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United Nations Centre for Trade Facilitation and Electronic Business

UN/CEFACT
Core Components
Data Type Catalogue
Version 2.1
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Abstract

This Data Type Catalogue contains the Allowed Restriction, Core Component Type, Content and Supplementary Component, and Representation Term Core Component Tables published in the Core Components Technical Specification (CCTS) Version 2.01. It also contains the physical instantiation of the implied data types from CCTS. This catalogue is maintained by the UN/CEFACT Applied Technologies Group (ATG) using published data maintenance request (DMR) procedures for data types.



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5.19 VALUE TYPE

5.19.1 Data Type Term

5.19.2 Representation Term

5.19.3 Dictionary Entry Name

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5.19.5 Source Core Component Type



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1 Status of This Document

This UN/CEFACT Data Type Catalogue is developed in accordance with the UN/CEFACT/TRADE/22 Open Development Process (ODP) for technical specifications. The document has been approved for publication by ATG.

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This document may also be available in these non-normative formats: XML, XHTML with visible change markup. See also translations.

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2 Introduction

The Core Components Technical Specification (CCTS) developed by UN/CEFACT and subsequently published as ISO 15000-5 provides a methodology for semantic data modeling that achieves a common understanding of data structures and message types on a syntax independent level. The specification was published with 10 Core Component Types (CCTs), content and supplementary components, representation terms, and an implied set of unqualified data types. The specification directed that future maintenance and publication of these artifacts be conducted separately from the specification. This data type catalogue meets that requirement. Sections 3, 4 and 5 are normative. Appendix A contains the original tables from CCTS 2.01. These are provided for historical information purposes only and are non-normative.

2.1 Related Documents

The following standards and specifications are relevant for the definition and expression of UN/CEFACT CCTS Data Types:

- [UN/CEFACT Core Components Technical Specification – Part 8 of the ebXML Framework Version 2.01](#)
- [ISO/TS 15000-5:2005 Electronic Business Extensible Markup Language \(ebXML\) – Part 5: ebXML Core Components Technical Specification, Version 2.01\(ebCCTS\)](#)
- [UN/CEFACT XML NDR Technical Specification V2.0](#)
- [UN/CEFACT Unqualified Data Type Schema Module](#) – Published on 6 month release cycles
- [EDIFACT Directory](#) – Published on 6 month release cycles

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3 Primitive Types and Their Related Facets

The Section 7.1.9 of CCTS 2.01 identifies possible values for primitives but does not provide any definitions. The six identified possible values are:

- Binary
- Boolean
- Date
- Decimal
- Integer
- String

3.1 Primitive Type Definitions

Definitions for each of the allowed primitives are as follows:

Primitive Type	Definition
Binary	A set of (in)finite-length sequences of binary digits
Boolean	A logical expression consisting of predefined values. Boolean values define an enumeration that denotes a logical condition.
Date	A point in time to a common resolution (year, month, day, hour, minute, second, and fractions thereof)
Decimal	A subset of the real numbers, which can be represented by decimal numerals
Integer	An element in the infinite set (...-2, -1, 0, 1, 2...)
String	A sequence of characters in some suitable character set



3.2 Primitive Type Facets

Section 7.2.2 of CCTS 2.01 contains a list of allowed primitives and their available facet (format) restrictions with a definition for each facet restriction. It is reproduced without change as follows:

Primitive Type	Format Restriction	Definition
String	Expression	Defines the set of characters that can be used at a particular position in a string.
String	Length	Defines the required length of the string.
String	Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length format restriction.
String	Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length format restriction.
String	Enumeration	Defines the exhaustive list of allowed values.
Decimal, Integer	Total Digits	Defines the maximum number of digits to be used.
Decimal	Fractional Digits	Defines the maximum number of fractional digits to be used.
Decimal, Integer	Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Decimal, Integer	Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Decimal, Integer	Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.



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Primitive Type	Format Restriction	Definition
Decimal, Integer	Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.
Date	Minimum Inclusive	Defines the lower limit of the range of allowed dates. The lower limit is also an allowed date.
Date	Maximum Inclusive	Defines the upper limit of the range of allowed dates. The upper limit is also an allowed date.
Date	Minimum Exclusive	Defines the lower limit of the range of allowed dates. The lower limit is no allowed date. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Date	Maximum Exclusive	Defines the upper limit of the range of allowed dates. The upper limit is no allowed date. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.

276 [Note – Although format restrictions are identified for the Date primitive in CCTS 2.01, the specification did not use the Date primitive for any of the con-
277 tent or supplementary components defined in it.]



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4 CCTS 2.01 Core Component Types

This section represents the approved CCTS 2.01 Core Component Types.

4.1 Amount. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Amount. Type	Amount	Type	A number of monetary units specified in a currency where the unit of currency is explicit or implied	Amount. Content	<ul style="list-style-type: none">Amount Currency. IdentifierAmount Currency. Code List Version. Identifier	

4.2 Binary Object. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Binary Object. Type	Binary Object	Type	A set of finite-length sequences of binary octets.	Binary Object. Content	<ul style="list-style-type: none">Binary Object. Format. TextBinary Object. Mime. CodeBinary Object. Encoding. CodeBinary Object. Character Set. CodeBinary Object. Uniform Resource. IdentifierBinary Object. Filename. Text	Shall also be used for <i>Data Types</i> representing graphics (i.e., diagram, graph, mathematical curves or similar representations), pictures (i.e. visual representation of a person, object, or scene), sound, video, etc.



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4.3 Code. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Code. Type	Code	Type	A character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an <i>Attribute</i> together with relevant supplementary information.	Code. Content	<ul style="list-style-type: none">Code List. IdentifierCode List. Agency. IdentifierCode List. Agency Name. TextCode List. Name. TextCode List. Version. IdentifierCode. Name. TextCode. Language. IdentifierCode List. Uniform Resource. IdentifierCode List Scheme. Uniform Resource. Identifier	Should not be used if the character string identifies an instance of an <i>Object Class</i> or an object in the real world, in which case the Identifier. Type should be used.

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4.4 Date Time. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Date Time. Type	Date Time	Type	A particular point in the progression of time together with relevant supplementary information.	Date Time. Content	<ul style="list-style-type: none">Date Time. Format. Text	Can be used for a date and/or time.



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284 **4.5 Identifier. Type**

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Identifier. Type	Identifier	Type	A character string to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects in the same scheme together with relevant supplementary information.	Identifier. Content	<ul style="list-style-type: none">• Identification Scheme. Identifier• Identification Scheme. Name. Text• Identification Scheme Agency. Identifier• Identification Scheme. Agency Name. Text• Identification Scheme. Version. Identifier• Identification Scheme Data. Uniform Resource. Identifier• Identification Scheme. Uniform Resource. Identifier	

285 **4.6 Indicator. Type**

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Indicator. Type	Indicator	Type	A list of two mutually exclusive values that express the only possible states of a <i>Property</i> .	Indicator. Content	<ul style="list-style-type: none">• Indicator. Format. Text	



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286 **4.7 Measure. Type**

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Measure. Type	Measure	Type	A numeric value determined by measuring an object along with the specified unit of measure.	Measure. Content	<ul style="list-style-type: none">Measure Unit. CodeMeasure Unit. Code List Version. Identifier	

287 **4.8 Numeric. Type**

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Numeric. Type	Numeric	Type	Assigned mathematical number that does not require a unit of quantity, measure or currency.	Numeric. Content	<ul style="list-style-type: none">Measure Unit. CodeNumeric. Format. Text	<p>May or may not be decimal.</p> <p>Numeric values are dimensionless mathematical values expressed as a number.</p>

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4.9 Quantity. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Quantity. Type	Quantity	Type	A counted number of non-monetary units possibly including fractions.	Quantity. Content	<ul style="list-style-type: none">Quantity. Unit. CodeQuantity Unit. Code List. IdentifierQuantity Unit. Code List Agency. IdentifierQuantity Unit. Code List Agency Name. Text	

4.10 Text. Type

Dictionary Entry Name	Object Class Term	Property Term	Definition	Content Component	Supplementary Components	Remarks
Text. Type	Text	Type	A character string (i.e. a finite set of characters) generally in the form of words of a language.	Text. Content	<ul style="list-style-type: none">Text. Language. IdentifierText. Language. Locale. Code	Shall also be used for names (i.e. word or phrase that constitutes the distinctive designation of a person, place, thing or concept).



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5 Data Types

The CCTS 2.01 specification defines a set of rules for creating unqualified (without restriction) and qualified (with restriction) data types from the contents of Tables 7-1, 8-1, 8-2, and 8-3. These data types are not normatively expressed in the specification, rather they are implicit. The following sections contain explicit normative expressions of the implicit unqualified data types. These data types shall be used for all CCTS 2.01 Basic Core Components (BCCs). They shall also be used for all CCTS 2.01 conformant Basic Business Information Entities (BBIEs) that do not require restricted value domains, and as the basis for qualified data types where the BBIE requires a restricted value domain. Natural Syntax rules may limit the allowed regular expressions for any of the data types reflected in this section. Users of the catalogue should be sensitive to the intended syntax expression when using a specific data type and all of its facts.



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5.1 Amount. Type

5.1.1 Data Type Term

Amount

5.1.2 Representation Term

Amount

5.1.3 Dictionary Entry Name

Amount. Type

5.1.4 Definition

A number of monetary units specified in a currency where the unit of currency is explicit or implied.

5.1.5 Source Core Component Type

Amount. Type

5.1.6 Remarks

None



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313 **5.1.7 Amount. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Amount. Content	Amount	A number of monetary units specified in a currency where the unit of currency is explicit or implied	Decimal	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		
Supplementary Component	Amount Currency. Identifier	Amount	The currency of the amount	String	0..1*	Expression Length Min. Length Max. Length Enumeration	By default, use latest version of ISO 4217	http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm
Supplementary Component	Amount Currency. Code List Version. Identifier	Amount	The <i>Version</i> of the code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		

314 *One Supplementary Component must always be present



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315 **5.1.8 Allowed Facets of Amount. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive facet
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive facet



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316 **5.1.9 Allowed Facets of Amount. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.2 Binary Object. Type

5.2.1 Data Type Term

Binary Object

5.2.2 Representation Term

Binary Object

5.2.3 Dictionary Entry Name

Binary Object. Type

5.2.4 Definition

A Binary Object is a set of finite-length sequences of binary octets.

5.2.5 Source Core Component Type

Binary Object. Type

5.2.6 Remarks

See also: Graphic. Type, Picture. Type, Sound. Type and Video. Type for more precise data types.



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330 **5.2.7 Binary Object. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Binary Object. Content	Binary Object	A set of finite-length sequences of binary octets.	Binary	1..1	None		
Supplementary Component	Binary Object. Format. Text	Binary Object	The format of the binary content.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Binary Object. Mime. Code	Binary Object	The mime type of the binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Binary Object. Character Set. Code	Binary Object	The character set of the binary object if the mime type is text.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Binary Object. Encoding. Code	Binary Object	Specifies the decoding algorithm of the binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Binary Object. Uniform Resource. Identifier	Binary Object	The Uniform Resource Identifier that identifies where the Binary Object is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Binary Object. Filename. Text		The filename of the binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047

331 *One Supplementary Component must always be present



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5.2.8 Allowed Facets of Binary Object. Type Content Component

There are no allowed facet restrictions for the Binary Object. Content Component

5.2.9 Allowed Facets of Binary Object. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.3 Code

5.3.1 Data Type Term

Code

5.3.2 Representation Term

Code

5.3.3 Dictionary Entry Name

Code. Type

5.3.4 Definition

A code is a character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an attribute together with relevant supplementary information.

5.3.5 Source Core Component Type

Code. Type

5.3.6 Remarks

Should not be used if the character string identifies an instance of an Object Class or an object in the real world, in which case the Identifier. Type data type should be used.



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350 **5.3.7 Code. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Code. Content	Code	A character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an <i>Attribute</i> .	String	1..1	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Code List. Agency. Identifier	Code	An agency that maintains one or more code lists.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Should be used	Defaults to the UN/EDIFACT data element 3055 code list.
Supplementary Component	Code List. Agency Name. Text	Code	The name of the agency that maintains the code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Use if Code List. Agency. Identifier is not used	
Supplementary Component	Code List. Name. Text	Code	The name of a list of codes.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Code List. Identifier	Code	The identification of a list of codes	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Can be used to identify the URL of a source that defines the set of currently approved permitted values



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Code List Scheme. Uniform Resource Identifier	Code	The Uniform Resource Identifier that identifies where the code list scheme is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Code List. Uniform Resource Identifier	Code	The Uniform Resource Identifier that identifies where the code list is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Code List. Version. Identifier	Code	The <i>Version</i> of the code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Identifies the <i>Version</i> of the UN/EDIFACT data element 3055 code list.
Supplementary Component	Code. Name. Text	Code	The textual equivalent of the code content	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Code. Language. Identifier	Code	The identifier of the language used in the code name.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Use ISO 639-1	

351 * One Supplementary Component must always be present



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352 **5.3.8 Allowed Facets of Code. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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353 **5.3.9 Allowed Facets of Code. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.4 Date

5.4.1 Data Type Term

Date

5.4.2 Representation Term

Date

5.4.3 Dictionary Entry Name

Date. Type

5.4.4 Definition

A date is a day of the month or year as specified by a number.

5.4.5 Source Core Component Type

Date Time. Type

5.4.6 Remarks

None



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367 **5.4.7 Date. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Date. Content	Date	A particular point in the progression of time	String	1..1	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Date. Format. Text	Date	The format of the date content	String	1..1	Expression Length Min. Length Max. Length Enumeration		Reference ISO 8601



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368 **5.4.8 Allowed Facets of Date. Type Content Component**

Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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369 **5.4.9 Allowed Facets of Date. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.5 DateTime

5.5.1 Data Type Term

Date Time

5.5.2 Representation Term

Date Time

5.5.3 Dictionary Entry Name

Date Time. Type

5.5.4 Definition

A particular point in the progression of time together with relevant supplementary information.

5.5.5 Source Core Component Type

Date Time. Type

5.5.6 Remarks

See also Date. Type and Time. Type for more precise data types.



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383 **5.5.7 Date Time. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Date Time. Content	Date Time	The particular point in the progression of time	String	1..1	Expression Length Min. Length Max. Length Enumeration		For times use an ISO 8601 compliant format that includes the UTC offset
Supplementary Component	Date Time. Format. Text	Date Time	The format of the date time content	String	1..1	Expression Length Min. Length Max. Length Enumeration		Reference ISO 8601



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384 **5.5.8 Allowed Facets of Date Time. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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385 **5.5.9 Allowed Facets of Date Time. Type Supplementary Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.6 Graphic. Type

5.6.1 Data Type Term

Graphic

5.6.2 Representation Term

Graphic

5.6.3 Dictionary Entry Name

Graphic. Type

5.6.4 Definition

A graphic binary object is a visual image displayed on a screen or stored as data.

5.6.5 Source Core Component Type

Binary Object. Type

5.6.6 Remarks

Includes diagram, graph, mathematical curves or similar representations



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399 **5.6.7 Graphic. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Graphic. Content	Graphic	A set of finite-length sequences of binary octets.	Binary	1..1	None		
Supplementary Component	Graphic. Format. Text	Graphic	The format of the graphic binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Graphic. Mime. Code	Graphic	The mime type of the graphic binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Graphic. Character Set. Code	Graphic	The character set of the graphic binary object if the mime type is text.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Graphic. Encoding. Code	Graphic	Specifies the decoding algorithm of the graphic binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Graphic. Uniform Resource Identifier	Graphic	The Uniform Resource Identifier that identifies where the graphic binary object is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Graphic. Filename. Text	Graphic	The filename of the graphic binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047

*One Supplementary Component must always be present



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5.6.8 Allowed Facets of Graphic. Type Content Component

There are no allowed facet restrictions for the Binary Object. Content Component

5.6.9 Allowed Facets of Graphic. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.7 Identifier. Type

5.7.1 Data Type Term

Identifier

5.7.2 Representation Term

Identifier

5.7.3 Dictionary Entry Name

Identifier. Type

5.7.4 Definition

An identifier is a character string to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects in the same scheme together with relevant supplementary information.

5.7.5 Source Core Component Type

Identifier. Type

5.7.6 Remarks

None



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418 5.7.7 Identifier. Type Structure

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Identifier. Content	Identifier	A character string to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects within the same scheme	String	1..1	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Identification Scheme Agency. Identifier	Identifier	The identification of the agency that maintains the identification scheme.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Should be used	Defaults to the UN/EDIFACT data element 3055 code list.
Supplementary Component	Identification Scheme Agency. Name. Text	Identifier	The name of the agency that maintains the identification scheme	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Use only if 3055 code not available	
Supplementary Component	Identification Scheme Data. Uniform Resource. Identifier	Identifier	The Uniform Resource Identifier that identifies where the identification scheme data is located	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Identification Scheme. Identifier	Identifier	The identification of the identification scheme.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Should be used	



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Identification Scheme. Name. Text	Identifier	The name of the identification scheme.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Use if Identification Scheme. Identifier is not used	
Supplementary Component	Identification Scheme. Uniform Resource. Identifier	Identifier	The Uniform Resource Identifier that identifies where the identification scheme is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Identification Scheme. Version. Identifier	Identifier	The <i>Version</i> of the identification scheme.	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Use with Identification Scheme. Agency. Identifier	Identifies the <i>Version</i> of the UN/EDIFACT data element 3055 code list.

419 *One Supplementary Component must always be present



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420 **5.7.8 Allowed Facets of Identifier. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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421 **5.7.9 Allowed Facets of Identifier. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.8 Indicator. Type

5.8.1 Data Type Term

Indicator

5.8.2 Representation Term

Indicator

5.8.3 Dictionary Entry Name

Indicator. Type

5.8.4 Definition

An indicator is a list of two mutually exclusive values that express the only possible states of a property.

5.8.5 Remarks

None



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433 **5.8.6 Indicator. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Indicator. Content	Indicator	The value of the indicator	String	1..1	Expression Length Min. Length Max. Length Enumeration		For example on, off, true, false
Supplementary Component	Indicator. Format. Text	Indicator	Whether the indicator is numeric, textual or binary	String	1..1	Expression Length Min. Length Max. Length Enumeration		



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434 Allowed Facets of Indicator. Type Content Component

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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435 **5.8.7 Allowed Facets of Indicator. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.9 Measure. Type

5.9.1 Data Type Term

Measure

5.9.2 Representation Term

Measure

5.9.3 Dictionary Entry Name

Measure. Type

5.9.4 Definition

A measure is a numeric value determined by measuring an object along with the unit of measure specified or implied.

5.9.5 Source Core Component Type

Measure. Type

5.9.6 Remarks

None



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449 **5.9.7 Measure. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Measure. Content	Measure	The numeric value determined by measuring an object	Decimal	1..1			For example, 24.387 kilograms (24.387 is the Measure. Content)
Supplementary Component	Measure Unit. Code	Measure	The type of unit of measure	String	0..1*	Expression Length Min. Length Max. Length Enumeration	Default is current version of UN/ECE Rec. 20	
Supplementary Component	Measure Unit. Code List Version. Identifier	Measure	The <i>Version</i> of the measure unit code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		

450 *One Supplementary Component must always be present



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451 **5.9.8 Allowed Facets of Measure. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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452 **5.9.9 Allowed Facets of Measure. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.
Expression	Defines the set of characters that can be used at a particular position in a string.



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453 **5.10 Name. Type**

454 **5.10.1 Data Type Term**

455 Name

456 **5.10.2 Representation Term**

457 Name

458 **5.10.3 Dictionary Entry Name**

459 Name. Type

460 **5.10.4 Definition**

461 A name is a word or phrase that constitutes the distinctive designation of a person, place, thing or concept.

462 **5.10.5 Source Core Component Type**

463 Text. Type

464 **5.10.6 Remarks**

465 None



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466 **5.10.7 Name. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Name. Content	Name	word or phrase that constitutes the distinctive designation of a person, place, thing or concept	String	1..1	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Name. Language. Identifier	Name	The identifier of the language used in the corresponding text string	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference ISO 639: 1998
Supplementary Component	Name. Language Locale. Identifier	Name	The identification of the locale of the language.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		

467 *One Supplementary Component must always be present



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468 **5.10.8 Allowed Facets of Name. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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469 **5.10.9 Allowed Facets of Name. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.11 Numeric. Type

5.11.1 Data Type Term

Numeric

5.11.2 Representation Term

Numeric

5.11.3 Dictionary Entry Name

Numeric. Type

5.11.4 Definition

Assigned mathematical number that does not require a unit of quantity, measure or currency.

5.11.5 Source Core Data Type

Numeric. Type

5.11.6 Remarks

Numeric. Type does not require a unit of quantity or unit of measure. It may or may not be decimal. Numeric values are dimensionless mathematical values expressed as a number.

See also: Value. Type, Rate. Type, Percent. Type for more precise data types.



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485 **5.11.7 Numeric. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Numeric. Content	Numeric	Assigned mathematical number that does not require a unit of quantity, measure or currency.	Either Decimal or Integer as defined by Numeric. Format. Text	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		
Supplementary Component	Numeric. Format. Text	Numeric	Whether the number is an integer, decimal, real number	String	1..1	Expression Length Min. Length Max. Length Enumeration		



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486 Allowed Facets of Numeric. Type Content Component

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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487 Allowed Facets of Numeric. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.12 Percent. Type

5.12.1 Data Type Term

Percent

5.12.2 Representation Term

Percent

5.12.3 Dictionary Entry Name

Percent. Type

5.12.4 Definition

Numeric information expressed as parts per hundred as determined by calculation.

5.12.5 Source Core Data Type

Numeric. Type

5.12.6 Remarks

Percent. Type does not require a unit of quantity or unit of measure. It may or may not be decimal.



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501 **5.12.7 Percent. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Percent. Content	Percent	Numeric information expressed as parts per hundred as determined by calculation.	Integer or decimal as defined by Percent. Format. Text	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		
Supplementary Component	Percent. Format. Text	Percent	The format for the percentage	String	1..1	Expression Length Min. Length Max. Length Enumeration		



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502 **5.12.8 Allowed Facets of Percent. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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503 Allowed Facets of Percent. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.13 Picture. Type

5.13.1 Data Type Term

Picture

5.13.2 Representation Term

Picture

5.13.3 Dictionary Entry Name

Picture. Type

5.13.4 Definition

A picture is a visual representation of a person, object, or scene instantiated as a painting, drawing, or photograph.

5.13.5 Source Core Data Type

Binary Object. Type

5.13.6 Remarks

None



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517 **5.13.7 Picture. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Picture. Content	Picture	A set of finite-length sequences of binary octets.	Binary	1..1	None		
Supplementary Component	Picture. Format. Text	Picture	The format of the picture binary object content.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Picture. Mime. Code	Picture	The mime type of the picture binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Picture. Character Set. Code	Picture	The character set of the picture binary object if the mime type is text.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Picture. Encoding. Code	Picture	Specifies the decoding algorithm of the picture binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Picture. Uniform Resource. Identifier	Picture	The Uniform Resource Identifier that identifies where the picture binary object is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Picture. Filename. Text	Picture	The filename of the picture binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047

518 *One Supplementary Component must always be present



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519 **5.13.8 Allowed Facets of Picture. Type Content Component**

520 There are no allowed facet restrictions for the Binary Object. Content component

521 **5.13.9 Allowed Facets of Picture. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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522 **5.14 Quantity. Type**

523 **5.14.1 Data Type Term**

524 Quantity

525 **5.14.2 Representation Term**

526 Quantity

527 **5.14.3 Dictionary Entry Name**

528 Quantity. Type

529 **5.14.4 Definition**

530 A quantity is a counted number of non-monetary units possibly including fractions.

531 **5.14.5 Source Core Data Type**

532 Quantity. Type

533 **5.14.6 Remarks**

534 None



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535 **5.14.7 Quantity. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Quantity. Content	Quantity	A counted number of non-monetary units possibly including fractions.	Decimal	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		For example 7 bales (7 is the Quantity. Content)
Supplementary Component	Quantity. Unit. Code	Quantity	The unit of the quantity	String	0..1*	Expression Length Min. Length Max. Length Enumeration		May use UN/ECE Rec. 20
Supplementary Component	Quantity Unit. Code List Agency. Identifier	Quantity	The identification of the agency which maintains the quantity unit code list	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Quantity Unit. Code List. Identifier	Quantity	The quantity unit code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Defaults to the UN/EDIFACT data element 3055 code list
Supplementary Component	Quantity Unit. Code List Agency Name. Text	Quantity	The name of the agency which maintains the quantity unit code list.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		

536 *One Supplementary Component must always be present



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537 **5.14.8 Allowed Facets of Quantity. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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538 Allowed Facets of Quantity. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.15 Rate. Type

5.15.1 Data Type Term

Rate

5.15.2 Representation Term

Rate

5.15.3 Dictionary Entry Name

Rate. Type

5.15.4 Definition

A stated numerical value of one thing corresponding proportionally to a certain value of some other thing.

5.15.5 Source Core Component Type

Numeric. Type

5.15.6 Remarks

None



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552 **5.15.7 Rate. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Rate. Content	Rate	Numeric information that is assigned or is determined by calculation, counting or sequencing.	Either Decimal or Integer as defined by Rate. Format. Text	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		
Supplementary Component	Rate. Format. Text	Rate	Whether the rate is an integer, decimal, real number or percentage	String	1..1	Expression Length Min. Length Max. Length Enumeration		



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553 **5.15.8 Allowed Facets of Rate. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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554 Allowed Facets of Rate. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.16 Sound. Type

5.16.1 Data Type Term

Sound

5.16.2 Representation Term

Sound

5.16.3 Dictionary Entry Name

Sound. Type

5.16.4 Definition

A sound binary object is an electronic file containing music, speech, sound effects or other audio.

5.16.5 Source Core Component Type

Binary Object. Type

5.16.6 Remarks

None



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568 **5.16.7 Sound. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Sound. Content	Sound	A set of finite-length sequences of binary octets representing a sound binary object.	Binary	1..1	None		
Supplementary Component	Sound. Format. Text	Sound	The format of the sound binary object content.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Sound. Mime. Code	Sound	The mime type of the sound binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Sound. Character Set. Code	Sound	The character set of the sound binary object if the mime type is text.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Sound. Encoding. Code	Sound	Specifies the decoding algorithm of the sound binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Picture. Uniform Resource Identifier	Sound	The Uniform Resource Identifier that identifies where the sound Binary Object is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Picture. Filename. Text	Sound	The filename of the sound binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047

569 *One Supplementary Component must always be present



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570 **5.16.8 Allowed Facets of Sound. Type Content Component**

571 There are no allowed facet restrictions for the Binary Object. Content Component

572 **5.16.9 Allowed Facets of Sound. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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573 **5.17 Text. Type**

574 **5.17.1 Data Type Term**

575 Text

576 **5.17.2 Representation Term**

577 Text

578 **5.17.3 Dictionary Entry Name**

579 Text. Type

580 **5.17.4 Definition**

581 A character string (i.e. a finite set of characters) generally in the form of words of a language.

582 **5.17.5 Remarks**

583 See also Name. Type for a more precise data type.



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584 **5.17.6 Text. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Text. Content	Text	A character string (i.e. a finite set of characters) generally in the form of words of a language.	String	1..1	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Text. Language. Identifier	Text	The identifier of the language used in the corresponding text string	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference ISO 639: 1998
Supplementary Component	Text. Language. Locale. Identifier	Text	The identification of the locale of the language.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		

585 *One Supplementary Component must always be present



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586 **5.17.7 Allowed Facets of Text. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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587 **5.17.8 Allowed Facets of Text. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.18 Time. Type

5.18.1 Data Type Term

Time

5.18.2 Representation Term

Time

5.18.3 Dictionary Entry Name

Time. Type

5.18.4 Definition

A time is a particular point in the progression of time of a day together with relevant supplementary information.

5.18.5 Source Core Component Type

Date Time. Type

5.18.6 Remarks

None



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601 **5.18.7 Time. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Time. Content	Time	The particular point in the progression of time of a day	String	1..1	Expression Length Min. Length Max. Length Enumeration	Use an ISO 8601 compliant format that optionally includes the UTC offset	
Supplementary Component	Time. Format. Text	Time	The format of the time content	String	1..1	Expression Length Min. Length Max. Length Enumeration		Reference ISO 8601



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602 **5.18.8 Allowed Facets of Time. Type Content Component**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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603 **5.18.9 Allowed Facets of Time. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.19 Value. Type

5.19.1 Data Type Term

Value

5.19.2 Representation Term

Value

5.19.3 Dictionary Entry Name

Value. Type

5.19.4 Definition

A value is the the numerical amount denoted by an algebraic term; a magnitude, quantity, or number.

5.19.5 Source Core Component Type

Numeric. Type

5.19.6 Remarks

None



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617 **5.19.7 Value. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Value. Content	Value	the numerical amount denoted by an algebraic term; a magnitude, quantity, or number	Either Decimal or Integer as defined by Value. Format. Text	1..1	Total Digits Fractional Digits Min. Inclusive Max. Inclusive Min. Exclusive Max. Exclusive Enumeration		
Supplementary Component	Value. Format. Text	Value	Whether the number is an integer, decimal, real number or percentage	String	1..1	Expression Length Min. Length Max. Length Enumeration		



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618 **5.19.8 Allowed Facets of Value. Type Content Component**

Facet	Definition
Total Digits	Defines the maximum number of digits to be used.
Fractional Digits	Defines the maximum number of fractional digits to be used.
Minimum Inclusive	Defines the lower limit of the range of allowed values. The lower limit is also an allowed value.
Maximum Inclusive	Defines the upper limit of the range of allowed values. The upper limit is also an allowed value.
Minimum Exclusive	Defines the lower limit of the range of allowed values. The lower limit is no allowed value. [Note] This format restriction shall not be used in combination with the Minimum Inclusive format restriction.
Maximum Exclusive	Defines the upper limit of the range of allowed values. The upper limit is no allowed value. [Note] This format restriction shall not be used in combination with the Maximum Inclusive format restriction.



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619 Allowed Facets of Value. Type Supplementary Components

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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5.20 Video. Type

5.20.1 Data Type Term

Video

5.20.2 Representation Term

Video

5.20.3 Dictionary Entry Name

Video. Type

5.20.4 Definition

A video binary object is electronically captured, recorded, processed, stored, transmitted, or reconstructed sequences of still images representing scenes in motion.

5.20.5 Source Core Data Type

Binary Object. Type

5.20.6 Remarks

None



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634 **5.20.7 Video. Type Structure**

Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Content Component	Video. Content	Video	A set of finite-length sequences of binary octets representing a video binary object.	Binary	1..1	None		
Supplementary Component	Video. Format. Text	Video	The format of the video binary object content.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Video. Mime. Code	Video	The mime type of the video binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Video. Character Set. Code	Video	The character set of the video binary object if the mime type is text.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047
Supplementary Component	Video. Encoding. Code	Video	Specifies the decoding algorithm of the video binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047



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Attribute Type	Dictionary Entry Name	Data Type Term	Definition	Primitive Type	Cardinality	Allowed Facets	Usage Rules	Remarks
Supplementary Component	Video. Uniform Resource Identifier	Video	The Uniform Resource Identifier that identifies where the video binary object is located.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		
Supplementary Component	Video. Filename. Text	Video	The filename of the video binary object.	String	0..1*	Expression Length Min. Length Max. Length Enumeration		Reference IETF RFC 2045, 2046, 2047

635 *One Supplementary Component must always be present



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636 **5.20.8 Allowed Facets of Video. Type Content Component**

637 There are no allowed facet restrictions for the Video. Content Component

638 **5.20.9 Allowed Facets of Video. Type Supplementary Components**

Facet	Definition
Expression	Defines the set of characters that can be used at a particular position in a string.
Length	Defines the required length of the string.
Minimum Length	Defines the minimum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Maximum Length	Defines the maximum length of the string. [Note] This format restriction shall not be used in combination with the Length facet
Enumeration	Defines the exhaustive list of allowed values.



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Appendix A – Original CCTS 2.01 Tables 8-1, 8-2 and 8-3

The following subsections represent the original CCTS 2.01 Tables 8-1, 8-2 and 8-3. These tables are no longer normative, and have been superseded by the normative sections of the Data Type Catalogue. The tables are:

- Core Component Types
- Approved Core Component Type Content and Supplementary Components
- Permissible Representation Terms

A.1 Table 8-1 Core Component Types

Table 8-1 is reproduced without change to structure, content, or format as follows:

Table 8-1 Approved Core Component Types (CCT)

CCT Dictionary Entry Name	Definition	Remarks	Object Class	Property Term	CCT Components
Amount. Type	A number of monetary units specified in a currency where the unit of currency is explicit or implied.		Amount	Type	<ul style="list-style-type: none">• Amount. Content• Amount Currency. Identifier• Amount Currency. Code List Version. Identifier
Binary Object. Type	A set of finite-length sequences of binary octets.	Shall also be used for <i>Data Types</i> representing graphics (i.e., diagram, graph, mathematical curves or similar representations), pictures (i.e. visual representation of a person, object, or scene), sound, video, etc.	Binary Object	Type	<ul style="list-style-type: none">• Binary Object. Content• Binary Object. Format. Text• Binary Object. Mime. Code• Binary Object. Encoding. Code• Binary Object. Character Set. Code• Binary Object. Uniform Resource. Identifier• Binary Object. Filename. Text



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CCT Dictionary Entry Name	Definition	Remarks	Object Class	Property Term	CCT Components
Code. Type	A character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an <i>Attribute</i> together with relevant supplementary information.	Should not be used if the character string identifies an instance of an <i>Object Class</i> or an object in the real world, in which case the Identifier. Type should be used.	Code	Type	<ul style="list-style-type: none"> Code. Content Code List. Identifier Code List. Agency. Identifier Code List. Agency Name. Text Code List. Name. Text Code List. Version. Identifier Code. Name. Text Language. Identifier Code List. Uniform Resource. Identifier Code List Scheme. Uniform Resource. Identifier
Date Time. Type	A particular point in the progression of time together with relevant supplementary information.	Can be used for a date and/or time.	Date Time	Type	<ul style="list-style-type: none"> Date Time. Content Date Time. Format. Text
Identifier. Type	A character string to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects in the same scheme together with relevant supplementary information.		Identifier	Type	<ul style="list-style-type: none"> Identifier. Content Identification Scheme. Identifier Identification Scheme. Name. Text Identification Scheme Agency. Identifier Identification Scheme. Agency Name. Text Identification Scheme. Version. Identifier Identification Scheme Data. Uniform Resource. Identifier Identification Scheme. Uniform Resource. Identifier



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CCT Dictionary Entry Name	Definition	Remarks	Object Class	Property Term	CCT Components
Indicator. Type	A list of two mutually exclusive Boolean values that express the only possible states of a <i>Property</i> .		Indicator	Type	<ul style="list-style-type: none"> • Indicator. Content • Indicator. Format. Text
Measure. Type	A numeric value determined by measuring an object along with the specified unit of measure.		Measure	Type	<ul style="list-style-type: none"> • Measure. Content • Measure Unit. Code • Measure Unit. Code List Version. Identifier
Numeric. Type	Numeric information that is assigned or is determined by calculation, counting, or sequencing. It does not require a unit of quantity or unit of measure.	May or may not be decimal	Numeric	Type	<ul style="list-style-type: none"> • Numeric. Content • Numeric. Format. Text
Quantity. Type	A counted number of non-monetary units possibly including fractions.		Quantity	Type	<ul style="list-style-type: none"> • Quantity. Content • Quantity. Unit. Code • Quantity Unit. Code List. Identifier • Quantity Unit. Code List Agency. Identifier • Quantity Unit. Code List Agency Name. Text
Text. Type	A character string (i.e. a finite set of characters) generally in the form of words of a language.	Shall also be used for names (i.e. word or phrase that constitutes the distinctive designation of a person, place, thing or concept).	Text	Type	<ul style="list-style-type: none"> • Text. Content • Language. Identifier • Language. Locale. Identifier



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A.2 Table 8-2 Approved Core Component Type Content and Supplementary Components

Table 8-2 is reproduced without changes to structure, content, or format as follows:

Table 8-2. Approved Core Component Type Content and Supplementary Components

Name	Primitive data-type	Definition	Remarks
Amount. Content	decimal	A number of monetary units specified in a currency where the unit of currency is explicit or implied	
Amount Currency. Code List Version. Identifier	string	The <i>Version</i> of the UN/ECE Rec. 9 code list.	
Amount Currency. Identifier	string	The currency of the amount	Reference UN/ECE Rec. 9, using 3-letter alphabetic codes. The UN/ECE Rec. 9 is also published as ISO 4217, but is available in electronic form and free of charge.
Binary Object. Content	binary	A set of finite-length sequences of binary octets.	
Binary Object. Format. Text	string	The format of the binary content.	
Binary Object. Mime.Code	string	The mime type of the binary object.	Reference IETF RFC 2045, 2046, 2047
Binary Object. Character Set. Code	string	The character set of the binary object if the mime type is text.	Reference IETF RFC 2045, 2046, 2047
Binary Object. Encoding. Code	string	Specifies the decoding algorithm of the binary object.	Reference IETF RFC 2045, 2046, 2047
Binary Object. Uniform Resource. Identifier	string	The Uniform Resource Identifier that identifies where the Binary Object is located.	
Binary Object. Filename. Text	String	The filename of the binary object.	Reference IETF RFC 2045, 2046, 2047



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Name	Primitive data-type	Definition	Remarks
Code. Content	string	A character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an <i>Attribute</i> .	
Code List. Agency. Identifier	string	An agency that maintains one or more code lists.	Defaults to the UN/EDIFACT data element 3055 code list.
Code List. Agency Name. Text	string	The name of the agency that maintains the code list.	
Code List. Name. Text	string	The name of a list of codes.	
Code List. Identifier	string	The identification of a list of codes	Can be used to identify the URL of a source that defines the set of currently approved permitted values
Code List Scheme. Uniform Resource. Identifier	string	The Uniform Resource Identifier that identifies where the code list scheme is located.	
Code List. Uniform Resource. Identifier	string	The Uniform Resource Identifier that identifies where the code list is located.	
Code List. Version. Identifier	string	The <i>Version</i> of the code list.	Identifies the <i>Version</i> of the UN/EDIFACT data element 3055 code list.
Code. Name. Text	string	The textual equivalent of the code content	If no code content exists, the code name can be used on its own
Date Time. Content	string	The particular point in the progression of time	For times use an ISO 8601 compliant format that includes the UTC offset
Date Time. Format. Text	string	The format of the date/time content	Reference ISO 8601 and W3C note on date time
Identification Scheme Agency. Identifier	string	The identification of the agency that maintains the identification scheme.	Defaults to the UN/EDIFACT data element 3055 code list.
Identification Scheme Agency. Name. Text	string	The name of the agency that maintains the identification scheme	



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Name	Primitive data-type	Definition	Remarks
Identification Scheme Data. Uniform Resource. Identifier	string	The Uniform Resource Identifier that identifies where the identification scheme data is located	
Identification Scheme. Identifier	string	The identification of the identification scheme.	
Identification Scheme. Name. Text	string	The name of the identification scheme.	
Identification Scheme. Uniform Resource. Identifier	string	The Uniform Resource Identifier that identifies where the identification scheme is located.	
Identification Scheme. Version. Identifier	string	The <i>Version</i> of the identification scheme.	Identifies the <i>Version</i> of the UN/EDIFACT data element 3055 code list.
Identifier. Content	string	A character string to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects within the same scheme	
Indicator. Content	string	The value of the indicator	For example on, off, true, false
Indicator. Format. Text	String	Whether the indicator is numeric, textual or binary	
Language. Identifier	string	The identifier of the language used in the corresponding text string	Reference ISO 639: 1998
Language. Locale. Identifier	string	The identification of the locale of the language.	
Measure. Content	decimal	The numeric value determined by measuring an object.	For example, 24.387 kilograms (24.387 is the Measure. Content)
Measure Unit. Code	string	The type of unit of measure	Reference UN/ECE Rec. 20 and X12 355.
Measure Unit. Code List Version. Identifier	string	The <i>Version</i> of the measure unit code list.	
Numeric. Content	As defined by Numeric. Format. Text	Numeric information that is assigned or is determined by calculation, counting or sequencing.	May be decimal



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Name	Primitive data-type	Definition	Remarks
Numeric. Format. Text	string	Whether the number is an integer, decimal, real number or percentage	
Quantity. Content	decimal	A counted number of non-monetary units possibly including fractions.	For example 7 bales (7 is the Quantity. Content)
Quantity. Unit. Code	string	The unit of the quantity	May use UN/ECE Rec. 20
Quantity Unit. Code List Agency. Identifier	string	The identification of the agency which maintains the quantity unit code list	
Quantity Unit. Code List. Identifier	string	The quantity unit code list.	Defaults to the UN/EDIFACT data element 3055 code list.
Quantity Unit. Code List Agency Name. Text	string	The name of the agency which maintains the quantity unit code list.	
Text. Content	string	A character string (i.e. a finite set of characters) generally in the form of words of a language.	



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A.3 Table 8-3 Primary and Secondary Representation Terms

Table 8-3 is reproduced without changes to structure, content or format as follows:

Table 8-3. Permissible Representation Terms

Primary Representation Term	Definition	Related Core Component Type	Secondary Representation Terms
Amount	A number of monetary units specified in a currency where the unit of currency is explicit or implied.	Amount. Type	
Binary Object	A set of finite-length sequences of binary octets. [Note: This <i>Representation Term</i> shall also be used for <i>Data Types</i> representing graphics (i.e. diagram, graph, mathematical curves, or similar representation), pictures (i.e. visual representation of a person, object, or scene), sound, video, etc.]	Binary Object. Type	Graphic, Picture, Sound, Video
Code	A character string (letters, figures or symbols) that for brevity and / or language independence may be used to represent or replace a definitive value or text of a <i>Property</i> . [Note: The term 'Code' should not be used if the character string identifies an instance of an <i>Object Class</i> or an object in the real world, in which case the <i>Representation Term</i> identifier should be used.]	Code. Type	
Date Time	A particular point in the progression of time (ISO 8601). [Note: This <i>Representation Term</i> shall also be used for <i>Data Types</i> only representing a Date or a Time.]	Date Time. Type	Date, Time
Identifier	A character string used to establish the identity of, and distinguish uniquely, one instance of an object within an identification scheme from all other objects within the same scheme.	Identifier. Type	



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Primary <i>Representation Term</i>	Definition	Related Core Component Type	Secondary <i>Representation Terms</i>
Indicator	A list of exactly two mutually exclusive Boolean values that express the only possible states of a <i>Property</i> . [Note: Values typically indicate a condition such as on/off; true/false etc.]	Indicator. Type	
Measure	A numeric value determined by measuring an object. Measures are specified with a unit of measure. The applicable unit of measure is taken from UN/ECE Rec. 20. [Note: This <i>Representation Term</i> shall also be used for measured coefficients (e.g. m/s).]	Measure. Type	
Numeric	Numeric information that is assigned or is determined by calculation, counting or sequencing. It does not require a unit of quantity or a unit of measure. [Note: This <i>Representation Term</i> shall also be used for <i>Data Types</i> representing Ratios (i.e. rates where the two units are not included or where they are the same), Percentages, etc.)	Numeric. Type	Value, Rate, Percent
Quantity	A counted number of non-monetary units. Quantities need to be specified with a unit of quantity. [Note: This <i>Representation Term</i> shall also be used for counted coefficients (e.g. flowers/m ²).]	Quantity. Type	
Text	A character string (i.e. a finite set of characters) generally in the form of words of a language. [Note: This <i>Representation Term</i> shall also be used for names (i.e. word or phrase that constitutes the distinctive designation of a person, place, thing or concept).]	Text. Type	Name



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