.10. ClearCache() Signature .....	125
4.2.3.1.11. ClearCache() Input .....	125
4.2.3.1.12. ClearCache() Output .....	126
4.2.3.1.13. ChangeCertificate() Signature .....	126
4.2.3.1.14. ChangeCertificate() Input .....	126
4.2.3.1.15. ChangeCertificate() Output .....	127
4.2.4. Faults .....	128
4.2.4.1. Faults generic specifications .....	128
4.2.4.2. Error Codes .....	128
4.2.4.3. Faults specific usages .....	129
4.2.4.4. Sample SOAP errors .....	131
<b>5. ANNEXES .....</b>	<b>132</b>
5.1. Interface Message standards .....	132
5.1.1. WSDL's .....	132
5.1.1.1. ManageBusinessIdentifierService .....	132
5.1.1.2. ManageServiceMetadataService .....	136
5.1.1.3. BDMSLService .....	139
5.1.1.4. BDMSLAdminService .....	141
5.1.2. XSD's .....	152
5.1.2.1. Identifiers-1.0.xsd .....	152
5.1.2.2. ServiceGroupReferencelist.xsd .....	154
5.1.2.3. ServiceMetadataLocatorTypes-1.0.xsd .....	154
5.1.2.4. ServiceMetadataPublishingTypes-1.0.xsd .....	156
5.1.2.5. BDMSLService-1.0.xsd .....	160
5.1.2.6. BDMSLAdminService-1.0.xsd .....	161
5.2. List of valid issuing agencies for PEPPOL .....	169
<b>6. ANNEXE 1 – DOCUMENT PARTS .....</b>	<b>175</b>
<b>7. LIST OF FIGURES .....</b>	<b>176</b>

**8. CONTACT INFORMATION .....177**

## 1. INTRODUCTION

BDMSL stands for Business Document Metadata Service Location. BDMSL is the sample implementation of the SML maintained by DG DIGIT. The version of the BDMSL referred in this document is 4.1. This version implements the eDelivery BDXL profile.

### 1.1. Purpose of the Interface Control Document

This document will univocally define the participant's interface to the BDMSL. This document describes the WSDL and the observable behaviour of the interface.

There are 4 interfaces described in this document:

Interface	Description	Version
<a href="#"><u>ManageServiceMetadataService-1.0.wsdl</u></a>	Definition of the service to Manage Service Metadata.	1.0
<a href="#"><u>ManageBusinessIdentifierService-1.0.wsdl</u></a>	Definition of the service to Manage Participant Identifier's.	1.0
<a href="#"><u>BDMSLService-1.0.wsdl</u></a>	Definition of the services to Manage Service Metadata and to monitor SML specific to this implementation.	1.0
<a href="#"><u>BDMSLAdminService-1.0.wsdl</u></a>	Definition of the services for administration of the SML application. Services are specific to this implementation.	1.0

Table 1 - Documented services

### 1.2. Scope of the document

This document covers the service interface of the BDMSL. It includes information regarding the description of the services available, the list of use cases, the information model and the sequence of message exchanges for the services provided. This specification is limited to the service interface of the BDMSL. All other aspects of its implementation are not covered by this document. The ICD specification provides both the provider (i.e. the implementer) of the services and their consumers with a complete specification of the following aspects:

- *Interface Functional Specification*, this specifies the set of services and the operations provided by each service and this is represented by the flows explained in the use cases.
- *Interface Behavioural Specification*, this specifies the expected sequence of steps to be respected by the participants in the implementation when calling a service or a set of services and this is represented by the sequence diagrams presented in the use cases.
- *Interface Message standards*, this specifies the syntax and semantics of the data

### 1.3. Audience

This document is intended to:

- The Directorate Generals and Services of the European Commission, Member States (MS) and also companies of the private sector wanting access BDMSL services. In particular:
  - **Architects** will find it useful for determining how to best exploit BDMSL services to create a fully-fledged solution integrating other components like the SMP, the DNS and the administration application;
  - **Analysts** will find it useful to understand the communication between the BDMSL and its major peer component the SMP which will enable them to have an holistic and detailed view of the operations and data involved in the use cases;
  - **Developers** will find it essential as a basis of their development concerning the interaction mainly between the BDMSL and the SMP, and also with the DNS and the administration application;
  - **Testers** can use this document in order to test the interface by following the use cases described; in particular the communications of the BDMSL with the SMP.

### 1.4. References

The table below provides the reader with the list of reference documents.

#	Document	Contents outline
[REF1]	<a href="#">Business Document Metadata Service Location Version 1.0</a>	This specification defines service discovery methods. A method is first specified to query and retrieve an URL for metadata services. Two metadata service types are then defined. Also an auxiliary method pattern for discovering a registration service to enable access to metadata services is described. The methods defined here are instances of the generic pattern defined within IETF RFCs for Dynamic Delegation Discovery Services (DDDS). This specification then defines DDDS applications for metadata and metadata-registration services.

#	Document	Contents outline
[REF2]	<a href="#">PEPPOL</a>	The OpenPEPPOL Association is responsible for the governance and maintenance of the PEPPOL specifications that enable European businesses to easily deal electronically with any European public sector buyer in their procurement processes.
[REF3]	<a href="#">PEPPOL Transport Infrastructure - Service Metadata Locator (SML)</a>	<p>This document defines the profiles for the discovery and management interfaces for the Business Document Exchange Network (BUSDOX) Service Metadata Locator service.</p> <p>The Service Metadata Locator service exposes three interfaces: Service Metadata discovery, Manage participant identifiers and Manage service metadata interfaces.</p>
[REF4]	<a href="#">Service Metadata Publishing (SMP) Version 1.0</a>	This document describes a protocol for publishing service metadata within a 4-corner network. In a 4-corner network, entities are exchanging business documents through intermediary gateway services (sometimes called Access Points). To successfully send a business document in a 4-corner network, an entity must be able to discover critical metadata about the recipient (endpoint) of the business document, such as types of documents the endpoint is capable of receiving and methods of transport supported. The recipient makes this metadata available to other entities in the network through a Service Metadata Publisher service. This specification describes the request/response exchanges between a Service Metadata Publisher and a client wishing to discover endpoint information. A client can either be an end-user business application or a gateway/access point in the 4-corner network. It also defines the request processing that must happen at the client side.
[REF5]	<a href="#">eDelivery BDXL profile</a>	Specifications of eDelivery BDXLprofile.

#	Document	Contents outline
[REF6]	<a href="#">Policy for use of Identifiers (PEPPOL Transport Infrastructure)</a>	This document describes a PEPPOL policy and guidelines for use of identifiers within the PEPPOL network.

## 2. INTRODUCTION

### 2.1. Glossary

The key terms used in this document are defined in the CEF Definitions section on the CEF Digital Single Web Portal:

<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/CEF+Definitions>

The key acronyms used in this Interface Control Document are defined in the CEF Glossary on the CEF Digital Single Web Portal:

<https://ec.europa.eu/cefdigital/wiki/pages/viewpage.action?spaceKey=CEFDIGITAL&title=CEF+Glossary>

## 3. INTERFACE FUNCTIONAL SPECIFICATION

### 3.1. Purpose of the BDMSL component

The BDMSL component enables Access Points to dynamically discover the IP address of the destination Access Point. Instead of looking at a static list of IP addresses, the Access Point consults a Service Metadata Publisher (SMP) where information about every participant in the document/data exchange network is kept up to date, including the IP addresses of their Access Point. As at any point in time there can be one or several active SMPs in a same network. For dynamic discovery to work, every participant must be given a unique ID in the form of a website's URL which must be known on the internet's Domain Name System (DNS) thanks to the Service Metadata Locator (SML). By knowing this URL, the Access Point is able to dynamically locate the right SMP and therefore the right Access Point.

By combining the SMP services with a Service Location solution building block like the BDMSL component, the participants of a document/data exchange network can benefit from **dynamic discovery**. In such a configuration, a participant about to send a document or data will first use the service location service (e.g. the BDMSL) to retrieve the endpoint address of the SMP. As a second step, he will query the SMP to obtain "**Metadata**" of the receiving participant; i.e. its capabilities and settings, which includes the endpoint address of the receiver's access point. The sender has then enough information and can send the message to the receiver using the adequate transport protocol, security settings, etc.

The CEF eDelivery Service Metadata Locator (SML) enables Access Points to dynamically discover the IP address of the destination Access Point. Instead of looking at a static list of IP addresses, the Access Point consults a Service Metadata Publisher (SMP) where information about every participant in the document/ data exchange network is kept up to date, including the IP addresses of their Access Point. As at any point in time there can be one or several active SMPs in a same network. For dynamic discovery to work, every participant must be given a unique ID in the form of a website's URL which must be known on the internet's Domain Name System (DNS) thanks to the Service Metadata Locator (SML). By knowing this URL, the Access Point is able to dynamically locate the right SMP and therefore the right Access Point.

The current SML software component maintained by the European Commission implements the PEPPOL Transport Infrastructure SML specifications.

## 3.2. Use cases overview

### 3.2.1. Actors

Actor	Definition
<b>SMP</b>	Holds the service metadata information about participants in the network.
<b>SML</b>	Provides controlled access to the creation and updating of entries in the DNS.
<b>ADMIN</b>	Application user with administrative privileges.
<b>Monitor user</b>	The Monitor user who is allowed to call the isAlive service for monitoring health of SML application.

Table 2 - Actors

3.2.2. Use cases diagram

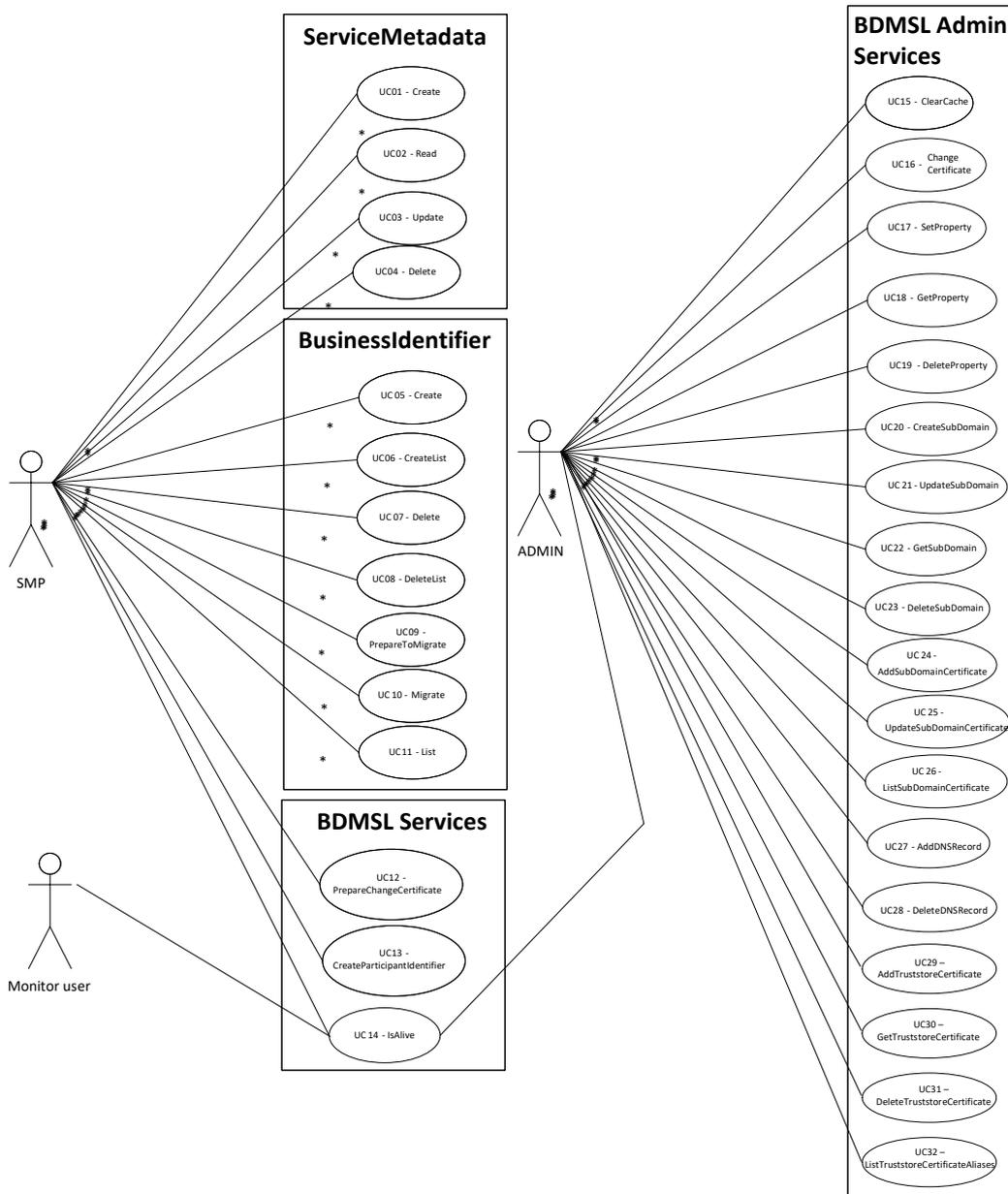


Figure 1 - Use case diagrams

ID	Operation	Actor	Short description
<b>Interface : ManageServiceMetadadataService-1.0 .wsdl</b>			
<b>UC1</b>	<b>Create</b>	SMP	Establishes a Service Metadata Publisher metadata record, containing the metadata about the Service Metadata Publisher- information as outlined in the <i>ServiceMetadadataPublisherService</i> data type.
<b>UC2</b>	<b>Read</b>	SMP	Retrieves the Service Metadata Publisher record for the service metadata publisher.
<b>UC3</b>	<b>Update</b>	SMP	Updates the Service Metadata Publisher record for the service metadata publisher.
<b>UC4</b>	<b>Delete</b>	SMP	Deletes the Service Metadata Publisher record for the service metadata publisher.
<b>Interface : ManageBusinessIdentifierService-1.0.wsdl</b>			
<b>UC5</b>	<b>Create</b>	SMP	Creates an entry in the Service Metadata Locator service for information relating to a specific participant identifier. Regardless of the number of services a recipient exposes, only one record corresponding to the participant identifier is created in the Service Metadata Locator service by the Service Metadata Publisher which exposes the services for that participant.
<b>UC6</b>	<b>CreateList</b>	SMP	Creates a set of entries in the Service Metadata Locator service for information relating to a list of participant identifiers. Regardless of the number of services, a recipient exposes, only one record corresponding to each participant identifier is created in the Service Metadata Locator service by the

ID	Operation	Actor	Short description
			Service Metadata Publisher which exposes the services for that participant.
UC7	Delete	SMP	Deletes the information that the Service Metadata Locator service holds for a specific Participant Identifier.
UC8	DeleteList	SMP	Deletes the information that the Service Metadata Locator service holds for a list of Participant Identifiers.
UC9	PrepareToMigrate	SMP	<p>Prepares a Participant Identifier for migration to a new Service Metadata Publisher. This operation is called by the Service Metadata Publisher which currently publishes the metadata for the Participant Identifier.</p> <p>The Service Metadata Publisher supplies a Migration Code which is used to control the migration process.</p> <p>The Migration Code must be passed (out of band) to the Service Metadata Publisher which is taking over the publishing of the metadata for the Participant Identifier and which MUST be used on the invocation of the Migrate() operation.</p> <p>This operation can only be invoked by the Service Metadata Publisher which currently publishes the metadata for the specified Participant Identifier.</p>
UC10	Migrate	SMP	Migrates a Participant Identifier already held by the Service Metadata Locator service to target a new Service Metadata Publisher. This operation is called by the Service Metadata Publisher which is taking over the publishing for the Participant Identifier. The operation requires the new Service Metadata Publisher to provide a migration code which was originally obtained from the

ID	Operation	Actor	Short description
			<p>replaced Service Metadata Publisher.</p> <p>The PrepareToMigrate operation MUST have been previously invoked for the supplied Participant Identifier, using the same <i>MigrationCode</i>, otherwise the Migrate() operation fails.</p> <p>Following the successful invocation of this operation, the lookup of the metadata for the service endpoints relating to a particular Participant Identifier will resolve (via DNS) to the new Service Metadata Publisher.</p>
UC11	List	SMP	Used to retrieve a list of all participant identifiers associated with a single Service Metadata Publisher for synchronization purposes. Since this list may be large, it is returned as pages of data, with each page being linked from the previous page.
<b>Interface : BDMSLService-1.0.wsdl</b>			
UC12	PrepareChangeCertificate	SMP	Allows a SMP to prepare a change of its certificate when the current one is about to expire, and the future one is available.
UC13	CreateParticipantIdentifier	SMP	This service has the same behaviour as the <i>Create()</i> operation in the <i>ManageParticipantIdentifier</i> (UC5) interface but it has one additional and optional() Input: the <i>serviceName</i> element.
UC14	IsAlive	SMP/ ADMIN/ Monitor user	Confirms that the application is up and running (monitoring purposes)

ID	Operation	Actor	Short description
<b>UC15</b>	<b>ClearCache</b>	ADMIN	Clears all the caches managed by the application.
<b>UC16</b>	<b>ChangeCertificate</b>	ADMIN	This operation allows the admin team to change the SMP's certificate. It is called by the admin team in case the SMP's certificate has expired and the new one needs to be applied.
<b>UC17</b>	<b>SetProperty</b>	ADMIN	This operation allows the admin team to change BDMSL property in database. New property is taken into account when crontask refresh the properties
<b>UC18</b>	<b>GetProperty</b>	ADMIN	This operation allows the admin team to verify BDMSL property in database.
<b>UC19</b>	<b>DeleteProperty</b>	ADMIN	This operation allows the admin team to delete BDMSL property from database.
<b>UC20</b>	<b>CreateSubDomain</b>	ADMIN	This operation allows the admin team to create new BDMSL SubDomain.
<b>UC21</b>	<b>UpdateSubDomain</b>	ADMIN	This operation allows the admin team to BDMSL SubDomain properties.
<b>UC22</b>	<b>GetSubDomain</b>	ADMIN	This operation allows the admin team to read BDMSL SubDomain properties.
<b>UC23</b>	<b>DeleteSubDomain</b>	ADMIN	This operation allows the admin team to delete empty BDMSL SubDomain.
<b>UC24</b>	<b>AddSubDomainCertificate</b>	ADMIN	This operation allows the admin team to add new Domain certificate to BDMSL SubDomain.

ID	Operation	Actor	Short description
UC25	UpdateSubDomainCertificate	ADMIN	This operation allows the admin team to update Domain certificate properties.
UC26	ListSubDomainCertificates	ADMIN	This operation allows the admin team to search for domain certificate by partial certificate DN and by the Subdomain.
UC27	AddDNSRecord	ADMIN	This operation allows the admin team to add new record to DNS for DNS RecordType: A, CNAME and NAPTR.
UC28	DeleteDNSRecord	ADMIN	This operation allows the admin team to delete record from DNS by the DNS name.
UC29	AddTruststoreCertificate	ADMIN	This operation allows the admin team to add certificate to the truststore. Service is needed for adding complete certificate chain to the truststore.
UC30	GetTruststoreCertificate	ADMIN	This operation allows the admin team to retrieve the certificate from the truststore by the alias.
UC31	DeleteTruststoreCertificate	ADMIN	This operation allows the admin team to delete the certificate from the truststore by the alias.
UC32	ListTruststoreCertificateAliases	ADMIN	This operation allows the admin team to retrieve all aliases for the certificates registered in the truststore.

Table 3 – Use cases

### 3.3. Sample Requests and Responses

In addition to the detailed use cases provided here below, sample requests and responses can be found in the SoapUI project referenced here:

<https://ec.europa.eu/cefdigital/code/projects/EDELIVERY/repos/bdmsl/browse/bdmsl-soapui-tests/src/test/resources/SML-soapui-project-TEST.xml>

These examples come in addition to the structure definition of the interface (cf. §4.2 - WSDL – Data model) based on their WSDL files and related XSDs.

### **3.4. Detailed use cases - ManageServiceMetadataService**

The following paragraphs define the use cases related to the ManageServiceMetadata service.

The ManageServiceMetadata interface allows Service Metadata Publishers to manage the metadata held in the Service Metadata Locator service about their service metadata publisher services, e.g. binding, interface profile and key information.

This interface requires authentication of the user. The identity of the user derived from the authentication process identifies the Service Metadata Publisher associated with the service metadata which is managed via this interface.

### 3.4.1. UC1 Create

## Description UC01 Create

Establishes a Service Metadata Publisher metadata record, containing the metadata about the Service Metadata Publisher (SMP), as outlined in the ServiceMetadataPublisherService data type.

## Actors

SMP

## Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does not already exist in the SML
C4	Input: CreateServiceMetadataPublisherService: ServiceMetadataPublisherService - contains the service metadata publisher information, which includes the logical and physical addresses for the SMP (Domain name and IP address). It is assumed that the ServiceMetadataPublisherID has been assigned to the calling user out-of-bands.

## Basic Flow

Actor	Step	
SMP	1	Invokes the Create() operation
SML	2	Authenticates the user, validates the request, and adds the metadata record into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

## Alternative flows

None.

## Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends
E2	Request is not valid	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
E3	Any other error occurred that prevented the SML to process the request	
2.3.1	SML	Returns an HTTP error 500 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

## Post conditions

### Successful conditions

The Metadata record has been created into the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied CreateServiceMetadataPublisherService does not contain consistent data (E2)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E3)

### 3.4.2. UC2 Read

## Description UC02 Read

Retrieves the Service Metadata Publisher record for the service metadata publisher.

## Actors

SMP

## Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP already exists in the SML
C4	Input ReadServiceMetadataPublisherService: ServiceMetadataPublisherID - the unique ID of the Service Metadata Publisher for which the record is required

## Basic Flow

Actor	Step	
SMP	1	Invokes the Read() operation
SML	2	Authenticates the user, validates the request, and reads the requested SMP metadata from its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the metadata
	5	Use case ends

## Alternative flows

None.

## Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends
E2	Request is not valid	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
E3	Any other error occurred that prevented the SML to process the request	
2.3.1	SML	Returns an HTTP error 500 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends
E4	The identifier of the SMP could not be found	
2.4.1	SML	Returns an HTTP error 404 as response to the requester
2.4.2	SMP	Receives the error response
2.4.3		Use case ends

## Post conditions

### Successful conditions

The Metadata has been provided to the requester.

Output: ServiceMetadataPublisherService - the service metadata publisher record, in the form of a ServiceMetadataPublisherService data type

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke the Create operation (E1)

badRequestFault (400) - returned if the supplied parameter does not contain consistent data (E2)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E3)

notFoundFault (404) - returned if the identifier of the SMP could not be found (E4)

### 3.4.3. UC3 Update

## Description UC03 Update

Updates the Service Metadata Publisher record for the service metadata publisher.

## Actors

SMP

## Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP already exists in the SML
C4	Input UpdateServiceMetadataPublisheService: ServiceMetadataPublisherService - contains the service metadata for the service metadata publisher, which includes the logical and physical addresses for the SMP (Domain name and IP address)

## Basic Flow

Actor	Step	
SMP	1	Invokes the Update() operation
SML	2	Authenticates the user, validates the request, and updates the requested metadata record from its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the update confirmation
	5	Use case ends

## Alternative flows

None.

## Exception flows

### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

### E3 The identifier of the SMP could not be found

2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.2.3		Use case ends

### E4 Any other error occurred that prevented the SML to process the request

2.4.1	SML	Returns an HTTP error 500 as response to the requester
2.4.2	SMP	Receives the error response

## 2.4.3

## Use case ends

**Post conditions****Successful conditions**

The SMP record has been created into the SML

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied UpdateServiceMetadataPublishService does not contain consistent data (E2)

notFoundFault (404) - returned if the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.4.4. UC4 Delete

## Description UC04 Delete

Deletes the Service Metadata Publisher record for the service metadata publisher.

## Actors

SMP

## Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP already exists in the SML
C4	Input DeleteServiceMetadataPublisherService: ServiceMetadataPublisherID - the unique ID of the Service Metadata Publisher to delete

## Basic Flow

Actor	Step	
SMP	1	Invokes the Delete() operation
SML	2	Authenticates the user, validates the request, and deletes the requested metadata record from its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the deletion confirmation
	5	Use case ends

## Alternative flows

None.

## Exception flows

### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

### E3 The identifier of the SMP could not be found

2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

### E4 Any other error occurred that prevented the SML to process the request

2.4.1	SML	Returns an HTTP error 500 as response to the requester
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2.4.2 SMP Receives the error response

2.4.3 Use case ends

## Post conditions

### Successful conditions

The SMP record has been created into the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied DeleteServiceMetadataPublisherService does not contain consistent data (E2)

notFoundFault (404) - returned if the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### **3.5. Detailed use cases - ManageBusinessIdentifierService**

The following paragraphs define the use cases related to the ManageBusinessIdentifier service.

The ManageParticipantIdentifier interface allows Service Metadata Publishers to manage the information in the Service Metadata Locator service relating to individual participant identifiers for which they hold metadata.

This interface requires authentication of the Service Metadata Publisher. The identity of the Service Metadata Publisher derived from the authentication process identifies the Service Metadata Publisher associated with the Participant Identifier(s) which is (are) managed via this interface.

### 3.5.1. UC5 - Create

#### Description UC05 Create

Creates an entry in the Service Metadata Locator service for information relating to a specific participant identifier. Regardless of the number of services a recipient exposes, only one record corresponding to the participant identifier is created in the Service Metadata Locator Service by the Service Metadata Publisher which exposes the services for that participant.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participant does not already exist
C5	Input CreateParticipantIdentifier: ServiceMetadataPublisherServiceForParticipantType - contains the Participant Identifier for a given participant and the identifier of the SMP which holds its data

#### Basic Flow

Actor	Step	
SMP	1	Invokes the Create() operation
SML	2	Authenticates the user, validates the request, and adds the SMP record into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends
E2	Request is not valid	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
E3	The SMP could not be found	
2.3.1	SML	Returns an HTTP error 404 as response to the requester

- 2.3.2 SMP Receives the error response
- 2.3.3 Use case ends

**E4 Any other error occurred that prevented the SML to process the request**

- 2.4.1 SML Returns an HTTP error 500 as response to the requester
- 2.4.2 SMP Receives the error response
- 2.4.3 Use case ends

**Post conditions****Successful conditions**

The SMP record has been created into the SML

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied CreateParticipantIdentifier does not contain consistent data (E2)

notFoundFault (404) - returned if the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.2. UC6 - CreateList

#### Description UC06 CreateList

Creates a set of entries in the Service Metadata Locator service for information relating to a list of participant identifiers. Regardless of the number of services a recipient exposes, only one record corresponding to each participant identifier is created in the Service Metadata Locator service by the Service Metadata Publisher which exposes the services for that participant.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participants don't already exist
C5	Input CreateList: ParticipantIdentifierPage - contains the list of Participant Identifiers for the participants which are added to the Service Metadata Locator service. The NextPageIdentifier is absent

#### Basic Flow

Actor	Step	
SMP	1	Invokes the CreateList() operation
SML	2	Authenticates the user, validates the request, and adds the SMP records into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends
E2	Request is not valid	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
E3	One or several SMP or participants could not be found	
2.3.1	SML	Returns an HTTP error 404 as response to the requester

2.3.2 SMP Receives the error response

2.3.3 Use case ends

**E4 Any other error occurred that prevented the SML to process the request**

2.4.1 SML Returns an HTTP error 500 as response to the requester

2.4.2 SMP Receives the error response

2.4.3 Use case ends

**Post conditions**

**Successful conditions**

The SMP records have been created into the SML

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if:

- o The supplied CreateList does not contain consistent data
  - o The number of participants in the list is greater than 100
- (E2)

notFoundFault (404) - returned if one of the identifiers of the SMPs or of the participants could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.3. UC7- Delete

#### Description UC07 Delete

Deletes the information that the SML Service holds for a specific Participant Identifier.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participant already exists
C5	Input DeleteParticipantIdentifier : ServiceMetadataPublisherServiceForParticipantType - contains the Participant Identifier for a given participant and the identifier of the SMP that publishes its metadata

#### Basic Flow

Actor	Step	
SMP	1	Invokes the Delete() operation
SML	2	Authenticates the user, validates the request, and removes the SMP record from its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the deletion confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

##### E3 The SMP or participant could not be found

2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

##### E4 Any other error occurred that prevented the SML to process the request

2.4.1	SML	Returns an HTTP error 500 as response to the requester
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2.4.2 SMP Receives the error response

2.4.3 Use case ends

## Post conditions

### Successful conditions

The SMP record has been deleted from the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied DeleteParticipantIdentifier does not contain consistent data (E2)

notFoundFault (404) - returned if the identifier of the SMP or of the participant could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.4. UC8-DeleteList

## Description UC08 DeleteList

Deletes the information that the SML Service holds for a list of Participant Identifiers.

## Actors

SMP

## Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participant already exists
C5	Input DeleteList: ParticipantIdentifier - contains the list of Participant Identifiers for the participants which are removed from the Service Metadata Locator service. The NextPageIdentifier element is absent.
C6	The number of participants in the list is less than 100

## Basic Flow

Actor	Step	
SMP	1	Invokes the DeleteList() operation
SML	2	Authenticates the user, validates the request, and adds the SMP records into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the deletion confirmation
	5	Use case ends

## Alternative flows

None.

## Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends
E2	Request is not valid	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
E3	The SMP or participant could not be found	
2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends
E4	Any other error occurred that prevented the SML to process the request	

- 2.4.1 SML Returns an HTTP error 500 as response to the requester
- 2.4.2 SMP Receives the error response
- 2.4.3 Use case ends

## Post conditions

### Successful conditions

The SMP records have been deleted from the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if:

- o The supplied DeleteList does not contain consistent data
  - o The number of participants in the list is greater than 100
- (E2)

notFoundFault (404) - returned if one of the identifiers of the SMPs or of the participants could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.5. UC9 PrepareToMigrate

#### Description UC09 PrepareToMigrate

Prepares a Participant Identifier for migration to a new Service Metadata Publisher. This operation is called by the Service Metadata Publisher which currently publishes the metadata for the Participant Identifier. The Service Metadata Publisher supplies a Migration Code which is used to control the migration process. The Migration Code must be passed (out of band) to the Service Metadata Publisher which is taking over the publishing of the metadata for the Participant Identifier and which MUST be used on the invocation of the Migrate() operation. This operation can only be invoked by the Service Metadata Publisher which currently publishes the metadata for the specified Participant Identifier.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP already exists in the SML
C4	The participant already exists
C5	Input PrepareMigrationRecord: MigrationRecordType - contains the Migration Key and the Participant Identifier which is about to be migrated from one Service Metadata Publisher to another.

#### Basic Flow

Actor	Step	
SMP	1	Invokes the PrepareToMigrate() operation
SML	2	Authenticates the user, validates the request, and adds the SMP record into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the prepared to migrate confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

- 2.2.1 SML Returns an HTTP error 400 as response to the requester
- 2.2.2 SMP Receives the error response
- 2.2.3 Use case ends

### **E3 The SMP or participant could not be found**

- 2.3.1 SML Returns an HTTP error 404 as response to the requester
- 2.3.2 SMP Receives the error response
- 2.3.3 Use case ends

### **E4 Any other error occurred that prevented the SML to process the request**

- 2.4.1 SML Returns an HTTP error 500 as response to the requester
- 2.4.2 SMP Receives the error response
- 2.4.3 Use case ends

## **Post conditions**

### **Successful conditions**

The SMP record is ready to be migrated into the SML

### **Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied PrepateMigrationRecord does not contain consistent data (E2)

notFoundFault (404) - returned if the participant identifier or the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.6. UC10 Migrate

#### Description UC10 Migrate

Migrates a Participant Identifier already held by the Service Metadata Locator service to target a new Service Metadata Publisher. This operation is called by the Service Metadata Publisher which is taking over the publishing for the Participant Identifier. The operation requires the new Service Metadata Publisher to provide a migration code which was originally obtained from the old Service Metadata Publisher. The PrepareToMigrate operation MUST have been previously invoked for the supplied Participant Identifier, using the same MigrationCode, otherwise the Migrate() operation fails. Following the successful invocation of this operation, the lookup of the metadata for the service endpoints relating to a particular Participant Identifier will resolve (via DNS) to the new Service Metadata Publisher.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participant already exists
C5	The PrepareToMigrate operation MUST have been previously invoked for the supplied Participant Identifier, using the same MigrationCode
C6	Input CompleteMigrationRecord: MigrationRecordType - contains the Migration Key and the Participant Identifier which is to be migrated from one Service Metadata Publisher to another.

#### Basic Flow

Actor	Step	
SMP	1	Invokes the Migrate() operation
SML	2	Authenticates the user, validates the request, and migrates the SMP record into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the migration confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

<b>E2</b>	<b>Request is not valid</b>	
2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends
<b>E3</b>	<b>The SMP or migration key could not be found</b>	
2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends
<b>E4</b>	<b>Any other error occurred that prevented the SML to process the request</b>	
2.4.1	SML	Returns an HTTP error 500 as response to the requester
2.4.2	SMP	Receives the error response
2.4.3		Use case ends

## Post conditions

### Successful conditions

The participant identifier has been migrated into the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied CompleteMigrationRecord does not contain consistent data (E2)

notFoundFault (404) -returned if the migration key or the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.5.7. [UC11 List](#)

#### Description UC11 List

List() is used to retrieve a list of all participant identifiers associated with a single Service Metadata Publisher, for synchronization purposes. Since this list may be large, it is returned as pages of data, with each page being linked from the previous page.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C5	Input Page: PageRequest - contains a PageRequest containing the ServiceMetadataPublisherID of the SMP and (if required) an identifier representing the next page of data to retrieve. If the NextPageIdentifier is absent, the first page is returned.

#### Basic Flow

Actor	Step	
SMP	1	Invokes the List() operation
SML	2	Authenticates the user, validates the request, and builds the list of SMP from its configuration database.
SML	3	Returns the requested list to the requester
SMP	4	Receives the requested list
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

##### E3 The SMP or migration key could not be found

2.3.1	SML	Returns an HTTP error 404 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

##### E4 Any other error occurred that prevented the SML to process the request

- |       |     |  |
|-------|-----|--|
| 2.4.1 | SML | Returns an HTTP error 500 as response to the requester |
| 2.4.2 | SMP | Receives the error response                            |
| 2.4.3 |     | Use case ends  |

## Post conditions

### Successful conditions

Output: ParticipantIdentifierPage - a page of Participant Identifier entries associated with the Service Metadata Publisher, also containing a <Page/> element containing the identifier that represents the next page, if any.

Note that the underlying data may be updated between one invocation of List() and a subsequent invocation of List(), so that a set of retrieved pages of participant identifiers may not represent a consistent set of data.

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied NextPage does not contain consistent data (E2)

notFoundFault (404) - returned if the next page or the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.6. Detailed use cases – BDMSLService

This interface describes non-core services that are not defined in the SML or BDX specifications.

The following paragraphs define the use cases related to the BDMSLService service.

#### 3.6.1. UC12- PrepareChangeCertificate

#### Description UC12 PrepareChangeCertificate

This operation allows an SMP to prepare a change of its certificate. It is typically called when an SMP has a certificate that is about to expire and already has the new one. This operation **MUST** be called while the certificate that is already registered in the BDMSL is still valid. If the migrationDate is not empty, then the new certificate **MUST** be valid at the date provided in the migrationDate element. If the migrationDate element is empty, then the "Valid From" date is extracted from the certificate and is used as the migrationDate. In this case, the "Not Before" date of the certificate must be in the future.

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The user has the new certificate for the SMP(s)
C4	Input: PrepareChangeCertificate containing the new certificate and the validity start date

#### Basic Flow

Actor	Step	
SMP	1	Invokes the PrepareChangeCertificate() operation
SML	2	Authenticates the user, validates the request, and stores the future certificate into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

<b>E3</b>	<b>Any other error occurred that prevented the SML to process the request</b>	
2.3.1	SML	Returns an HTTP error 500 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

## Post conditions

### Successful conditions

The Metadata record has been created into the SML

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if :

- o The supplied request does not contain consistent data
  - o The new certificate is not valid at the date provided in the migrationDate element
  - o The migrationDate is not in the future.
  - o The migrationDate is not provided and the "Not Before" date of the new certificate is not in the future
  - o The migrationDate is not provided and the "Valid From" is in the past
- (E2)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E3)

### 3.6.2. UC13- CreateParticipantIdentifier

#### Description UC13 CreateParticipantIdentifier

This service has the same behaviour as the Create() operation in the ManageParticipantIdentifier interface but it has one additional and optional() Input: the serviceName element. In the Create() operation, the service name is "Meta:SMP" by default. In the CreateParticipantIdentifier() operation, this service name can be customized.

- serviceName: the name of the service for the NAPTR record

#### Actors

SMP

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_SMP
C3	The SMP does already exist in the SML
C4	The participant does not already exist
C5	Input CreateParticipantIdentifier: ServiceMetadataPublisherServiceForParticipantType - contains the Participant Identifier for a given participant and the identifier of the SMP which holds its data

Additional parameter: serviceName

#### Basic Flow

Actor	Step	
SMP	1	Invokes the CreateParticipantIdentifier() operation
SML	2	Authenticates the user, validates the request, and adds the SMP record into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

##### E3 The SMP could not be found

- 2.3.1 SML Returns an HTTP error 404 as response to the requester
- 2.3.2 SMP Receives the error response
- 2.3.3 Use case ends

**E4 Any other error occurred that prevented the SML to process the request**

- 2.4.1 SML Returns an HTTP error 500 as response to the requester
- 2.4.2 SMP Receives the error response
- 2.4.3 Use case ends

**Post conditions****Successful conditions**

The SMP record has been created into the SML

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if the supplied CreateParticipantIdentifier does not contain consistent data (E2)

notFoundFault (404) - returned if the identifier of the SMP could not be found (E3)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E4)

### 3.6.3. UC14 IsAlive

#### Description UC14 IsAlive

This service has only a monitoring purpose. It can be called to check if the application is up and running. This service checks if the database and the DNS are accessible by trying to read from the database and to write to and read from DNS.

#### Actors

SMP,  
ADMIN,  
Monitor user

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_SMP or ROLE_ADMIN, ROLE_MONITOR
C4	Input: None

#### Basic Flow

Actor	Step	
SMP	1	Invokes the IsAlive() operation
SML	2	Authenticates the user
SML	3	Returns a positive response to the requester
SMP	4	Receives the alive confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns no response to the requester
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns no response to the requester
2.2.2		Use case ends

#### Post conditions

##### Successful conditions

HTTP 200 OK response sent to the requester.

##### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E2)

### **3.7. Detailed use cases – BDMSLService**

This interface describes non-core services that are not defined in the SML or BDX specifications.

The following paragraphs define the use cases related to the BDMSLAdminService service.

### 3.7.1. UC15 ClearCache

#### Description UC15 ClearCache

The in-memory caches are used for:

- The list of trusted aliases and their corresponding domains, because these data are not supposed to be changed frequently.
- The content of the Certificate Revocation List, in order to avoid the cost of downloading each time the CRLM for each certificate.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: none.

#### Basic Flow

Actor	Step	
SMP	1	Invokes the ClearCache() operation
SML	2	Authenticates the user, validates the request, and clears the in-memory cache.
SML	3	Returns a positive response to the requester
SMP	4	Receives the reset confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

#### Post conditions

##### Successful conditions

The cache is reset. HTTP 200 OK response sent to the requester.

##### Failure Conditions (HTTP errors)

No or unspecified type of response (E1, E2)

### 3.7.2. UC16 ChangeCertificate

#### Description UC16 ChangeCertificate

This operation allows the admin team to change the SMP's certificate. It is called by the admin team in case the SMP's certificate has expired and the new one needs to be applied. The new certificate MUST be valid at the date time the request is sent.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The role associated to the user is ROLE_ADMIN
C3	The user has the new certificate for the SMP(s)
C4	Input : SMP id, New certificate public key

#### Basic Flow

Actor	Step	
SMP	1	Invokes the ChangeCertificate() operation
SML	2	Authenticates the user, validates the request, and stores the new certificate into its configuration database.
SML	3	Returns a positive response to the requester
SMP	4	Receives the creation confirmation
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	SMP	Receives the error response
2.1.3		Use case ends

##### E2 Request is not valid

2.2.1	SML	Returns an HTTP error 400 as response to the requester
2.2.2	SMP	Receives the error response
2.2.3		Use case ends

##### E3 Any other error occurred that prevented the SML to process the request

2.3.1	SML	Returns an HTTP error 500 as response to the requester
2.3.2	SMP	Receives the error response
2.3.3		Use case ends

#### Post conditions

#### Successful conditions

New Certificate is stored

Output : none.

HTTP 200 OK expected

### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

badRequestFault (400) - returned if :

- o The supplied request does not contain consistent data
  - o The new certificate is not valid at the date provided in the migrationDate element
  - o The migrationDate is not in the future.
  - o The migrationDate is not provided and the "Not Before" date of the new certificate is not in the future
  - o The migrationDate is not provided and the "Valid From" is in the past
- (E2)

internalErrorFault (500) - returned if the SML service is unable to process the request for any reason (E3)

### 3.7.3. UC17 SetProperty

#### Description UC17 SetProperty

This operation allows the admin team to change BDMSL property in database: as passwords, DNS url, .... New property is taken into account when crontask refresh the properties at the same time on all nodes in cluster. Crontab properties are refreshed only with restart of BDMSL server.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Property name and property value

Actor	Step	
ADMIN	1	Invokes the SetProperty () operation
SML	2	Authenticates the user, validates the request, if property is password – the password is encrypted, stores the property.
SML	3	Returns returns stored property from database. In case of password property the '****' is returned
ADMIN	4	Receives the stored property
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : PropertyType : the property stored in BDMSL

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.4. UC17 SetProperty

#### Description UC18 SetProperty

This operation allows the admin team to retrieve BDMSL property from database, DNS url, smtp configuration, etc.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Property name

Actor	Step	
ADMIN	1	Invokes the SetProperty () operation
SML	2	Authenticates the user, validates the request
SML	3	Returns returns stored property from database. In case of password property the '*****' is returned
ADMIN	4	Receives the stored property
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : PropertyType : the property from BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.5. UC19 DeleteProperty

#### Description UC19 DeleteProperty

This operation allows the admin team to delete BDMSL non mandatory properties from database.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Property name

Actor	Step	
ADMIN	1	Invokes the DeleteProperty () operation
SML	2	Authenticates the user, validates the request
SML	3	Returns returns stored property from database. In case of password property the '*****' is returned
ADMIN	4	Receives the stored property
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : PropertyType : the deleted property from BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.6. UC20 CreateSubDomain

#### Description UC20 CreateSubDomain

This operation allows the admin team to create new BDMSL SubDomain. When creating subdomain the DNS types, SMP url scheme restriction, Participant regular expression must be defined.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Domain name,DNS Zone, DNS Record type, allowed SMP Url scheme, Participant regular expression.

Actor	Step	
ADMIN	1	Invokes the CreateSubDomain () operation
SML	2	Authenticates the user, validates the request
SML	3	Stores the domain to database.
ADMIN	4	Receives the stored and normalized values for the SubDomain
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : SubDomainType : the stored SubDomainData from BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.7. UC21 UpdateSubDomain

#### Description UC21 UpdateSubDomain

This operation allows the admin team to update BDMSL SubDomain properties. In case of changing DNS Record Type and with DNS integration ON - the records are not updated automatically. Records must be updated manually using operations: AddDNSRecord, DeleteDNSRecord.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Domain name and optional:, DNS Record type, allowed SMP Url scheme, Participant regular expression.

Actor	Step	
ADMIN	1	Invokes the UpdateSubDomain () operation
SML	2	Authenticates the user, validates the request
SML	3	Update the subdomain data to database.
ADMIN	4	Receives the stored and normalized values for the SubDomain
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

E1	The user is not authorized	
2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends
E2	Any other error occurred that prevented the SML to process the request	
2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : SubDomainType : the stored SubDomainData from BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.8. UC22 GetSubDomain****Description UC22 GetSubDomain**

This operation allows the admin team to read BDMSL SubDomain properties.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Domain name.

Actor	Step	
ADMIN	1	Invokes the GetSubDomain () operation
SML	2	Authenticates the user, validates the request
SML	3	Get the subdomain data from database.
ADMIN	4	Receives the stored values for the SubDomain
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output : SubDomainType : the stored SubDomainData from BDMSL database

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.9. UC23 DeleteSubDomain

#### Description UC23 DeleteSubDomain

This operation allows the admin team to delete empty BDMSL SubDomain.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Domain name.

Actor	Step	
ADMIN	1	Invokes the DeleteSubDomain () operation
SML	2	Authenticates the user, validates the request
SML	3	Delete the subdomain data from database.
ADMIN	4	Receives the deleted SubDomain data
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

##### Successful conditions

Output : SubDomainType : the deleted SubDomainData from BDMSL database

##### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.10. [UC24 AddSubDomainCertificate](#)

#### Description UC24 AddSubDomainCertificate

This operation allows the admin team to add new Domain certificate to BDMSL SubDomain. Certificate can be flagged as RootPKI certificate and as Admin certificate. Admin certificate can be only the certificate which is not flagged as RootPKI certificate. If truststore authentication is enabled, then the certificate is automatically added to the truststore. For the certificate to be fully trusted, the whole PKI chain also has to be added to the truststore using the operation: AddTruststoreCertificate.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Certificate (PEM/DER), SubDomain name, IsRootPKI certificate, Is Admin certificate, CRL distribution URL.

Actor	Step	
ADMIN	1	Invokes the AddSubDomainCertificate () operation
SML	2	Authenticates the user, validates the request
SML	3	Add new SubDomain certificate to the subdomain.
ADMIN	4	Receives added Certificate SubDomain data
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : SubDomainCertificateType: the new SubDomain Certificate Data stored to BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)

internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.11. UC25 UpdateSubDomainCertificate

#### Description UC25 UpdateSubDomainCertificate

This operation allows the admin team to update SubDomain certificate data. Admin can set or clear CRL distribution point, IsAdmin flag and SubDomain name.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Certificate ID, Optional: SubDomain name, Is Admin certificate, CRL distribution URL.

Actor	Step	
ADMIN	1	Invokes the UpdateSubDomainCertificate () operation
SML	2	Authenticates the user, validates the request
SML	3	Update data to SubDomain certificate.
ADMIN	4	Receives stored Certificate SubDomain data
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output : SubDomainCertificateType : the new SubDomain Certificate Data stored to BDMSL database

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.12. UC26 ListSubDomainCertificates****Description UC26 ListSubDomainCertificates**

This operation allows the admin team to search for domain certificate by partial certificate DN value and/or by the Subdomain.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: Optional: Partial Certificate ID, SubDomain name

Actor	Step	
ADMIN	1	Invokes the ListSubDomainCertificates () operation
SML	2	Authenticates the user, validates the request
SML	3	Returns list of SubDomain certificate data accordint to search paremeters
ADMIN	4	Receives list of SubDomain certificate data
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: List of SubDomainCertificateTypes which match search criteria.

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.13. UC27 AddDNSRecord****Description UC27 AddDNSRecord**

This operation allows the admin team to add new record to DNS for DNS RecordType: A, CNAME and NAPTR.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: DNS Record Type, DNS Record Name, DNS Zone, Value and service name for NAPTR Type.

Actor	Step	
ADMIN	1	Invokes the AddDNSRecordType () operation
SML	2	Authenticates the user, validates the request
SML	3	Stores DNS record to SML database and if DNS integration is on inserts record to DNS server.
ADMIN	4	Receives stored DNS data
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: DNSRecord data which are stored to database and optionally to DNS.

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - Returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.14. UC28 DeleteDNSRecord****Description UC28 DeleteDNSRecord**

This operation allows the admin team to delete record from DNS by the DNS name. If there are multiple DNS records with the same name in database and DNS server, all of them are deleted.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: DNS Record Name, DNS Zone

Actor	Step	
ADMIN	1	Invokes the DeleteDNSRecordType () operation
SML	2	Authenticates the user, validates the request
SML	3	Deleted DNS records from SML database and DNS server if DNS integration is on.
ADMIN	4	Receives list of deleted DNS data from database
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: List of DNSRecord data, which are deleted from database.

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2).

**3.7.15. UC29 AddTruststoreCertificate****Description UC29 AddTruststoreCertificate**

This operation allows the admin team to add X509 certificate to the truststore.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: X509Certificate

Actor	Step	
ADMIN	1	Invokes the AddTruststoreCertificate operation
SML	2	Authenticates the user, validates the request
SML	3	Add the certificate to Truststore and generates new Alias if it is not given in the request
ADMIN	4	Receives inserted certificate with alias
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: Certificate with alias.

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.16. UC30 GetTruststoreCertificate****Description UC30 GetTruststoreCertificate**

This operation allows the admin team to retrieve X509 certificate from the truststore by the certificate alias.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: certificate alias

Actor	Step	
ADMIN	1	Invokes the GetTruststoreCertificate operation
SML	2	Authenticates the user, validates the request
SML	3	Retrieve certificate from Truststore
ADMIN	4	Receives certificate with alias
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: certificate with alias

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2)

**3.7.17. UC31 DeleteTruststoreCertificate****Description UC31 DeleteTruststoreCertificate**

This operation allows the admin team to delete X509 certificate from the truststore.

**Actors**

ADMIN

**Preconditions**

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: certificate alias

Actor	Step	
ADMIN	1	Invokes the DeleteTruststoreCertificate operation
SML	2	Authenticates the user, validates the request
SML	3	Deletes the certificate from the truststore
ADMIN	4	Receives deleted certificate with alias
	5	Use case ends

**Alternative flows**

None.

**Exception flows****E1 The user is not authorized**

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

**E2 Any other error occurred that prevented the SML to process the request**

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

**Post conditions****Successful conditions**

Output: Deleted X509 Certificate and alias

**Failure Conditions (HTTP errors)**

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2)

### 3.7.18. UC32 ListTruststoreCertificateAliases

#### Description UC32 ListTruststoreCertificateAliases

This operation allows the admin team to list all X509 certificates in the truststore.

#### Actors

ADMIN

#### Preconditions

C1	The user has a valid certificate
C2	The user has the role ROLE_ADMIN
C3	Input: search parameter: null or partial certificate alias

Actor	Step	
ADMIN	1	Invokes the ListTruststoreCertificate operation
SML	2	Authenticates the user, validates the request
SML	3	Retrieves the aliases which match the search parameter. If the search parameter is not given, then the operation returns all certificates
ADMIN	4	Receives truststore aliases which matched search parameter
	5	Use case ends

#### Alternative flows

None.

#### Exception flows

##### E1 The user is not authorized

2.1.1	SML	Returns an HTTP error 401 as response to the requester
2.1.2	ADMIN	Receives the error response
2.1.3		Use case ends

##### E2 Any other error occurred that prevented the SML to process the request

2.2.1	SML	Returns an HTTP error 500 as response to the requester
2.2.2	ADMIN	Receives the error response
2.2.3		Use case ends

#### Post conditions

#### Successful conditions

Output: List of truststore aliases.

#### Failure Conditions (HTTP errors)

unauthorizedFault (401) - returned if the caller is not authorized to invoke this operation (E1)  
 internalErrorFault (500) - returned if the BDMSL service is unable to process the request for any reason (E2)

## 4. INTERFACE BEHAVIOURAL SPECIFICATION

### 4.1. Sequence diagrams

#### 4.1.1. ManageServiceMetadataService

(cf. [REF3])

The ManageServiceMetadata interface allows Service Metadata Publishers to manage the metadata held in the Service Metadata Locator service about their service metadata publisher services, e.g. binding, interface profile and key information. This interface requires authentication of the user. The identity of the user derived from the authentication process identifies the Service Metadata Publisher associated with the service metadata which is managed via this interface. The ManageServiceMetadata interface has the following operations:

- Create
- Read
- Update
- Delete

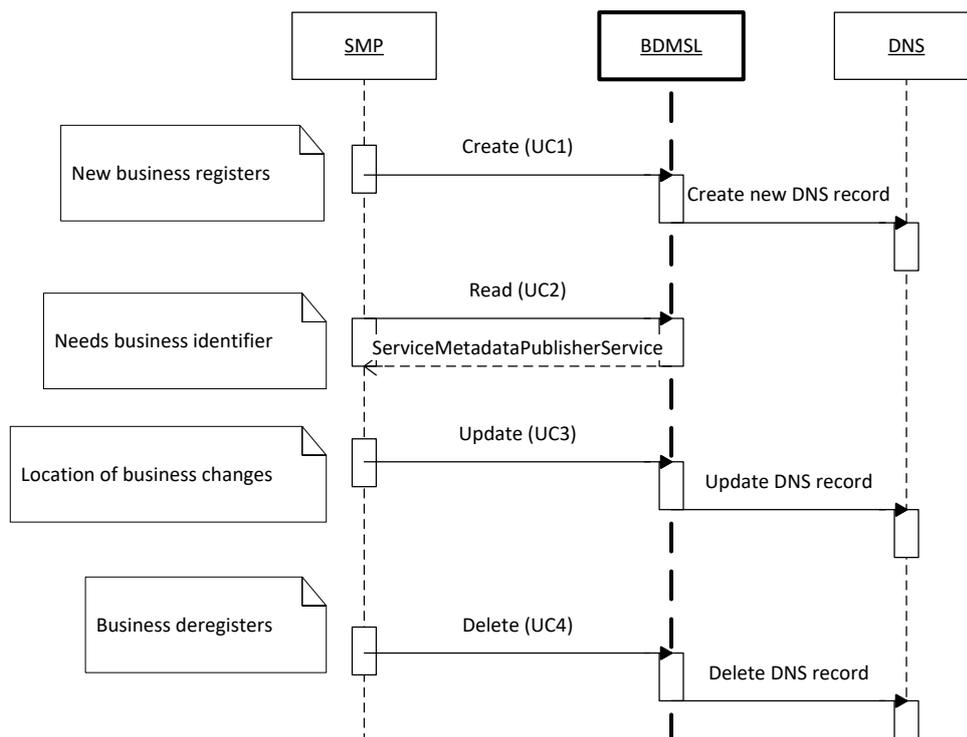


Figure 2 – Sequence diagram: *ManageServiceMetadataService*

#### 4.1.2. *ManageBusinessIdentifierService*

The ManageParticipantIdentifier interface has the following operations:

- Create
- CreateList
- Delete
- DeleteList
- PrepareToMigrate
- Migrate
- List

These services are listed in the sequence diagram below:

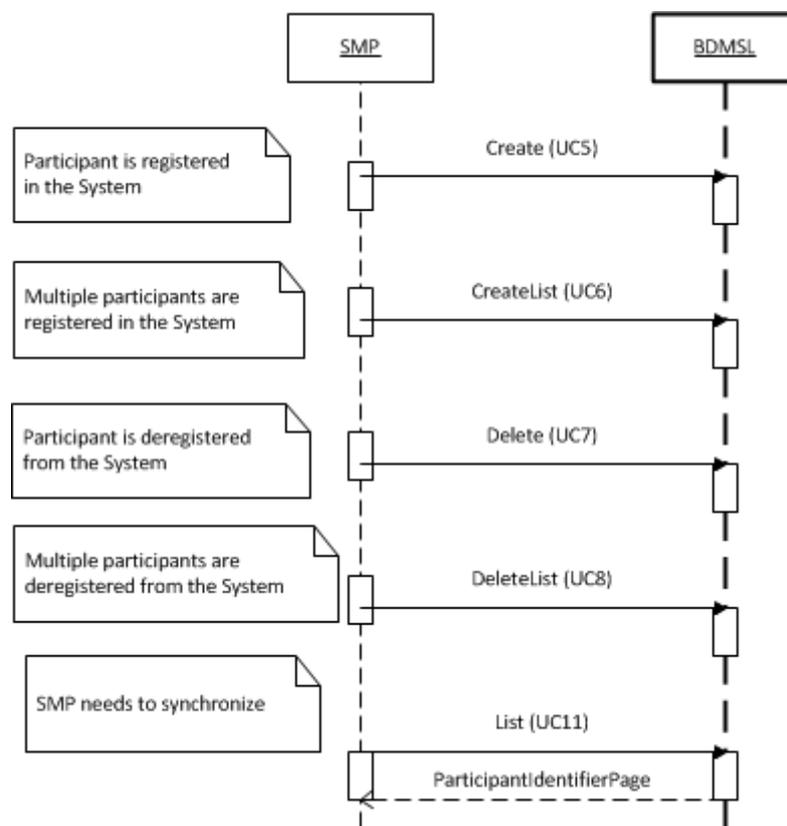


Figure 3 – Sequence diagram: *ManageBusinessIdentifierService*

The usage of the services related to the SMP migration process – involving more than a single step like the others above – are shown in the sequence diagram below:

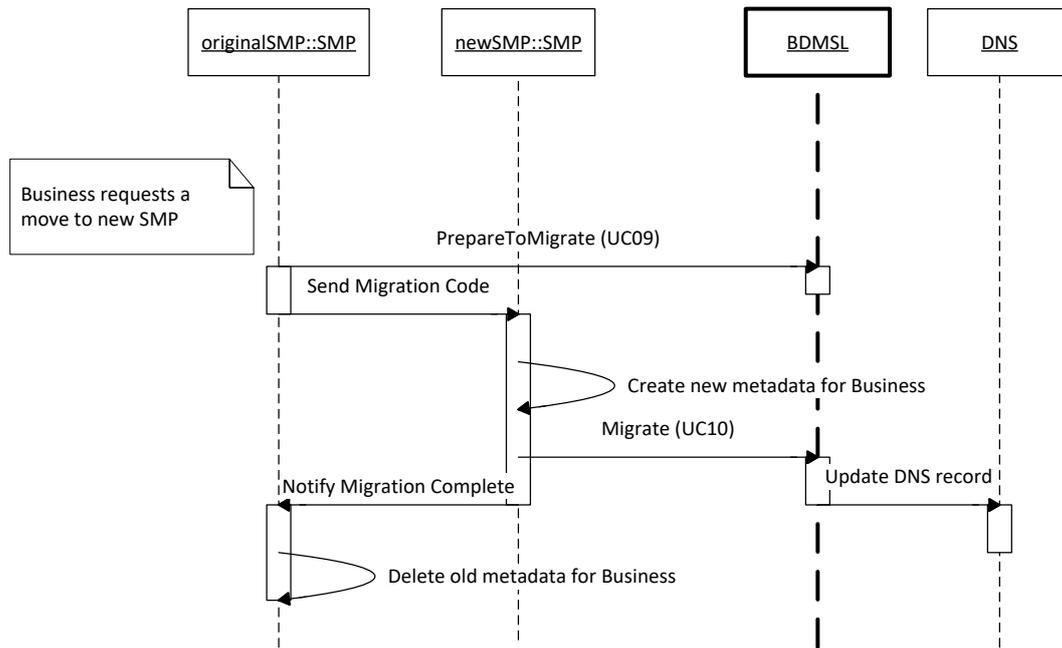


Figure 4 – Sequence diagram : SMP Migration

### 4.1.3. *BDMSLService*

This interface describes non-core services that are not defined in the SML or BDXML specifications.

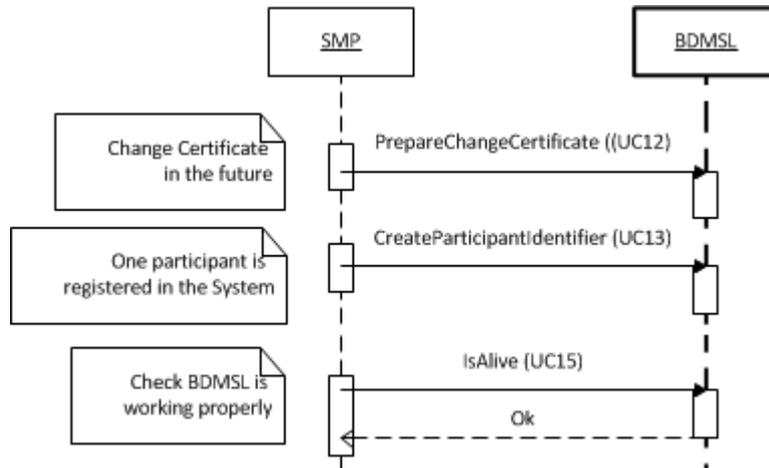


Figure 5 – Sequence diagram: *BDMSLService*

4.1.4. *BDMSLAdminService*

This interface describes non-core administration services that are not defined in the SML or BDx specifications.

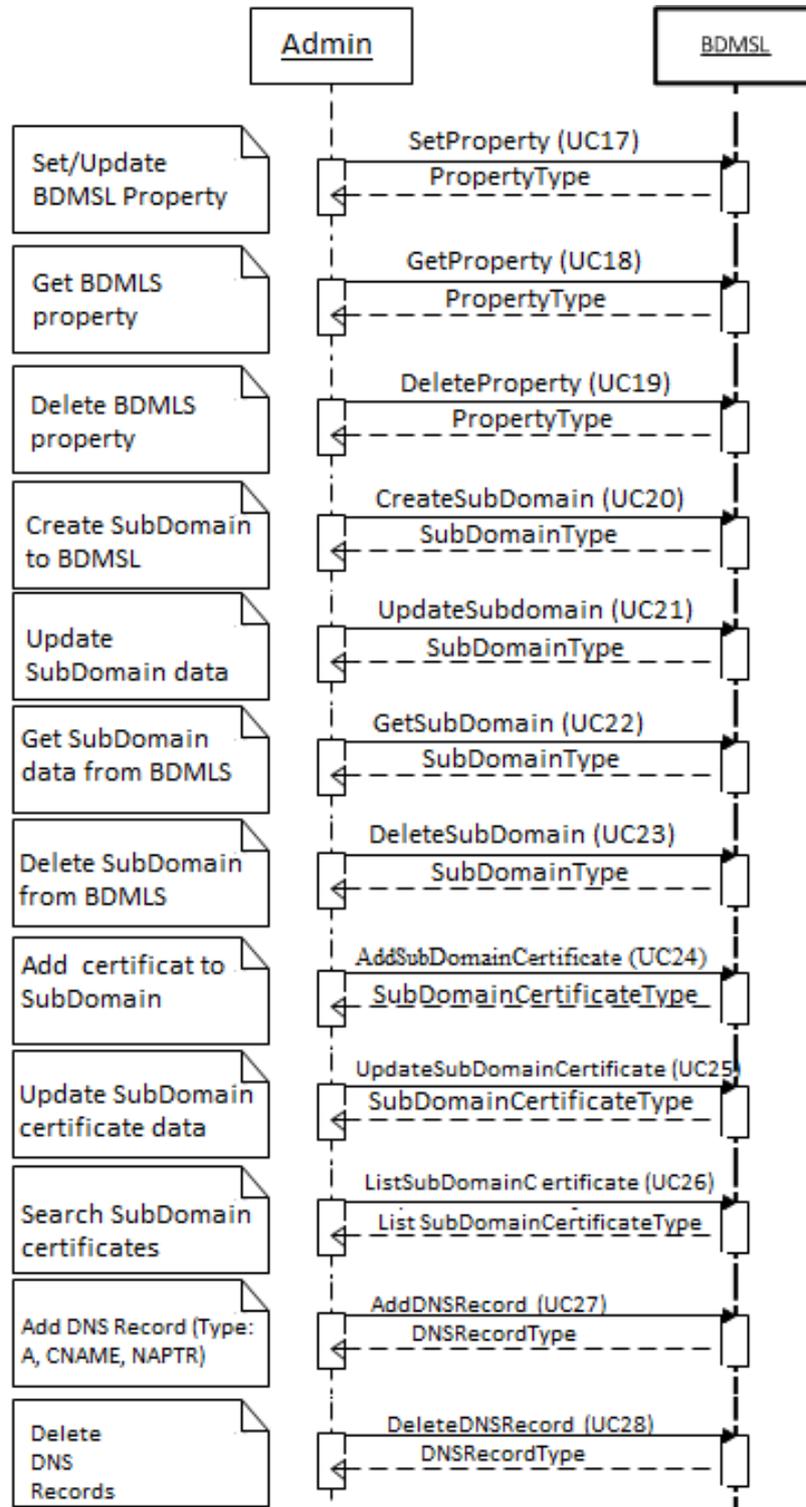
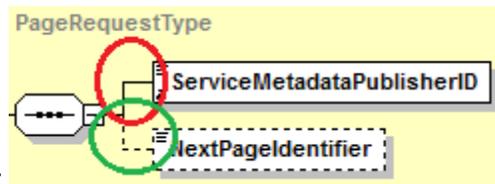


Figure 6 – Sequence diagram: BDMSLService

## 4.2. WSDL – Data model

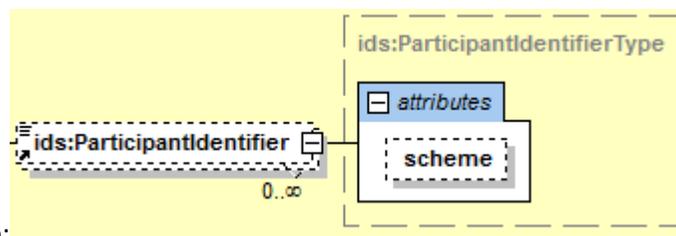
The interface data model of the BDMSL is described as follows:

- One paragraph for each of the 3 web services will introduce all their operations
- One paragraph for each operation will specify their Input and Output structures and the fault that these operations may return. In some cases there is no argument, in which case there is no related structure (the text below will mention "none" in those cases).
- For each input or output structure, the related XSD structure is detailed in a graphical way specifying:
  - The arborescence structure;
  - The mandatory (**solid lines**) and optional (**dashed line**) fields.



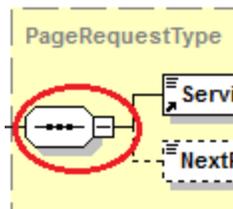
Example:

- The repeated fields and their cardinality (icon  with min/max indication on the bottom right).



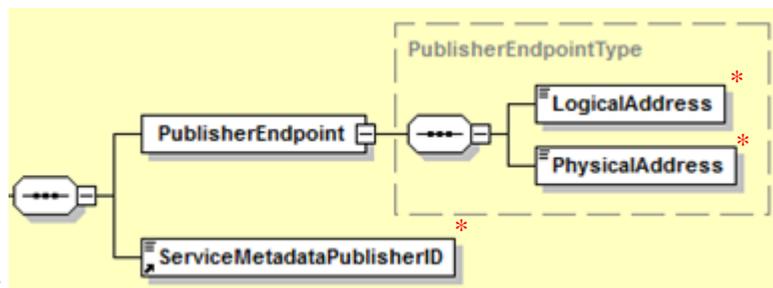
Example:

- The sequences (icon )



Example:

- The leave attributes as defined in the first paragraph.



Examples (\*):

#### 4.2.1. WSDL model for ManageServiceMetadadataService

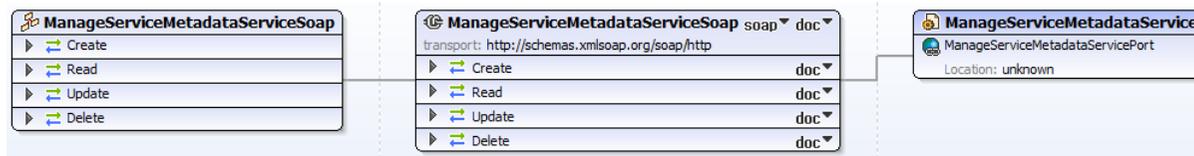
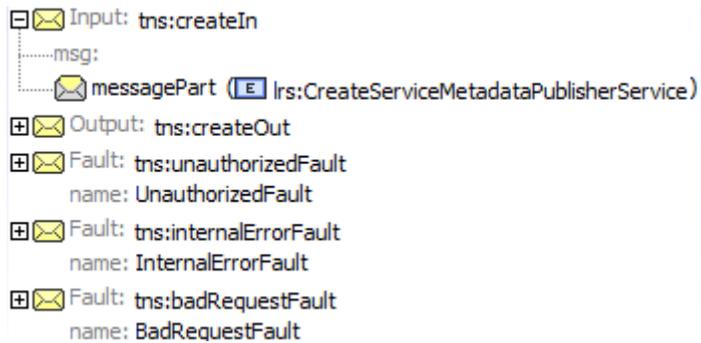


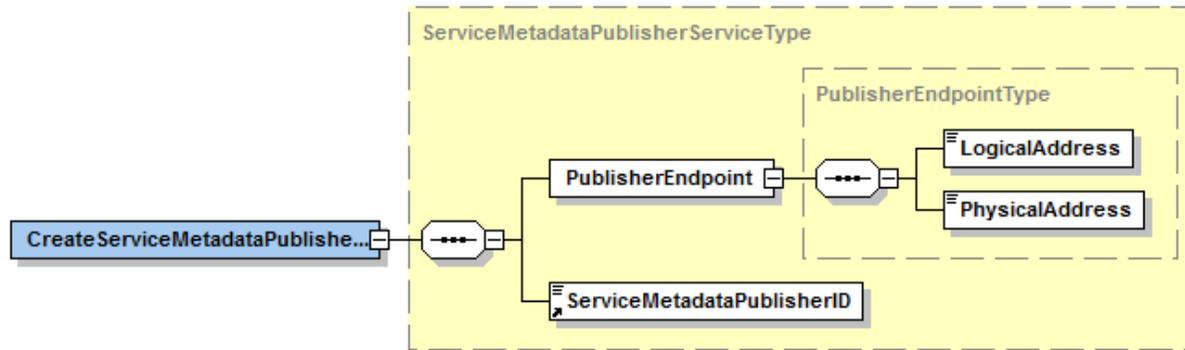
Figure 7 – WSDL ManageServiceMetadadataService

#### 4.2.1.1. Operations Signatures

##### 4.2.1.1.1. Create() Signature



## 4.2.1.1.2. Create() Input



Argument	Description	Format/XSD/Xpath	Constraint
PublisherEndpoint.LogicalAddress	The logical address of the endpoint (Domain name)	xs:anyURI  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='LogicalAddress']	Must not be null or empty. Must be valid and well formatted.
PublisherEndpoint.PhysicalAddress	IP Address of the endpoint	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='PhysicalAddress']	This physical address is used as the ALIAS on the CNAME DNS record by default. However a NAPTR DNS record is also provided in order to give the possibility to process regular expressions for accessing the domain if necessary. NAPTR records are based

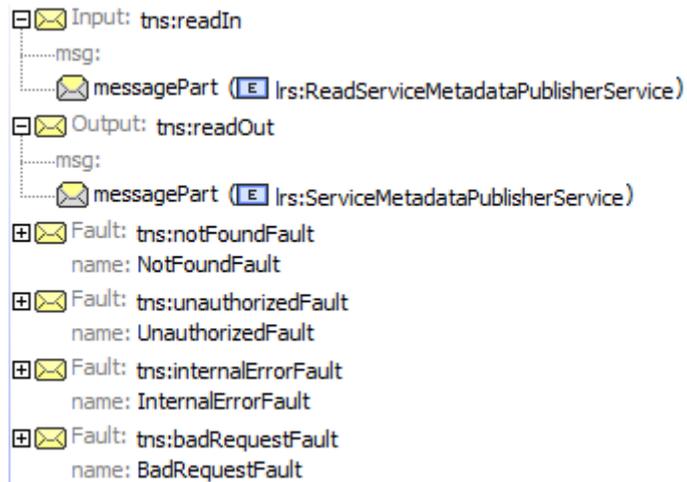
Argument	Description	Format/XSD/Xpath	Constraint
			<p>on a different type of DNS resource records called "URI-enabled Naming Authority Pointer records" (U-NAPTR), which are defined to support Dynamic Delegation Discovery Service (DDDS). The result of a query is a full URI, which can use HTTPS and supports server and optionally client authentication. Must not be null or empty. Must be valid according to IPv4 and well formatted.</p>
ServiceMetadataPublisherID	Unique identifier of the SMP	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']</code></p>	<p>In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.</p>

Table 4 – Create() input

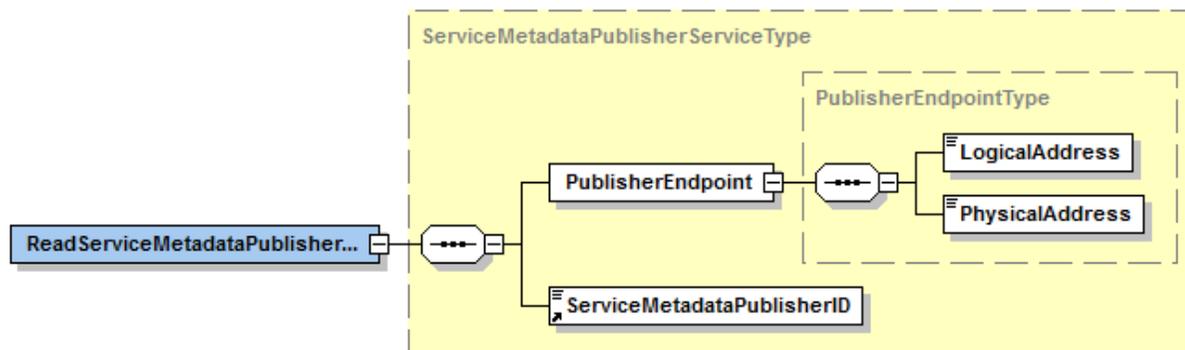
## 4.2.1.1.3. Create() Output

None

## 4.2.1.1.4. Read() Signature



## 4.2.1.1.5. Read() Input

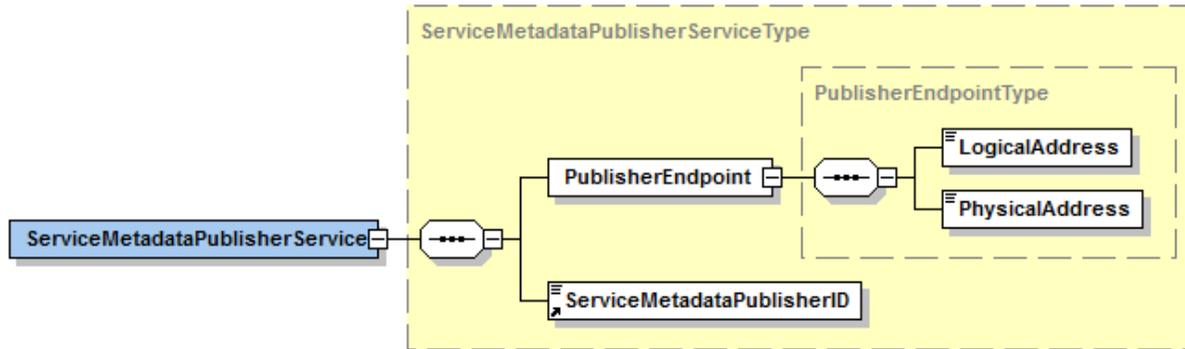


Argument	Description	Format/XSD/Xpath	Constraint
PublisherEndpoint.LogicalAddress	The logical address of the endpoint (Domain name)	xs:anyURI  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='LogicalAddress']	Must not be null or empty. Must be valid and well formatted.
PublisherEndpoint.PhysicalAddress	IP Address of the endpoint	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='PhysicalAddress']	This physical address is used as the ALIAS on the CNAME DNS record by default. However a NAPTR DNS record is also provided in order to give the possibility to process regular expressions for accessing the domain if necessary. NAPTR records are based on a different type of DNS resource records called "URI-enabled Naming Authority Pointer records" (U-NAPTR), which are defined to support Dynamic Delegation Discovery Service (DDDS). The result of a query is a full URI, which can use HTTPS and supports server and optionally client

Argument	Description	Format/XSD/Xpath	Constraint
			<p>authentication. Must not be null or empty. Must be valid according to IPv4 and well formatted.</p>
ServiceMetadataPublisherID	Unique identifier of the SMP	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']</code></p>	<p>In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.</p>

Table 5 – Read input()

## 4.2.1.1.6. Read() Output

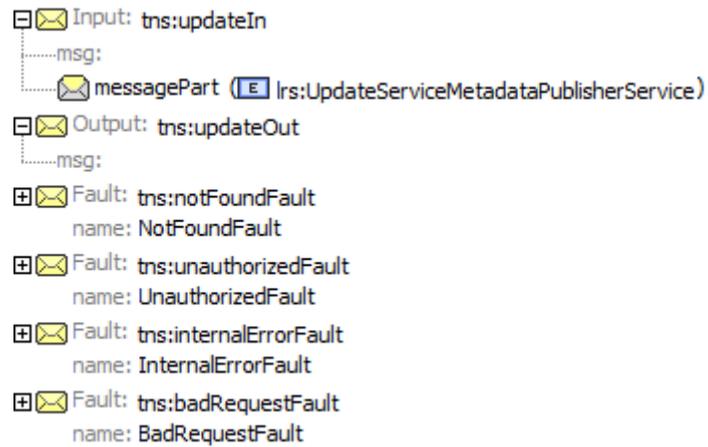


Argument	Description	Format/XSD/Xpath	Constraint
PublisherEndpoint.LogicalAddress	The logical address of the endpoint (Domain name)	xs:anyURI  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='LogicalAddress']	Must not be null or empty. Must be valid and well formatted.
PublisherEndpoint.PhysicalAddress	IP Address of the endpoint	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='PhysicalAddress']	This physical address is used as the ALIAS on the CNAME DNS record by default. However a NAPTR DNS record is also provided in order to give the possibility to process regular expressions for accessing the domain if necessary. NAPTR records are based

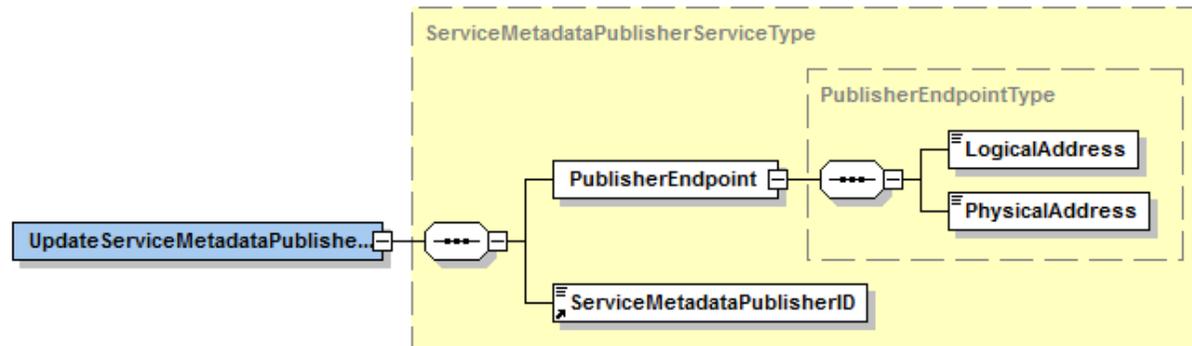
Argument	Description	Format/XSD/Xpath	Constraint
			<p>on a different type of DNS resource records called "URI-enabled Naming Authority Pointer records" (U-NAPTR), which are defined to support Dynamic Delegation Discovery Service (DDDS). The result of a query is a full URI, which can use HTTPS and supports server and optionally client authentication.</p> <p>Must not be null or empty.</p> <p>Must be valid according to IPv4 and well formatted.</p>
ServiceMetadataPublisherID	Unique identifier of the SMP	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']</code></p>	<p>In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.</p>

Table 6 – Read() output

## 4.2.1.1.7. Update() Signature



## 4.2.1.1.8. Update() Input



Argument	Description	Format/XSD/Xpath	Constraint
PublisherEndpoint.LogicalAddress	The logical address of the endpoint (Domain name)	xs:anyURI  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='LogicalAddress']	Must not be null or empty. Must be valid and well formatted.
PublisherEndpoint.PhysicalAddress	IP Address of the endpoint	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PublisherEndpointType']/*[local-name()='sequence']/*[local-name()='element' and @name='PhysicalAddress']	This physical address is used as the ALIAS on the CNAME DNS record by default. However a NAPTR DNS record is also provided in order to give the possibility to process regular expressions for accessing the domain if necessary. NAPTR records are based on a different type of DNS resource records called "URI-enabled Naming Authority Pointer records" (U-NAPTR), which are defined to support Dynamic Delegation Discovery Service (DDDS). The result of a query is a full URI, which can use HTTPS and supports server and optionally client authentication.

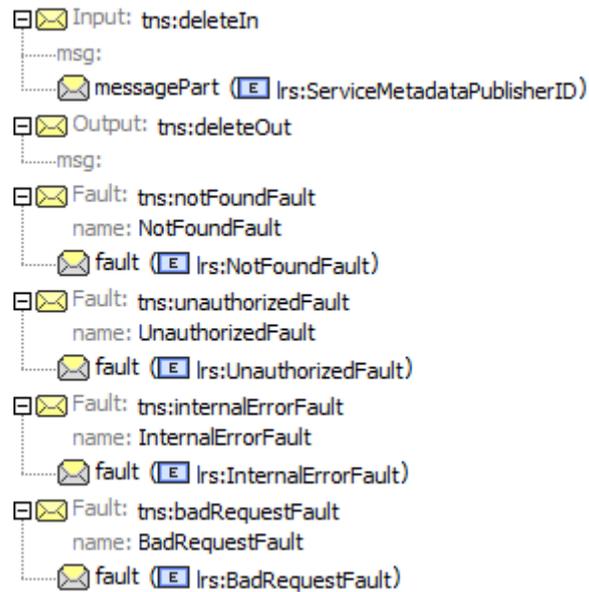
Argument	Description	Format/XSD/Xpath	Constraint
			Must not be null or empty. Must be valid according to IPv4 and well formatted.
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

Table 7 – Update() input

## 4.2.1.1.9. Update() Output

None

## 4.2.1.1.10. Delete() Signature



## 4.2.1.1.11. Delete() Input

**ServiceMetadataPublisherID**

Argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

**Table 8 – Delete() input**

4.2.1.1.12. Delete() Output

None

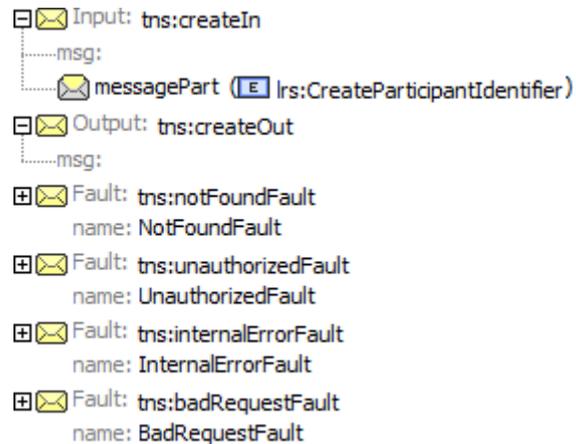
#### 4.2.2. WSDL model for ManageBusinessIdentifierService



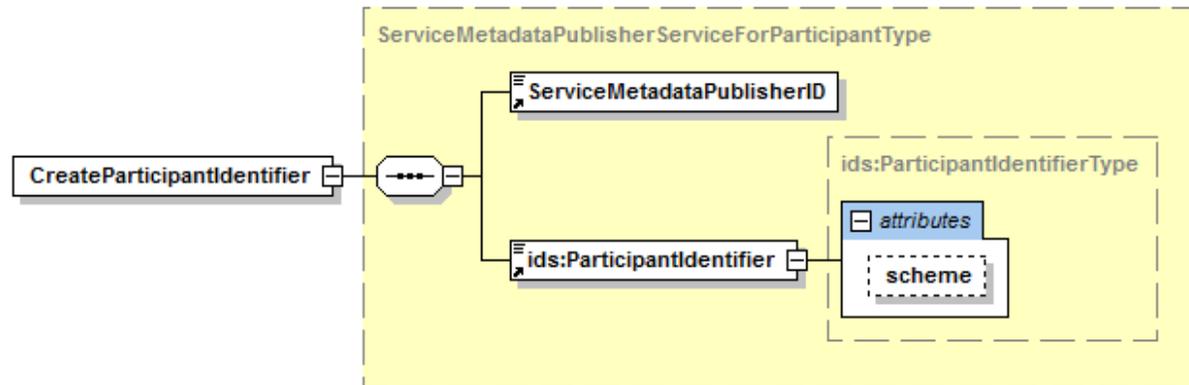
Figure 8 – WSDL ManageBusinessIdentifierService

##### 4.2.2.1. Operations Signatures

###### 4.2.2.1.1. Create() Signature



#### 4.2.2.1.2. Create() Input



Argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier	<p>Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...</p>	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique.</p> <p>May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples:                    iso6523-actorid-upis,                    busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p>/*[local-name()='schema']/*[local-name()='complexType'] and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern: [a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</p> <p>Which defines the following parts: &lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</p>

Table 9 – Create() input

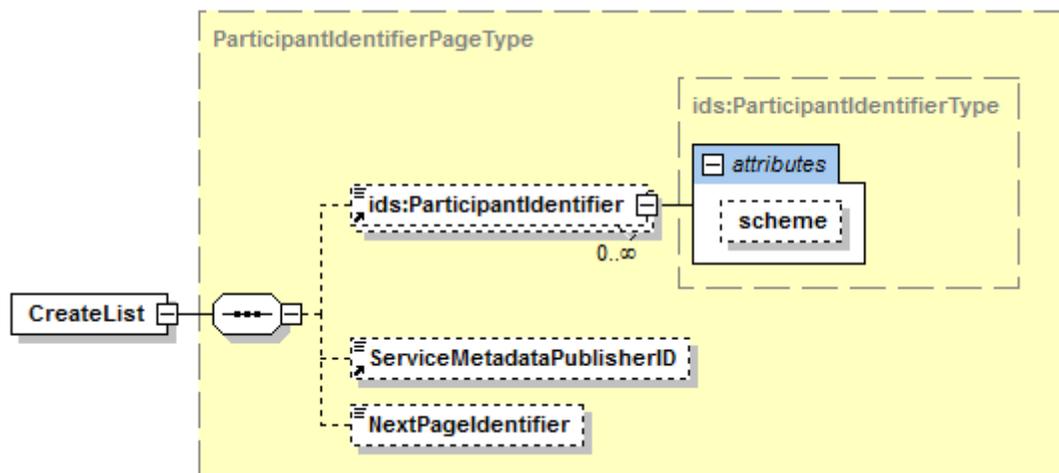
## 4.2.2.1.3. Create() Output

None

## 4.2.2.1.4. CreateList() Signature



## 4.2.2.1.5. CreateList() Input



Note: the `NextPageIdentifier` is absent.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier (0..n)	Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique.</p> <p>May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

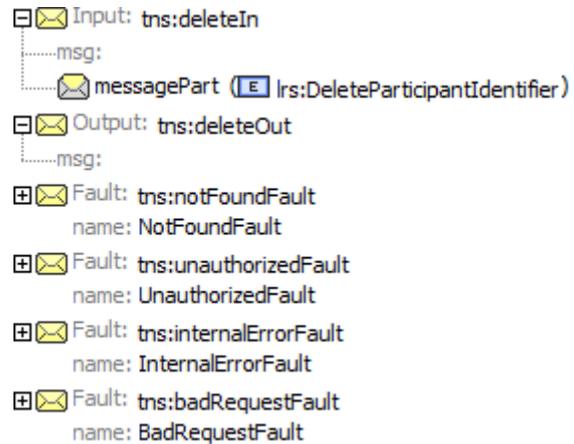
Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme (0..n)	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>
ServiceMetadataPublisherID	Unique identifier of the SMP	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']</code></p>	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.
NextPageIdentifier	This argument is not used in this context.	n/a	Must be null

Table 10 – CreateList() input

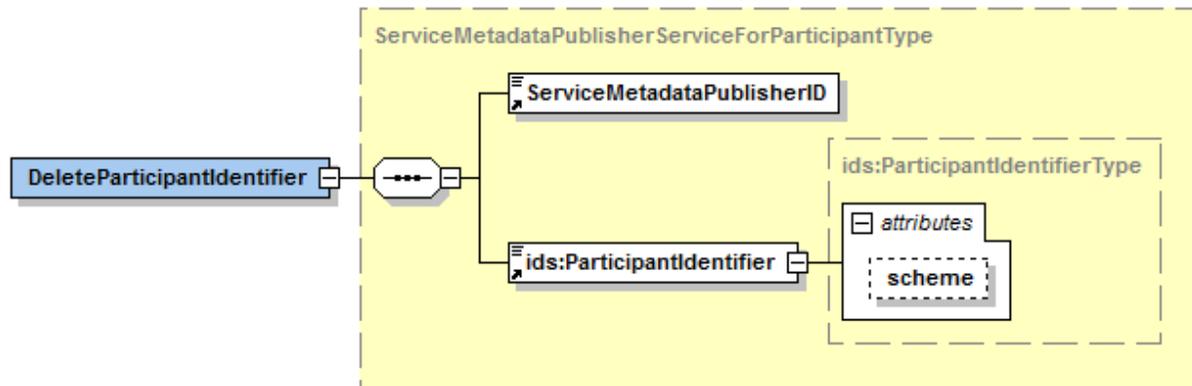
## 4.2.2.1.6. CreateList() Output

None.

## 4.2.2.1.7. Delete() Signature



## 4.2.2.1.8. Delete() Input



Argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier	Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique.</p> <p>May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

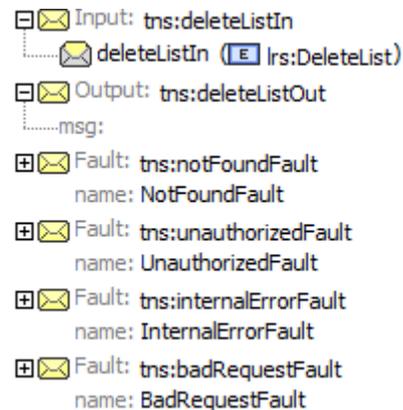
Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>

Table 11 – Delete() input

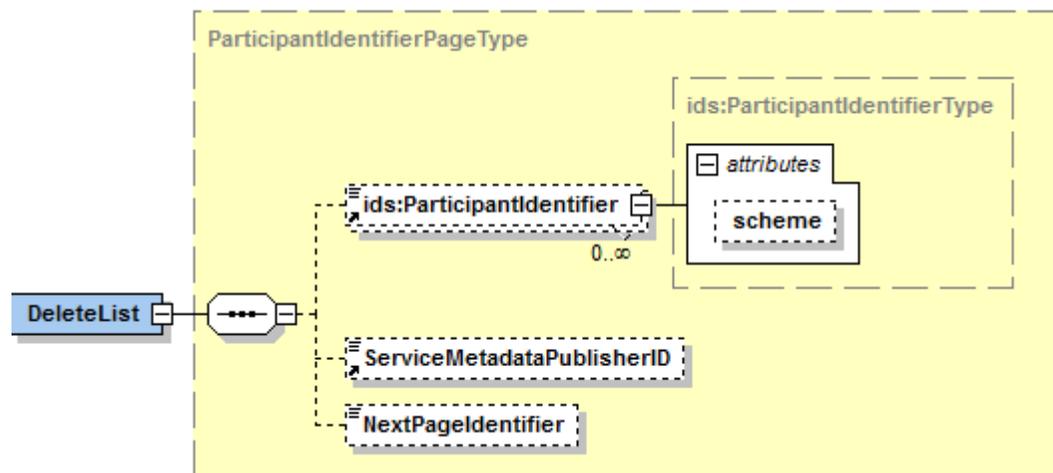
## 4.2.2.1.9. Delete() Output

None

## 4.2.2.1.10. DeleteList() Signature



## 4.2.2.1.11. DeleteList() Input



Note: the `NextPageIdentifier` is absent.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier (0..n)	Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique. May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

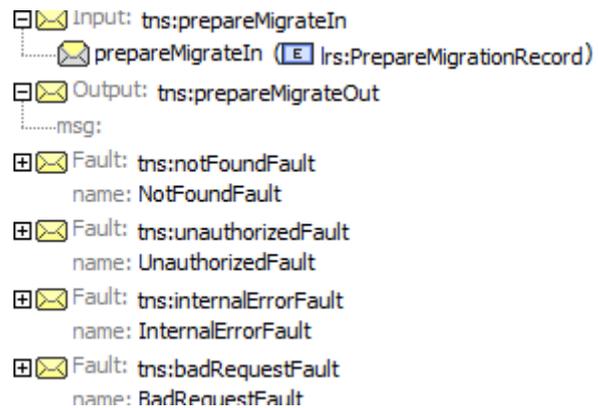
Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme (0..n)	The scheme of the participant identifier	Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.  Examples: iso6523-actorid-upis, busdox-actorid-upis  Identifiers-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute	May not exceed 25 characters. Must match the two following pattern: [a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]  Which defines the following parts: <domain>-<identifier Area>-<identifier type>
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.
NextPageIdentifier	This argument is not used in this context.	n/a	Must be null

Table 12 – DeleteList() input

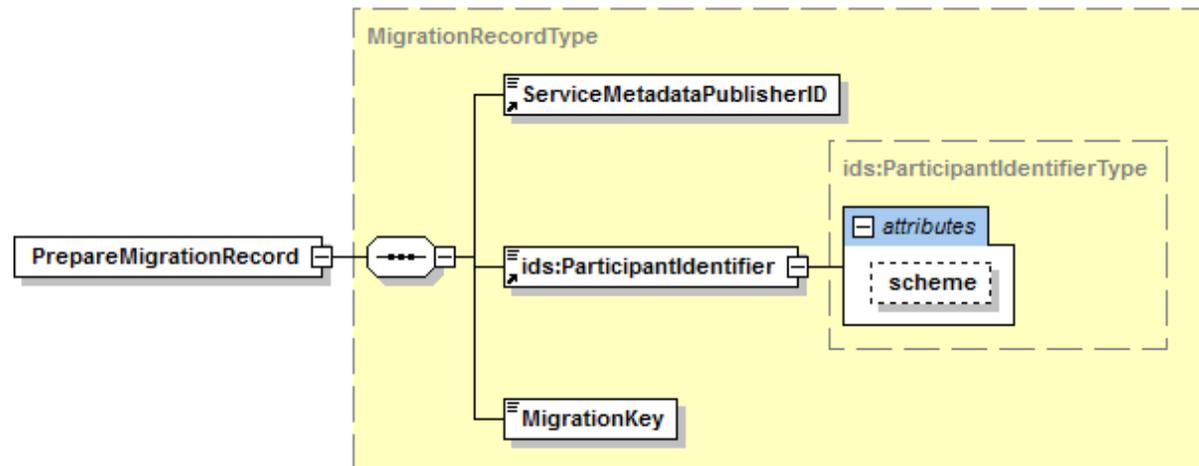
## 4.2.2.1.12. DeleteList() Output

None

## 4.2.2.1.13. PrepareToMigrate() Signature



## 4.2.2.1.14. PrepareToMigrate() Input



Argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier	<p>Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...</p>	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique. May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>
MigrationKey	String which is a unique key controlling the migration of the metadata for a given ParticipantIdentifier from one Service Metadata Publisher to another.	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='MigrationRecordType']/*[local-name()='sequence']/*[local-name()='element' and @name='MigrationKey']</code></p>	<p>The migration key is a code that must be passed out-of-band to the SMP which is taking over the publishing of the metadata for the participant identifier.</p> <p>This code must be unique;</p> <p>This code must not be null nor empty;</p> <p>This code must contain:</p> <ul style="list-style-type: none"> <li>• 8 characters minimum</li> <li>• 24 characters maximum</li> <li>• 2 Special Characters <code>@#\$( ) [ ] { } * ^ - ! ~   + =</code></li> <li>• 2 Upper Case letters minimum</li> </ul>

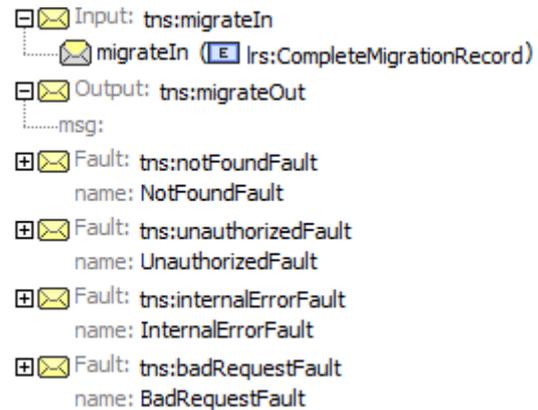
Argument	Description	Format/XSD/Xpath	Constraint
			<ul style="list-style-type: none"> <li>• 2 Lower Case letters minimum</li> <li>• 2 Numbers minimum</li> <li>• No white spaces</li> </ul>

Table 13 – PrepareToMigrate() input

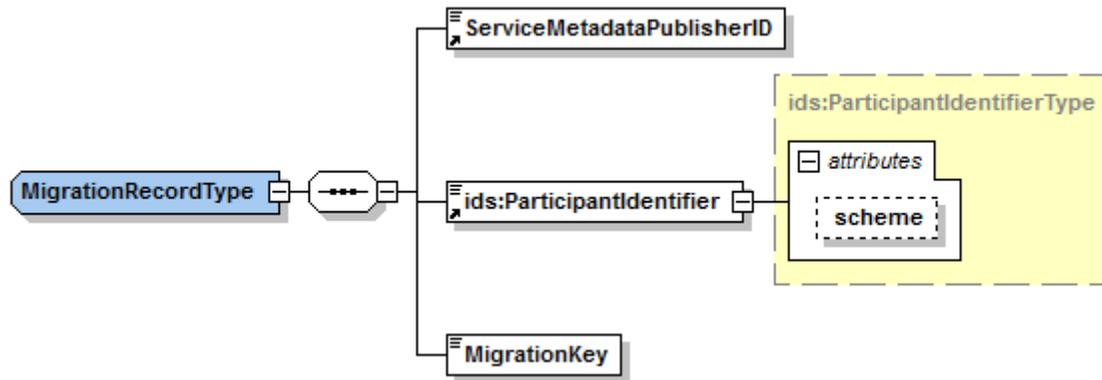
## 4.2.2.1.15. PrepareToMigrate() Output

None

## 4.2.2.1.16. Migrate() Signature



4.2.2.1.17. Migrate() Input



Argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier	<p>Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...</p>	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique. May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

Argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>
MigrationKey	String which is a unique key controlling the migration of the metadata for a given ParticipantIdentifier from one Service Metadata Publisher to another.	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='MigrationRecordType']/*[local-name()='sequence']/*[local-name()='element' and @name='MigrationKey']</code></p>	<p>The migration key is a code that must be passed out-of-band to the SMP which is taking over the publishing of the metadata for the participant identifier. This code must be unique;</p> <p>This code must not be null nor empty;</p> <p>This code must contain:</p> <ul style="list-style-type: none"> <li>• 8 characters minimum</li> <li>• 24 characters maximum</li> <li>• 2 Special Characters <code>@#\$( ) [ ] { } * ^ - ! ~   + =</code></li> <li>• 2 Upper Case letters minimum</li> </ul>

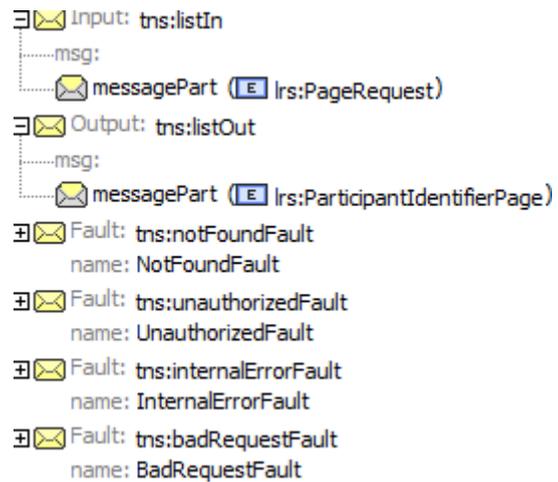
Argument	Description	Format/XSD/Xpath	Constraint
			<ul style="list-style-type: none"> <li>• 2 Lower Case letters minimum</li> <li>• 2 Numbers minimum</li> <li>• No white spaces</li> </ul>

Table 14 – Migrate() input

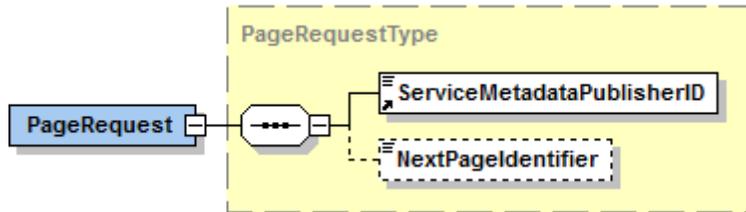
## 4.2.2.1.18. Migrate() Output

None

## 4.2.2.1.19. List() Signature



## 4.2.2.1.20. List() Input

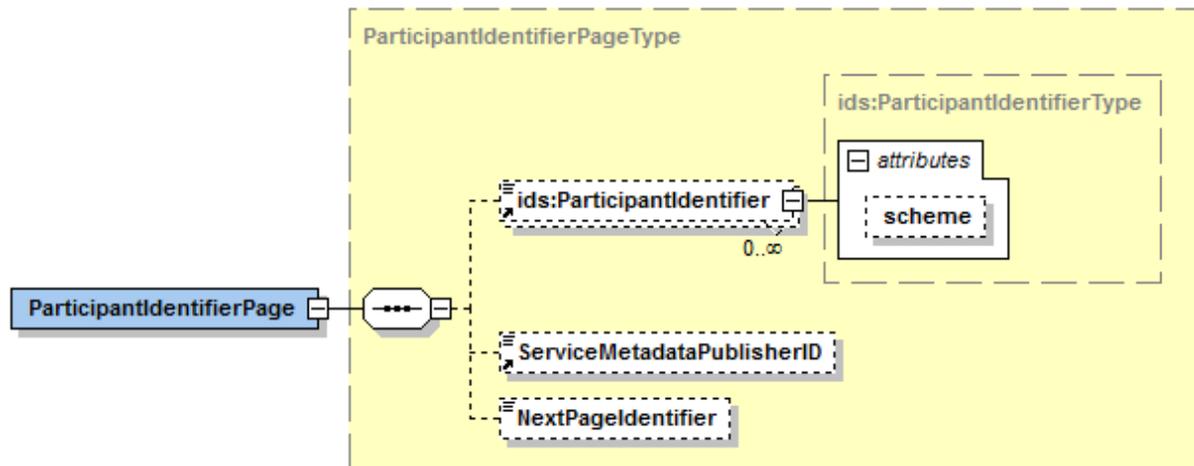


argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.
NextPageIdentifier	Identifier that controls the navigation between pages of a long list. As Input parameter this identifier represents the page of data to retrieve. If the NextPageIdentifier is absent, the first page is returned. As Output parameter, this	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PageRequestType']/*[local-name()='sequence']/*[local-name()='element' and @name='NextPageIdentifier']	Must be a positive number. Must be null or empty for create or update operations (since the full list of values has to be provided at once).

argument	Description	Format/XSD/Xpath	Constraint
	value can be used as() Input at the next call to the same operation to retrieve the next page of data (to navigate forward). This parameter is used only for 'read' operations returning list of values.		

Table 15 – List() input

4.2.2.1.21. List() Output



argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier (0..n)	<p>Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...</p>	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique. May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard ('*'), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme (0..n)	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>
ServiceMetadataPublisherID	Unique identifier of the SMP	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']</code></p>	<p>In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.</p>

argument	Description	Format/XSD/Xpath	Constraint
NextPageIdentifier	<p>Identifier that controls the navigation between pages of a long list.</p> <p>As Input parameter this identifier represents the page of data to retrieve. If the NextPageIdentifier is absent, the first page is returned.</p> <p>As Output parameter, this value can be used as() Input at the next call to the same operation to retrieve the next page of data (to navigate forward). This parameter is used only for 'read' operations returning list of values.</p>	<p>xs:string</p> <p>ServiceMetadataLocatorTypes-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='PageRequestType']/*[local-name()='sequence']/*[local-name()='element' and @name='NextPageIdentifier']</code></p>	<p>Must be a positive number.</p> <p>Must be null or empty for create or update operations (since the full list of values has to be provided at once).</p>

Table 16 – List() output

### 4.2.3. WSDL model for BDMSLService

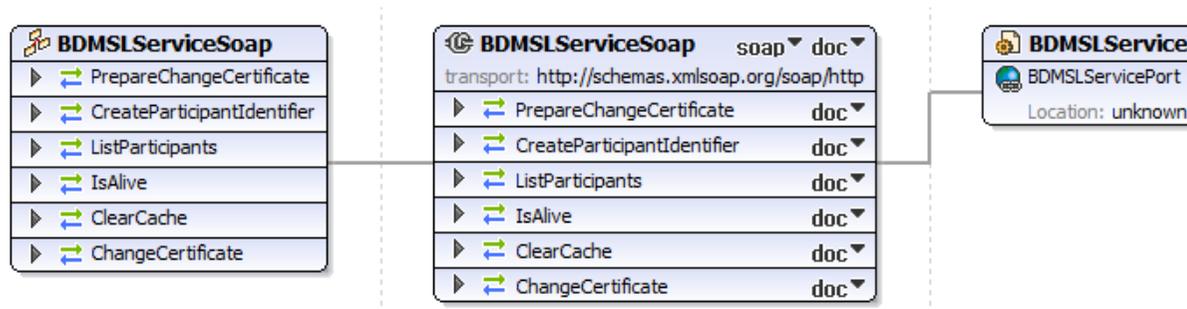
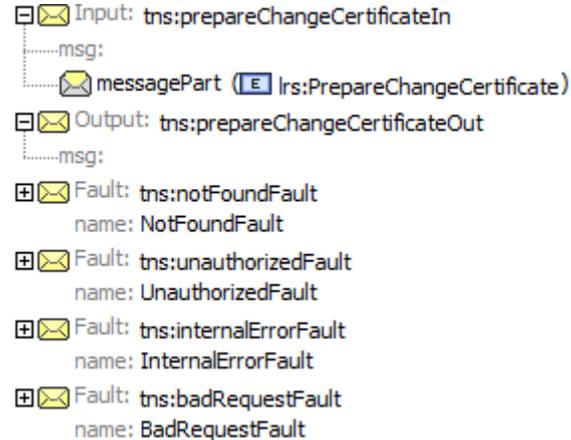


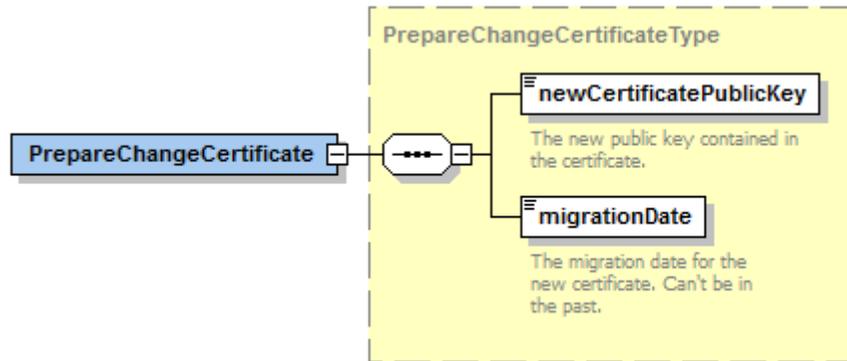
Figure 9 – WSDL BDMSLService

#### 4.2.3.1. Operations Signatures

##### 4.2.3.1.1. PrepareChangeCertificate() Signature



## 4.2.3.1.2. PrepareChangeCertificate() Input



argument	Description	Format/XSD/Xpath	Constraint
newCertificatePublicKey	The new public key contained in the certificate	base64Binary BDMSLService-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PrepareChangeCertificateType']/*[local-name()='sequence']/*[local-name()='element' and @name='newCertificatePublicKey']	Must be valid and belong to the list of authorized root certificate aliases.

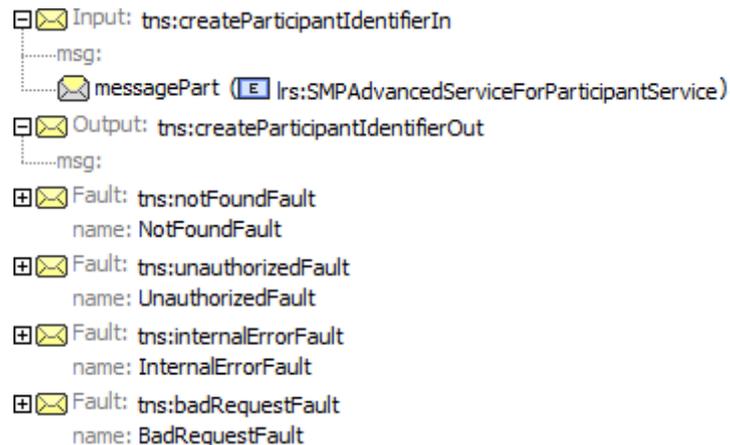
argument	Description	Format/XSD/Xpath	Constraint
migrationDate	The migration date for the new certificate	xs:date  BDMSLService-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PrepareChangeCertificateType']/*[local-name()='sequence']/*[local-name()='element' and @name='migrationDate']	May not be in the past. Must be in the validity period of the related new certificate (i.e. within NotBeforeCertificateDate and NotAfterCertificateDate attribute of the certificate). If migrationDate is empty, then the "Valid From" date is extracted from the certificate and is used as the migrationDate.

Table 17 – PrepareChangeCertificate() input

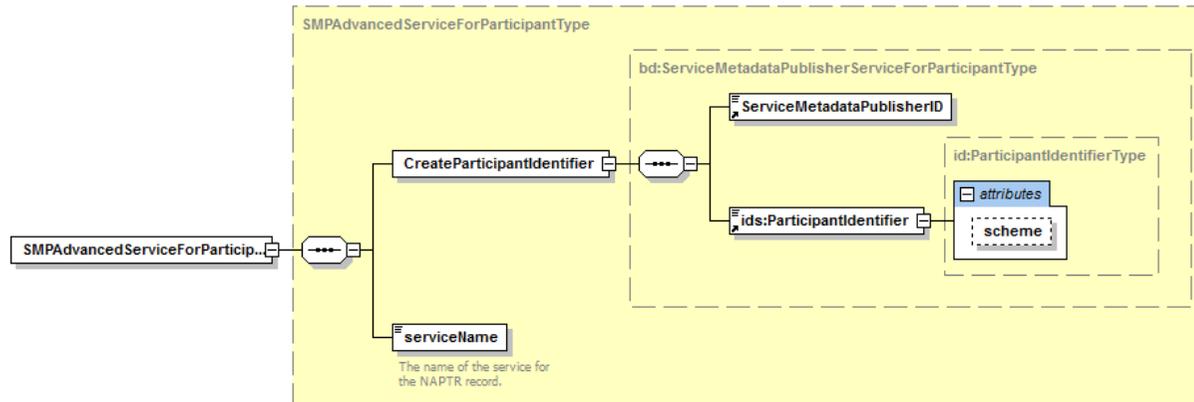
## 4.2.3.1.3. PrepareChangeCertificate() Output

None

## 4.2.3.1.4. CreateParticipantIdentifier() Signature



### 4.2.3.1.5. CreateParticipantIdentifier() Input



argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string ServiceMetadataLocatorTypes-1.0.xsd /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.

argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier	<p>Business unique identifier of the Participant. Represents a business level endpoint key that uniquely identifies an end-user entity in the network. Examples of identifiers are company registration and VAT numbers, DUNS numbers, GLN numbers, email addresses, etc...</p>	<p>The format must comply with ISO 15459 constraints as defined in [REF6].</p> <p>Example: 0088:4035811991014</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ParticipantIdentifierType']</code></p>	<p>Must be unique.</p> <p>May not exceed 50 characters and must be at least 1 character long.</p> <p>May only contain ASCII characters.</p> <p>Participant identifier must be trimmed.</p> <p>If the scheme refers to the (default) PEPPOL participant identifier scheme (iso6523-actorid-upis) and the participant identifier is not a wildcard (*), then the issuing agency specified in the ParticipantIdentifier (as its leading part before ':') must be included in the official list (cf. §0 - "List of valid issuing agencies for PEPPOL")</p> <p>Remark: the participant identifier is case insensitive.</p>

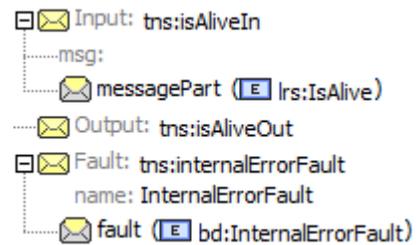
argument	Description	Format/XSD/Xpath	Constraint
ParticipantIdentifier.scheme	The scheme of the participant identifier	<p>Identifier schemes for all schemed identifier types (participants, documents, profiles, transports) may be defined outside of this specification. Any instance of a 4-cornered infrastructure may choose to define identifier schemes that match the type of documents, participants or profiles that are relevant to support in that instance.</p> <p>Examples: iso6523-actorid-upis, busdox-actorid-upis</p> <p>Identifiers-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='ProcessIdentifierType']/xs:simpleContent/xs:extension/xs:attribute</code></p>	<p>May not exceed 25 characters.</p> <p>Must match the two following pattern:  <code>[a-zA-Z0-9]+-[a-zA-Z0-9]+-[a-zA-Z0-9]</code></p> <p>Which defines the following parts:  <code>&lt;domain&gt;-&lt;identifier Area&gt;-&lt;identifier type&gt;</code></p>
serviceName	The name of the service for the NAPTR record.	<p>xs:string</p> <p>BDMSLService-1.0.xsd</p> <p><code>/*[local-name()='schema']/*[local-name()='complexType' and @name='SMPAdvancedServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @name='serviceName']</code></p>	No constraint is enforced by the BDMSL

Table 18 – CreateParticipantIdentifier() input

## 4.2.3.1.6. CreateParticipantIdentifier() Output

None

#### 4.2.3.1.7. IsAlive() Signature



#### 4.2.3.1.8. IsAlive() Input

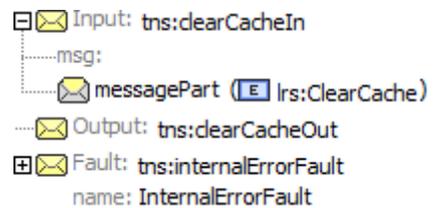
**IsAlive**

(empty)

#### 4.2.3.1.9. IsAlive() Output

None

#### 4.2.3.1.10. ClearCache() Signature



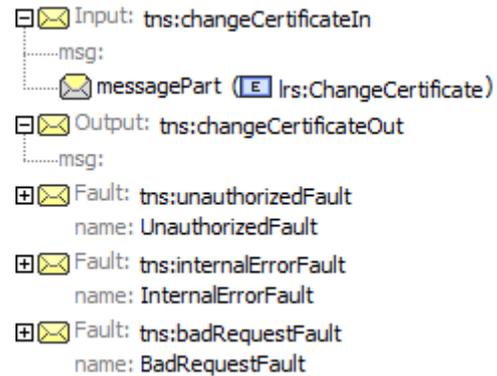
#### 4.2.3.1.11. ClearCache() Input

none

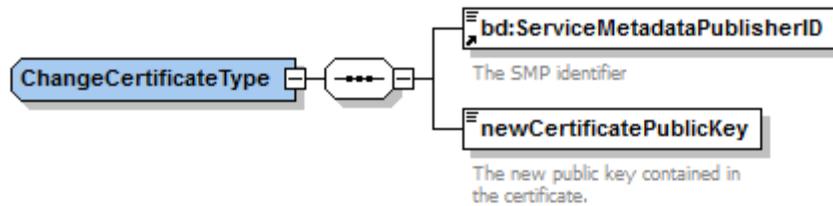
## 4.2.3.1.12. ClearCache() Output

none

## 4.2.3.1.13. ChangeCertificate() Signature



## 4.2.3.1.14. ChangeCertificate() Input



argument	Description	Format/XSD/Xpath	Constraint
ServiceMetadataPublisherID	Unique identifier of the SMP	xs:string  ServiceMetadataLocatorTypes-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='ServiceMetadataPublisherServiceForParticipantType']/*[local-name()='sequence']/*[local-name()='element' and @ref='ServiceMetadataPublisherID']	In ManageServiceMetadata service, this establishes the link with the managing SMP of the participant as defined by in the ManageBusinessIdentifier service.
newCertificatePublicKey	The new public key contained in the certificate	base64Binary  BDMSLService-1.0.xsd  /*[local-name()='schema']/*[local-name()='complexType' and @name='PrepareChangeCertificateType']/*[local-name()='sequence']/*[local-name()='element' and @name='newCertificatePublicKey']	Must be valid and belong to the list of authorized root certificate aliases.

Table 19 – ChangeCertificate() input

## 4.2.3.1.15. ChangeCertificate() Output

None

#### 4.2.4. Faults

##### 4.2.4.1. *Faults generic specifications*

All operations above may return all or some of the possible following faults:

- **notFoundFault**: the target element(s) (MetadataPublisher, Participant ...) on which the operation must be performed is not present into the configuration.
- **unauthorizedFault**: the user does not have the permission to execute that operation
- **badRequestFault**: the structure of the request is not well-formed
- **internalFault**: any other error occurred during the processing of the request

##### 4.2.4.2. *Error Codes*

Whenever a fault occurs, more details on the source of the error will provided in the SOAP fault with the applicable error code as listed in the table below:

Error code	Description
<b>100</b>	SMP not found error
<b>101</b>	Unauthorized error
<b>102</b>	Certificate authentication issue
<b>103</b>	The root alias is not found in the list of trusted issuers in the database
<b>104</b>	The certificate is revoked
<b>105</b>	Generic technical error
<b>106</b>	Bad request error
<b>107</b>	DNS communication problem
<b>108</b>	Problem with the SIGO Signature
<b>109</b>	Bad configuration
<b>110</b>	Participant not found error
<b>111</b>	Migration data not found
<b>112</b>	Duplicate participant error
<b>113</b>	Error when deleting a SMP
<b>114</b>	The deletion failed because a migration is planned for the given participant or SMP

**Table 20 – Error Codes**

#### 4.2.4.3. Faults specific usages

The table below shows the applicability of these errors for all operations specified in this document:

	ManageServiceMetadata				ManageBusinessIdentifier							BDMSLService		
	Create	Read	Update	Delete	Create	CreateList	Delete	DeleteList	PrepareToMigrate	Migrate	List	PrepareChangeCertificate	CreateParticipantIdentifier	IsAlive
notFoundFault:		X	X	X	X	X	X	X	X	X	X	X	X	
unauthorizedFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X
internalErrorFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X
badRequestFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 21 – Fault specific usage

The table below shows the applicability of these errors for all operations specified in this document:

	BDMSLAdminService																	
	SetProperty	GetProperty	DeleteProperty	CreateSuDomain	UpdateSubDomain	GetSubDomain	DeleteSubDomain	AddSubDomainCertificate	UpdateSubDomainCertificate	ListSubDomainCertificates	AddDNSRecord	DeleteDNSRecord	ClearCache	ChangeCertificate	AddTruststoreCertificate	GetTruststoreCertificate	DeleteTruststoreCertificate	ListTruststoreCertificateAliases
notFoundFault:	X	X	X	X	X	X	X	X	X		X	X		X		X	X	
unauthorizedFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
internalErrorFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
badRequestFault:	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 22 – Fault specific usage

#### 4.2.4.4. Sample SOAP errors

The following are SOAP faults samples as they are returned to the requester in case of error encountered by the BDMSL.

Sample "NotFoundFault":

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>[ERR-100] The SMP 'testSMPPPrepareToMigrate520' doesn't exist.
[14ojYP8Op4vWs78XmcVtLBVFsPat1mOE9h8HChQW0048XbOOZxu!-2114654990!1469472374542]</faultstring>
      <detail>
        <NotFoundFault xmlns:ns2="http://busdox.org/transport/identifiers/1.0"
xmlns="http://busdox.org/serviceMetadata/locator/1.0/">
          <FaultMessage>[ERR-100] The SMP 'testSMPPPrepareToMigrate520' doesn't exist.</FaultMessage>
        </NotFoundFault>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

Sample "BadRequestFault":

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>[ERR-106] Participant Identifier value "9999" is illegal . [NtsjYc25LzhHUNmQ4_Z6Bv8En5sB2e9WjFhMZrBTUcLHT5QlsR99!-
2114654990!1469472427449]</faultstring>
      <detail>
        <BadRequestFault xmlns:ns2="http://busdox.org/transport/identifiers/1.0"
xmlns="http://busdox.org/serviceMetadata/locator/1.0/">
          <FaultMessage>[ERR-106] Participant Identifier Value contains the illegal issuing agency '0185'</FaultMessage>
        </BadRequestFault>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

## 5. ANNEXES

### 5.1. Interface Message standards

The documents listed in this paragraph can all be downloaded from eDelivery repository at this location:

<https://ec.europa.eu/cefdigital/code/projects/EDELIVERY/repos/bdmsl/browse/bdmsl-api/src/main/resources>

#### 5.1.1. WSDL's

##### 5.1.1.1. ManageBusinessIdentifierService

```
<!--
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You may obtain a copy of the License at

https://joinup.ec.europa.eu/sites/default/files/custom-page/attachment/eupl_v1.2_en.pdf

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->

<wsdl:definitions xmlns:tns="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/"
xmlns:soap11="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:irs="http://busdox.org/serviceMetadata/locator/1.0/" xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" name="ManageBusinessIdentifierService"
targetNamespace="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/Schema/">
      <s:import namespace="http://busdox.org/serviceMetadata/locator/1.0/" schemaLocation="ServiceMetadataLocatorTypes-1.0.xsd" />
    </s:schema>
  </wsdl:types>
  <wsdl:message name="createIn">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs>CreateParticipantIdentifier"/>
  </wsdl:message>
  <wsdl:message name="createOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="deleteIn">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs>DeleteParticipantIdentifier"/>
  </wsdl:message>
  <wsdl:message name="deleteOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="listIn">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs>PageRequest"/>
  </wsdl:message>
  <wsdl:message name="listOut">
```

```

    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs:ParticipantIdentifierPage" />
  </wsdl:message>
  <wsdl:message name="prepareMigrateln">
    <wsdl:part name="prepareMigrateln" element="Irs:PrepareMigrationRecord" />
  </wsdl:message>
  <wsdl:message name="prepareMigrateOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="migrateln">
    <wsdl:part name="migrateln" element="Irs:CompleteMigrationRecord" />
  </wsdl:message>
  <wsdl:message name="migrateOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="createListIn">
    <wsdl:part name="createListIn" element="Irs:CreateList" />
  </wsdl:message>
  <wsdl:message name="createListOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="deleteListIn">
    <wsdl:part name="deleteListIn" element="Irs>DeleteList" />
  </wsdl:message>
  <wsdl:message name="deleteListOut">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="badRequestFault">
    <wsdl:part name="fault" element="Irs:BadRequestFault" />
  </wsdl:message>
  <wsdl:message name="internalErrorFault">
    <wsdl:part name="fault" element="Irs:InternalErrorFault" />
  </wsdl:message>
  <wsdl:message name="notFoundFault">
    <wsdl:part name="fault" element="Irs:NotFoundFault" />
  </wsdl:message>
  <wsdl:message name="unauthorizedFault">
    <wsdl:part name="fault" element="Irs:UnauthorizedFault" />
  </wsdl:message>
  <wsdl:portType name="ManageBusinessIdentifierServiceSoap">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:operation name="Create">
      <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
      <wsdl:input message="tns:createIn" />
      <wsdl:output message="tns:createOut" />
      <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
      <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
      <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
      <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
    </wsdl:operation>
    <wsdl:operation name="Delete">
      <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
      <wsdl:input message="tns:deleteIn" />
      <wsdl:output message="tns:deleteOut" />
      <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
      <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
      <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
      <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
    </wsdl:operation>
    <wsdl:operation name="List">
      <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
      <wsdl:input message="tns:listIn" />
      <wsdl:output message="tns:listOut" />
      <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
      <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
      <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
      <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
    </wsdl:operation>
    <wsdl:operation name="PrepareToMigrate">
      <wsdl:input message="tns:prepareMigrateln" />
      <wsdl:output message="tns:prepareMigrateOut" />
      <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
    </wsdl:operation>
  </wsdl:portType>

```

```

    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  </wsdl:operation>
  <wsdl:operation name="Migrate">
    <wsdl:input message="tns:migrateIn"/>
    <wsdl:output message="tns:migrateOut"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  </wsdl:operation>
  <wsdl:operation name="CreateList">
    <wsdl:input message="tns:createListIn"/>
    <wsdl:output message="tns:createListOut"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteList">
    <wsdl:input message="tns:deleteListIn"/>
    <wsdl:output message="tns:deleteListOut"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ManageBusinessIdentifierServiceSoap" type="tns:ManageBusinessIdentifierServiceSoap">
  <soap11:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="Create">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/ :createIn"
style="document"/>
    <wsdl:input>
      <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
      <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="CreateList">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/ :createListIn"
style="document"/>
    <wsdl:input>
      <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
      <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">

```

```

        <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Delete">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/    :deleteIn"
style="document"/>
    <wsdl:input>
        <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
        <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
        <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalServerError">
        <soap:fault name="InternalServerError" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
        <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteList">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/    :deleteListIn"
style="document"/>
    <wsdl:input>
        <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
        <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
        <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalServerError">
        <soap:fault name="InternalServerError" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
        <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="List">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/    :listIn"
style="document"/>
    <wsdl:input>
        <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
        <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
        <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalServerError">
        <soap:fault name="InternalServerError" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
        <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="PrepareToMigrate">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/
:prepareMigrateIn" style="document"/>

```

```

<wsdl:input>
  <soap11:body use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap11:body use="literal"/>
</wsdl:output>
<wsdl:fault name="NotFoundFault">
  <soap:fault name="NotFoundFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="UnauthorizedFault">
  <soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="InternalServerErrorFault">
  <soap:fault name="InternalServerErrorFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="BadRequestFault">
  <soap:fault name="BadRequestFault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Migrate">
  <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageBusinessIdentifierService/1.0/
style="document"/>
  <wsdl:input>
    <soap11:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap11:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="InternalServerErrorFault">
    <soap:fault name="InternalServerErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="ManageBusinessIdentifierService">
  <wsdl:port name="ManageBusinessIdentifierServicePort" binding="tns:ManageBusinessIdentifierServiceSoap">
    <soap:address location="unknown"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 5.1.1.2. ManageServiceMetadataService

```

<?xml version="1.0" encoding="utf-8"?>
<!--
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https://joinup.ec.europa.eu/sites/default/files/custom-page/attachment/eupl_v1.2_en.pdf

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->

```

```

<wsdl:definitions xmlns:tns="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0/"
xmlns:soap11="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:irs="http://busdox.org/serviceMetadata/locator/1.0/" xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" name="ManageServiceMetadataService"
targetNamespace="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0/"
xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0/Schema/">
      <s:import namespace="http://busdox.org/serviceMetadata/locator/1.0/" schemaLocation="ServiceMetadataLocatorTypes-
1.0.xsd" />
    </s:schema>
  </wsdl:types>
  <wsdl:message name="createIn">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs>CreateServiceMetadataPublisherService"/>
  </wsdl:message>
  <wsdl:message name="createOut">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="readIn">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs:ReadServiceMetadataPublisherService"/>
  </wsdl:message>
  <wsdl:message name="readOut">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs:ServiceMetadataPublisherService"/>
  </wsdl:message>
  <wsdl:message name="updateIn">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs:UpdateServiceMetadataPublisherService"/>
  </wsdl:message>
  <wsdl:message name="updateOut">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="deleteIn">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:part name="messagePart" element="Irs:ServiceMetadataPublisherID"/>
  </wsdl:message>
  <wsdl:message name="deleteOut">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
  </wsdl:message>
  <wsdl:message name="badRequestFault">
    <wsdl:part name="fault" element="Irs:BadRequestFault"/>
  </wsdl:message>
  <wsdl:message name="internalErrorFault">
    <wsdl:part name="fault" element="Irs:InternalErrorFault"/>
  </wsdl:message>
  <wsdl:message name="notFoundFault">
    <wsdl:part name="fault" element="Irs:NotFoundFault"/>
  </wsdl:message>
  <wsdl:message name="unauthorizedFault">
    <wsdl:part name="fault" element="Irs:UnauthorizedFault"/>
  </wsdl:message>
  <wsdl:portType name="ManageServiceMetadataServiceSoap">
    <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:operation name="Create">
      <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
      <wsdl:input message="tns:createIn"/>
      <wsdl:output message="tns:createOut"/>
      <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
      <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
      <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    </wsdl:operation>
    <wsdl:operation name="Read">
      <wsdl:documentation xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/" />
      <wsdl:input message="tns:readIn"/>
      <wsdl:output message="tns:readOut"/>
      <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
      <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
      <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    </wsdl:operation>
  </wsdl:portType>

```

```

    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:updateIn" />
    <wsdl:output message="tns:updateOut" />
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:deleteIn" />
    <wsdl:output message="tns:deleteOut" />
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ManageServiceMetadataServiceSoap" type="tns:ManageServiceMetadataServiceSoap">
  <soap11:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="Create">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0:/createIn"
style="document" />
    <wsdl:input>
      <soap11:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal" />
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal" />
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Read">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0:/readIn"
style="document" />
    <wsdl:input>
      <soap11:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
      <soap:fault name="NotFoundFault" use="literal" />
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal" />
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal" />
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Update">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0:/updateIn"
style="document" />
    <wsdl:input>
      <soap11:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
      <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="Delete">
    <soap11:operation soapAction="http://busdox.org/serviceMetadata/ManageServiceMetadataService/1.0:/deleteIn"
style="document"/>
    <wsdl:input>
      <soap11:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap11:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="NotFoundFault">
      <soap:fault name="NotFoundFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
</wsdl:binding>
<wsdl:service name="ManageServiceMetadataService">
  <wsdl:port name="ManageServiceMetadataServicePort" binding="tns:ManageServiceMetadataServiceSoap">
    <soap:address location="unknown"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 5.1.1.3. BDMSLService

```

<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<wsdl:definitions xmlns:tns="ec:services:wsdl:BDMSL:1.0" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:irs="ec:services:wsdl:BDMSL:data:1.0"
  xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" name="BDMSLService"
  targetNamespace="ec:services:wsdl:BDMSL:1.0"
  xmlns:bd="http://busdox.org/serviceMetadata/locator/1.0/">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  </wsdl:documentation>
  <wsdl:types>
  <s:schema>
    <s:import namespace="ec:services:wsdl:BDMSL:data:1.0" schemaLocation="BDMSLService-1.0.xsd"/>
    <s:import namespace="http://busdox.org/serviceMetadata/locator/1.0/" schemaLocation="ServiceMetadataLocatorTypes-1.0.xsd"/>
  </s:schema>

```

```

</wsdl:types>
<wsdl:message name="prepareChangeCertificateIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:PrepareChangeCertificate" />
</wsdl:message>
<wsdl:message name="prepareChangeCertificateOut">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
</wsdl:message>
<wsdl:message name="createParticipantIdentifierIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:SMPAdvancedServiceForParticipantService" />
</wsdl:message>
<wsdl:message name="createParticipantIdentifierOut">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
</wsdl:message>
<wsdl:message name="isAliveIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:IsAlive" />
</wsdl:message>
<wsdl:message name="isAliveOut" />
<wsdl:message name="badRequestFault">
  <wsdl:part name="fault" element="bd:BadRequestFault" />
</wsdl:message>
<wsdl:message name="internalErrorFault">
  <wsdl:part name="fault" element="bd:InternalErrorFault" />
</wsdl:message>
<wsdl:message name="notFoundFault">
  <wsdl:part name="fault" element="bd:NotFoundFault" />
</wsdl:message>
<wsdl:message name="unauthorizedFault">
  <wsdl:part name="fault" element="bd:UnauthorizedFault" />
</wsdl:message>
<wsdl:portType name="BDMSLServiceSoap">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:operation name="PrepareChangeCertificate">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:prepareChangeCertificateIn" />
    <wsdl:output message="tns:prepareChangeCertificateOut" />
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
  <wsdl:operation name="CreateParticipantIdentifier">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:createParticipantIdentifierIn" />
    <wsdl:output message="tns:createParticipantIdentifierOut" />
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
  <wsdl:operation name="IsAlive">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:isAliveIn" />
    <wsdl:output message="tns:isAliveOut" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="BDMSLServiceSoap" type="tns:BDMSLServiceSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="PrepareChangeCertificate">
    <soap:operation soapAction="ec:services:wsdl:BDMSL:1.0:prepareChangeCertificateIn" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

</wsdl:output>
<wsdl:fault name="NotFoundFault">
  <soap:fault name="NotFoundFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="UnauthorizedFault">
  <soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="InternalServerError">
  <soap:fault name="InternalServerError" use="literal"/>
</wsdl:fault>
<wsdl:fault name="BadRequestFault">
  <soap:fault name="BadRequestFault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CreateParticipantIdentifier">
  <soap:operation soapAction="ec:services:wsl:BDMSL:1.0:createParticipantIdentifierIn" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="InternalServerError">
    <soap:fault name="InternalServerError" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="IsAlive">
  <soap:operation soapAction="ec:services:wsl:BDMSL:1.0:isAliveIn" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="BDMSLService">
  <wsdl:port name="BDMSLServicePort" binding="tns:BDMSLServiceSoap">
    <soap:address location="unknown"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

#### 5.1.1.4. BDMSLAdminService

```

<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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limitations under the License.
-->
<wsdl:definitions xmlns:tns="ec:services:wsl:BDMSL:admin:1.0" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"

```

```

    xmlns:lrs="ec:services:wsl:BDMSL:admin:data:1.0"
    xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
    xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" name="BDMSLAdminService"
    targetNamespace="ec:services:wsl:BDMSL:admin:1.0"
    xmlns:bd="http://busdox.org/serviceMetadata/locator/1.0/"
<wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
<wsdl:types>
  <s:schema>
    <s:import namespace="ec:services:wsl:BDMSL:admin:data:1.0" schemaLocation="BDMSLAdminService-1.0.xsd" />
    <s:import namespace="http://busdox.org/serviceMetadata/locator/1.0/"
      schemaLocation="ServiceMetadataLocatorTypes-1.0.xsd" />
  </s:schema>
</wsdl:types>
<wsdl:message name="generateInconsistencyReportIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:GenerateInconsistencyReport" />
</wsdl:message>
<wsdl:message name="generateInconsistencyReportOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:GenerateInconsistencyResponse" />
</wsdl:message>
<!-- SubDomain messages -->
<wsdl:message name="createSubDomainIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:CreateSubDomainRequest" />
</wsdl:message>
<wsdl:message name="createSubDomainOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:CreateSubDomainResponse" />
</wsdl:message>
<wsdl:message name="updateSubDomainIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:UpdateSubDomainRequest" />
</wsdl:message>
<wsdl:message name="updateSubDomainOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:UpdateSubDomainResponse" />
</wsdl:message>
<wsdl:message name="deleteSubDomainIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="DeleteSubDomain" element="lrs:DeleteSubDomainRequest" />
</wsdl:message>
<wsdl:message name="deleteSubDomainOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="DeletedSubDomain" element="lrs:DeleteSubDomainResponse" />
</wsdl:message>
<wsdl:message name="getSubDomainIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:GetSubDomainRequest" />
</wsdl:message>
<wsdl:message name="getSubDomainOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:GetSubDomainResponse" />
</wsdl:message>
<!-- subdomain certificate -->
<wsdl:message name="addSubDomainCertificateIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:AddSubDomainCertificateRequest" />
</wsdl:message>
<wsdl:message name="addSubDomainCertificateOut">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:AddSubDomainCertificateResponse" />
</wsdl:message>
<wsdl:message name="updateSubDomainCertificateIn">
  <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="lrs:UpdateSubDomainCertificateRequest" />
</wsdl:message>
<wsdl:message name="updateSubDomainCertificateOut">

```

```

<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:UpdateSubDomainCertificateResponse"/>
</wsdl:message>
<wsdl:message name="listSubDomainCertificateIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:ListSubDomainCertificateRequest"/>
</wsdl:message>
<wsdl:message name="listSubDomainCertificateOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:ListSubDomainCertificateResponse"/>
</wsdl:message>
<!-- Manage truststore certificates -->
<wsdl:message name="addTruststoreCertificateIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:AddTruststoreCertificateRequest"/>
</wsdl:message>
<wsdl:message name="addTruststoreCertificateOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:AddTruststoreCertificateResponse"/>
</wsdl:message>
<wsdl:message name="getTruststoreCertificateIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:GetTruststoreCertificateRequest"/>
</wsdl:message>
<wsdl:message name="getTruststoreCertificateOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:GetTruststoreCertificateResponse"/>
</wsdl:message>
<wsdl:message name="deleteTruststoreCertificateIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs>DeleteTruststoreCertificateRequest"/>
</wsdl:message>
<wsdl:message name="deleteTruststoreCertificateOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs>DeleteTruststoreCertificateResponse"/>
</wsdl:message>
<wsdl:message name="listTruststoreCertificateAliasesIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:ListTruststoreCertificateAliasesRequest"/>
</wsdl:message>
<wsdl:message name="listTruststoreCertificateAliasesOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:ListTruststoreCertificateAliasesResponse"/>
</wsdl:message>
<!-- DNS records -->
<wsdl:message name="addDNSRecordIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:AddDNSRecordRequest"/>
</wsdl:message>
<wsdl:message name="addDNSRecordOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:AddDNSRecordResponse"/>
</wsdl:message>
<wsdl:message name="deleteDNSRecordIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs>DeleteDNSRecordRequest"/>
</wsdl:message>
<wsdl:message name="deleteDNSRecordOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs>DeleteDNSRecordResponse"/>
</wsdl:message>
<wsdl:message name="setPropertyIn">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:SetPropertyRequest"/>
</wsdl:message>
<wsdl:message name="setPropertyOut">
<wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="messagePart" element="Irs:SetPropertyResponse"/>

```

```

</wsdl:message>
<wsdl:message name="getPropertyIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:GetPropertyRequest" />
</wsdl:message>
<wsdl:message name="getPropertyOut">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:GetPropertyResponse" />
</wsdl:message>
<wsdl:message name="deletePropertyIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:DeletePropertyRequest" />
</wsdl:message>
<wsdl:message name="deletePropertyOut">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:DeletePropertyResponse" />
</wsdl:message>
<!-- fault messages-->
<wsdl:message name="badRequestFault">
  <wsdl:part name="fault" element="bd:BadRequestFault" />
</wsdl:message>
<wsdl:message name="internalErrorFault">
  <wsdl:part name="fault" element="bd:InternalErrorFault" />
</wsdl:message>
<wsdl:message name="notFoundFault">
  <wsdl:part name="fault" element="bd:NotFoundFault" />
</wsdl:message>
<wsdl:message name="unauthorizedFault">
  <wsdl:part name="fault" element="bd:UnauthorizedFault" />
</wsdl:message>
<wsdl:message name="changeCertificateIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:ChangeCertificate" />
</wsdl:message>
<wsdl:message name="changeCertificateOut">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
</wsdl:message>
<wsdl:message name="clearCacheIn">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:part name="messagePart" element="Irs:ClearCache" />
</wsdl:message>
<wsdl:message name="clearCacheOut" />
<wsdl:portType name="BDMSLAdminServiceSoap">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
  <wsdl:operation name="ChangeCertificate">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:changeCertificateIn" />
    <wsdl:output message="tns:changeCertificateOut" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
  <wsdl:operation name="GenerateInconsistencyReport">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:generateInconsistencyReportIn" />
    <wsdl:output message="tns:generateInconsistencyReportOut" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
  </wsdl:operation>
  <wsdl:operation name="CreateSubDomain">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" />
    <wsdl:input message="tns:createSubDomainIn" name="SubDomain" />
    <wsdl:output message="tns:createSubDomainOut" />
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault" />
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault" />
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault" />
  </wsdl:operation>

```

```
<wsdl:operation name="UpdateSubDomain">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:updateSubDomainIn"/>
  <wsdl:output message="tns:updateSubDomainOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="DeleteSubDomain">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:deleteSubDomainIn" name="DeleteSubDomain"/>
  <wsdl:output message="tns:deleteSubDomainOut" name="SubDomain"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="GetSubDomain">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:getSubDomainIn" name="GetSubDomain"/>
  <wsdl:output message="tns:getSubDomainOut" name="SubDomain"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="AddSubDomainCertificate">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:addSubDomainCertificateIn"/>
  <wsdl:output message="tns:addSubDomainCertificateOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="UpdateSubDomainCertificate">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:updateSubDomainCertificateIn"/>
  <wsdl:output message="tns:updateSubDomainCertificateOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="ListSubDomainCertificate">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:listSubDomainCertificateIn"/>
  <wsdl:output message="tns:listSubDomainCertificateOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
</wsdl:operation>
<wsdl:operation name="AddTruststoreCertificate">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:addTruststoreCertificateIn"/>
  <wsdl:output message="tns:addTruststoreCertificateOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
  <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
</wsdl:operation>
<wsdl:operation name="GetTruststoreCertificate">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:getTruststoreCertificateIn"/>
  <wsdl:output message="tns:getTruststoreCertificateOut"/>
  <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
  <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
```

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    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteTruststoreCertificate">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:deleteTruststoreCertificateIn"/>
    <wsdl:output message="tns:deleteTruststoreCertificateOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="ListTruststoreCertificateAliases">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:listTruststoreCertificateAliasesIn"/>
    <wsdl:output message="tns:listTruststoreCertificateAliasesOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  </wsdl:operation>
  <wsdl:operation name="AddDNSRecord">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:addDNSRecordIn"/>
    <wsdl:output message="tns:addDNSRecordOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteDNSRecord">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:deleteDNSRecordIn"/>
    <wsdl:output message="tns:deleteDNSRecordOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="SetProperty">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:setPropertyIn"/>
    <wsdl:output message="tns:setPropertyOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="GetProperty">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:getPropertyIn"/>
    <wsdl:output message="tns:getPropertyOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteProperty">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:deletePropertyIn"/>
    <wsdl:output message="tns:deletePropertyOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
    <wsdl:fault message="tns:notFoundFault" name="NotFoundFault"/>
  </wsdl:operation>
  <wsdl:operation name="ClearCache">
    <wsdl:documentation xmlns:wsl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:clearCacheIn"/>

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    <wsdl:output message="tns:clearCacheOut"/>
    <wsdl:fault message="tns:internalErrorFault" name="InternalErrorFault"/>
    <wsdl:fault message="tns:badRequestFault" name="BadRequestFault"/>
    <wsdl:fault message="tns:unauthorizedFault" name="UnauthorizedFault"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="BDMSLAdminServiceSoap" type="tns:BDMSLAdminServiceSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="ChangeCertificate">
    <soap:operation soapAction="ec:services:wsl:BDMSL:1.0:changeCertificateIn" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GenerateInconsistencyReport">
    <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:generateInconsistencyReport" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="CreateSubDomain">
    <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:createSubDomain" style="document"/>
    <wsdl:input name="SubDomain">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="InternalErrorFault">
      <soap:fault name="InternalErrorFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="BadRequestFault">
      <soap:fault name="BadRequestFault" use="literal"/>
    </wsdl:fault>
    <wsdl:fault name="UnauthorizedFault">
      <soap:fault name="UnauthorizedFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="UpdateSubDomain">
    <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:updateSubDomain" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>

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```

    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteSubDomain">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:deleteSubDomain" style="document"/>
  <wsdl:input name="DeleteSubDomain">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="SubDomain">
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSubDomain">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:getSubDomain" style="document"/>
  <wsdl:input name="GetSubDomain">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="SubDomain">
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddSubDomainCertificate">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:addSubDomainCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>

```

```
<wsdl:fault name="BadRequestFault">
  <soap:fault name="BadRequestFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="UnauthorizedFault">
  <soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="UpdateSubDomainCertificate">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:updateSubDomainCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ListSubDomainCertificate">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:listSubDomainCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddTruststoreCertificate">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:addTruststoreCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTruststoreCertificate">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:getTruststoreCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
```

```
</wsdl:output>
<wsdl:fault name="InternalErrorFault">
  <soap:fault name="InternalErrorFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="BadRequestFault">
  <soap:fault name="BadRequestFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="UnauthorizedFault">
  <soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="NotFoundFault">
  <soap:fault name="NotFoundFault" use="literal"/>
</wsdl:fault>
<wsdl:operation>
<wsdl:operation name="DeleteTruststoreCertificate">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:deleteTruststoreCertificate" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="NotFoundFault">
    <soap:fault name="NotFoundFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ListTruststoreCertificateAliases">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:listTruststoreCertificateAliases" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddDNSRecord">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:addDNSRecord" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
```

```
<soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteDNSRecord">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:deleteDNSRecord" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetProperty">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:setProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetProperty">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:getProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteProperty">
  <soap:operation soapAction="ec:services:wsl:BDMSL:admin:1.0:deleteProperty" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
```

```

<wsdl:fault name="BadRequestFault">
  <soap:fault name="BadRequestFault" use="literal"/>
</wsdl:fault>
<wsdl:fault name="UnauthorizedFault">
  <soap:fault name="UnauthorizedFault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearCache">
  <soap:operation soapAction="ec:services:wsdl:BDMSL:admin:1.0:clearCacheIn" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="InternalErrorFault">
    <soap:fault name="InternalErrorFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="BadRequestFault">
    <soap:fault name="BadRequestFault" use="literal"/>
  </wsdl:fault>
  <wsdl:fault name="UnauthorizedFault">
    <soap:fault name="UnauthorizedFault" use="literal"/>
  </wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="BDMSLAdminService">
  <wsdl:port name="BDMSLAdminServicePort" binding="tns:BDMSLAdminServiceSoap">
    <soap:address location="unknown"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 5.1.2. XSD's

#### 5.1.2.1. Identifiers-1.0.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<xs:schema xmlns="http://busdox.org/transport/identifiers/1.0/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://busdox.org/transport/identifiers/1.0/" elementFormDefault="qualified" id="Identifiers">
  <xs:annotation>
    <xs:documentation>
      Common identifiers for WSDLs and Schemas
    </xs:documentation>
  </xs:annotation>
  <xs:element name="ParticipantIdentifier" type="ParticipantIdentifierType"/>
  <xs:element name="DocumentIdentifier" type="DocumentIdentifierType"/>
  <xs:element name="ProcessIdentifier" type="ProcessIdentifierType"/>
  <xs:element name="RecipientIdentifier" type="ParticipantIdentifierType"/>
  <xs:element name="SenderIdentifier" type="ParticipantIdentifierType"/>
  <xs:element name="MessageIdentifier" type="MessageIdentifierType"/>
  <xs:element name="ChannelIdentifier" type="ChannelIdentifierType"/>

```

```
<xs:complexType name="ParticipantIdentifierType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="scheme" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="DocumentIdentifierType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="scheme" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="ProcessIdentifierType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="scheme" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="MessageIdentifierType">
  <xs:restriction base="xs:string"/>
</xs:simpleType>
<xs:simpleType name="ChannelIdentifierType">
  <xs:restriction base="xs:string"/>
</xs:simpleType>
</xs:schema>
```

### 5.1.2.2. ServiceGroupReferenceList.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->

<xs:schema xmlns="http://busdox.org/serviceMetadata/publishing/1.0/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://busdox.org/serviceMetadata/publishing/1.0/" elementFormDefault="qualified"
id="ServiceGroupReferenceList">
  <xs:include schemaLocation="ServiceMetadataPublishingTypes-1.0.xsd"/>
  <xs:element name="ServiceGroupReferenceList" type="ServiceGroupReferenceListType"/>
  <xs:complexType name="ServiceGroupReferenceListType">
    <xs:sequence>
      <xs:element name="ServiceGroupReference" type="ServiceGroupReferenceType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ServiceGroupReferenceType">
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="href" type="xs:anyURI"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:element name="CompleteServiceGroup" type="CompleteServiceGroupType"/>
  <xs:complexType name="CompleteServiceGroupType">
    <xs:sequence>
      <xs:element ref="ServiceGroup"/>
      <xs:element ref="ServiceMetadata" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>

```

### 5.1.2.3. ServiceMetadataLocatorTypes-1.0.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->

<xs:schema xmlns="http://busdox.org/serviceMetadata/locator/1.0/" xmlns:ids="http://busdox.org/transport/identifiers/1.0/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="http://busdox.org/serviceMetadata/locator/1.0/"
elementFormDefault="qualified" id="ServiceMetadataPublisherService">
  <xs:import namespace="http://busdox.org/transport/identifiers/1.0/" schemaLocation="Identifiers-1.0.xsd"/>

```

```

<xs:element name="ServiceMetadataPublisherID" type="xs:string"/>
<xs:element name="CreateServiceMetadataPublisherService" type="ServiceMetadataPublisherServiceType"/>
<xs:element name="ReadServiceMetadataPublisherService" type="ServiceMetadataPublisherServiceType"/>
<xs:element name="UpdateServiceMetadataPublisherService" type="ServiceMetadataPublisherServiceType"/>
<xs:element name="ServiceMetadataPublisherService" type="ServiceMetadataPublisherServiceType"/>
<xs:complexType name="ServiceMetadataPublisherServiceType">
  <xs:sequence>
    <xs:element name="PublisherEndpoint" type="PublisherEndpointType"/>
    <xs:element ref="ServiceMetadataPublisherID"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="PublisherEndpointType">
  <xs:sequence>
    <xs:element name="LogicalAddress" type="xs:anyURI"/>
    <xs:element name="PhysicalAddress" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ServiceMetadataPublisherServiceForParticipantType">
  <xs:sequence>
    <xs:element ref="ServiceMetadataPublisherID"/>
    <xs:element ref="ids:ParticipantIdentifier"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="CreateParticipantIdentifier" type="ServiceMetadataPublisherServiceForParticipantType"/>
<xs:element name="DeleteParticipantIdentifier" type="ServiceMetadataPublisherServiceForParticipantType"/>
<xs:element name="ParticipantIdentifierPage" type="ParticipantIdentifierPageType"/>
<xs:element name="CreateList" type="ParticipantIdentifierPageType"/>
<xs:element name="DeleteList" type="ParticipantIdentifierPageType"/>
<xs:complexType name="ParticipantIdentifierPageType">
  <xs:sequence>
    <xs:element ref="ids:ParticipantIdentifier" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element ref="ServiceMetadataPublisherID" minOccurs="0"/>
    <xs:element name="NextPageIdentifier" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="PageRequest" type="PageRequestType"/>
<xs:complexType name="PageRequestType">
  <xs:sequence>
    <xs:element ref="ServiceMetadataPublisherID"/>
    <xs:element name="NextPageIdentifier" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="PrepareMigrationRecord" type="MigrationRecordType"/>
<xs:element name="CompleteMigrationRecord" type="MigrationRecordType"/>
<xs:complexType name="MigrationRecordType">
  <xs:sequence>
    <xs:element ref="ServiceMetadataPublisherID"/>
    <xs:element ref="ids:ParticipantIdentifier"/>
    <xs:element name="MigrationKey" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="BadRequestFault" type="FaultType"/>
<xs:element name="InternalServerError" type="FaultType"/>
<xs:element name="NotFoundFault" type="FaultType"/>
<xs:element name="UnauthorizedFault" type="FaultType"/>
<xs:complexType name="FaultType">
  <xs:sequence>
    <xs:element name="FaultMessage" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

### 5.1.2.4. ServiceMetadataPublishingTypes-1.0.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<xs:schema xmlns="http://busdox.org/serviceMetadata/publishing/1.0/" xmlns:ids="http://busdox.org/transport/identifiers/1.0/"
xmlns:ds="http://www.w3.org/2000/09/xmldsig#" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsa="http://www.w3.org/2005/08/addressing" targetNamespace="http://busdox.org/serviceMetadata/publishing/1.0/"
elementFormDefault="qualified" id="ServiceMetadataPublishing">
  <xs:import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="xmldsig-core-schema.xsd"/>
  <xs:import namespace="http://busdox.org/transport/identifiers/1.0/" schemaLocation="Identifiers-1.0.xsd"/>
  <xs:import namespace="http://www.w3.org/2005/08/addressing" schemaLocation="ws-addr.xsd"/>
  <xs:element name="ServiceGroup" type="ServiceGroupType"/>
  <xs:element name="ServiceMetadata" type="ServiceMetadataType"/>
  <xs:element name="SignedServiceMetadata" type="SignedServiceMetadataType"/>
  <xs:complexType name="SignedServiceMetadataType">
    <xs:annotation>
      <xs:documentation>The SignedServiceMetadata structure is a ServiceMetadata structure
that has been signed by the ServiceMetadataPublisher, according to governance policies.</xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element ref="ServiceMetadata">
        <xs:annotation>
          <xs:documentation>The ServiceMetadata element covered by the Signature.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element ref="ds:Signature">
        <xs:annotation>
          <xs:documentation>Represents an enveloped XML() Signature over the SignedServiceMetadata
element.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ServiceMetadataType">
    <xs:annotation>
      <xs:documentation>
This data structure represents Metadata about a specific electronic service.
The role of the ServiceMetadata structure is to associate a participant identifier
with the ability to receive a specific document type over a specific transport. It
also describes which business processes a document can participate in, and various
operational data such as service activation and expiration times.
The ServiceMetadata resource contains all the metadata about a service that a sender
Access Point needs to know in order to send a message to that service.
</xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:choice>
        <xs:element name="ServiceInformation" type="ServiceInformationType">
          <xs:annotation>
            <xs:documentation>Contains service information for an actual service registration, rather than a redirect to
another SMP</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="Redirect" type="RedirectType">
          <xs:annotation>
            <xs:documentation>
For recipients that want to associate more than one SMP with their participant identifier,

```

they may redirect senders to an alternative SMP for specific document types. To achieve this, the ServiceMetadata element defines the optional element 'Redirect'. This element holds the URL of the alternative SMP, as well as the Subject Unique Identifier of the destination SMPs certificate used to sign its resources.

In the case where a client encounters such a redirection element, the client MUST follow the first redirect reference to the alternative SMP. If the SignedServiceMetadata resource at the alternative SMP also contains a redirection element, the client SHOULD NOT follow that redirect. It is the responsibility of the client to enforce this constraint.

```

</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:choice>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ServiceInformationType">
  <xs:sequence>
    <xs:element ref="ids:ParticipantIdentifier">
      <xs:annotation>
        <xs:documentation>The participant identifier. Comprises the identifier, and an identifier scheme. This identifier
MUST have the same value of the {id} part of the URI of the enclosing ServiceMetadata resource.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element ref="ids:DocumentIdentifier">
      <xs:annotation>
        <xs:documentation>Represents the type of document that the recipient is able to handle.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ProcessList" type="ProcessListType">
      <xs:annotation>
        <xs:documentation>Represents the processes that a specific document type can participate in, and endpoint address
and binding information. Each process element describes a specific business process that accepts this type of document as() Input and
holds a list of endpoint addresses (in the case that the service supports multiple transports) of services that implement the business
process, plus information about the transport used for each endpoint.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Extension" type="ExtensionType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The extension element may contain any XML element. Clients MAY ignore this
element.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ProcessListType">
  <xs:annotation>
    <xs:documentation>List of processes</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="Process" type="ProcessType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ProcessType">
  <xs:sequence>
    <xs:element ref="ids:ProcessIdentifier">
      <xs:annotation>
        <xs:documentation>The identifier of the process.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ServiceEndpointList" type="ServiceEndpointList">
      <xs:annotation>
        <xs:documentation>List of one or more endpoints that support this process.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Extension" type="ExtensionType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The extension element may contain any XML element. Clients MAY ignore this
element.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:complexType name="ServiceEndpointList">

```

```

<xs:annotation>
  <xs:documentation>Contains a list of all endpoint</xs:documentation>
</xs:annotation>
<xs:sequence>
  <xs:element name="Endpoint" type="EndpointType" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Endpoint represents the technical endpoint and address type of the recipient, as an
URL.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="EndpointType">
  <xs:sequence>
    <xs:element ref="wsa:EndpointReference">
      <xs:annotation>
        <xs:documentation>The address of an endpoint, as an WS-Addressing Endpoint Reference</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="RequireBusinessLevelSignature" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>Set to &quot;true&quot; if the recipient requires business-level() Signatures for the message,
meaning a() Signature applied to the business message before the message is put on the transport. This is independent of the transport-
level() Signatures that a specific transport profile, such as the START profile, might mandate. This flag does not indicate which type of
business-level() Signature might be required. Setting or consuming business-level() Signatures would typically be the responsibility of the
final senders and receivers of messages, rather than a set of APs.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="MinimumAuthenticationLevel" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Indicates the minimum authentication level that recipient requires. The specific semantics of this
field is defined in a specific instance of the BUSDOX infrastructure. It could for example reflect the value of the
&quot;urn:eu:busdox:attribute:assurance-level&quot;; SAML attribute defined in the START specification.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ServiceActivationDate" type="xs:dateTime" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Activation date of the service. Senders should ignore services that are not yet
activated.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ServiceExpirationDate" type="xs:dateTime" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Expiration date of the service. Senders should ignore services that are
expired.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Certificate" type="xs:string">
      <xs:annotation>
        <xs:documentation>Holds the complete signing certificate of the recipient AP, as a PEM base 64 encoded X509 DER
formatted value.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ServiceDescription" type="xs:string">
      <xs:annotation>
        <xs:documentation>A human readable description of the service</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TechnicalContactUrl" type="xs:anyURI">
      <xs:annotation>
        <xs:documentation>Represents a link to human readable contact information. This might also be an email
address.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TechnicalInformationUri" type="xs:anyURI" minOccurs="0">
      <xs:annotation>
        <xs:documentation>A URL to human readable documentation of the service format. This could for example be a web
site containing links to XML Schemas, WSDLs, Schematrons and other relevant resources.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Extension" type="ExtensionType" minOccurs="0">
      <xs:annotation>

```

```

        <xs:documentation>The extension element may contain any XML element. Clients MAY ignore this
element.</xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:sequence>
<xs:attribute name="transportProfile" type="xs:string">
    <xs:annotation>
        <xs:documentation>Indicates the type of BUSDOX transport that is being used between access points, e.g. the BUSDOX
START profile. This specification defines the following identifier URI which denotes the BUSDOX START transport: &quot;busdox-transport-
start&quot;</xs:documentation>
    </xs:annotation>
</xs:attribute>
</xs:complexType>
<xs:complexType name="ServiceGroupType">
    <xs:annotation>
        <xs:documentation>The ServiceGroup structure represents a set of services
associated with a specific participant identifier that is handled by a
specific Service Metadata Publisher. The ServiceGroup structure holds a
list of references to SignedServiceMetadata resources in the ServiceList
structure.</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element ref="ids:ParticipantIdentifier">
            <xs:annotation>
                <xs:documentation>Represents the business level endpoint key and key type, e.g. a DUNS or GLN number that is
associated with a group of services. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="ServiceMetadataReferenceCollection" type="ServiceMetadataReferenceCollectionType">
            <xs:annotation>
                <xs:documentation>The ServiceMetadataReferenceCollection structure holds a list of references to
SignedServiceMetadata structures. From this list, a sender can follow the references to get each SignedServiceMetadata
structure.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="Extension" type="ExtensionType" minOccurs="0">
            <xs:annotation>
                <xs:documentation>The extension element may contain any XML element. Clients MAY ignore this
element.</xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ServiceMetadataReferenceCollectionType">
    <xs:annotation>
        <xs:documentation>Contains the URL to a specific SignedServiceMetadata instance. Note
that references MUST refer to SignedServiceMetadata records that are signed by the
certificate of the SMP. It must not point to SignedServiceMetadata resources published
by external SMPs.</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="ServiceMetadataReference" type="ServiceMetadataReferenceType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ServiceMetadataReferenceType">
    <xs:attribute name="href" type="xs:anyURI">
        <xs:annotation>
            <xs:documentation>Contains the URL to a specific SignedServiceMetadata instance.</xs:documentation>
        </xs:annotation>
    </xs:attribute>
</xs:complexType>
<xs:complexType name="RedirectType">
    <xs:sequence>
        <xs:element name="CertificateUID" type="xs:string">
            <xs:annotation>
                <xs:documentation>Holds the Subject Unique Identifier of the certificate of the destination SMP. A client SHOULD
validate that the Subject Unique Identifier of the certificate used to sign the resource at the destination SMP matches the Subject Unique
Identifier published in the redirecting SMP.</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="Extension" type="ExtensionType" minOccurs="0">

```

```

    <xs:annotation>
      <xs:documentation>The extension element may contain any XML element. Clients MAY ignore this
element.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
<xs:attribute name="href" type="xs:anyURI">
  <xs:annotation>
    <xs:documentation>The destination URL of the redirect.</xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
<xs:complexType name="ExtensionType">
  <xs:annotation>
    <xs:documentation>
Child elements of the &lt;smp:Extension&gt; element are known as &quot;custom
extension elements&quot;. Extension points may be used for optional extensions
of service metadata. This implies:
* Extension elements added to a specific Service Metadata resource MUST be ignorable
by any client of the transport infrastructure. The ability to parse and adjust client
behavior based on an extension element MUST NOT be a prerequisite for a client to
locate a service, or to make a successful request at the referenced service.
* A client MAY ignore any extension element added to specific service metadata
resource instances.
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <!-- TODO processContents="skip" will be added after 1.1.0 -->
    <xs:any/>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

### 5.1.2.5. BDMSLService-1.0.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<!--
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https://joinup.ec.europa.eu/sites/default/files/custom-page/attachment/eupl_v1.2_en.pdf
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<xs:schema xmlns="ec:services:wSDL:BDMSL:data:1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:bd="http://busdox.org/serviceMetadata/locator/1.0/" xmlns:id="http://busdox.org/transport/identifiers/1.0/"
targetNamespace="ec:services:wSDL:BDMSL:data:1.0" elementFormDefault="qualified" id="BDMSLTypes">
  <xs:import namespace="http://busdox.org/serviceMetadata/locator/1.0/" schemaLocation="ServiceMetadataLocatorTypes-
1.0.xsd"/>
  <xs:import namespace="http://busdox.org/transport/identifiers/1.0/" schemaLocation="Identifiers-1.0.xsd"/>
  <xs:element name="PrepareChangeCertificate" type="PrepareChangeCertificateType"/>
  <xs:element name="SMPAdvancedServiceForParticipantService" type="SMPAdvancedServiceForParticipantType"/>
  <xs:element name="IsAlive" type="IsAliveType"/>
  <xs:complexType name="PrepareChangeCertificateType">
    <xs:sequence>
      <xs:element name="newCertificatePublicKey" type="xs:string">
        <xs:annotation>
          <xs:documentation>The new public key contained in the certificate.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="migrationDate" type="xs:date" minOccurs="0">
        <xs:annotation>
          <xs:documentation>The migration date for the new certificate. Can't be in the past.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:sequence>
</xs:complexType>
<xs:complexType name="SMPAdvancedServiceForParticipantType">
  <xs:sequence>
    <xs:element name="CreateParticipantIdentifier" type="bd:ServiceMetadataPublisherServiceForParticipantType"/>
    <xs:element name="serviceName" type="xs:string">
      <xs:annotation>
        <xs:documentation>The name of the service for the NAPTR record.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ListParticipantsType">
  <xs:sequence>
    <xs:element name="participant" type="ParticipantsType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ParticipantsType">
  <xs:sequence>
    <xs:element ref="id:ParticipantIdentifier">
      <xs:annotation>
        <xs:documentation>The participant identifier</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element ref="bd:ServiceMetadataPublisherID">
      <xs:annotation>
        <xs:documentation>The SMP identifier</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="IsAliveType"/>
</xs:schema>

```

### 5.1.2.6. BDMSLAdminService-1.0.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<!-- edited with XMLSpy v2008 (http://www.altova.com) by XMLSpy 2007 Professional Ed., Installed for 5 users (with SMP from 2007-02-06 to 2008-02-07) (CIF VSRS) -->
<!--
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limitations under the License.
-->
<xs:schema xmlns="ec:services:wsl:BDMSL:admin:data:1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:bd="http://busdox.org/serviceMetadata/locator/1.0/"
  targetNamespace="ec:services:wsl:BDMSL:admin:data:1.0" elementFormDefault="qualified" id="BDMSLAdminTypes">
  <xs:element name="GenerateInconsistencyReport" type="GenerateInconsistencyReportType"/>
  <xs:element name="GenerateInconsistencyResponse" type="GenerateInconsistencyResponseType"/>
  <xs:element name="CreateSubDomainRequest" type="SubDomainType"/>
  <xs:element name="CreateSubDomainResponse" type="SubDomainType"/>
  <xs:element name="CreateDomainCertificateRequest" type="SubDomainType"/>
  <xs:element name="UpdateSubDomainRequest" type="UpdateSubDomainType"/>
  <xs:element name="UpdateSubDomainResponse" type="SubDomainType"/>
  <xs:element name="DeleteSubDomainRequest" type="DeleteSubDomainType"/>
  <xs:element name="DeleteSubDomainResponse" type="SubDomainType"/>
  <xs:element name="GetSubDomainRequest" type="GetSubDomainType"/>
  <xs:element name="GetSubDomainResponse" type="SubDomainType"/>
  <xs:element name="AddSubDomainCertificateRequest" type="AddDomainCertificateType"/>
  <xs:element name="AddSubDomainCertificateResponse" type="DomainCertificateType"/>
  <xs:element name="UpdateSubDomainCertificateRequest" type="UpdateDomainCertificateType"/>
  <xs:element name="UpdateSubDomainCertificateResponse" type="DomainCertificateType"/>

```

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<xs:element name="ListSubDomainCertificateRequest" type="ListSubDomainCertificateRequestType"/>
<xs:element name="ListSubDomainCertificateResponse" type="ListSubDomainCertificateResponseType"/>
<xs:element name="AddTruststoreCertificateRequest" type="TruststoreCertificateType"/>
<xs:element name="AddTruststoreCertificateResponse" type="TruststoreCertificateType"/>
<xs:element name="DeleteTruststoreCertificateRequest" type="DeleteTruststoreCertificateType"/>
<xs:element name="DeleteTruststoreCertificateResponse" type="TruststoreCertificateType"/>
<xs:element name="GetTruststoreCertificateRequest" type="GetTruststoreCertificateType"/>
<xs:element name="GetTruststoreCertificateResponse" type="TruststoreCertificateType"/>
<xs:element name="ListTruststoreCertificateAliasesRequest" type="ListTruststoreCertificateAliasesRequestType"/>
<xs:element name="ListTruststoreCertificateAliasesResponse" type="ListTruststoreCertificateAliasesResponseType"/>
<xs:element name="AddDNSRecordRequest" type="DNSRecordType"/>
<xs:element name="AddDNSRecordResponse" type="DNSRecordType"/>
<xs:element name="DeleteDNSRecordRequest" type="DeleteDNSRecordType"/>
<xs:element name="DeleteDNSRecordResponse" type="DNSRecordListType"/>
<xs:element name="SetPropertyRequest" type="PropertyType"/>
<xs:element name="SetPropertyResponse" type="PropertyType"/>
<xs:element name="GetPropertyRequest" type="PropertyKeyType"/>
<xs:element name="GetPropertyResponse" type="PropertyType"/>
<xs:element name="DeletePropertyRequest" type="PropertyKeyType"/>
<xs:element name="DeletePropertyResponse" type="PropertyType"/>
<xs:element name="ChangeCertificate" type="ChangeCertificateType"/>
<xs:element name="ClearCache" type="ClearCacheType"/>
<xs:complexType name="ClearCacheType"/>
<xs:complexType name="ChangeCertificateType">
  <xs:sequence>
    <xs:element ref="bd:ServiceMetadataPublisherID">
      <xs:annotation>
        <xs:documentation>The SMP identifier</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="newCertificatePublicKey" type="xs:base64Binary">
      <xs:annotation>
        <xs:documentation>The new public key contained in the certificate.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GenerateInconsistencyReportType">
  <xs:sequence>
    <xs:element name="ReceiverEmailAddress" type="xs:string">
      <xs:annotation>
        <xs:documentation>Receiver email address!</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="GenerateInconsistencyResponseType">
  <xs:annotation>
    <xs:documentation>Status description</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="0"/>
    <xs:maxLength value="253"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="SubDomainType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name. Name must be unique on SML server!</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SubDomainDescription" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Short SubDomain description</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="1024"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="DNSZone">
      <xs:annotation>
        <xs:documentation>Domain (dns zone) for SubDomain.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>

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<xs:restriction base="xs:string">
  <xs:maxLength value="512"/>
  <xs:minLength value="1"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="ParticipantRegularExpression" type="ParticipantRegularExpressionType">
  <xs:annotation>
    <xs:documentation>Regex allows specific and described ids only or * instead for having wildcards.
  </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="DNSRecordType" type="DNSRecordTypeType">
  <xs:annotation>
    <xs:documentation>Type of DNS Record when registering/updating participant, all means that both DNS
      record types are accepted as possible values: [cname, naptr, all].
  </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SmpUrlScheme" type="SmpUrlSchemeType">
  <xs:annotation>
    <xs:documentation>Protocol that MUST be used for LogicalAddress when registering new SMP, all means
      both protocols are accepted possible values: [ http, https, all].
  </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CertSubjectRegularExpression" type="CertSubjectRegularExpressionType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Regex validation of Certificate subject for Issuer based authorization
      certificates.
  </xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="PropertyType">
  <xs:sequence>
    <xs:element name="Key">
      <xs:annotation>
        <xs:documentation>Property key.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="512"/>
          <xs:minLength value="1"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Value">
      <xs:annotation>
        <xs:documentation>Property Value.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="4000"/>
          <xs:minLength value="1"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Description" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Property description.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="4000"/>
          <xs:minLength value="1"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="PropertyKeyType">
  <xs:sequence>
    <xs:element name="Key">
      <xs:annotation>
        <xs:documentation>Property key.</xs:documentation>

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```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:maxLength value="512"/>
    <xs:minLength value="1"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="UpdateSubDomainType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name. Name must be unique on SML server!</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ParticipantRegularExpression" type="ParticipantRegularExpressionType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Regex allows specific and described ids only or * instead for having wildcards.
      </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="DNSRecordType" type="DNSRecordTypeType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Type of DNS Record when registering/updating participant, all means that both DNS
          record types are accepted as possible values: [cname, naptr, all].
      </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SmpUrlScheme" type="SmpUrlSchemeType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Protocol that MUST be used for LogicalAddress when registering new SMP, all means
          both protocols are accepted possible values: [ http, https, all].
      </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CertSubjectRegularExpression" type="CertSubjectRegularExpressionType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Regex validation of Certificate subject for Issuer based authorization
          certificates.
      </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DeleteSubDomainType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name to be deleted</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetSubDomainType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name to be retrieved</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="ParticipantRegularExpressionType">
  <xs:annotation>
    <xs:documentation>Regex allows specific and described ids only or * instead for having wildcards.
  </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="1024"/>
    <xs:minLength value="1"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CertSubjectRegularExpressionType">
  <xs:annotation>
    <xs:documentation>Domain Subject Regex for Issuer certificate based authorization certificates.
  </xs:documentation>
  </xs:annotation>

```

```

</xs:documentation>
</xs:annotation>
<xs:restriction base="xs:string">
  <xs:maxLength value="1024"/>
  <xs:minLength value="1"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="DNSRecordTypeType">
  <xs:annotation>
    <xs:documentation>Type of DNS Record when registering/updating participant, all means that both DNS record
      types are accepted as possible values: [cname, naptr, all].
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:minLength value="1"/>
    <xs:maxLength value="128"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SmpUrlSchemeType">
  <xs:annotation>
    <xs:documentation>Protocol that MUST be used for LogicalAddress when registering new SMP, all means both
      protocols are accepted possible values: [ http, https, all].
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:minLength value="1"/>
    <xs:maxLength value="128"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SubDomainNameType">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CertAliasType">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CertificateDomainType">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DNSNameType">
  <xs:annotation>
    <xs:documentation>Record name. Must end with valid zone name.</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="253"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DNSZoneType">
  <xs:annotation>
    <xs:documentation>DNS zone name.</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="253"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CRLDistributionPointsUrlType">
  <xs:restriction base="xs:anyURI">
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="DomainCertificateType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="IsRootCertificate" type="xs:boolean">

```

```

<xs:annotation>
  <xs:documentation>Flag if certificate is root certificate</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="IsAdminCertificate" type="xs:boolean">
  <xs:annotation>
    <xs:documentation>Flag if certificate has admin rights. Only non root certificate could have admin
rights.
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CertificateDomainId" type="CertificateDomainType">
  <xs:annotation>
    <xs:documentation>Certificate identifier</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Alias" type="CertAliasType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Certificate alias in truststore</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CRLDistributionPointsUrl" type="CRLDistributionPointsUrlType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Certificate identifier</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="AddDomainCertificateType">
  <xs:sequence>
    <xs:element name="SubDomainName" type="SubDomainNameType">
      <xs:annotation>
        <xs:documentation>SubDomain name</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="IsRootCertificate" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>Flag if certificate is root certificate</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="IsAdminCertificate" type="xs:boolean">
      <xs:annotation>
        <xs:documentation>Flag if certificate has admin rights. Only non root certificate can have admin
rights
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CertificatePublicKey" type="xs:base64Binary">
      <xs:annotation>
        <xs:documentation>Domain certificate.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Alias" type="CertAliasType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>If truststore is enabled this is Certificate alias for the truststore. If alias is
not given value is generated!
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="TruststoreCertificateType">
  <xs:sequence>
    <xs:element name="Alias" type="CertAliasType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Certificate alias.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CertificatePublicKey" type="xs:base64Binary">
      <xs:annotation>
        <xs:documentation>Domain certificate.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetTruststoreCertificateType">
  <xs:sequence>

```

```

<xs:element name="Alias" type="CertAliasType">
  <xs:annotation>
    <xs:documentation>Certificate alias.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="DeleteTruststoreCertificateType">
  <xs:sequence>
    <xs:element name="Alias" type="CertAliasType">
      <xs:annotation>
        <xs:documentation>Certificate alias.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="UpdateDomainCertificateType">
  <xs:sequence>
    <xs:element name="CertificateDomainId" type="CertificateDomainType">
      <xs:annotation>
        <xs:documentation>Certificate identifier</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="IsAdminCertificate" type="xs:boolean" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Flag if certificate has admin rights. Only non root certificate can have admin
          rights
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SubDomainName" type="SubDomainNameType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>SubDomain name</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CrlDistributionPoint" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Certificate revocation list DistributionPoint URL</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ListSubDomainCertificateRequestType">
  <xs:sequence>
    <xs:element name="CertificateDomainId" type="CertificateDomainType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>'Like' parameter for certificate identifier</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SubDomainName" type="SubDomainNameType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>SubDomain name</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ListSubDomainCertificateResponseType">
  <xs:sequence>
    <xs:element name="DomainCertificateType" type="DomainCertificateType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ListTruststoreCertificateAliasesRequestType">
  <xs:sequence>
    <xs:element name="ContainsStringInAlias" type="CertAliasType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Contains string in alias</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ListTruststoreCertificateAliasesResponseType">
  <xs:sequence>
    <xs:element name="Alias" type="CertAliasType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DeleteDNSRecordType">
  <xs:sequence>

```

```

<xs:element name="Name" type="DNSNameType">
  <xs:annotation>
    <xs:documentation>Dns name. It must be valid domain.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="DNSZone" type="DNSZoneType">
  <xs:annotation>
    <xs:documentation>Dns zone on dns server.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="DNSRecordListType">
  <xs:sequence>
    <xs:element name="DNSRecord" type="DNSRecordType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Dns record list.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DNSRecordType">
  <xs:sequence>
    <xs:element name="Type" type="xs:token">
      <xs:annotation>
        <xs:documentation>Supported dns type: A, CName, Naptr.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Name" type="DNSNameType">
      <xs:annotation>
        <xs:documentation>Dns name. It must be valid domain.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="DNSZone" type="DNSZoneType">
      <xs:annotation>
        <xs:documentation>Dns zone on dns server.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Value" type="xs:string">
      <xs:annotation>
        <xs:documentation>Dns Value. For a type it must be IP address, for CNAME it must valid Domain, for
          NAPTR it must be regular expresion.
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Service" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Service - part of naptr record. If not given (for naptr) default value is:
          Meta:SMP
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

## 5.2. List of valid issuing agencies for PEPPOL

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
FR:SIRENE	0002	Institut National de la Statistique et des Etudes Economiques, (I.N.S.E.E.)	false	1.0.0	1.1.1 - Changed from FR:SIRET to FR:SIRENE (see ISU Jira ISU-231)	1) Number of characters: 9 characters ("SIREN") 14 " 9+5 ("SIRET"), The 9 character number designates an organization, The 14 character number designates a specific establishment of the organization designated by the first 9 characters. 2) Check digits: 9th & 14th character respectively	The 9 figure code number (SIREN) is written in groups of 3 characters. Example: 784 301 772, The 14 figure code number is written in 3 groups of 3 characters and a single group of 5. Example: 784 301 772 00025	
SE:ORGNR	0007	The National Tax Board	false	1.0.0		1) 10 digits. 1st digit = Group number, 2nd - 9th digit = Ordinalnumber1st digit, = Group number, 10th digit = Check digit, 2) Last digit.	Single group of 10 digits.	
FR:SIRET	0009	DU PONT DE NEMOURS	false	1.1.1		1) 14 digits, 2) None	In four groups, Groups 1 - 3 = three digits each, Group 4 = five digits	
FI:OVT	0037	National Board of Taxes, (Verohallitus)	false	1.0.0		1) ICD 4 Digits, Organization code upto 11 characters, Organization name upto 250 characters, 2) None - Example: 00371234567800001 - 0037 Country code for Finland (ISO 6523 International Code Designator (ICD) value) - 12345678 Business ID without hyphen - 00001 Optional specifier for organisation unit (assigned by the organisation itself)	None	

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
DUNS	0060	Dun and Bradstreet Ltd	false	1.0.0		1) 8 digits, 1st-7th digit = number, 8th digit = check number, 2) digit	Single group of 8 digits	OVT identifier conforming to standard ISO6523. - Constant 0037 (Finnish tax administration organisation code) - Finnish local tax ID, 8 characters with initial zero and no hyphen - Free-format 5 characters, for example profit center. Example: 003710948874
GLN	0088	EAN International	false	1.0.0		1) Eight identification digits and a check digit. A two digit prefix will be added in the future but it will not be used to calculate the check digit. 2) The Organization name is not part of the D-U-N-S number.	IIIIIIIC where all characters are the digits 0, to 9, I = an identification digit and C = the check digit. When the prefix (P) is added the display requirement will be eleven digits, PIIIIIIIC.	
DK:P	0096	Danish Chamber of Commerce	false	1.0.0		1) 13 digits including check digits, 2) None	None	
IT:FTI	0097	FTI - Ediforum Italia	false	1.0.0		Character repertoire, The EDI identifier consists of digits only. The identifier has a fixed length. No separators are required. Structure: [123] [123456] [123456] [12], 17, < >, A B C D, A: numerical value allocated by the RA to the regional sub-authority, (3 digits), B: numerical value allocated by the sub-authority to the registered organization (mandatory part of	None	

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
						the identifier; 6 digits), C: numerical value used by the registered organization (free part; 6 digits), D: numerical check digit calculated by the registered organization; (2 digits), Check digit computation, The check digit is modular 97 computed on ABC as one number.		
<b>NL:KVK</b>	0106	Vereniging van Kamers van Koophandel en Fabrieken in Nederland, Scheme	false	1.1.2				
<b>IT:SIA</b>	0135	SIA-Società Interbancaria per l'Automazione S.p.A.	false	1.0.0		Structure of EDI identifier, Character repertoire, The EDI identifier consists of digits only. The identifier has a fixed length. No separators are required. Structure: [1234567] [123] [1] [12345], min 11- max 16, < >, A B C D, A: numerical value (7 digits) assigned by Ufficio Provinciale IVA (local branch of Ministry of Finance); B: numerical value a (3 digits) identifying the County; C: numerical check digit (1 digit); D: optional numerical value (up to 5 digits) used by the registered organization (free part). Check digit computation, The check digit algorithm is the one published in the Gazzetta Ufficiale no 345 of December 29 1976.	None	
<b>IT:SECETI</b>	0142	Servizi Centralizzati SECETI S.p.A.	false	1.0.0		First field: ICD: 4 digits, Second field: sequence of digits	None	
<b>DIGST</b>	0184	DIGSTORG	false	1.2.1		Defined by Danish Agency for Digitisation		

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
DK:CPR	9901	Danish Ministry of the Interior and Health	false	1.0.0		1) First field: ICD: 4 digits, Second field: sequence of digits	None	
DK:CVR	9902	The Danish Commerce and Companies Agency	false	1.0.0				7603770123
DK:SE	9904	Danish Ministry of Taxation, Central Customs and Tax Administration	false	1.0.0				DK26769388
DK:VANS	9905	Danish VANS providers	false	1.0.0				DK26769388
IT:VAT	9906	Ufficio responsabile gestione partite IVA	false	1.0.0				IT06363391001
IT:CF	9907	TAX Authority	false	1.0.0				RSSBBR69C48F839A NOTE: The "CF" is a Fiscal Code that can be "personal" or for a "legal entity". The CF for legal entities is like the Italian VAT code (IT:VAT)
NO:ORGNR	9908	Enhetsregisteret ved Bronnoysundregisterne	false	1.0.0				
NO:VAT	9909	Enhetsregisteret ved Bronnoysundregisterne	true	1.0.0	1.1.0 - deprecated			990399123
HU:VAT	9910		false	1.0.0				990399123MVA
EU:VAT	9912	National ministries of Economy	true	1.0.0	1.1.0 - deprecated			
EU:REID	9913	Business Registers Network	false	1.0.0				
AT:VAT	9914	Österreichische Umsatzsteuer-Identifikationsnummer	false	1.0.0				
AT:GOV	9915	Österreichisches Verwaltungs bzw. Organisationskennzeichen	false	1.0.0				ATU12345678

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
AT:CID	9916	Firmenidentifikationsnummer der Statistik Austria	true	1.0.0	1.0.2 - deprecated			
IS:KT	9917	Icelandic National Registry	false	1.0.0				
IBAN	9918	SOCIETY FOR WORLDWIDE INTERBANK FINANCIAL, TELECOMMUNICATION S.W.I.F.T	false	1.0.1				
AT:KUR	9919	Kennziffer des Unternehmensregisters	false	1.0.2		9 characters in total; letter, number x3, letter, number x3, letter		
ES:VAT	9920	Agencia Española de Administración Tributaria	false	1.0.2				
IT:IPA	9921	Indice delle Pubbliche Amministrazioni	false	1.1.0				
AD:VAT	9922	Andorra VAT number	false	1.1.0				
AL:VAT	9923	Albania VAT number	false	1.1.0				
BA:VAT	9924	Bosnia and Herzegovina VAT number	false	1.1.0				
BE:VAT	9925	Belgium VAT number	false	1.1.0				
BG:VAT	9926	Bulgaria VAT number	false	1.1.0				
CH:VAT	9927	Switzerland VAT number	false	1.1.0				
CY:VAT	9928	Cyprus VAT number	false	1.1.0				
CZ:VAT	9929	Czech Republic VAT number	false	1.1.0				
DE:VAT	9930	Germany VAT number	false	1.1.0				
EE:VAT	9931	Estonia VAT number	false	1.1.0				
GB:VAT	9932	United Kingdom VAT number	false	1.1.0				
GR:VAT	9933	Greece VAT number	false	1.1.0				
HR:VAT	9934	Croatia VAT number	false	1.1.0				
IE:VAT	9935	Ireland VAT number	false	1.1.0				

Scheme ID	ICD value	Issuing Organization	Deprecated	Since	Last Modification	Structure of code	Display requirements	PEPPOL Examples
LI:VAT	9936	Liechtenstein VAT number	false	1.1.0				
LT:VAT	9937	Lithuania VAT number	false	1.1.0				
LU:VAT	9938	Luxemburg VAT number	false	1.1.0				
LV:VAT	9939	Latvia VAT number	false	1.1.0				
MC:VAT	9940	Monaco VAT number	false	1.1.0				
ME:VAT	9941	Montenegro VAT number	false	1.1.0				
MK:VAT	9942	Macedonia, the former Yugoslav Republic of VAT number	false	1.1.0				
MT:VAT	9943	Malta VAT number	false	1.1.0				
NL:VAT	9944	Netherlands VAT number	false	1.1.0				
PL:VAT	9945	Poland VAT number	false	1.1.0				
PT:VAT	9946	Portugal VAT number	false	1.1.0				
RO:VAT	9947	Romania VAT number	false	1.1.0				
RS:VAT	9948	Serbia VAT number	false	1.1.0				
SI:VAT	9949	Slovenia VAT number	false	1.1.0				
SK:VAT	9950	Slovakia VAT number	false	1.1.0				
SM:VAT	9951	San Marino VAT number	false	1.1.0				
TR:VAT	9952	Turkey VAT number	false	1.1.0				
VA:VAT	9953	Holy See (Vatican City State) VAT number	false	1.1.0				
NL:OIN	9954	Dutch Originator's Identification Number	false	1.1.3	1.1.4 - renamed from ION to OIN			
SE:VAT	9955	Swedish VAT number	false	1.2.0				
BE:CBE	9956	Belgian Crossroad Bank of Enterprises	false	1.2.1		Format: 9.999.999.999 - Check: 99 = 97 - (9.999.999.9 modulo 97)		
FR:VAT	9957	French VAT number	false	1.2.1				

Table 23 – PEPPOL issuing agencies

## 6. ANNEXE 1 – DOCUMENT PARTS



UC v1.0.xlsx



**Drawings - Interface  
Control Document for**



PEPPOL Code Lists 1  
2 1-15072016.xls

## 7. LIST OF FIGURES

Figure 1 - Use case diagrams .....	14
Figure 2 – Sequence diagram: <i>ManageServiceMetadataService</i> .....	71
Figure 3 – Sequence diagram: <i>ManageBusinessIdentifierService</i> .....	72
Figure 4 – Sequence diagram : SMP Migraion .....	73
Figure 5 – Sequence diagram: BDMSLService .....	74
Figure 5 – Sequence diagram: BDMSLService .....	75
Figure 6 – WSDL <i>ManageServiceMetadataService</i> .....	78
Figure 7 – WSDL <i>ManageBusinessIdentifierService</i> .....	91
Figure 8 – WSDL <i>BDMSLService</i> .....	119

### List of Tables

Table 1 - Documented services .....	7
Table 2 - Actors.....	13
Table 3 – Use cases.....	19
Table 4 – Create() input.....	80
Table 5 – Read input() .....	83
Table 6 – Read() ouput .....	85
Table 7 – Update() input .....	88
Table 8 – Delete() input.....	90
Table 9 – Create() input.....	94
Table 10 – CreateList() input .....	97
Table 11 – Delete() input.....	101
Table 12 – DeleteList() input .....	104
Table 13 – PrepareToMigrate() input.....	109
Table 14 – Migrate() input.....	113
Table 15 – List() input .....	115
Table 16 – List() output .....	118
Table 17 – PrepareChangeCertificate() input.....	121
Table 18 – CreateParticipantIdentifier() input .....	124
Table 19 – ChangeCertificate() input.....	127
Table 20 – Error Codes .....	128
Table 21 – Fault specific usage .....	129
Table 22 – Fault specific usage .....	130
Table 23 – PEPPOL issuing agencies .....	174

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