



UN/CEFACT

Simple, Transparent and Effective Processes
For Global Commerce

REQUIREMENTS SPECIFICATION MAPPING (RSM)

Business Domain

Environmental Management

Business Process

Waste Movement

Title

Transboundary Movements of Waste (TMW)

UN/CEFACT Programme Development Area

Regulatory

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DOCUMENT SUMMARY

Document Item	Value
Title	Requirements Specification Mapping Transboundary Movements of Waste
Date Last Modified	02-Apr-2013
Version	0.01
Description (one sentence summary)	Specification of the data model and targeted technology solutions for the electronic interchange of transboundary movements of waste related data as defined by the Basel Convention, http://www.basel.int .

CONTRIBUTORS

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CHANGE LOG

Version	Date	Author	Summary
V0.01	02-Apr-2013	NP	Draft completed.

REFERENCES

1. Basel Convention on the Control of Transboundary Movements of Hazardous Waste and their Disposal, <http://www.basel.int>
2. Transboundary Movements of Waste, Business Requirements Specification, Version 1.0, Release 1

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1 PURPOSE AND SCOPE

With transboundary movements of waste there is the risk of adverse effects to human health and the environment.

The *Basel Convention on the Control of Transboundary Movements of Hazardous Waste and their Disposal* has been adopted on 22 March 1989 as an international regulatory framework addressing these risks. As of early 2013, 180 countries are party to the convention. The procedures laid down in the Basel Convention and in related legal instruments, such as OECD Decision C(2001)107/FINAL and EU regulation 1013/2006, rely heavily on the exchange of information, both *administration to administration* and *business to administration*.

The purpose of this document is to describe the mapping of Business Requirements, as specified in the TMW Business Requirements Specification document, to UN/CEFACT compliant data structures and data formats.

2 TARGET TECHNOLOGY SOLUTION

The Transboundary Movements of Waste (TMW) solution target technology is **XML Schema**.

The Transboundary Movements of Waste (TMW) solution will not be implemented as a UN/EDIFACT message.

3 BUSINESS REQUIREMENTS SUMMARY

3.1 Business Processes, Information Envelopes and Authorised Roles

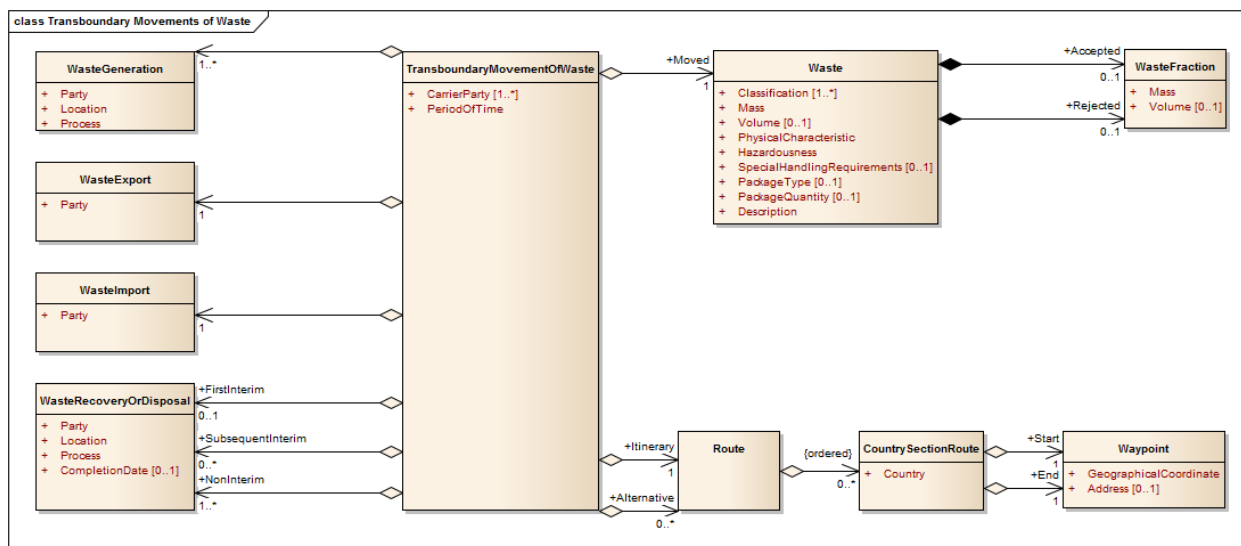
Information Envelope Name	UMM Business Transaction Name	Authorised Role Requester Name	Authorised Role Responder Name	Collaboration Requirements Name	Collaboration Realisation Name
Certificate of Waste Receipt	Notify Waste Receipt	Information Provider	Information Consumer	Inform on Waste Movement	Inform on Waste Movement
Certificate of Waste Recovery or Disposal	Notify Waste Recovery Disposal	Information Provider	Information Consumer	Inform on Waste Movement	Inform on Waste Movement
Notification Submission	Request Waste Movement Consent	Information Provider	Information Consumer	Inform on Waste Movement	Inform on Waste Movement
Notification Decision	Disseminate Authority Decision	Information Provider	Information Consumer	Inform on Waste Movement	Inform on Waste Movement
Movement Announcement	Announce Waste Movement	Information Provider	Information Consumer	Inform on Waste Movement	Inform on Waste Movement

3.2 Business Partner Types and Authorised Roles

Authorised Role Name	Business Partner Type Name
Information Provider	Information Consumer
Notifier	Information Consumer
Competent Authority of Dispatch	Information Consumer

Competent Authority of Transit	Information Consumer
Competent Authority of Destination	Information Consumer
Consignee	Information Consumer
Facility	Information Consumer

3.3 Conceptual Data Model



4 INFORMATION MAPPING

4.1 Referenced CCL

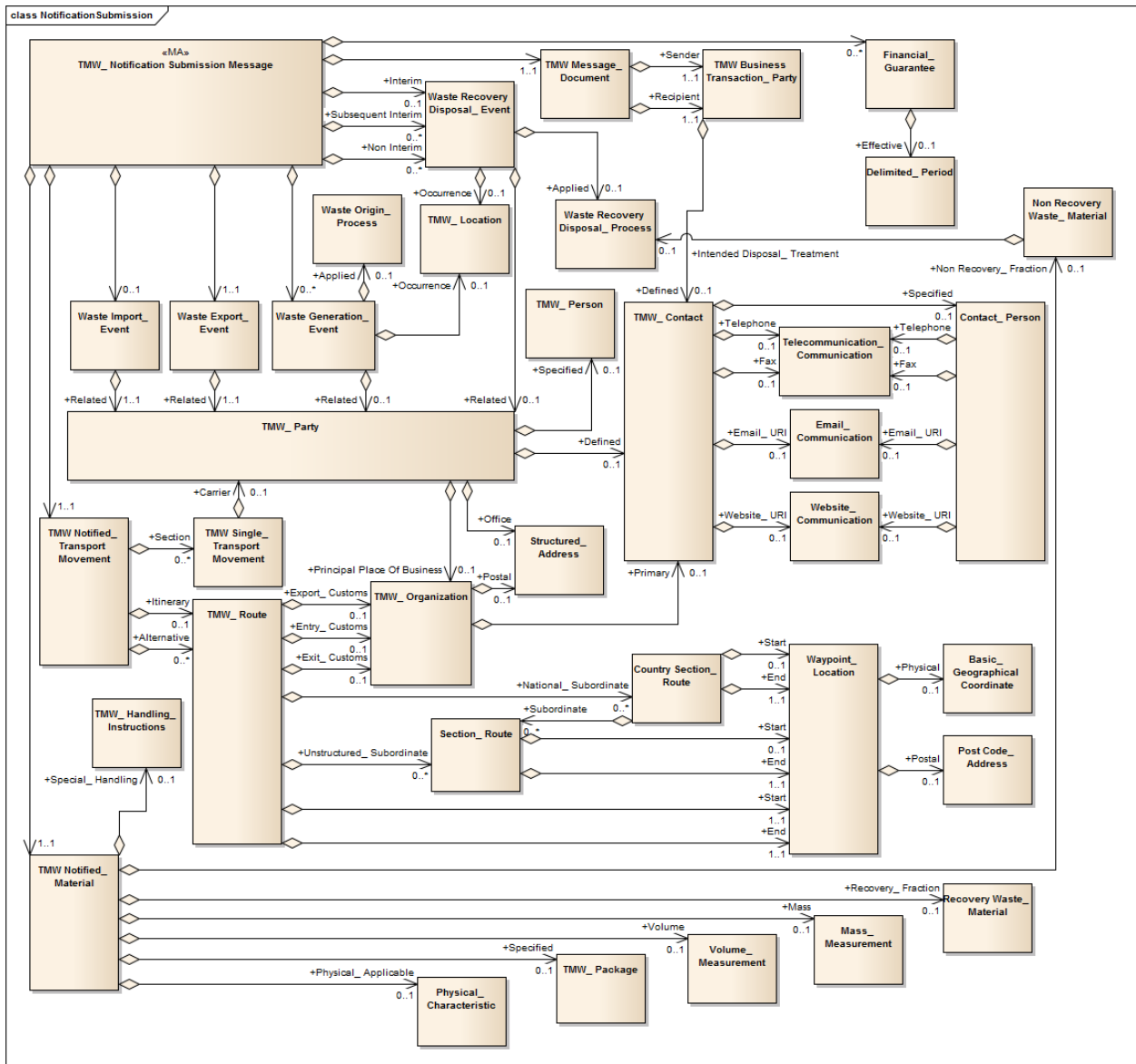
99 Core Components and 276 Business Information Entities for Transboundary Movements of Waste (TMW) have been submitted based on the **D08B** release of the UN/CEFACT Core Component Library. They became part of the D09B release.

For the remainder of the Transboundary Movements of Waste (TMW) submission – 2 Core Components, 12 Business Information Entities and Message Assembly – release **D12B** of the UN/CEFACT Core Component Library is the reference.

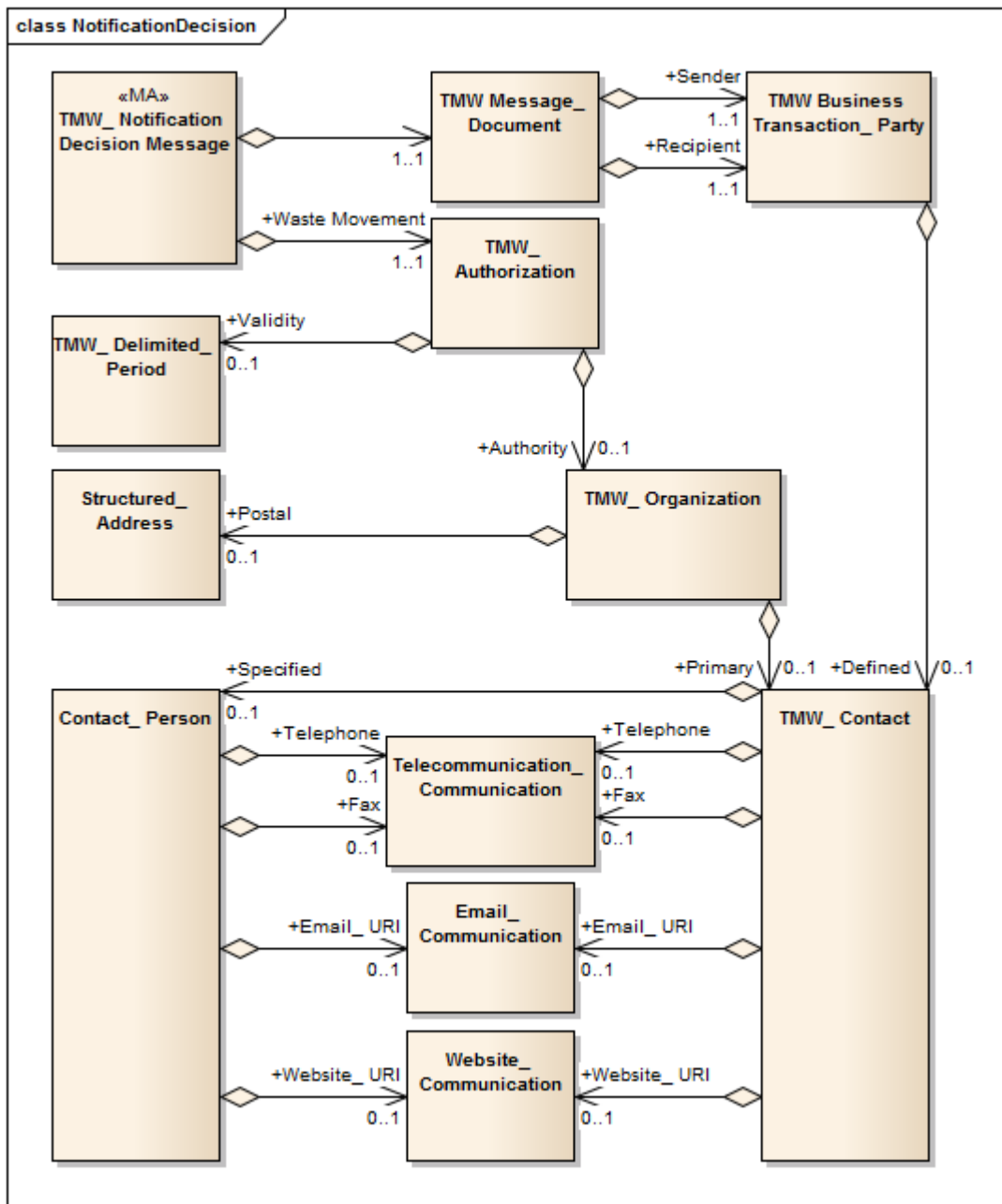
4.2 Business Information Entity Model

4.2.1 UML Class Diagrams

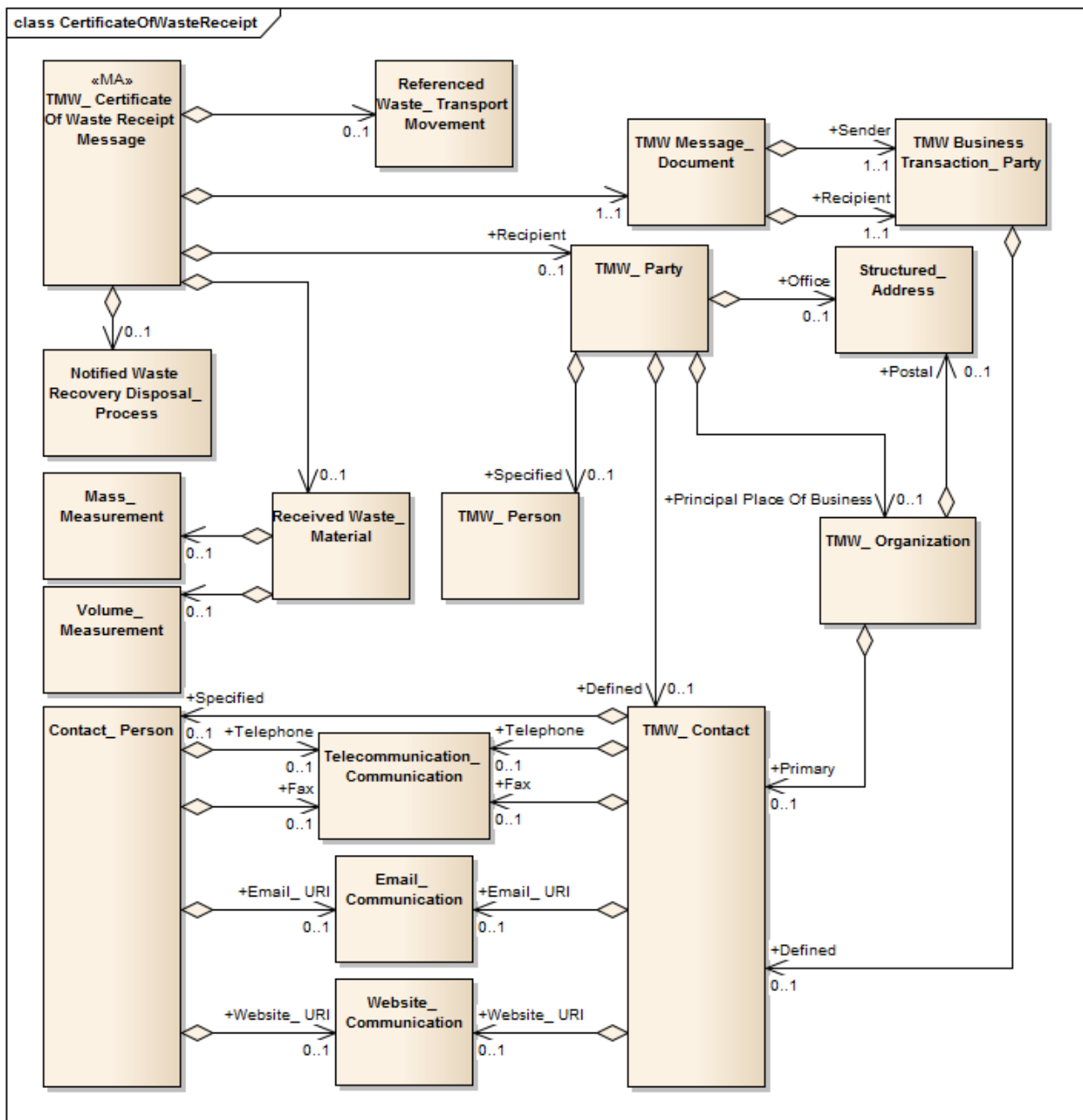
4.2.1.1 Notification Submission



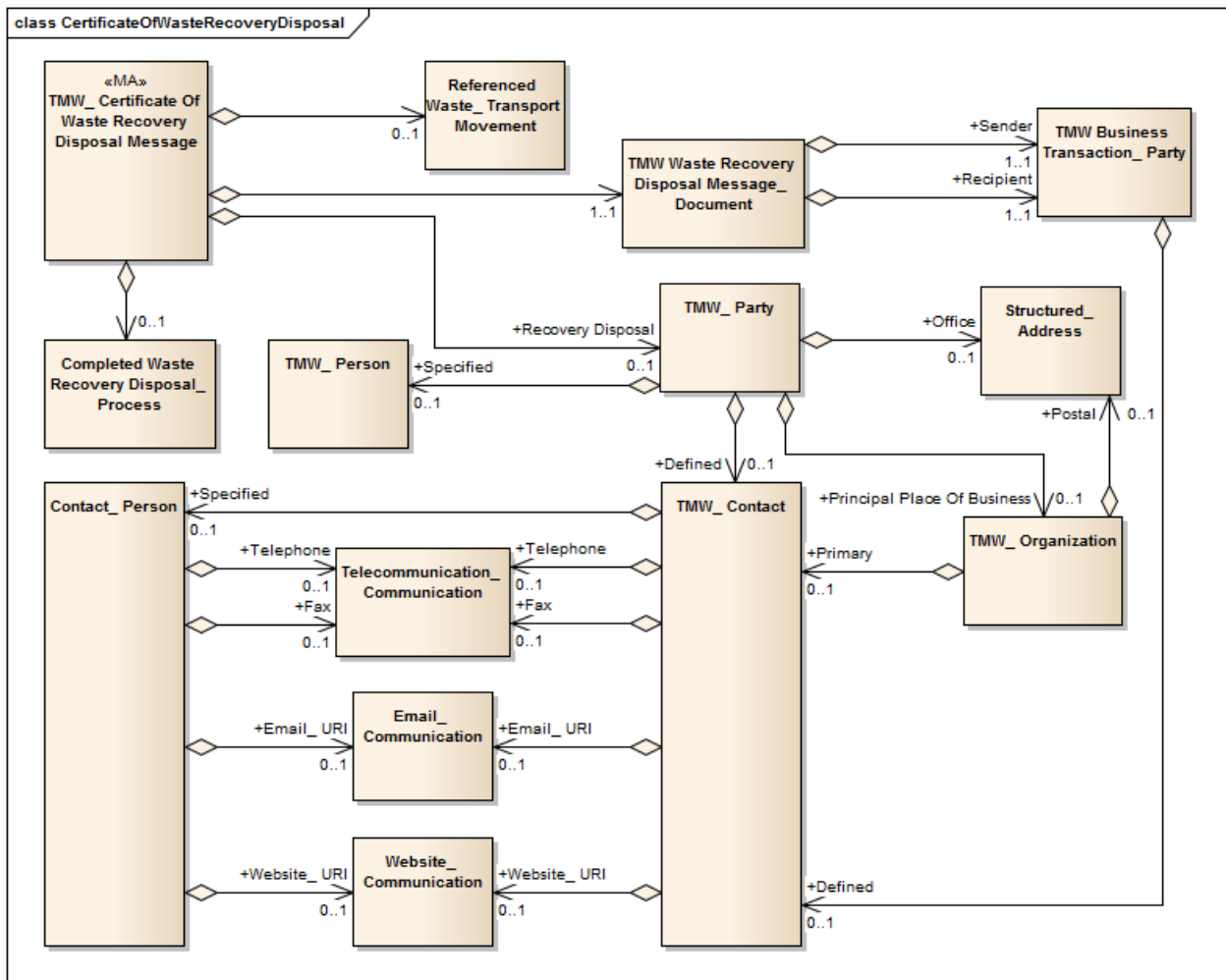
4.2.1.2 Notification Decision



4.2.1.4 Certificate of Waste Receipt



4.2.1.5 Certificate of Waste Recovery or Disposal



4.2.2 Description

Type Occ. Name/Definition

ABIE		Announced_Package. Details
		Any self-contained wrapping or container as announced, such as a box or a barrel.
BBIE	0..1	Announced_Package. Item. Quantity
		The number of packages announced.
BBIE	0..*	Announced_Package. Type. Code
		A code specifying a type of announced package.
BBIE	0..1	Announced_Package. Description. Text
		The textual description of this announced package.
ABIE		Basic_Geographical Coordinate. Details
		The latitude, longitude, and altitude of a place, by which its relative situation on the globe is known.
BBIE	0..1	Basic_Geographical Coordinate. Altitude. Measure
		The measure of the altitude that reflects the vertical elevation relative to a surface of an object for this basic geographical coordinate.
BBIE	1..1	Basic_Geographical Coordinate. Latitude. Measure
		The measure of the latitude as an angular distance in degrees north or south from the Equator meridian to the meridian of a specific place for this basic geographical coordinate.
BBIE	1..1	Basic_Geographical Coordinate. Longitude. Measure
		The measure of the longitude as an angular distance in degrees east or west from the Greenwich meridian to the meridian of a specific place for this basic geographical coordinate.

Type	Occ.	Name/Definition
ABIE		Cancelled_ Document. Details A collection of data that is relevant to a cancelled document.
BBIE	1..1	Cancelled_ Document. Identification. Identifier The unique identifier of the cancelled document.
BBIE	0..1	Cancelled_ Document. Cancellation Reason. Code The code specifying the reason for the cancellation of the cancelled document.
BBIE	0..1	Cancelled_ Document. Cancellation Reason. Text The cancellation reason, expressed as text, for the cancelled document.
ABIE		Completed Waste Recovery Disposal_ Process. Details A completed process of either regaining substances in usable form, or of getting rid of substances.
BBIE	0..*	Completed Waste Recovery Disposal_ Process. Type. Code A code specifying a type of completed waste recovery disposal process.
BBIE	0..1	Completed Waste Recovery Disposal_ Process. Description. Text The textual description of this completed waste recovery disposal process.
BBIE	0..1	Completed Waste Recovery Disposal_ Process. End. Date Time The end date for this completed waste recovery disposal process.
ABIE		Contact_ Person. Details An individual human being in a position to give assistance or information.
BBIE	0..1	Contact_ Person. Title. Text The textual expression of the title associated with this contact person, such as Doctor.
BBIE	1..1	Contact_ Person. Given Name. Text The name, expressed as text, given to this contact person, usually by parents at birth.
BBIE	0..1	Contact_ Person. Middle Name. Text The middle name, expressed as text, of this contact person, usually given by parents at birth.
BBIE	0..1	Contact_ Person. Family Name Prefix. Text The prefix, expressed as text, that precedes this contact person's family name, such as Van, Von.
BBIE	1..1	Contact_ Person. Family Name. Text The name, expressed as text, that this contact person shares with members of his/her family.
BBIE	0..1	Contact_ Person. Name Suffix. Text The suffix, expressed as text, that follows this contact person's name, such as Junior, Third.
BBIE	0..1	Contact_ Person. Gender. Code The code specifying the gender of this contact person.
ASBIE	0..1	Contact_ Person. Telephone. Telecommunication_ Communication Telephone communication information for this contact person.
ASBIE	0..1	Contact_ Person. Fax. Telecommunication_ Communication Facsimile communication information for this contact person.
ASBIE	0..1	Contact_ Person. Email_ URI. Email_ Communication The email Uniform Resource Identifier (URI) communication for this contact person.
ASBIE	0..1	Contact_ Person. Website_ URI. Website_ Communication The website Uniform Resource Identifier (URI) communication for this contact person.
ABIE		Country Section_ Route. Details A section of a way taken from one place to another that lies within the borders of one country only.
BBIE	0..1	Country Section_ Route. Description. Text The textual description of this country route section.
BBIE	0..1	Country Section_ Route. Distance. Measure The measure of the distance of this country route section.
ASBIE	0..1	Country Section_ Route. Start. Waypoint_ Location The starting location for this country route section.
ASBIE	1..1	Country Section_ Route. End. Waypoint_ Location The ending location for this country route section.
ASBIE	0..*	Country Section_ Route. Subordinate. Section_ Route A subsection of this country route section.

Type	Occ.	Name/Definition
ABIE		Email_ Communication. Details An address for the delivery of electronic mail.
BBIE	1..1	Email_ Communication. Email_ URI. Identifier The Uniform Resource Identifier (URI) for this email communication.
ABIE		Financial_ Guarantee. Details An official promise or assurance to fulfil a financial obligation.
BBIE	0..1	Financial_ Guarantee. Description. Text The textual description of this financial guarantee.
BBIE	1..1	Financial_ Guarantee. Liability. Amount The monetary value of the liability in this financial guarantee.
ASBIE	0..1	Financial_ Guarantee. Effective. Delimited_ Period The period within which this financial guarantee is effective.
ABIE		Identified_ Referenced_ Document. Details The identification of a referenced collection of written, printed or electronic data that provides information or evidence.
BBIE	1..1	Identified_ Referenced_ Document. Identification. Identifier The unique identifier for this identified, referenced document.
ABIE		Information_ Query. Details A request for information.
BBIE	1..1	Information_ Query. Content. Text Content, expressed as text, for this information query.
ABIE		Mass_ Measurement. Details A measurement of the mass of some physical matter.
BBIE	1..1	Mass_ Measurement. Value. Measure The value of the measure for this mass measurement.
BBIE	0..1	Mass_ Measurement. Quantification Type. Code The code specifying the type of quantification for this mass measurement, such as calculated or estimated.
ABIE		Non Recovery Waste_ Material. Details Waste material that will not be recovered.
BBIE	0..1	Non Recovery Waste_ Material. Treatment Cost. Amount The monetary value of the cost of treatment for this non recovery waste material.
ASBIE	0..1	Non Recovery Waste_ Material. Intended Disposal_ Treatment. Waste Recovery Disposal_ Process The disposal process intended for this non recovery waste material.
ABIE		Notified Waste Recovery Disposal_ Process. Details A notified process of either regaining substances in usable form, or of getting rid of substances.
BBIE	0..*	Notified Waste Recovery Disposal_ Process. Type. Code A code specifying a type of notified waste recovery or disposal process.
BBIE	0..1	Notified Waste Recovery Disposal_ Process. Description. Text The textual description of this notified waste recovery or disposal process.
BBIE	0..1	Notified Waste Recovery Disposal_ Process. Start. Date Time The start date of this notified waste recovery or disposal process.
ABIE		Physical_ Characteristic. Details A prominent physical attribute or aspect.
BBIE	0..*	Physical_ Characteristic. Type. Code A code specifying a type of physical characteristic, such as powdery, sludge-like or liquid.
BBIE	0..1	Physical_ Characteristic. Description. Text The textual description of this physical characteristic.
ABIE		Post Code_ Address. Details A postal delivery area identified by post code.
BBIE	1..1	Post Code_ Address. Postcode. Code The postcode of this address.

Type	Occ.	Name/Definition
BBIE	1..1	Post Code_ Address. Country. Identifier The unique identifier of the country for this post code address.
ABIE		Received Waste_ Material. Details Waste material received out of a transport movement.
BBIE	0..1	Received Waste_ Material. Receipt. Date Time The date of the receipt of this waste material.
BBIE	0..1	Received Waste_ Material. Rejection. Indicator The indication of whether or not this waste material is rejected by the recipient.
BBIE	0..1	Received Waste_ Material. Rejection Reason. Text The reason or reasons, expressed as text, for rejection of this waste material by the recipient.
ASBIE	0..1	Received Waste_ Material. Mass. Mass_ Measurement The mass measurement of this received waste material.
ASBIE	0..1	Received Waste_ Material. Volume. Volume_ Measurement The volume measurement of this received waste material.
ABIE		Recovery Waste_ Material. Details Waste material designated to undergo a process whereby it is regained in usable form.
BBIE	0..1	Recovery Waste_ Material. Mass Ratio. Measure The mass ratio measure of the waste material destined for recovery in relation to the total mass of waste.
BBIE	0..1	Recovery Waste_ Material. Volume Ratio. Measure The volume ratio measure of the waste material destined for recovery in relation to the total volume of waste.
BBIE	0..1	Recovery Waste_ Material. Estimated_ Value. Amount The estimated monetary value of this recovery waste material.
BBIE	0..1	Recovery Waste_ Material. Treatment Cost. Amount The monetary value of the cost of treatment for this recovery waste material.
ABIE		Referenced Waste_ Transport Movement. Details A reference to a conveyance of unused or unwanted physical matter from one place to another.
BBIE	0..1	Referenced Waste_ Transport Movement. Sequence. Numeric The sequence number for this referenced waste transport movement.
BBIE	0..1	Referenced Waste_ Transport Movement. Notification. Identifier The unique identifier of the notification for this referenced waste transport movement, such as a notification of competent authorities about a planned movement of waste.
ABIE		Section_ Route. Details A section of a way or course taken from one location to another.
BBIE	0..1	Section_ Route. Description. Text The textual description of this route section.
BBIE	0..1	Section_ Route. Distance. Measure The measure of the distance of this route section.
ASBIE	0..1	Section_ Route. Start. Waypoint_ Location The starting location for this route section.
ASBIE	1..1	Section_ Route. End. Waypoint_ Location The ending location for this route section.
ABIE		Specific_ Issue. Details A specific topic for debate or resolution.
BBIE	0..1	Specific_ Issue. Type. Code The code specifying the type of specific issue.
BBIE	0..1	Specific_ Issue. Severity. Code The code specifying the severity of this specific issue.
BBIE	0..1	Specific_ Issue. Description. Text The textual description of this specific issue.
ABIE		Structured_ Address. Details The location at which a particular organization may be found or reached.

Type	Occ.	Name/Definition
BBIE	0..1	Structured_Address. Identification. Identifier The unique identifier in the structured address.
BBIE	0..1	Structured_Address. Postcode. Code The code specifying the postcode in the structured address.
BBIE	0..1	Structured_Address. Building Name. Text The name, expressed as text, of a building, a house or other structure on a street in the structured address.
BBIE	0..1	Structured_Address. Street Name. Text The name, expressed as text, of a street or thoroughfare in the structured address.
BBIE	0..1	Structured_Address. City Name. Text The name, expressed as text, of the city, town or village in the structured address.
BBIE	1..1	Structured_Address. Country. Identifier The unique identifier of a country in the structured address (Reference ISO 3166 and UN/ECE Rec 3).
BBIE	0..1	Structured_Address. City Sub-Division Name. Text A name, expressed as text, of a sub-division of a city for this address, for example a district or borough.
BBIE	0..1	Structured_Address. Country Name. Text The name, expressed as text, of the country in the structured address.
BBIE	0..1	Structured_Address. Country Sub-Division Name. Text The name, expressed as text, of the sub-division of a country in the structured address.
BBIE	0..1	Structured_Address. Block Name. Text The block name, expressed as text, for an area surrounded by streets and usually containing several buildings for this address.
BBIE	0..1	Structured_Address. Plot Identification. Text The identification, expressed as text, of the plot for this structured address.
BBIE	0..1	Structured_Address. Post Office Box. Text The unique identifier, expressed as text, of a container commonly referred to as a box, in a post office or other postal service location, where postal items may be kept for this structured address.
BBIE	0..1	Structured_Address. Building Number. Text The number, expressed as text, of a building or house on a street at this structured address.
BBIE	0..1	Structured_Address. Staircase Number. Text The number, expressed as text, of a staircase for this structured address.
BBIE	0..1	Structured_Address. Floor Identification. Text The identification by name or number, expressed as text, of the floor in a building as part of this structured address.
BBIE	0..1	Structured_Address. Room Identification. Text The identification, expressed as text, of a room, suite, office or apartment as part of this structured address.
ABIE		TMW Acknowledged Message_Document. Details A collection of data that is relevant to Transboundary Movements of Waste (TMW), transmitted electronically from one point of communication to another, and acknowledged by the recipient.
BBIE	1..1	TMW Acknowledged Message_Document. Identification. Identifier The unique identifier of the TMW acknowledged message document.
BBIE	1..1	TMW Acknowledged Message_Document. Preliminary_ Identification. Identifier The preliminary unique identifier of the TMW acknowledged message document.
BBIE	0..1	TMW Acknowledged Message_Document. Type. Code The code specifying the type of TMW acknowledged message document.
BBIE	1..1	TMW Acknowledged Message_Document. Status. Code The code specifying the status of the TMW acknowledged message document, such as accepted or rejected.
BBIE	0..1	TMW Acknowledged Message_Document. Rejection Reason. Text The reason, expressed as text, for the rejection of the TMW acknowledged message document.
ASBIE	0..1	TMW Acknowledged Message_Document. Sender. TMW Business Transaction_Party The party that sends the TMW acknowledged message document.
ASBIE	0..1	TMW Acknowledged Message_Document. Recipient. TMW Business Transaction_Party The party that receives the TMW acknowledged message document.

Type	Occ.	Name/Definition
ABIE		TMW Acknowledged Notification_ Document. Details A collection of data for a piece of written, printed or electronic matter that provides notification information, is acknowledged by the recipient, and is relevant to Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW Acknowledged Notification_ Document. Identification. Identifier The identifier for this TMW acknowledged notification document.
BBIE	0..1	TMW Acknowledged Notification_ Document. Receipt. Date Time The date of the formal receipt of this TMW acknowledged notification document.
BBIE	0..1	TMW Acknowledged Notification_ Document. Acceptance. Date Time The date of the acceptance of this TMW acknowledged notification document.
ASBIE	0..1	TMW Acknowledged Notification_ Document. Acknowledging. TMW_ Organization The organization that acknowledges this TMW notification document.
ABIE		TMW Announced_ Material. Details Material announced for Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW Announced_ Material. Name. Text The name, expressed as text, of this TMW announced material.
BBIE	0..1	TMW Announced_ Material. Composition Description. Text The textual description of the composition of this TMW announced material.
BBIE	0..*	TMW Announced_ Material. Type. Code A code specifying a type of TMW announced material.
BBIE	0..1	TMW Announced_ Material. Special Handling Requirement. Indicator The indication of whether or not special handling is required for this TMW announced material.
ASBIE	0..1	TMW Announced_ Material. Mass. Mass_ Measurement The measurement of the mass of this TMW announced material.
ASBIE	0..1	TMW Announced_ Material. Volume. Volume_ Measurement The measurement of the volume of this TMW announced material.
ASBIE	0..1	TMW Announced_ Material. Physical_ Applicable. Physical_ Characteristic The physical characteristic applicable to this TMW announced material.
ASBIE	0..1	TMW Announced_ Material. Specified. Announced_ Package The package specified for this TMW announced material.
ASBIE	0..1	TMW Announced_ Material. Special_ Handling. TMW_ Handling_ Instructions Special handling instructions for this TMW announced material.
ABIE		TMW Announced_ Transport Movement. Details One or more announced conveyances of unused or unwanted physical matter from one place to another for Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW Announced_ Transport Movement. Sequence. Numeric The sequence number for this TMW announced transport movement.
BBIE	0..1	TMW Announced_ Transport Movement. Total. Quantity The total number of TMW announced transport movements.
BBIE	0..1	TMW Announced_ Transport Movement. Notification. Identifier The unique identifier of a notification for this TMW announced transport movement, such as a notification of competent authorities.
BBIE	0..1	TMW Announced_ Transport Movement. Start. Date Time The date for the start of this TMW announced transport movement.
ASBIE	0..1	TMW Announced_ Transport Movement. Itinerary. TMW_ Route The route taken for this TMW announced transport movement.
ASBIE	0..*	TMW Announced_ Transport Movement. Alternative. TMW_ Route An alternative route to be taken for the carriage of waste in this TMW announced transport movement, such as for unforeseen events like a road block on the main route.
ASBIE	0..*	TMW Announced_ Transport Movement. Section. TMW Single_ Transport Movement A single transport movement that is a section of this TMW announced transport movement.
ABIE		TMW Business Transaction_ Party. Details An individual, a group, or a body with a role in a business transaction for Transboundary Movements of Waste (TMW).

Type	Occ.	Name/Definition
BBIE	1..*	TMW Business Transaction_ Party. Identification. Identifier A unique identifier of this TMW business transaction party.
BBIE	1..1	TMW Business Transaction_ Party. Role. Code The code specifying the role of this TMW business transaction party.
ASBIE	0..1	TMW Business Transaction_ Party. Defined. TMW_ Contact The defined contact for this TMW business transaction party.
ABIE		TMW Notified_ Material. Details Material notified to competent authorities due to intended Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW Notified_ Material. Name. Text The name, expressed as text, of this TMW notified material.
BBIE	0..1	TMW Notified_ Material. Composition Description. Text The textual description of the composition of this TMW notified material.
BBIE	0..*	TMW Notified_ Material. Type. Code A code specifying a type of TMW notified material.
BBIE	0..1	TMW Notified_ Material. Special Handling Requirement. Indicator The indication of whether or not special handling is required for this TMW notified material.
BBIE	0..1	TMW Notified_ Material. Estimated Minimum_ Mass. Measure The estimated minimum mass measure of this TMW notified material.
BBIE	0..1	TMW Notified_ Material. Estimated Maximum_ Mass. Measure The estimated maximum mass measure of this TMW notified material.
BBIE	0..1	TMW Notified_ Material. Estimated Minimum_ Volume. Measure The estimated minimum volume measure of this TMW notified material.
BBIE	0..1	TMW Notified_ Material. Estimated Maximum_ Volume. Measure The estimated maximum volume measure of this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Mass. Mass_ Measurement The mass measurement of this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Volume. Volume_ Measurement The volume measurement of this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Physical_ Applicable. Physical_ Characteristic The physical characteristic applicable to this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Specified. TMW_ Package The package specified for this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Special_ Handling. TMW_ Handling_ Instructions Special handling instructions for this TMW notified material.
ASBIE	0..1	TMW Notified_ Material. Recovery_ Fraction. Recovery Waste_ Material The fraction of this TMW notified material that is destined for recovery.
ASBIE	0..1	TMW Notified_ Material. Non Recovery_ Fraction. Non Recovery Waste_ Material The fraction of this TMW notified material that is not destined for recovery.
ABIE		TMW Notified_ Transport Movement. Details One or more intended conveyances of unused or unwanted physical matter from one place to another, notified to competent authorities for Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW Notified_ Transport Movement. Total. Quantity The total number of TMW notified transport movements.
BBIE	0..1	TMW Notified_ Transport Movement. Notification. Identifier The unique identifier of the notification for this TMW transport movement, such as a notification of competent authorities.
BBIE	0..1	TMW Notified_ Transport Movement. Reason. Text The reason, expressed as text, for this TMW notified transport movement.
BBIE	0..1	TMW Notified_ Transport Movement. First_ Start. Date Time The date for the start of the first TMW notified transport movement.
BBIE	0..1	TMW Notified_ Transport Movement. Last_ Start. Date Time The date for the start of the last TMW notified transport movement.
ASBIE	0..1	TMW Notified_ Transport Movement. Itinerary. TMW_ Route

Type	Occ.	Name/Definition
		The route taken for the carriage of waste in this TMW notified transport movement.
ASBIE	0..*	TMW Notified_ Transport Movement. Alternative. TMW_ Route An alternative route to be taken for the carriage of waste in this TMW notified transport movement, such as for unforeseen events like a road block on the main route.
ASBIE	0..*	TMW Notified_ Transport Movement. Section. TMW Single_ Transport Movement A single transport movement that is a section of this TMW notified transport movement.
ABIE		TMW Single_ Transport Movement. Details A conveyance of physical matter from one place to another conducted by one carrier for Transboundary Movements of Waste (TMW).
BBIE	0..*	TMW Single_ Transport Movement. Mode. Code A code specifying a mode of transport, such as rail or road, for this TMW single transport movement.
ASBIE	0..1	TMW Single_ Transport Movement. Carrier. TMW_ Party The carrier party in this TMW single transport movement.
ABIE		TMW Waste Recovery Disposal Message_ Document. Details A waste recovery or disposal related collection of data that is relevant to Transboundary Movements of Waste (TMW) and transmitted electronically from one point of communication to another.
BBIE	1..1	TMW Waste Recovery Disposal Message_ Document. Preliminary_ Identification. Identifier The preliminary unique identifier of this TMW waste recovery disposal message document.
BBIE	1..1	TMW Waste Recovery Disposal Message_ Document. Type. Code The code specifying the type of TMW waste recovery disposal message document.
BBIE	0..*	TMW Waste Recovery Disposal Message_ Document. Attachment. Binary Object A binary attachment to this TMW waste recovery disposal message document.
ASBIE	1..1	TMW Waste Recovery Disposal Message_ Document. Sender. TMW Business Transaction_ Party The party that sends this TMW waste recovery disposal message document.
ASBIE	1..1	TMW Waste Recovery Disposal Message_ Document. Recipient. TMW Business Transaction_ Party The party that receives this TMW waste recovery disposal message document.
ABIE		TMW Message_ Document. Details A waste movement related collection of data that is relevant to Transboundary Movements of Waste (TMW) and transmitted electronically from one point of communication to another.
BBIE	1..1	TMW Message_ Document. Preliminary_ Identification. Identifier The preliminary unique identifier of this TMW message document.
BBIE	0..*	TMW Message_ Document. Attachment. Binary Object A binary attachment to this TMW message document.
ASBIE	1..1	TMW Message_ Document. Sender. TMW Business Transaction_ Party The party that sends this TMW message document.
ASBIE	1..1	TMW Message_ Document. Recipient. TMW Business Transaction_ Party The party that receives this TMW message document.
ABIE		TMW_ Authorization. Details An official permission or approval of a Transboundary Movement of Waste (TMW).
BBIE	1..1	TMW_ Authorization. Granted. Indicator The indication of whether or not this TMW authorization is granted.
BBIE	0..1	TMW_ Authorization. Condition. Text The conditions, expressed as text, for this TMW authorization.
BBIE	0..1	TMW_ Authorization. Objection. Text The objections, expressed as text, to this TMW authorization.
BBIE	0..1	TMW_ Authorization. Decision. Date Time The date of the decision regarding this TMW authorization.
BBIE	1..1	TMW_ Authorization. Subject. Identifier The unique identifier of the subject of this TMW authorization.
ASBIE	0..1	TMW_ Authorization. Authority. TMW_ Organization The authority organization for this TMW authorization.
ASBIE	0..1	TMW_ Authorization. Validity. TMW_ Delimited_ Period The period of time within which this TMW authorization is valid.

Type	Occ.	Name/Definition
ABIE		TMW_Contact. Details A point of contact for a person or department for Transboundary Movements of Waste (TMW).
ASBIE	0..1	TMW_Contact. Telephone. Telecommunication_Communication Telephone communication information for this TMW contact.
ASBIE	0..1	TMW_Contact. Fax. Telecommunication_Communication Fax communication information for this TMW contact.
ASBIE	0..1	TMW_Contact. Email_URI. Email_Communication The email address for this TMW contact.
ASBIE	0..1	TMW_Contact. Website_URI. Website_Communication The website address for this TMW contact.
ASBIE	0..1	TMW_Contact. Specified. Contact_Person The contact person for this TMW contact.
ABIE		TMW_Delimited_Period. Details A period of time from a start date up to an end date relevant to Transboundary Movements of Waste (TMW).
BBIE	1..1	TMW_Delimited_Period. Start. Date Time The start date of this TMW delimited period.
BBIE	1..1	TMW_Delimited_Period. End. Date Time The end date of this TMW delimited period.
ABIE		TMW_Handling_Instructions. Details Information of an instructive nature that tells someone how to handle something that requires special handling relevant to Transboundary Movements of Waste (TMW).
BBIE	1..1	TMW_Handling_Instructions. Handling. Text The TMW handling instructions, expressed as text.
ABIE		TMW_Location. Details A location relevant to Transboundary Movements of Waste (TMW).
BBIE	1..1	TMW_Location. Description. Text The textual description of this TMW location.
ABIE		TMW_Organization. Details An organized structure with a role in Transboundary Movements of Waste (TMW).
BBIE	0..*	TMW_Organization. Identification. Identifier A unique identifier for this TMW organization.
BBIE	0..1	TMW_Organization. Name. Text The name, expressed as text, of this TMW organization.
ASBIE	0..1	TMW_Organization. Primary. TMW_Contact The primary contact for this TMW organization.
ASBIE	0..1	TMW_Organization. Postal. Structured_Address The postal address for this TMW organization.
ABIE		TMW_Party. Details An individual, a group, or a body having a role in Transboundary Movements of Waste (TMW), such as a waste recovery facility or a competent authority.
BBIE	0..*	TMW_Party. Identification. Identifier A unique identifier of this TMW party.
BBIE	0..1	TMW_Party. Branch. Indicator The indication of whether or not this TMW party is a branch of an organization.
BBIE	0..1	TMW_Party. Organization_Name. Text The organization name, expressed as text, of this TMW party.
ASBIE	0..1	TMW_Party. Specified. TMW_Person The specified person for this TMW party.
ASBIE	0..1	TMW_Party. Defined. TMW_Contact The defined contact for this TMW party.
ASBIE	0..1	TMW_Party. Office. Structured_Address The office address for this TMW party.

Type	Occ.	Name/Definition
ASBIE	0..1	TMW_Party. Principal Place Of Business. TMW_Organization The organization which is the principal place of business of this TMW party.
ABIE		TMW_Package. Details Any self-contained wrapping or container, such as a box or a barrel, for Transboundary Movements of Waste (TMW).
BBIE	0..*	TMW_Package. Type. Code A code specifying a type of TMW package.
BBIE	0..1	TMW_Package. Description. Text The textual description of this TMW package.
ABIE		TMW_Person. Details An individual human being with a role related to Transboundary Movements of Waste (TMW), such as a person working at a waste recovery facility, or a person working for a competent authority.
BBIE	0..1	TMW_Person. Title. Text The title, expressed as text, of this TMW person.
BBIE	1..1	TMW_Person. Given Name. Text The name, expressed as text, given to this TMW person, usually by parents at birth.
BBIE	0..1	TMW_Person. Middle Name. Text The middle name, expressed as text, of this TMW person, usually given by parents at birth.
BBIE	0..1	TMW_Person. Family Name Prefix. Text The prefix, expressed as text, that precedes this TMW person's family name, such as Van, Von.
BBIE	1..1	TMW_Person. Family Name. Text The name, expressed as text, that this TMW person shares with members of his/her family.
BBIE	0..1	TMW_Person. Name Suffix. Text The suffix, expressed as text, that follows this TMW person's name, such as Junior, Third.
BBIE	0..1	TMW_Person. Gender. Code The code specifying the gender of this TMW person.
ABIE		TMW_Route. Details A way or course taken from one location to another for Transboundary Movements of Waste (TMW).
BBIE	0..1	TMW_Route. Description. Text The textual description of this TMW route.
BBIE	0..1	TMW_Route. Map. Binary Object The binary object representation of this TMW route map, such as in Global Positioning System Exchange (GPX) Format.
BBIE	0..1	TMW_Route. Distance. Measure The measure of the distance of this TMW route.
BBIE	0..1	TMW_Route. Coordinate System. Identifier The unique identifier of the coordinate system used for the representation of points on this TMW route.
ASBIE	1..1	TMW_Route. Start. Waypoint_Location The starting location for this TMW route.
ASBIE	1..1	TMW_Route. End. Waypoint_Location The ending location for this TMW route.
ASBIE	0..*	TMW_Route. National_Subordinate. Country Section_Route A national subsection of this TMW route.
ASBIE	0..*	TMW_Route. Unstructured_Subordinate. Section_Route A subsection of this TMW route.
ASBIE	0..1	TMW_Route. Entry_Customs. TMW_Organization The customs organization of entry into the community for this TMW route.
ASBIE	0..1	TMW_Route. Exit_Customs. TMW_Organization The customs organization of exit from the community for this TMW route.
ASBIE	0..1	TMW_Route. Export_Customs. TMW_Organization The customs organization of export from the community for this TMW route.
ABIE		Volume_Measurement. Details A measurement of the volume of some physical matter.

Type	Occ.	Name/Definition
BBIE	1..1	Volume_Measurement. Value. Measure The value of the measure for this volume measurement.
BBIE	0..1	Volume_Measurement. Quantification Type. Code The code specifying the type of quantification for this volume measurement, such as calculated or estimated.
ABIE		Waste Export_Event. Details An occurrence of shipping waste to another country.
ASBIE	1..1	Waste Export_Event. Related. TMW_Party The Transboundary Movement of Waste (TMW) party exporting waste for this waste export event.
ABIE		Waste Generation_Event. Details An occurrence of waste production.
ASBIE	0..1	Waste Generation_Event. Related. TMW_Party The Transboundary Movement of Waste (TMW) party generating waste for this waste generation event.
ASBIE	0..1	Waste Generation_Event. Occurrence. TMW_Location The Transboundary Movement of Waste (TMW) location at which waste generation occurs for this waste generation event.
ASBIE	0..1	Waste Generation_Event. Applied. Waste Origin_Process The process of waste generation applied for this waste generation event.
ABIE		Waste Import_Event. Details An occurrence of bringing in waste from another country.
ASBIE	1..1	Waste Import_Event. Related. TMW_Party The Transboundary Movement of Waste (TMW) party importing waste for this waste import event.
ABIE		Waste Origin_Process. Details A physical process out of which waste originates.
BBIE	1..1	Waste Origin_Process. Description. Text The textual description of this waste origin process.
ABIE		Waste Recovery Disposal_Event. Details An occurrence of recovery or disposal of waste.
ASBIE	0..1	Waste Recovery Disposal_Event. Related. TMW_Party The Transboundary Movement of Waste (TMW) party recovering or disposing waste for this waste recovery or disposal event.
ASBIE	0..1	Waste Recovery Disposal_Event. Occurrence. TMW_Location The Transboundary Movement of Waste (TMW) location at which waste recovery or disposal occurs for this waste recovery or disposal event.
ASBIE	0..1	Waste Recovery Disposal_Event. Applied. Waste Recovery Disposal_Process The process of recovery or disposal applied for this waste recovery or disposal event.
ABIE		Waste Recovery Disposal_Process. Details A process of either regaining substances in usable form, or of getting rid of substances.
BBIE	0..*	Waste Recovery Disposal_Process. Type. Code A code specifying a type of waste recovery or disposal process.
BBIE	0..1	Waste Recovery Disposal_Process. Description. Text The textual description of this waste recovery disposal process.
ABIE		Waypoint_Location. Details A location of a point on a route.
BBIE	0..1	Waypoint_Location. Name. Text The name, expressed as text, of this waypoint location.
BBIE	0..1	Waypoint_Location. Type. Text The type, expressed as text, of this waypoint location.
BBIE	0..1	Waypoint_Location. Description. Text The textual description of this waypoint location.
ASBIE	0..1	Waypoint_Location. Physical. Basic_Geographical Coordinate The physical geographical coordinates for this waypoint location.
ASBIE	0..1	Waypoint_Location. Postal. Post Code_Address

Type	Occ.	Name/Definition
		The postcode for this waypoint location.
ABIE		Website_ Communication. Details An address for the exchange of information from and to a website over the Internet.
BBIE	1..1	Website_ Communication. Website_ URI. Identifier The Uniform Resource Identifier (URI) of this website communication.

4.3 New and Changed Components

4.3.1 New Aggregate Core Components (ACCs)

The reference for all of the following additions is Core Component Library D08B.

Type	Occ.	Name/Definition
ACC		Authorization. Details An official permission or approval.
BCC	0..*	Authorization. Granted. Indicator An indication of whether or not this authorization is granted.
BCC	0..*	Authorization. Condition. Text A condition, expressed as text, for this authorization.
BCC	0..*	Authorization. Objection. Text An objection, expressed as text, to this authorization.
BCC	0..*	Authorization. Decision. Date Time A date, time, date time or other date time value of a decision for this authorization.
BCC	0..*	Authorization. Subject. Identifier A unique identifier of a subject of this authorization.
ASCC	0..*	Authorization. Authority. Organization An authority organization for this authorization.
ASCC	0..*	Authorization. Validity. Period A period within which this authorization is valid.
ACC		Issue. Details A topic for debate or resolution.
BCC	0..*	Issue. Type. Code A code specifying a type of issue.
BCC	0..*	Issue. Severity. Code A code specifying the severity of an issue, such as harmless, alarming, or severe.
BCC	0..*	Issue. Description. Text A textual description of this issue.
ACC		Material. Details Something inanimate that occupies space and possesses mass.
BCC	0..*	Material. Name. Text A name, expressed as text, of this material.
BCC	0..*	Material. Type. Code A code specifying a type of material.
BCC	0..*	Material. Composition Description. Text A textual description of the composition of this material.
BCC	0..*	Material. Special Handling Requirement. Indicator An indication whether or not special handling is required for this material.
BCC	0..*	Material. Mass. Measure A measure of the mass of this material.
BCC	0..*	Material. Mass Ratio. Measure A mass measure of the this material expressed as a ratio to another mass.
BCC	0..*	Material. Volume. Measure A measure of the volume of this material.

Type	Occ.	Name/Definition
BCC	0..*	Material. Volume Ratio. Measure A volume measure of this material expressed as a ratio to another volume.
BCC	0..*	Material. Value. Amount A monetary value of this material.
BCC	0..*	Material. Treatment Cost. Amount A monetary value of a treatment cost for this material.
BCC	0..*	Material. Receipt. Date Time A date, time, date time, or other date time value of the receipt of this material.
BCC	0..*	Material. Rejection. Indicator An indication of whether or not this material is rejected.
BCC	0..*	Material. Rejection Reason. Text A reason, expressed as text, for rejection of this material.
ASCC	0..*	Material. Mass. Measurement A measurement of the mass of this material.
ASCC	0..*	Material. Volume. Measurement A measurement of the volume of this material.
ASCC	0..*	Material. Applicable. Characteristic A characteristic applicable to this material.
ASCC	0..*	Material. Specified. Package A package specified for this material.
ASCC	0..*	Material. Handling. Instructions Handling instructions for this material.
ASCC	0..*	Material. Fraction. Material A fraction of this material.
ASCC	0..*	Material. Treatment. Process A treatment process for this material.

4.3.2 Additions to previously existing Aggregate Core Components (ACCs)

The reference for all of the following additions is Core Component Library D08B, except for *Event. Related. Party* and *Event. Applied. Process*. The reference for these two components is Core Component Library D12B.

Type	Occ.	Name/Definition
BCC	0..1	Address. Staircase Number. Text The number, expressed as text, of a staircase for this address.
ASCC	0..*	Contact. Specified. Person A person specified as a contact.
BCC	0..*	Document. Rejection Reason. Text A reason, expressed as text, for the rejection of this document.
BCC	0..*	Document. Cancellation Reason. Code A code specifying the reason for the cancellation of this document, such as cancellation due to a change in circumstances invalidating the document, or cancellation due to inadvertent incorrect document content.
BCC	0..*	Document. Cancellation Reason. Text A reason, expressed as text, for the cancellation of this document.
ASCC	0..*	Document. Acknowledging. Organization An organization acknowledging this document.
ASCC	0..*	Event. Related. Party A party related to this event.
ASCC	0..*	Event. Applied. Process A process applied to this event.
BCC	0..*	Location. Type. Text A type, expressed as text, of this location.
BCC	0..*	Measurement. Value. Measure A value of a measure for this measurement.
BCC	0..*	Measurement. Quantification Type. Code

		A code specifying a quantification type for this measurement, such as measured, calculated, or estimated.
BCC	0..*	Party. Branch. Indicator An indication of whether or not this party is a branch of an organization.
ASCC	0..1	Party. Principal Place Of Business. Organization The organization which is the principal place of business of this party, such as the organization where the accounting and record books are maintained.
ASCC	0..*	Party. Office. Address An office address for this party.
BCC	0..*	Process. Start. Date Time A date, time, date time or other date time value for the start of this process.
BCC	0..*	Process. End. Date Time A date, time, date time or other date time value for the end of this process.
BCC	0..*	Route. Distance. Measure A measure of the distance of this route.
BCC	0..*	Route. Coordinate System. Identifier A unique identifier of a coordinate system for this route.
ASCC	0..*	Route. Start. Location A start location for this route.
ASCC	0..*	Route. End. Location An end location for this route.
ASCC	0..*	Route. Subordinate. Route A subordinate route of this route, such as a section of this route.
ASCC	0..*	Route. Customs. Organization A customs organization for this route.
BCC	0..*	Transport Movement. Sequence. Numeric A sequence number for this transport movement.
BCC	0..*	Transport Movement. Total. Quantity A total number of transport movements.
BCC	0..*	Transport Movement. Notification. Identifier A unique identifier of a notification for this transport movement, such as a notification of competent authorities about a planned movement of waste.
BCC	0..*	Transport Movement. Reason. Text A reason, expressed as text, for this transport movement.
BCC	0..*	Transport Movement. Start. Date Time A date, time, date time, or other date time value for the start of this transport movement.
ASCC	0..*	Transport Movement. Alternative. Route An alternative route for this transport movement, such as for unforeseen events like a road block on the main route.
ASCC	0..*	Transport Movement. Section. Transport Movement A transport movement that is a section of this transport movement.

4.3.3 Changed Components

The reference for all of the following changes is Core Component Library D08B.

Component	Change
Package. Type. Code	Cardinality changed from 0..1 to 0..unbounded

4.4 New and Changed Data Types

No new or changed data types are used for Transboundary Movements of Waste (TMW) related data.

5 LOGICAL MESSAGE STRUCTURE

5.1 Message Assembly

Type	Occ.	Name/Definition
MA		TMW_ Cancellation Message. Details Cancellation of a previously sent message relating to transboundary movements of waste (TMW).
ASMA	1..1	TMW_ Cancellation Message. TMW Message_ Document Header information of the cancellation message.
ASMA	1..1	TMW_ Cancellation Message. Cancelled_ Document Details on the message to be cancelled.
MA		TMW_ Certificate Of Waste Receipt Message. Details Confirmation of the receipt of waste by a consignee or by a recovery or disposal facility at the destination country of transboundary movements of waste (TMW).
ASMA	1..1	TMW_ Certificate Of Waste Receipt Message. TMW Message_ Document Header information of the confirmation of waste receipt message.
ASMA	0..1	TMW_ Certificate Of Waste Receipt Message. Referenced Waste_ Transport Movement Identification by which the movement of waste has previously been notified to competent authorities.
ASMA	0..1	TMW_ Certificate Of Waste Receipt Message. Recipient. TMW_ Party The party receiving the waste.
ASMA	0..1	TMW_ Certificate Of Waste Receipt Message. Received Waste_ Material Details on the received waste, such as the date of reception, the accepted fraction and the rejected fraction.
ASMA	0..1	TMW_ Certificate Of Waste Receipt Message. Notified Waste Recovery Disposal_ Process The recovery or disposal operation intended to be subsequently applied to the accepted fraction of the received waste.
MA		TMW_ Certificate Of Waste Recovery Disposal Message. Details Information on the completion of an interim or non-interim waste recovery or disposal operation at the destination country of transboundary movements of waste (TMW).
ASMA	1..1	TMW_ Certificate Of Waste Recovery Disposal Message. TMW Waste Recovery Disposal Message_ Document Header information of the waste recovery disposal message.
ASMA	0..1	TMW_ Certificate Of Waste Recovery Disposal Message. Referenced Waste_ Transport Movement Identification by which the movement of waste has previously been notified to competent authorities.
ASMA	0..1	TMW_ Certificate Of Waste Recovery Disposal Message. Recovery Disposal. TMW_ Party The party that recovered or disposed the waste.
ASMA	0..1	TMW_ Certificate Of Waste Recovery Disposal Message. Completed Waste Recovery Disposal_ Process Details on the completed recovery or disposal operation, such as date and type of operation.
MA		TMW_ Confirmation Of Message Receipt Message. Details Acknowledgement of the receipt of a transboundary movements of waste (TMW) related message.
ASMA	1..1	TMW_ Confirmation Of Message Receipt Message. Identified_ Referenced_ Document Header information of the confirmation of message receipt message.
ASMA	1..1	TMW_ Confirmation Of Message Receipt Message. TMW Acknowledged Message_ Document Details on the received message, such as identification and reception status.
MA		TMW_ Movement Announcement Message. Details Prior information regarding the actual start of a transboundary movement of waste (TMW).
ASMA	1..1	TMW_ Movement Announcement Message. TMW Message_ Document Header information of the movement announcement message.
ASMA	0..*	TMW_ Movement Announcement Message. Waste Generation_ Event Details on the waste generation, such as the waste generator party and the site of waste generation.
ASMA	0..1	TMW_ Movement Announcement Message. Waste Export_ Event Details on the waste export, such as the party exporting the waste.
ASMA	0..1	TMW_ Movement Announcement Message. Waste Import_ Event Details on the waste import, such as the party importing the waste.

Type	Occ.	Name/Definition
ASMA	0..1	TMW_Movement Announcement Message. Interim. Waste Recovery Disposal_Event Details on the first interim recovery or disposal announced for the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	0..*	TMW_Movement Announcement Message. Subsequent Interim. Waste Recovery Disposal_Event Details on subsequent interim recovery or disposal operations announced to be applied to the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	0..*	TMW_Movement Announcement Message. Non Interim. Waste Recovery Disposal_Event Details on the non-interim recovery or disposal operation announced to be applied to the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	1..1	TMW_Movement Announcement Message. TMW Announced_Material Details on the waste announced to be shipped, such as waste classification, waste quantity and physical characteristics.
ASMA	1..1	TMW_Movement Announcement Message. TMW Announced_Transport Movement Details on the announced transport movement, such as route and start date.
MA		TMW_Notification Acknowledgement Message. Details Acknowledgement of the receipt of a properly completed notification of transboundary movements of waste (TMW).
ASMA	1..1	TMW_Notification Acknowledgement Message. TMW Message_Document Header information of the notification acknowledgement message.
ASMA	1..1	TMW_Notification Acknowledgement Message. TMW Acknowledged Notification_Document Details on the acknowledgement of the receipt of a properly completed notification, such as the date of acknowledgement.
MA		TMW_Notification Decision Message. Details A competent authority's decision on one or more transboundary movements of waste (TMW). Any such decision falls into one of the following three categories: consent, consent with conditions and objection.
ASMA	1..1	TMW_Notification Decision Message. TMW Message_Document Header information of the notification decision message.
ASMA	1..1	TMW_Notification Decision Message. Waste Movement. TMW_Authorization Details on the decision, such as whether or not the competent authority consents to the movement of waste and the date when the decision was reached.
MA		TMW_Notification Submission Message. Details Information on one or more intended transboundary movements of waste (TMW).
ASMA	1..1	TMW_Notification Submission Message. TMW Message_Document Header information of the notification submission message.
ASMA	0..*	TMW_Notification Submission Message. Waste Generation_Event Details on the waste generation, such as the waste generator party and the site of waste generation.
ASMA	1..1	TMW_Notification Submission Message. Waste Export_Event Details on the waste export, such as the party exporting the waste.
ASMA	0..1	TMW_Notification Submission Message. Waste Import_Event Details on the waste import, such as the party importing the waste.
ASMA	0..1	TMW_Notification Submission Message. Interim. Waste Recovery Disposal_Event Details on the first interim recovery or disposal intended for the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	0..*	TMW_Notification Submission Message. Subsequent Interim. Waste Recovery Disposal_Event Details on subsequent interim recovery or disposal operations intended to be applied to the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	0..*	TMW_Notification Submission Message. Non Interim. Waste Recovery Disposal_Event Details on the non-interim recovery or disposal intended to be applied to the shipped waste, such as the recovery or disposal site and recovery or disposal operations.
ASMA	1..1	TMW_Notification Submission Message. TMW Notified_Material Details on the waste intended to be shipped, such as waste classification, waste quantity and physical characteristics.
ASMA	1..1	TMW_Notification Submission Message. TMW Notified_Transport Movement Details on the intended transport movement, such as the route.

Type	Occ.	Name/Definition
ASMA	0..*	TMW_ Notification Submission Message. Financial_ Guarantee Details on financial guarantees or equivalent insurance for the intended movements of waste.
MA		TMW_ Request For Further Notification Information Message. Details Request for information and documentation to a notified transboundary movement of waste (TMW).
ASMA	1..1	TMW_ Request For Further Notification Information Message. TMW Message_ Document Header information of the information request message.
ASMA	1..1	TMW_ Request For Further Notification Information Message. Identified_ Referenced_ Document Identification by which the movement of waste, to which the request for information relates, has previously been notified to competent authorities.
ASMA	1..1	TMW_ Request For Further Notification Information Message. Information_ Query Details on the request for information and documentation, such as the request expressed as text.
MA		TMW_ Transport Statement Message. Details Description of issues with a transboundary movement of waste (TMW).
ASMA	1..1	TMW_ Transport Statement Message. TMW Message_ Document Header information of the transport statement message.
ASMA	1..1	TMW_ Transport Statement Message. Referenced Waste_ Transport Movement Identification by which the movement of waste, to which the transport statement relates, has previously been notified to competent authorities.
ASMA	1..*	TMW_ Transport Statement Message. Specific_ Issue Details on the issues relating to a movement of waste, such as the issue severity.

Annex 1. DEFINITION OF TERMS

Source: OMG (Object Management Group) UML Specification (refer http://www.omg.org)	
<i>Association</i>	The semantic relationship between two or more classifiers that specifies connections among their instances. An association may represent an aggregation (i.e., a whole/part relationship). In this case, the association-end attached to the whole element is designated, and the other association-end of the association represents the parts of the aggregation. Composite aggregation is a strong form of aggregation, which requires that a part instance be included in at most one composite at a time and that the composite object has sole responsibility for the disposition of its parts. This means that the composite object is responsible for the creation and destruction of the parts. If a composite object is destroyed, it must destroy all of its parts. It may remove a part and give it to another composite object, which then assumes responsibility for it.
<i>Cardinality</i>	The number of elements in a set.
<i>Class diagram</i>	A class diagram shows the static structure of the information model, in particular, the things that exist, their internal structure, and their relationships to other things. A class diagram does not show temporal information. It is a diagram that shows a collection of declarative (static) model elements, such as classes, types, and their contents and relationships.
<i>Class</i>	A description of a set of objects that share the same attributes, operations, methods, relationships, and semantics.
<i>Constraint</i>	A semantic condition or restriction.
<i>Datatype</i>	A descriptor of a set of values that lack identity and whose operations do not have side effects. Datatypes include primitive pre-defined types and user-definable types. Predefined types include numbers, string and time. User definable types include enumerations.
<i>Enumeration</i>	A list of named values used as the range of a particular attribute type. For example, RGBColor = {red, green, blue}.
<i>Generalization</i>	A taxonomic relationship between a more general element and a more specific element. The more specific element is fully consistent with the more general element (it has all of its properties, members, and relationships) and may contain additional information.
<i>Multiplicity</i>	A specification of the range of allowable cardinalities that a set may assume. Multiplicity specifications may be given for roles within associations, parts within composites, repetitions, and other purposes. Essentially a multiplicity is a (possibly infinite) subset of the non-negative integers.
<i>Relationship</i>	A semantic connection among model elements. Examples of relationships include associations and generalizations.
<i>Role</i>	The named specific behaviour of an entity participating in a particular context.
<i>Stereotype</i>	A type of modeling element that extends the semantics of the metamodel. Stereotypes must be based on certain existing types or classes in the metamodel. Stereotypes may extend the semantics, but not the structure of pre-existing types and classes.

Source: Core Components Technical Specification Version 2.01	
<i>Aggregate Business Information Entity</i> (ABIE)	A collection of related pieces of business information that together convey a distinct business meaning in a specific <i>Business Context</i> . Expressed in modelling terms, it is the representation of an <i>Object Class</i> , in a specific <i>Business Context</i> .
<i>Aggregate Core Component</i> (ACC)	A collection of related pieces of business information that together convey a distinct business meaning, independent of any specific <i>Business Context</i> . Expressed in modelling terms, it is the representation of an <i>Object Class</i> , independent of any specific <i>Business Context</i> .
<i>Association Business Information Entity</i> (ASBIE)	A <i>Business Information Entity</i> that represents a complex business characteristic of a specific <i>Object Class</i> in a specific <i>Business Context</i> . It has a unique <i>Business Semantic</i> definition. An <i>Association Business Information Entity</i> represents an <i>Association Business Information Entity Property</i> and is associated to an <i>Aggregate Business Information Entity</i> , which describes its structure. An <i>Association Business Information Entity</i> is derived from an <i>Association Core Component</i> .
<i>Association Core Component</i> (ASCC)	A <i>Core Component</i> which constitutes a complex business characteristic of a specific <i>Aggregate Core Component</i> that represents an <i>Object Class</i> . It has a unique <i>Business Semantic</i> definition. An <i>Association Core Component</i> represents an <i>Association Core Component Property</i> and is associated to an <i>Aggregate Core Component</i> , which describes its structure.
<i>Basic Business Information Entity</i> (BBIE)	A <i>Business Information Entity</i> that represents a singular business characteristic of a specific <i>Object Class</i> in a specific <i>Business Context</i> . It has a unique <i>Business Semantic</i> definition. A <i>Basic Business Information Entity</i> represents a <i>Basic Business Information Entity Property</i> and is therefore linked to a <i>Data Type</i> , which describes its values. A <i>Basic Business Information Entity</i> is derived from a <i>Basic Core Component</i> .
<i>Basic Core Component</i> (BCC)	A <i>Core Component</i> which constitutes a singular business characteristic of a specific <i>Aggregate Core Component</i> that represents an <i>Object Class</i> . It has a unique <i>Business Semantic</i> definition. A <i>Basic Core Component</i> represents a <i>Basic Core Component Property</i> and is therefore of a <i>Data Type</i> , which defines its set of values. <i>Basic Core Components</i> function as the <i>Properties</i> of <i>Aggregate Core Components</i> .
<i>Business Context</i>	The formal description of a specific business circumstance as identified by the values of a set of <i>Context Categories</i> , allowing different business circumstances to be uniquely distinguished.
<i>Business Information Entity</i> (BIE)	A piece of business data or a group of pieces of business data with a unique <i>Business Semantic</i> definition. A <i>Business Information Entity</i> can be a <i>Basic Business Information Entity</i> (BBIE), an <i>Association Business Information Entity</i> (ASBIE), or an <i>Aggregate Business Information Entity</i> (ABIE).
<i>Core Component</i> (CC)	A building block for the creation of a semantically correct and meaningful information exchange package. It contains only the information pieces necessary to describe a specific concept.
<i>Core Component Type</i> (CCT)	A <i>Core Component</i> , which consists of one and only one <i>Content Component</i> , that carries the actual content plus one or more <i>Supplementary Components</i> giving an essential extra definition to the <i>Content Component</i> . <i>Core Component Types</i> do not have <i>Business Semantics</i> .

Source: Core Components Technical Specification Version 2.01

<i>Data Type</i>	Defines the set of valid values that can be used for a particular <i>Basic Core Component Property</i> or <i>Basic Business Information Entity Property</i> . It is defined by specifying restrictions on the <i>Core Component Type</i> that forms the basis of the <i>Data Type</i> .
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Source: Core Components Technical Specification Version 3.0

<i>Association Business Information Entity (ASBIE) Property</i>	An association business information entity property is a business information entity property for which the permissible values are expressed as a complex structure, represented by an aggregate business information entity.
<i>Association Core Component (ASCC) Property</i>	An association core component property is a core component property for which the permissible values are expressed as a complex structure, represented by an aggregate core component.
<i>Business Information Entity (BIE) Property</i>	A business information entity property is a business characteristic belonging to the Object Class in its specific business context that is represented by an aggregate business information entity.
<i>Basic Core Component (BCC) Property</i>	A basic core component property is a core component property for which the permissible values are expressed by simple values, represented by a data type.
<i>Business Data Type</i>	A business data type is a data type consisting of one and only one business data type content component that carries the actual content plus zero or more business data type supplementary components giving essential extra definition to the business data type content component. Business data types have business semantics.