SDMX Standards: Section 3A PART I

SDMX-ML:

Schema and Documentation

Message Namespace

Version 2.1

April 2011

© SDMX 2011

http://www.sdmx.org/

Contents

[1 Introduction 1](#_Toc290374973)

[2 Schema Documentation 1](#_Toc290374974)

[2.1 Message Namespace 1](#_Toc290374975)

[2.1.1 Summary 1](#_Toc290374976)

[2.1.2 Global Elements 2](#_Toc290374977)

[2.1.3 Complex Types 6](#_Toc290374978)

[2.1.4 Simple Types 43](#_Toc290374979)

[2.2 Message Footer Namespace 44](#_Toc290374980)

[2.2.1 Summary 44](#_Toc290374981)

[2.2.2 Global Elements 44](#_Toc290374982)

[2.2.3 Complex Types 44](#_Toc290374983)

[2.2.4 Simple Types 45](#_Toc290374984)

# Introduction

At the core of the SDMX XML messages are the message namespaces. These namespaces define the general structure of all messages and define the specific messages that are available for exchange in SDMX.

There are two namespaces associated with the messages. The main namespace schema which defines every message in SDMX is http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message. Associated with this is another sub-namespace, http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message/footer. This namespace defines footer level information that is available in messages which might require non-standard payload information to be transmitted.

In general, every message in SDMX follows common format of:

* Header
* Payload (0..n)
* Footer (0..1)

The header and payload elements exist in the message namespace, but the content of the payload is defined in the namespaces that are specific the functionality of the messages. Note that the header follows a common construct, which is then restricted according to the requirements of the message which is using it.

# Schema Documentation

## Message Namespace

**http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message**

### Summary

Referenced Namespaces:

| **Namespace** | **Prefix** |
| --- | --- |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/common | com |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/data/generic | dat |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/data/structurespecific | dsd |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message/footer | ftr |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/metadata/generic | rep |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/metadata/structurespecific | msd |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/query | qry |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/registry | ref |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/structure | str |
| http://www.w3.org/2001/XMLSchema | xs |

Contents:

44 Global Elements  
56 Complex Types  
1 Simple Type

### Global Elements

**Structure (StructureType):**Structure is a message that contains structural metadata. It may contain any of the following; categorisations, category schemes, code lists, concepts (concept schemes and stand-alone concepts), constraints (attachment and content) data flows, hierarchical code lists, metadata flows, metadata structure definitions, organisation schemes, processes, reporting taxonomies, and structure sets.

**GenericData (GenericDataType):**GenericData is used to convey data in a non data structure specific form. Data sets in this message will be each have a related structure specification in the header, which states the data structure the data conforms to and how the data is organised (i.e. the observation dimension).

**GenericTimeSeriesData (GenericTimeSeriesDataType):**GenericTimeSeriesData is a special derivation of the generic data message which only allows for time series oriented date (i.e. the observation dimension must be time). Although this is a different message, the content of this message will be exactly the same as a generic data message that specifies time as the observation dimension; therefore no additional processing requirements are necessary. This message is intended to only be used when it is necessary to restrict an exchange to being only time series based data.

**StructureSpecificData (StructureSpecificDataType):**StructureSpecificData is used to convey data structure specific according to data structure definition. The payload of this message (i.e. the data sets) will be based on XML schemas which are specific to the data structure definition and the orientation (i.e. the observation dimension) of the data.

**StructureSpecificTimeSeriesData (StructureSpecificTimeSeriesDataType):** StructureSpecificTimeSeriesData is a special derivation of the structure specific data message which only allows for time series oriented date (i.e. the observation dimension must be time). Although this is a different message, the content of this message will be exactly the same as a structure specific data message that specifies time as the observation dimension; therefore no additional processing requirements are necessary. This message is intended to only be used when it is necessary to restrict an exchange to being only time series based data.

**GenericMetadata (GenericMetadataType):**GenericMetadata contains reported metadata in a format which supports any metadata structure definition.

**StructureSpecificMetadata (StructureSpecificMetadataType):**StructureSpecificMetadata contains reported metadata in a format which is specific to the metadata structure definitions which define the structure of the metadata being reported. This format allows for validation of the metadata against the intended structure. Note that the each metadata set provided will be based on a metadata structure specific schema.

**RegistryInterface (RegistryInterfaceType):**RegistryInterface is used to conduct all interactions with the SDMX Registry Services.

**SubmitRegistrationsRequest (SubmitRegistrationsRequestType):**SubmitRegistrationsRequest is sent to the registry by an agency or data/metadata provider to request on or more registrations for a data set or metadata set. The data source to be registered must be accessible to the registry services at an indicated URL, so that it can be processed by those services.

**SubmitRegistrationsResponse (SubmitRegistrationsResponseType):**SubmitRegistrationsResponse is sent to the agency or data/metadata provider in response to a registration requests. It indicates the success or failure of each registration request, and contains any error messages generated by the registration service.

**QueryRegistrationRequest (QueryRegistrationRequestType):**QueryRegistrationRequest is used to query the contents of a registry for data sets and metadata sets. It specifies whether the result set should include metadata sets, data sets, or both. The search can be characterized by providing constraints including reference periods, data regions, and data keys.

**QueryRegistrationResponse (QueryRegistrationResponseType):**QueryRegistrationResponse is sent as a response to any query of the contents of a registry. The result set contains a set of links to data and/or metadata If the result set is null, or there is some other problem with the query, then appropriate error messages and statuses will be returned.

**SubmitStructureRequest (SubmitStructureRequestType):**SubmitStructureRequest is used to submit structure definitions to the repository. The structure resources (key families, agencies, concepts and concept schemes, code lists, etc.) to be submitted may be communicated in-line or be supplied in a referenced SDMX-ML Structure messages external to the registry. A response will indicate status and contain any relevant error information.

**SubmitStructureResponse (SubmitStructureResponseType):**SubmitStructureResponse is returned by the registry when a structure submission request is received. It indicates the status of the submission, and carries any error messages which are generated, if relevant.

**SubmitSubscriptionsRequest (SubmitSubscriptionsRequestType):**SubmitSubscriptionsRequest contains one or more requests submitted to the registry to subscribe to registration and change events for specific registry resources.

**SubmitSubscriptionsResponse (SubmitSubscriptionsResponseType):**SubmitSubscriptionsResponse is the response to a submit subscriptions request. It contains information which describes the success or failure of each subscription request, providing any error messages in the event of failure. If successful, it returns the registry URN of the subscription, and the subscriber-assigned ID.

**QuerySubscriptionRequest (QuerySubscriptionRequestType):**QuerySubscriptionRequest is used to query the registry for the subscriptions of a given organisation.

**QuerySubscriptionResponse (QuerySubscriptionResponseType):**QuerySubscriptionResponse is sent as a response to a subscription query. If the query is successful, the details of all subscriptions for the requested organisation are sent.

**NotifyRegistryEvent (NotifyRegistryEventType):**NotifyRegistryEvent is sent by the registry services to subscribers, to notify them of specific registration and change events. Basic information about the event, such as the object that triggered it, the time of the event, the action that took place, and the subscription that triggered the notification are always sent. Optionally, the details of the changed object may also be provided.

**StructureSpecificDataQuery (DataQueryType):**StructureSpecificDataQuery is used to query SDMX compliant databases or web services for structure specific data.

**GenericDataQuery (GenericDataQueryType):**GenericDataQuery is used to query SDMX compliant databases or web services for generic data. This is actually a specialization of the structured data query, and therfore can be processed in the same manner.

**GenericTimeSeriesDataQuery (GenericTimeSeriesDataQueryType):**GenericTimeSeriesDataQuery is used to query SDMX compliant databases or web services for time series only generic data. This is actually a specialization of the generic data query, and therfore can be processed in the same manner. This message is intended to only be used when it is necessary to restrict an exchange to being only time series based data.

**StructureSpecificTimeSeriesDataQuery (StructureSpecificTimeSeriesDataQueryType):**StructureSpecificTimeSeriesDataQuery is used to query SDMX compliant databases or web services for time series only structure specific data. This is actually a specialization of the structure specific data query, and therfore can be processed in the same manner. This message is intended to only be used when it is necessary to restrict an exchange to being only time series based data.

**GenericMetadataQuery (MetadataQueryType):**GenericMetadataQuery is used to query SDMX compliant databases or web services for generic format reference metadata.

**StructureSpecificMetadataQuery (MetadataQueryType):**StructureSpecificMetadataQuery is used to query SDMX compliant databases or web services for metadata structure specific reference metadata.

**DataSchemaQuery (DataSchemaQueryType):**DataSchemaQuery is used to query SDMX compliant databases or web services for data structure specific schemas for the purpose of validating structured data.

**MetadataSchemaQuery (MetadataSchemaQueryType):**MetadataSchemaQuery is used to query SDMX compliant databases or web services for metadata structure specific schemas for the purpose of validating structured metadata.

**StructuresQuery (StructuresQueryType):**StructuresQuery is used to query SDMX compliant databases or web services for any structures based on simple maintainable object properties (e.g. all objects maintained by a maintenance agency).

**DataflowQuery (DataflowQueryType):**DataflowQuery is used to query SDMX compliant databases or web services for dataflows.

**MetadataflowQuery (MetadataflowQueryType):**MetadataflowQuery is used to query SDMX compliant databases or web services for metadata flows.

**DataStructureQuery (DataStructureQueryType):**DataStructureQuery is used to query SDMX compliant databases or web services for data structures definitions.

**MetadataStructureQuery (MetadataStructureQueryType):**MetadataStructureQuery is used to query SDMX compliant databases or web services for metadata structure definitions.

**CategorySchemeQuery (CategorySchemeQueryType):**CategorySchemeQuery is used to query SDMX compliant databases or web services for category schemes.

**ConceptSchemeQuery (ConceptSchemeQueryType):**ConceptSchemeQuery is used to query SDMX compliant databases or web services for concept schemes.

**CodelistQuery (CodelistQueryType):**CodelistQuery is used to query SDMX compliant databases or web services for codelists.

**HierarchicalCodelistQuery (HierarchicalCodelistQueryType):**HierarchicalCodelistQuery is used to query SDMX compliant databases or web services for hierarchical codelists.

**OrganisationSchemeQuery (OrganisationSchemeQueryType):**OrganisationSchemeQuery is used to query SDMX compliant databases or web services for organisation schemes.

**ReportingTaxonomyQuery (ReportingTaxonomyQueryType):**ReportingTaxonomyQuery is used to query SDMX compliant databases or web services for reporting taxonomies.

**StructureSetQuery (StructureSetQueryType):**StructureSetQuery is used to query SDMX compliant databases or web services for structure sets.

**ProcessQuery (ProcessQueryType):**ProcessQuery is used to query SDMX compliant databases or web services for processes.

**CategorisationQuery (CategorisationQueryType):**CategorisationQuery is used to query SDMX compliant databases or web services for categorisations.

**ProvisionAgreementQuery (ProvisionAgreementQueryType):**ProvisionAgreementQuery is used to query SDMX compliant databases or web services for provision agreements.

**ConstraintQuery (ConstraintQueryType):**ConstraintQuery is used to query SDMX compliant databases or web services for constraints.

**Error (ErrorType):**Error is used to communicate that an error has occurred when responding to a request in an non-registry environment. The content will be a collection of error messages.

### Complex Types

***MessageType*:**MessageType is an abstract type which is used by all of the messages, to allow inheritance of common features. Every message consists of a mandatory header, followed by optional payload (which may occur multiple times), and finally an optional footer section for conveying error, warning, and informational messages.

Content:

Header, {any element with namespace of http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message}\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | *BaseHeaderType* |  |
| ftr:Footer | ftr:FooterType |  |

**StructureType:**StructureType defines the contents of a structure message. The payload is optional since this message may be returned from a web service with only information in the footer.

Derivation:

*MessageType* (restriction)   
   StructureType



Content:

Header, Structures?, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | StructureHeaderType |  |
| Structures | str:StructuresType |  |
| ftr:Footer | ftr:FooterType |  |

**GenericDataType:**GenericDataType defines the contents of a generic data message.

Derivation:

*MessageType* (restriction)   
   GenericDataType



Content:

Header, DataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | GenericDataHeaderTyp e |  |
| DataSet | dat:DataSetType |  |
| ftr:Footer | ftr:FooterType |  |

**GenericTimeSeriesDataType:**GenericTimeSeriesDataType defines the structure of the generic time series data message.

Derivation:

*MessageType* (restriction)   
   GenericDataType (restriction)   
         GenericTimeSeriesDataType



Content:

Header, DataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | GenericTimeSeriesDat aHeaderType |  |
| DataSet | dat: TimeSeriesDataSetTyp e |  |
| ftr:Footer | ftr:FooterType |  |

**StructureSpecificDataType:**StructureSpecificDataType defines the structure of the structure specific data message. Note that the data set payload type is abstract, and therefore it will have to be assigned a type in an instance. This type must be derived from the base type referenced. This base type defines a general structure which can be followed to allow for generic processing of the data even if the exact details of the data structure specific format are not known.

Derivation:

*MessageType* (restriction)   
   StructureSpecificDataType



Content:

Header, DataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | StructureSpecificDat aHeaderType |  |
| DataSet | *dsd:DataSetType* |  |
| ftr:Footer | ftr:FooterType |  |

**StructureSpecificTimeSeriesDataType:**StructureSpecificTimeSeriesDataType defines the structure of the structure specific time series data message.

Derivation:

*MessageType* (restriction)   
   StructureSpecificDataType (restriction)   
         StructureSpecificTimeSeriesDataType



Content:

Header, DataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | StructureSpecificTim eSeriesDataHeaderTyp e |  |
| DataSet | *dsd: TimeSeriesDataSetTyp e* |  |
| ftr:Footer | ftr:FooterType |  |

**GenericMetadataType:**GenericMetadataType defines the contents of a generic metadata message.

Derivation:

*MessageType* (restriction)   
   GenericMetadataType



Content:

Header, MetadataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | GenericMetadataHeade rType |  |
| MetadataSet | rep:MetadataSetType |  |
| ftr:Footer | ftr:FooterType |  |

**StructureSpecificMetadataType:**StructureSpecificMetadataType defines the structure of a structure specific metadata message. Note that the metadata set payload type is abstract, and therefore it will have to be assigned a type in an instance. This type must be derived from the base type referenced. This base type defines a general structure which can be followed to allow for generic processing of the data even if the exact details of the data structure specific format are not known.

Derivation:

*MessageType* (restriction)   
   StructureSpecificMetadataType



Content:

Header, MetadataSet\*, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | StructureSpecificMet adataHeaderType |  |
| MetadataSet | *msd:MetadataSetType* |  |
| ftr:Footer | ftr:FooterType |  |

**RegistryInterfaceType:**This is a type which describes a structure for holding all of the various dedicated registry interface message types.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType



Content:

Header, (SubmitRegistrationsRequest | SubmitRegistrationsResponse | QueryRegistrationRequest | QueryRegistrationResponse | SubmitStructureRequest | SubmitStructureResponse | SubmitSubscriptionsRequest | SubmitSubscriptionsResponse | QuerySubscriptionRequest | QuerySubscriptionResponse | NotifyRegistryEvent)?, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitRegistrationsR equest | ref: SubmitRegistrationsR equestType | SubmitRegistrationsRequest is sent to the registry by an agency or data/metadata provider to request one or more registrations for a data set or metadata set. The data source to be registered must be accessible to the registry services at an indicated URL, so that it can be processed by those services. |
| SubmitRegistrationsR esponse | ref: SubmitRegistrationsR esponseType | SubmitRegistrationsResponse is sent to the agency or data/metadata provider in response to a submit registrations request. It indicates the success or failure of each registration request, and contains any error messages generated by the registration service. |
| QueryRegistrationReq uest | ref: QueryRegistrationReq uestType | QueryRegistrationRequest is used to query the contents of a registry for data sets and metadata sets. It specifies whether the result set should include metadata sets, data sets, or both. The search can be characterized by providing constraints including reference periods, data regions, and data keys. |
| QueryRegistrationRes ponse | ref: QueryRegistrationRes ponseType | QueryRegistrationResponse is sent as a response to any query of the contents of a registry. The result set contains a set of links to data and/or metadata If the result set is null, or there is some other problem with the query, then appropriate error messages and statuses will be returned. |
| SubmitStructureReque st | ref: SubmitStructureReque stType | SubmitStructureRequest is used to submit structure definitions to the repository. The structure resources (key families, agencies, concepts and concept schemes, code lists, etc.) to be submitted may be communicated in-line or be supplied in a referenced SDMX-ML Structure messages external to the registry. A response will indicate status and contain any relevant error information. |
| SubmitStructureRespo nse | ref: SubmitStructureRespo nseType | SubmitStructureResponse is returned by the registry when a structure submission request is received. It indicates the status of the submission, and carries any error messages which are generated, if relevant. |
| SubmitSubscriptionsR equest | ref: SubmitSubscriptionsR equestType | SubmitSubscriptionsRequest contains one or more requests submitted to the registry to subscribe to registration and change events for specific registry resources. |
| SubmitSubscriptionsR esponse | ref: SubmitSubscriptionsR esponseType | SubmitSubscriptionsResponse is the response to a submit subscriptions request. It contains information which describes the success or failure of each subscription request, providing any error messages in the event of failure. If successful, it returns the registry URN of the subscription, and the subscriber-assigned ID. |
| QuerySubscriptionReq uest | ref: QuerySubscriptionReq uestType | QuerySubscriptionRequest is used to query the registry for the subscriptions of a given organisation. |
| QuerySubscriptionRes ponse | ref: QuerySubscriptionRes ponseType | QuerySubscriptionResponse is sent as a response to a subscription query. If the query is successful, the details of all subscriptions for the requested organisation are sent. |
| NotifyRegistryEvent | ref: NotifyRegistryEventT ype | NotifyRegistryEvent is sent by the registry services to subscribers, to notify them of specific registration and change events. Basic information about the event, such as the object that triggered it, the time of the event, the action that took place, and the subscription that triggered the notification are always sent. Optionally, the details of the changed object may also be provided. |
| ftr:Footer | ftr:FooterType |  |

**SubmitRegistrationsRequestType:**SubmitRegistrationsRequestType defines the structure of a registry submit registration requests document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitRegistrationsRequestType



Content:

Header, SubmitRegistrationsRequest

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitRegistrationsR equest | ref: SubmitRegistrationsR equestType | SubmitRegistrationsRequest is sent to the registry by an agency or data/metadata provider to request one or more registrations for a data set or metadata set. The data source to be registered must be accessible to the registry services at an indicated URL, so that it can be processed by those services. |

**SubmitRegistrationsResponseType:**SubmitRegistrationsResponseType defines the structure of a registry submit registration response document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitRegistrationsResponseType



Content:

Header, SubmitRegistrationsResponse, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitRegistrationsR esponse | ref: SubmitRegistrationsR esponseType | SubmitRegistrationsResponse is sent to the agency or data/metadata provider in response to a submit registrations request. It indicates the success or failure of each registration request, and contains any error messages generated by the registration service. |
| ftr:Footer | ftr:FooterType |  |

**QueryRegistrationRequestType:**QueryRegistrationRequestType defines the structure of a registry query registration request document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         QueryRegistrationRequestType



Content:

Header, QueryRegistrationRequest

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| QueryRegistrationReq uest | ref: QueryRegistrationReq uestType | QueryRegistrationRequest is used to query the contents of a registry for data sets and metadata sets. It specifies whether the result set should include metadata sets, data sets, or both. The search can be characterized by providing constraints including reference periods, data regions, and data keys. |

**QueryRegistrationResponseType:**SubmitRegistrationRequestType defines the structure of a registry submit registration response document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         QueryRegistrationResponseType



Content:

Header, QueryRegistrationResponse, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| QueryRegistrationRes ponse | ref: QueryRegistrationRes ponseType | QueryRegistrationResponse is sent as a response to any query of the contents of a registry. The result set contains a set of links to data and/or metadata If the result set is null, or there is some other problem with the query, then appropriate error messages and statuses will be returned. |
| ftr:Footer | ftr:FooterType |  |

**SubmitStructureRequestType:**SubmitStructureRequestType defines the structure of a registry submit structure request document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitStructureRequestType



Content:

Header, SubmitStructureRequest

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitStructureReque st | ref: SubmitStructureReque stType | SubmitStructureRequest is used to submit structure definitions to the repository. The structure resources (key families, agencies, concepts and concept schemes, code lists, etc.) to be submitted may be communicated in-line or be supplied in a referenced SDMX-ML Structure messages external to the registry. A response will indicate status and contain any relevant error information. |

**SubmitStructureResponseType:**SubmitStructureResponseType defines the structure of a registry submit registration response document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitStructureResponseType



Content:

Header, SubmitStructureResponse, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitStructureRespo nse | ref: SubmitStructureRespo nseType | SubmitStructureResponse is returned by the registry when a structure submission request is received. It indicates the status of the submission, and carries any error messages which are generated, if relevant. |
| ftr:Footer | ftr:FooterType |  |

**SubmitSubscriptionsRequestType:**SubmitSubscriptionsRequestType defines the structure of a registry submit subscription request document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitSubscriptionsRequestType



Content:

Header, SubmitSubscriptionsRequest

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitSubscriptionsR equest | ref: SubmitSubscriptionsR equestType | SubmitSubscriptionsRequest contains one or more requests submitted to the registry to subscribe to registration and change events for specific registry resources. |

**SubmitSubscriptionsResponseType:**SubmitSubscriptionsResponseType defines the structure of a registry submit subscription response document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         SubmitSubscriptionsResponseType



Content:

Header, SubmitSubscriptionsResponse, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| SubmitSubscriptionsR esponse | ref: SubmitSubscriptionsR esponseType | SubmitSubscriptionsResponse is the response to a submit subscriptions request. It contains information which describes the success or failure of each subscription request, providing any error messages in the event of failure. If successful, it returns the registry URN of the subscription, and the subscriber-assigned ID. |
| ftr:Footer | ftr:FooterType |  |

**QuerySubscriptionRequestType:**QuerySubscriptionRequestType defines the structure of a registry query subscription request document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         QuerySubscriptionRequestType



Content:

Header, QuerySubscriptionRequest

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| QuerySubscriptionReq uest | ref: QuerySubscriptionReq uestType | QuerySubscriptionRequest is used to query the registry for the subscriptions of a given organisation. |

**QuerySubscriptionResponseType:**QuerySubscriptionResponseType defines the structure of a registry query subscription response document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         QuerySubscriptionResponseType



Content:

Header, QuerySubscriptionResponse, ftr:Footer?

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| QuerySubscriptionRes ponse | ref: QuerySubscriptionRes ponseType | QuerySubscriptionResponse is sent as a response to a subscription query. If the query is successful, the details of all subscriptions for the requested organisation are sent. |
| ftr:Footer | ftr:FooterType |  |

**NotifyRegistryEventType:**NotifyRegistryEventType defines the structure of a registry notification document.

Derivation:

*MessageType* (restriction)   
   RegistryInterfaceType (restriction)   
         NotifyRegistryEventType



Content:

Header, NotifyRegistryEvent

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| NotifyRegistryEvent | ref: NotifyRegistryEventT ype | NotifyRegistryEvent is sent by the registry services to subscribers, to notify them of specific registration and change events. Basic information about the event, such as the object that triggered it, the time of the event, the action that took place, and the subscription that triggered the notification are always sent. Optionally, the details of the changed object may also be provided. |

**DataQueryType:**DataQueryType defines the structure of a data query message.

Derivation:

*MessageType* (restriction)   
   DataQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry:DataQueryType |  |

**GenericDataQueryType:**DataQueryType defines the structure of a generic data query message.

Derivation:

*MessageType* (restriction)   
   DataQueryType (restriction)   
         GenericDataQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: GenericDataQueryType |  |

**GenericTimeSeriesDataQueryType:**GenericTimeSeriesDataQueryType defines the structure of a time series generic data query message.

Derivation:

*MessageType* (restriction)   
   DataQueryType (restriction)   
         GenericDataQueryType (restriction)   
               GenericTimeSeriesDataQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: GenericTimeSeriesDat aQueryType |  |

**StructureSpecificTimeSeriesDataQueryType:**StructureSpecificTimeSeriesDataQueryType defines the structure of a time series generic data query message.

Derivation:

*MessageType* (restriction)   
   DataQueryType (restriction)   
         StructureSpecificTimeSeriesDataQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: TimeSeriesDataQueryT ype |  |

**MetadataQueryType:**MetadataQueryType defines the structure of a reference metadata query message.

Derivation:

*MessageType* (restriction)   
   MetadataQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: MetadataQueryType |  |

**DataSchemaQueryType:**DataSchemaQueryType defines the structure of a data schema query message.

Derivation:

*MessageType* (restriction)   
   DataSchemaQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: DataSchemaQueryType |  |

**MetadataSchemaQueryType:**MetadataSchemaQueryType defines the structure of a metadata schema query message.

Derivation:

*MessageType* (restriction)   
   MetadataSchemaQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: MetadataSchemaQueryT ype |  |

**StructuresQueryType:**StructuresQueryType defines the structure of a structures query message.

Derivation:

*MessageType* (restriction)   
   StructuresQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: StructuresQueryType |  |

**DataflowQueryType:**DataflowQueryType defines the structure of a dataflow query message.

Derivation:

*MessageType* (restriction)   
   DataflowQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: DataflowQueryType |  |

**MetadataflowQueryType:**MetadataflowQueryType defines the structure of a metadata flow query message.

Derivation:

*MessageType* (restriction)   
   MetadataflowQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: MetadataflowQueryTyp e |  |

**DataStructureQueryType:**KeyFamilyQueryType defines the structure of a data structure query message.

Derivation:

*MessageType* (restriction)   
   DataStructureQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: DataStructureQueryTy pe |  |

**MetadataStructureQueryType:**MetadataStructureQueryType defines the structure of a metadata structure query message.

Derivation:

*MessageType* (restriction)   
   MetadataStructureQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: MetadataStructureQue ryType |  |

**CategorySchemeQueryType:**CategorySchemeQueryType defines the structure of a category scheme query message.

Derivation:

*MessageType* (restriction)   
   CategorySchemeQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: CategorySchemeQueryT ype |  |

**ConceptSchemeQueryType:**ConceptSchemeQueryType defines the structure of a concept scheme query message.

Derivation:

*MessageType* (restriction)   
   ConceptSchemeQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: ConceptSchemeQueryTy pe |  |

**CodelistQueryType:**CodelistQueryType defines the structure of a codelist query message.

Derivation:

*MessageType* (restriction)   
   CodelistQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: CodelistQueryType |  |

**HierarchicalCodelistQueryType:**HierarchicalCodelistQueryType defines the structure of a hierarchical codelist query message.

Derivation:

*MessageType* (restriction)   
   HierarchicalCodelistQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: HierarchicalCodelist QueryType |  |

**OrganisationSchemeQueryType:**OrganisationSchemeQueryType defines the structure of an organisation scheme query message.

Derivation:

*MessageType* (restriction)   
   OrganisationSchemeQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: OrganisationSchemeQu eryType |  |

**ReportingTaxonomyQueryType:**ReportingTaxonomyQueryType defines the structure of a reporting taxonomy query message.

Derivation:

*MessageType* (restriction)   
   ReportingTaxonomyQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: ReportingTaxonomyQue ryType |  |

**StructureSetQueryType:**StructureSetQueryType defines the structure of a structure set query message.

Derivation:

*MessageType* (restriction)   
   StructureSetQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: StructureSetQueryTyp e |  |

**ProcessQueryType:**CategorizationQueryType defines the structure of a categorization query message.

Derivation:

*MessageType* (restriction)   
   ProcessQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry:ProcessQueryType |  |

**CategorisationQueryType:**CategorisationQueryType defines the structure of a categorisation query message.

Derivation:

*MessageType* (restriction)   
   CategorisationQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: CategorisationQueryT ype |  |

**ProvisionAgreementQueryType:**ProvisionAgreementQueryType defines the structure of a provision agreement query message.

Derivation:

*MessageType* (restriction)   
   ProvisionAgreementQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: ProvisionAgreementQu eryType |  |

**ConstraintQueryType:**ConstraintQueryType defines the structure of a constraint query message.

Derivation:

*MessageType* (restriction)   
   ConstraintQueryType



Content:

Header, Query

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Header | BasicHeaderType |  |
| Query | qry: ConstraintQueryType |  |

**ErrorType:**ErrorType describes the structure of an error response.

Content:

ErrorMessage+

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ErrorMessage | com: CodedStatusMessageTy pe | ErrorMessage contains the error message. It can occur multiple times to communicate message for multiple errors, or to communicate the error message in parallel languages. If both messages for multiple errors and parallel language messages are used, then each error message should be given a code in order to distinguish message for unique errors. |

***BaseHeaderType*:**BaseHeaderType in an abstract base type that defines the basis for all message headers. Specific message formats will refine this

Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure\*, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, ReportingBegin?, ReportingEnd?, EmbargoDate?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | *com: PayloadStructureType* | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| ReportingBegin | com: ObservationalTimePer iodType | ReportingBegin provides the start of the time period covered by the message (in the case of data). |
| ReportingEnd | com: ObservationalTimePer iodType | ReportingEnd provides the end of the time period covered by the message (in the case of data). |
| EmbargoDate | xs:dateTime | EmbargoDate holds a time period before which the data included in this message is not available. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**StructureHeaderType:**StructureHeaderType defines the structure for structural metadata messages.

Derivation:

*BaseHeaderType* (restriction)   
   StructureHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**GenericDataHeaderType:**GenericDataHeaderType defines the header structure for a generic data message.

Derivation:

*BaseHeaderType* (restriction)   
   GenericDataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure+, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, ReportingBegin?, ReportingEnd?, EmbargoDate?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: GenericDataStructure Type | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| ReportingBegin | com: ObservationalTimePer iodType | ReportingBegin provides the start of the time period covered by the message (in the case of data). |
| ReportingEnd | com: ObservationalTimePer iodType | ReportingEnd provides the end of the time period covered by the message (in the case of data). |
| EmbargoDate | xs:dateTime | EmbargoDate holds a time period before which the data included in this message is not available. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**GenericTimeSeriesDataHeaderType:**GenericTimeSeriesDataHeaderType defines the header structure for a time series only generic data message.

Derivation:

*BaseHeaderType* (restriction)   
   GenericDataHeaderType (restriction)   
         GenericTimeSeriesDataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, ReportingBegin?, ReportingEnd?, EmbargoDate?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: GenericTimeSeriesDat aStructureType | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| ReportingBegin | com: ObservationalTimePer iodType | ReportingBegin provides the start of the time period covered by the message (in the case of data). |
| ReportingEnd | com: ObservationalTimePer iodType | ReportingEnd provides the end of the time period covered by the message (in the case of data). |
| EmbargoDate | xs:dateTime | EmbargoDate holds a time period before which the data included in this message is not available. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**StructureSpecificDataHeaderType:**StructureSpecificDataHeaderType defines the header structure for a structure specific data message.

Derivation:

*BaseHeaderType* (restriction)   
   StructureSpecificDataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure+, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, ReportingBegin?, ReportingEnd?, EmbargoDate?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: StructureSpecificDat aStructureType | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| ReportingBegin | com: ObservationalTimePer iodType | ReportingBegin provides the start of the time period covered by the message (in the case of data). |
| ReportingEnd | com: ObservationalTimePer iodType | ReportingEnd provides the end of the time period covered by the message (in the case of data). |
| EmbargoDate | xs:dateTime | EmbargoDate holds a time period before which the data included in this message is not available. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**StructureSpecificTimeSeriesDataHeaderType:**StructureSpecificTimeSeriesDataHeaderType defines the header structure for a time series only structure specific data message.

Derivation:

*BaseHeaderType* (restriction)   
   StructureSpecificDataHeaderType (restriction)   
         StructureSpecificTimeSeriesDataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure+, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, ReportingBegin?, ReportingEnd?, EmbargoDate?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: StructureSpecificDat aTimeSeriesStructure Type | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| ReportingBegin | com: ObservationalTimePer iodType | ReportingBegin provides the start of the time period covered by the message (in the case of data). |
| ReportingEnd | com: ObservationalTimePer iodType | ReportingEnd provides the end of the time period covered by the message (in the case of data). |
| EmbargoDate | xs:dateTime | EmbargoDate holds a time period before which the data included in this message is not available. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**GenericMetadataHeaderType:**GenericMetadataHeaderType defines the header format for generic reference metadata.

Derivation:

*BaseHeaderType* (restriction)   
   GenericMetadataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure+, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: GenericMetadataStruc tureType | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**StructureSpecificMetadataHeaderType:**StructureSpecificMetadataHeaderType defines the header format for metadata structure definition specific reference metadata messages.

Derivation:

*BaseHeaderType* (restriction)   
   StructureSpecificMetadataHeaderType



Content:

ID, Test, Prepared, Sender, Receiver\*, com:Name\*, Structure+, DataProvider?, DataSetAction?, DataSetID\*, Extracted?, Source\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |
| com:Name | com:TextType | Name provides a name for the transmission. Multiple instances allow for parallel language values. |
| Structure | com: StructureSpecificMet adataStructureType | Structure provides a reference to the structure (either explicitly or through a structure usage reference) that describes the format of data or reference metadata. In addition to the structure, it is required to also supply the namespace of the structure specific schema that defines the format of the data/metadata. For cross sectional data, additional information is also required to state which dimension is being used at the observation level. This information will allow the structure specific schema to be generated. For generic format messages, this is used to simply reference the underlying structure. It is not mandatory in these cases and the generic data/metadata sets will require this reference explicitly. |
| DataProvider | com: DataProviderReferenc eType | DataProvider identifies the provider of the data for a data/reference metadata message. |
| DataSetAction | com:ActionType | DataSetAction code provides a code for determining whether the enclosed message is an Update or Delete message (not to be used with the UtilityData message). |
| DataSetID | com:IDType | DataSetID provides an identifier for a contained data set. |
| Extracted | xs:dateTime | Extracted is a time-stamp from the system rendering the data. |
| Source | com:TextType | Source provides human-readable information about the source of the data. |

**BasicHeaderType:**BasicHeaderType defines the most basic header information used in simple message exchanges.

Derivation:

*BaseHeaderType* (restriction)   
   BasicHeaderType



Content:

ID, Test, Prepared, Sender, Receiver

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| ID | com:IDType | ID identifies an identification for the message, assigned by the sender. |
| Test | xs:boolean | Test indicates whether the message is for test purposes or not. |
| Prepared | HeaderTimeType | Prepared is the date the message was prepared. |
| Sender | SenderType | Sender is information about the party that is transmitting the message. |
| Receiver | PartyType | Receiver is information about the party that is the intended recipient of the message. |

**PartyType:**PartyType defines the information which is sent about various parties such as senders and receivers of messages.

Attributes:

id

Content:

com:Name\*, Contact\*

Attribute Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| id | com:IDType | The id attribute holds the identification of the party. |

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| com:Name | com:TextType | Name is a human-readable name of the party. |
| Contact | ContactType | Contact provides contact information for the party in regard to the transmission of the message. |

**SenderType:**SenderType extends the basic party structure to add an optional time zone declaration.

Derivation:

PartyType (extension)   
   SenderType



Attributes:

id

Content:

com:Name\*, Contact\*, Timezone?

Attribute Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| id | com:IDType | The id attribute holds the identification of the party. |

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| com:Name | com:TextType | Name is a human-readable name of the party. |
| Contact | ContactType | Contact provides contact information for the party in regard to the transmission of the message. |
| Timezone | com:TimezoneType | Timezone specifies the time zone of the sender, and if specified can be applied to all un-time zoned time values in the message. In the absence of this, any dates without time zone are implied to be in an indeterminate "local time". |

**ContactType:**ContactType provides defines the contact information about a party.

Content:

com:Name\*, Department\*, Role\*, (Telephone | Fax | X400 | URI | Email)\*

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| com:Name | com:TextType | Name contains a human-readable name for the contact. |
| Department | com:TextType | Department is designation of the organisational structure by a linguistic expression, within which the contact person works. |
| Role | com:TextType | Role is the responsibility of the contact person with respect to the object for which this person is the contact. |
| Telephone | xs:string | Telephone holds the telephone number for the contact person. |
| Fax | xs:string | Fax holds the fax number for the contact person. |
| X400 | xs:string | X400 holds the X.400 address for the contact person. |
| URI | xs:anyURI | URI holds an information URL for the contact person. |
| Email | xs:string | Email holds the email address for the contact person. |

### Simple Types

**HeaderTimeType:**Provides a union type of xs:date and xs:dateTime for the header fields in the message.

Union of:

xs:dateTime, xs:date.

## Message Footer Namespace

**http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/message/footer**

### Summary

Referenced Namespaces:

| **Namespace** | **Prefix** |
| --- | --- |
| http://www.sdmx.org/resources/sdmxml/schemas/v2\_1/common | com |
| http://www.w3.org/2001/XMLSchema | xs |

Contents:

1 Global Element  
2 Complex Types  
1 Simple Type

### Global Elements

**Footer (FooterType)**: Footer is used to communicate information such as error and warnings after the payload of a message.

### Complex Types

**FooterType**: FooterType describes the structure of a message footer. The footer is used to convey any error, information, or warning messages. This is to be used when the message has payload, but also needs to communicate additional information. If an error occurs and no payload is generated, an Error message should be returned.

Content:

Message+

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| Message | FooterMessageType | Message contains a single error, information, or warning message. A code is provided along with an optional severity. The text of the message can be expressed in multiple languages. |

**FooterMessageType**: FooterMessageType defines the structure of a message that is contained in the footer of a message. It is a status message that have a severity code of Error, Information, or Warning added to it.

Derivation:

com:StatusMessageType (restriction)   
   com:CodedStatusMessageType (extension)   
         FooterMessageType



Attributes:

code, severity?

Content:

com:Text+

Attribute Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| code | xs:string | The code attribute holds an optional code identifying the underlying error that generated the message. This should be used if parallel language descriptions of the error are supplied, to distinguish which of the multiple error messages are for the same underlying error. |
| severity | SeverityCodeType |  |

Element Documentation:

| **Name** | **Type** | **Documentation** |
| --- | --- | --- |
| com:Text | com:TextType | Text contains the text of the message, in parallel language values. |

### Simple Types

**SeverityCodeType**:

Derived by restriction of xs:string .