

Edig@s Class Documentation for Electronic Documents



The European message format for the gas market

Version 6.1

Document Version: 2

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1 Class Model Detail

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This document provides the complete list of Edig@s Classes.

2 Edig@s Classes

2.1 Edig@s Aggregate Core Components (ACC)

2.1.1 Account

An account used in a transaction.

2.1.1.1 List of Attributes

Name	Description	Datatype	Multiplicity
internalAccount	The identification of an account for a local SO.	AccountType	[0..1]
internalAccountTso	The identification of the SO that has assigned the internal account.	PartyType	[0..1]
externalAccount	The identification of the counterpart account that operates in another SO area.	AccountType	[0..1]
externalAccountTso	The identification of the SO that has assigned the external account.	PartyType	[0..1]
identification	The identification of an account.	AccountType	[0..1]
accountCode	The identification of an account type. (Refer to the Edig@s AccountCodeTypeCodeList for the list of valid codes).	AccountCodeType	[0..1]
accountTso	The identification of the SO responsible for an account identification.	PartyType	[0..1]

2.1.2 AccountDirection

The indication whether a line of an account is a debit or a credit.

2.1.2.1 List of Attributes

Name	Description	Datatype	Multiplicity
accountDirectionCode	A code indicating whether a value is a debit or a credit. (Refer to the Edig@s AccountDirectionCodeTypeCodeList for the list of valid codes).	AccountDirectionCodeType	

2.1.3 Agreement

The identification and category of an agreement.

2.1.3.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of an agreement.	IdentificationType	
referenceCode	The type of an agreement. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).	ReferenceCodeType	[0..1]

2.1.4 AllocationScheme

The scheme used to indicate the method of allocation.

2.1.4.1 List of Attributes

Name	Description	Datatype	Multiplicity
allocationSchemeCode	The code identifying a specific allocation scheme.	AllocationSchemeCodeType	

	(Refer to the Edig@s AllocationSchemeCodeTypeCodeList for the list of valid codes).		
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2.1.5 Asset

The identification of an asset.

2.1.5.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of an asset.	AssetType	[0..1]

2.1.6 AttributeInstance

A class describing an instance of an attribute.

2.1.6.1 List of Attributes

Name	Description	Datatype	Multiplicity
attributeName	The name of a document attribute in lower camelcase.	String	
attributeValue	The value of a named attribute.	String	[0..1]

2.1.7 Availability

The identification of the nature of the availability of a product.

2.1.7.1 List of Attributes

Name	Description	Datatype	Multiplicity
availabilityCode	A code identifying the nature of the availability of a product (interruptible, firm, etc). (Refer to the Edig@s AvailabilityCodeTypeCodeList for the list of valid codes).	AvailabilityCodeType	

2.1.8 Bid

The identification of a bid.

2.1.8.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of a specific bid.	IdentificationType	

2.1.9 CapacityType

The identification of the type of capacity being referred to.

2.1.9.1 List of Attributes

Name	Description	Datatype	Multiplicity
code		CapacityCodeType	

2.1.10 ComplementaryText

Complementary information provided in textual form.

2.1.10.1 List of Attributes

Name	Description	Datatype	Multiplicity
text	Complementary information provided in textual form.	TextType	

2.1.11 Composition

A coded identification of the composition of gas.

209 2.1.11.1 List of Attributes

Name	Description	Datatype	Multiplicity
quantityNatureCode	The code identifying a given gas characteristic. (Refer to the Edig@s QuantityNatureCodeTypeCodeList for the list of valid codes).	QuantityNatureCodeType	[0..1]
chemicalCompoundCode	A code defining a chemical compound. (Refer to the Edig@s ChemicalCompoundCodeTypeCodeList for the list of valid codes).	ChemicalCompoundCodeType	[0..1]
physicalPropertyCode	A code defining a physical property. (Refer to the Edig@s PhysicalPropertyCodeTypeCodeList for the list of valid codes).	PhysicalPropertyCodeType	[0..1]
MeteorologicalPropertyCode	A code defining a meteorological property. (Refer to the Edig@s MeteorologicalPropertyCodeTypeCodeList for the list of valid codes).	MeteorologicalPropertyCodeType	[0..1]
quantityCodeType		QuantityCodeType	

210 2.1.12 ConnectionPoint

211 An interconnection point, whether it is physical or virtual, between two or more Member States as well as
 212 interconnections between adjacent entry-exit-systems within the same Member States.

213 2.1.12.1 List of Attributes

Name	Description	Datatype	Multiplicity
indicatorCode	A coded indicator that provides a yes/no possibility. (Refer to the Edig@s IndicatorCodeTypeCodeList for the list of valid codes).	IndicatorCodeType	[0..1]
identification	The identification of a connection point.	MeasurementPointType	[0..1]
bookablePointIdentification	The identification of a given connection point, Transmission System Operator and direction.	BookablePointType	[0..1]

214 2.1.13 Currency

215 The identification of a monetary unit.

216 2.1.13.1 List of Attributes

Name	Description	Datatype	Multiplicity
currencyCode	The identification of the formal code for a currency (ISO 4217). (Refer to the Edig@s CurrencyCodeTypeCodeList for the list of valid codes).	CurrencyCodeType	
exchangeRate	The rate of exchange to convert the amount in a currency to Euro.	Decimal	[0..1]

217 2.1.14 DateAndOrTime

218 The date and/or time of an event.

219 The date as "YYYY-MM-DD". The time as "hh:mm:ss".

220 Both of which conforms with the ISO 8601.

221 2.1.14.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
date	The date of an event in UTC.	Date	
time	The time of an event.	Time	[0..1]

222 2.1.15 [DateTime](#)

223 Date and time as "YYYY-MM-DDThh:mm:ss.sssZ", which conforms with the ISO 8601 UTC time zone.

224 **Note:** The time within Edig@s is expressed in UTC.

225 2.1.15.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
dateTime	The date and time of an event expressed as "YYYY-MM-DDThh:mm:ss.sssZ", which conforms with the ISO 8601 UTC time zone Note: The time within Edig@s is always expressed in UTC.	DateTime	

226 2.1.16 [Document](#)

227 This class provides the basic information needed to describe most electronic documents.

228 2.1.16.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	IdentificationType	[0..1]
version	Version of the document being sent. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	Version_Integer	[0..1]
documentCode	Coded representation of the type of the electronic document. (Refer to the Edig@s DocumentCodeTypeCodeList for the list of valid codes).	DocumentCodeType	[0..1]
creationDateTime	Date and time of the creation of the current document expressed in UTC.	DateTimeType	[0..1]
validityPeriod	The start and end date and time expressed in UTC of the period of validity covered in the document.	TimeIntervalType	[0..1]
payloadName	The name of a specific payload being referenced in the document.	LongIdentificationType	[0..1]
applicationContext	The application context is used to identify a particular context (a location identification, an application	LocationType	[0..1]

	identification, etc.) that is relevant to the recipient of the document.		
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2.1.17 Formula

Identification of formula used to calculate the quantity.

2.1.17.1 List of Attributes

Name	Description	Datatype	Multiplicity
formula		FormulaType	

2.1.18 GasDirection

The direction of a gas flow.

2.1.18.1 List of Attributes

Name	Description	Datatype	Multiplicity
gasDirectionCode	A code identifying the direction of a gas flow. (Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).	GasDirectionCodeType	

2.1.19 Indication

A boolean indicator.

2.1.19.1 List of Attributes

Name	Description	Datatype	Multiplicity
indicatorCode	A boolean indicator of the type "yes" or "no". (Refer to the Edig@s IndicatorCodeTypeCodeList for the list of valid codes).	IndicatorCodeType	

2.1.20 MarketArea

A specific area that delimits a market.

2.1.20.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	Identification of an area delimiting a market.	AreaType	

2.1.21 MarketParticipant

A party participating in the market.

2.1.21.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of the party participating in the market.	PartyType	

2.1.22 MarketRole

The role played by a market participant in the market.

2.1.22.1 List of Attributes

Name	Description	Datatype	Multiplicity
roleCode	A code identifying the role played by a market participant in the market.	RoleCodeType	

	(Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes)		
--	--	--	--

2.1.23 Measurement

The identification of a measurement and the device used in measurement.

2.1.23.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of a measurement.	IdentificationType	[0..1]
type	A code identifying a type of measurement device. (Refer to the Edig@s MeasurementCodeTypeCodeList for the list of valid codes).	MeasurementCodeType	[0..1]

2.1.24 MeasureType

The identification of a type of device used for measurement.

2.1.24.1 List of Attributes

Name	Description	Datatype	Multiplicity
measurementCode	A code identifying a type of measurement device. (Refer to the Edig@s MeasurementCodeTypeCodeList for the list of valid codes).	MeasurementCodeType	

2.1.25 MeasureUnit

The identification of a unit of measure.

2.1.25.1 List of Attributes

Name	Description	Datatype	Multiplicity
unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	UnitOfMeasureCodeType	

2.1.26 Meter

The identification of a meter.

2.1.26.1 List of Attributes

Name	Description	Datatype	Multiplicity
identification	The identification of a specific measurement point.	MeasurementPointType	

2.1.27 Name

The name of an object.

2.1.27.1 List of Attributes

Name	Description	Datatype	Multiplicity
text	A string of characters providing the name of an object.	String	

2.1.28 NominationType

The identification of how a nomination is carried out.

2.1.28.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
nominationCode	A code indicating how a nomination is carried out (i.e. single sided or double sided). (Refer to the Edig@s NominationCodeTypeCodeList for the list of valid codes).	NominationCodeType	

2.1.29 [Period](#)

The period that the dependent information is for.

2.1.29.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	TimeIntervalType	
rate	The rate that determines the dependent information.	PercentageType	[0..1]

2.1.30 [PeriodSpan](#)

Definition of the time span of a period.

2.1.30.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
periodSpanCode	A code providing the time span of a given period (daily, weekly, monthly, etc.). (Refer to the Edig@s PeriodSpanCodeTypeCodeList for the list of valid codes).	PeriodSpanCodeType	

2.1.31 [Price](#)

The price of an object.

2.1.31.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
amount	The monetary amount of a price.	Amount_Decimal	
priceCode	The coded type of a price. (Refer to the Edig@s PriceCodeTypeCodeList for the list of valid codes).	PriceCodeType	[0..1]

2.1.32 [Procedure](#)

The identification of the auction procedure used.

2.1.32.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
procedureCode	A code identifying a specific auction procedure. (Refer to the Edig@s ProcedureCodeTypeCodeList for the list of valid codes).	ProcedureCodeType	

2.1.33 [Quantity](#)

The quantity of an object.

279 2.1.33.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
amount	The amount of a quantity.	Amount_Decimal	[0..1]
quantityCode	A code defining the type of a quantity. (Refer to the Edig@s QuantityCodeTypeCodeList for the list of valid codes).	QuantityCodeType	[0..1]

280 2.1.34 [Rate](#)

281 The ratio between related quantities.

282 2.1.34.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
value	A rate expressed as a percentage.	PercentageType	

283 2.1.35 [Reason](#)

284 The motivation of an act.

285 2.1.35.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
reasonCode	The motivation of an act in coded form. (Refer to the Edig@s ReasonCodeTypeCodeList for the list of valid codes).	ReasonCodeType	[0..1]
text	The textual explanation corresponding to the reason code.	TextType	[0..1]

286 2.1.36 [Reference](#)

287 The identification of a reference.

288 2.1.36.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
identification	The coded identification of a reference.	IdentificationType	[0..1]
referenceCode	Identification of a type of reference. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).	ReferenceCodeType	[0..1]

289 2.1.37 [ResourceObject](#)

290 The identification of a resource object.

291 2.1.37.1 [List of Attributes](#)

Name	Description	Datatype	Multiplicity
identification	The identification of a resource object.	ResourceObjectType	[0..1]
resourceTypeCode	The coded identification of the type of a resource object. (Refer to the Edig@s ResourceTypeCodeTypeCodeList for the list of valid codes).	ResourceTypeCode Type	[0..1]
alternate	The identification of a resource object that can be used as an alternate to the main resource object.	ResourceObjectType	[0..1]

292 2.1.38 [Sequence](#)

293 A class identifying a sequence.

294 **2.1.38.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
position	The identification of a given sequence value.	PositionType	

295 **2.1.39** **Status**

296 The status of an object.

297 **2.1.39.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
statusCode	A code providing the status of an object. (Refer to the Edig@s StatusCodeTypeCodeList for the list of valid codes).	StatusCodeType	

298 **2.1.40** **Taxonomy**

299 A set of characteristics that are used to describe an object.

300 **2.1.40.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
energyProductType		EnergyProductCodeType	[0..1]
availabilityType		AvailabilityCodeType	[0..1]

301 **2.1.41** **Time**

302 A period of time which may exceed 24 hours.

303 **2.1.41.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
time	The time respecting the ISO 8601 format.	Time	

304 **2.1.42** **TimeSeries**

305 A set of time-ordered quantities being exchanged in relation to a product.

306 **2.1.42.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
periodSpanCode	The coded span of time such as yearly, monthly, etc. (Refer to the Edig@s PeriodSpanCodeTypeCodeList for the list of valid codes).	PeriodSpanCodeType	[0..1]
businessCode	The business type of a time series. (Refer to the Edig@s BusinessCodeTypeCodeList for the list of valid codes).	BusinessCodeType	[0..1]

307 **2.1.43** **Transaction**

308 The identification of a given transaction within the scope of the process.

309 **2.1.43.1** [List of Attributes](#)

Name	Description	Datatype	Multiplicity
identification	The identification of a transaction.	IdentificationType	[0..1]

transactionCode	A code identifying a specific type of transaction. (Refer to the Edig@s TransactionCodeTypeCodeList for the list of valid codes).	TransactionCodeType	[0..1]
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310 2.1.44 TransferType

311 An indication of the type of secondary market trade that is to take place.

312 2.1.44.1 List of Attributes

Name	Description	Datatype	Multiplicity
transferCode	A coded indication of the type of a secondary market trade that is transferred. (Refer to the Edig@s TransferCodeTypeCodeList for the list of valid codes).	TransferCodeType	[0..1]

313 2.2 Edig@s Core Component Diagrams

314

2.2.1 Account

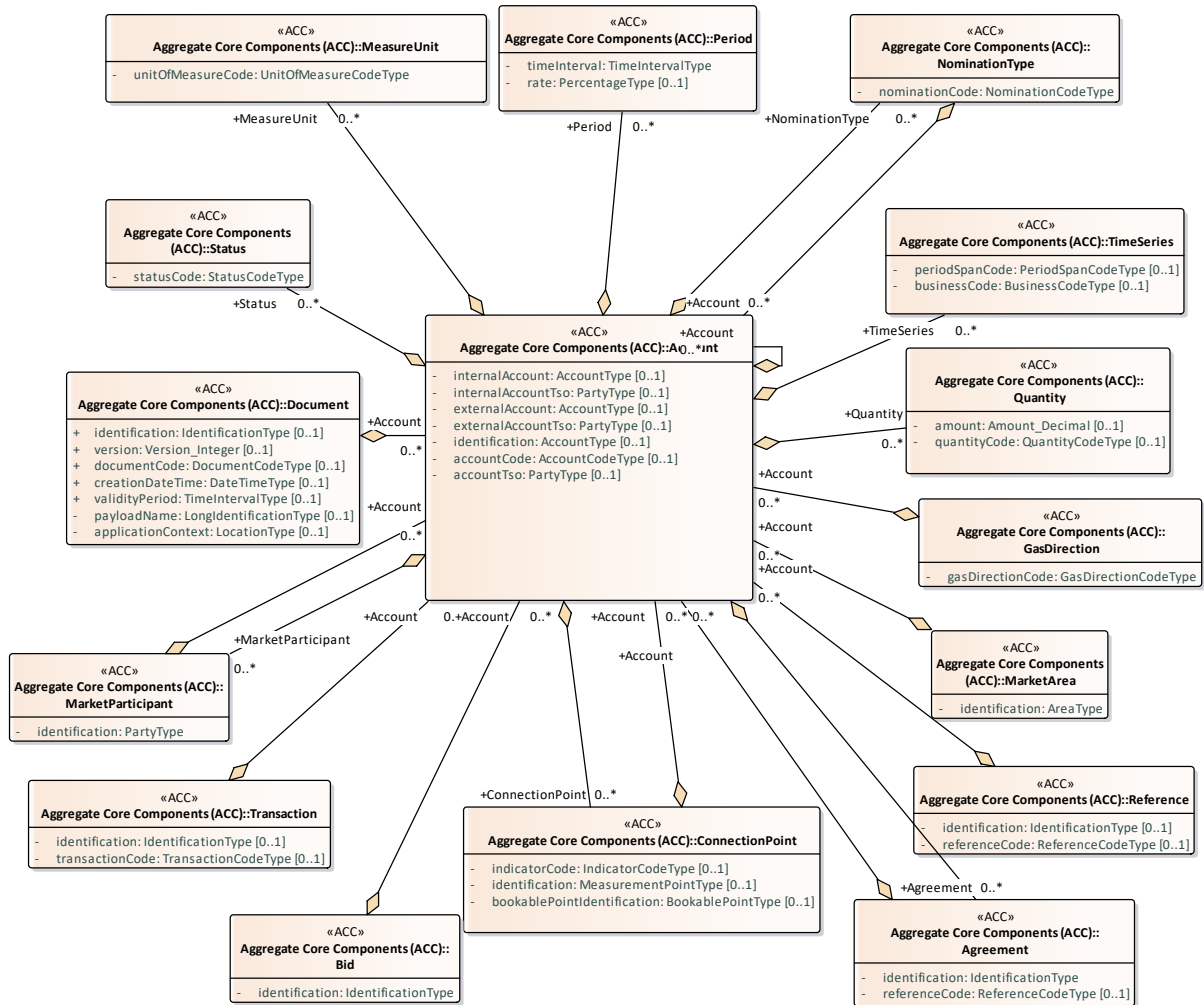


Figure: 1 Account

2.2.2 AccountDirection

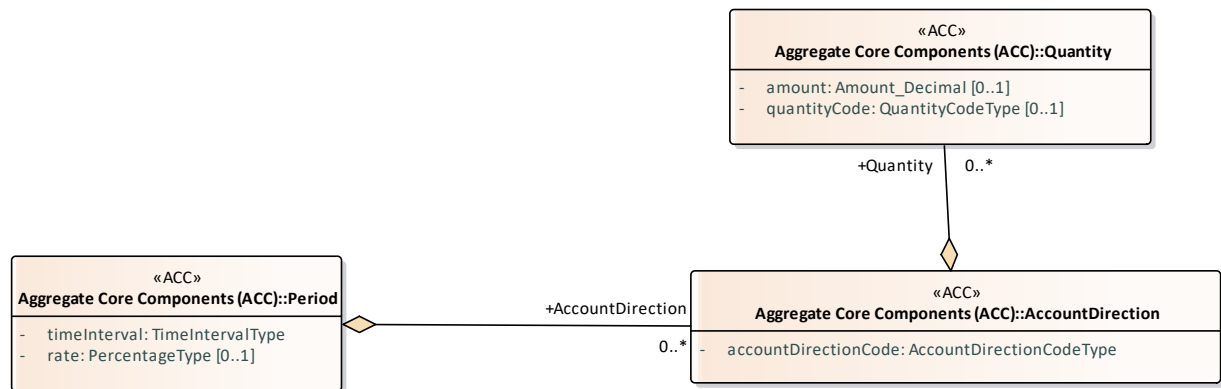


Figure: 2 AccountDirection

2.2.3 Agreement

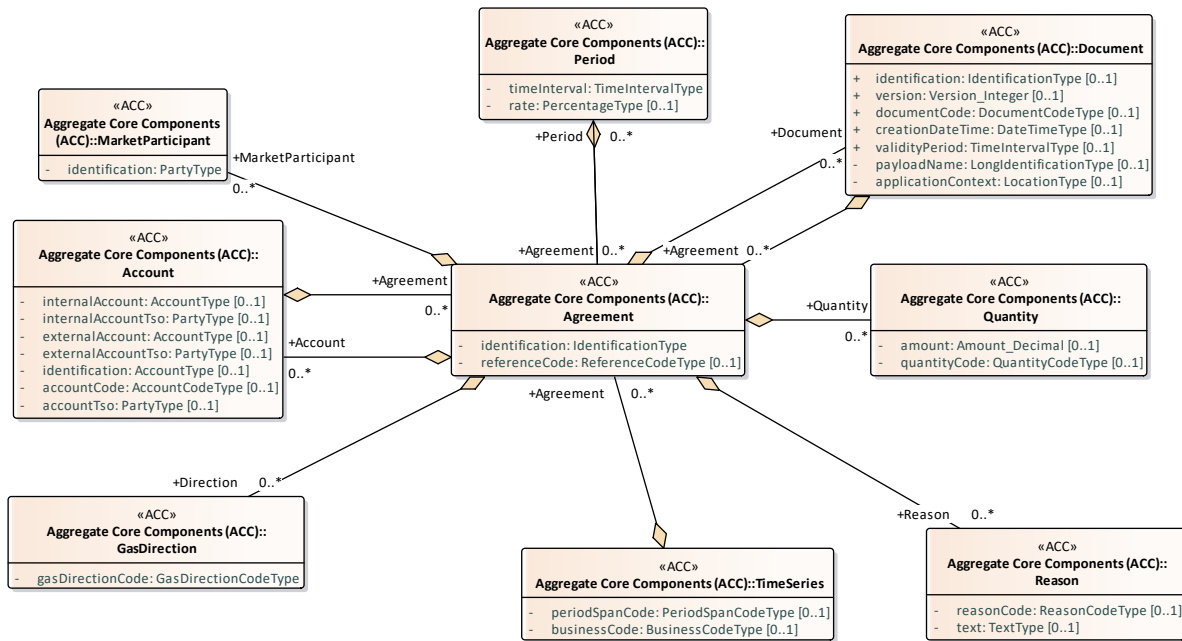


Figure: 3 Agreement

2.2.4 AllocationScheme

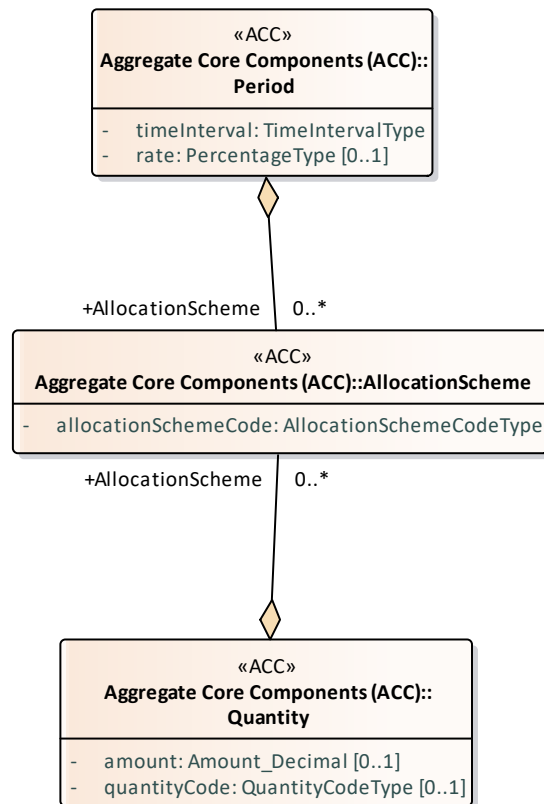
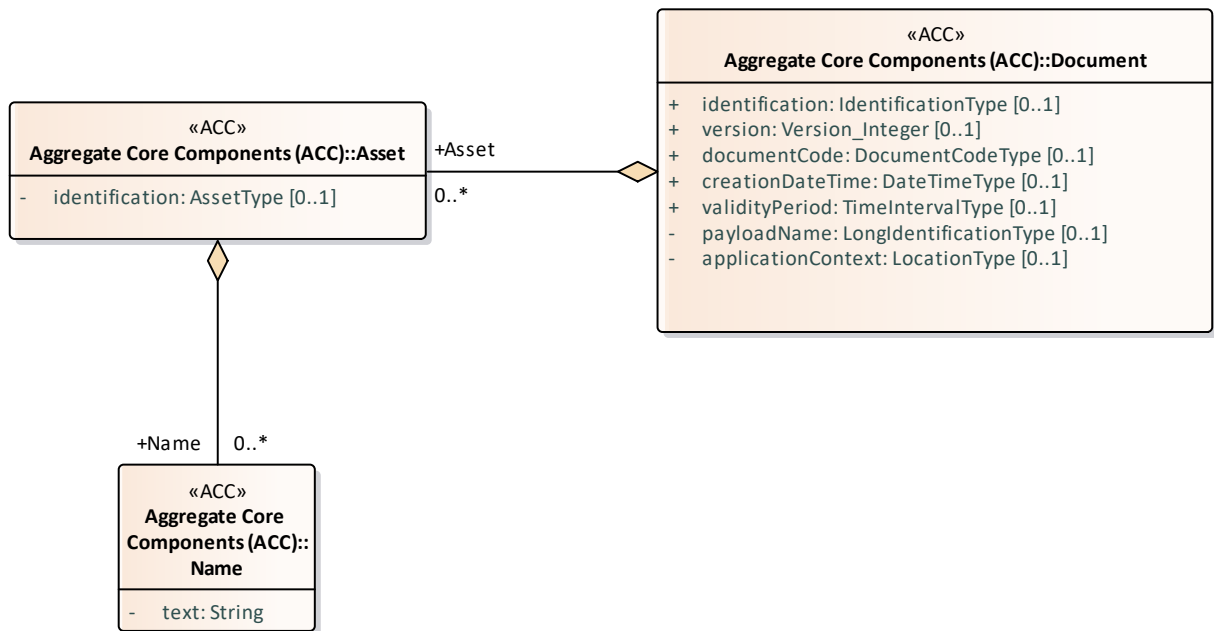


Figure: 4 AllocationScheme

335

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2.2.5 Asset



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Figure: 5 Asset

2.2.6 AttributeInstance

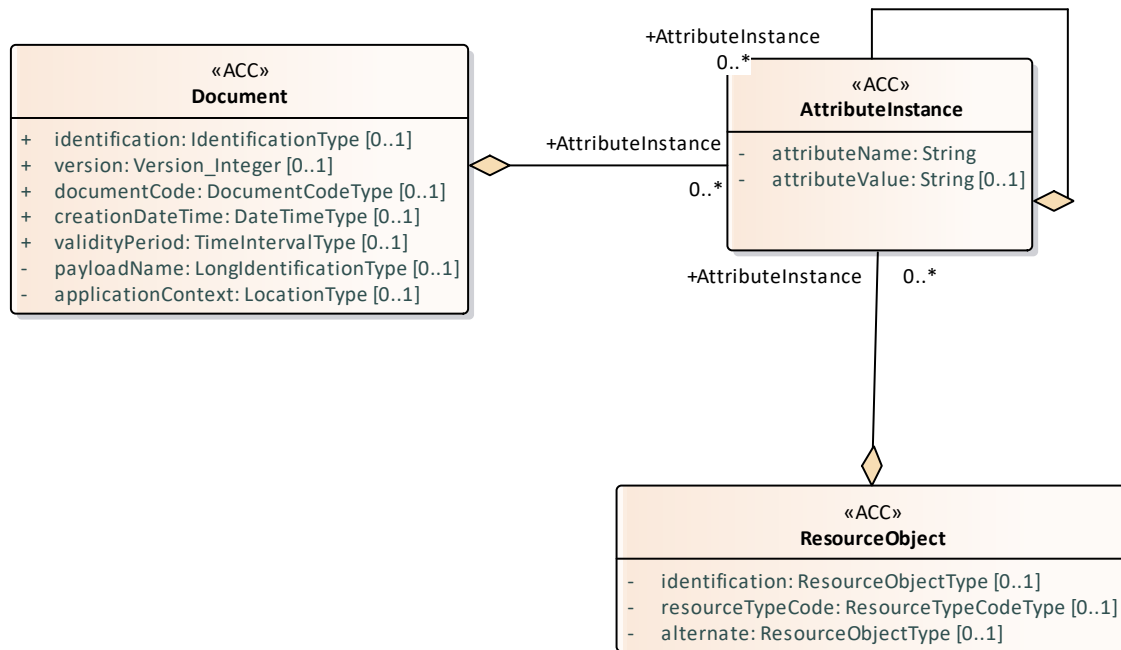


Figure: 6 AttributeInstance

2.2.7 Availability

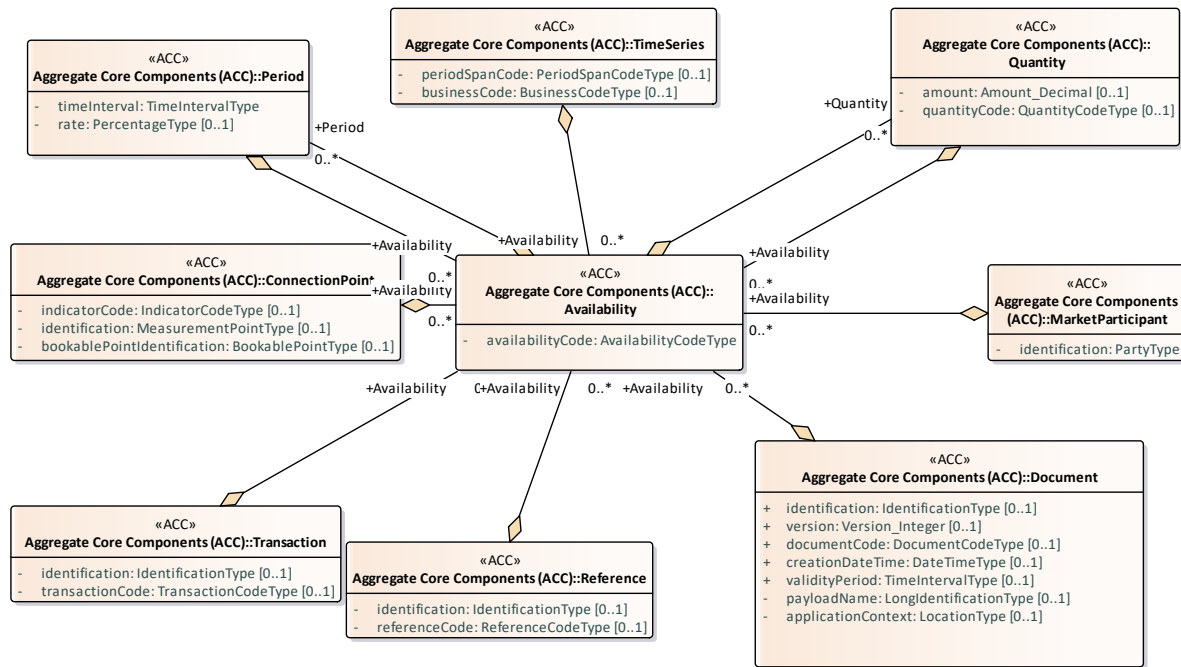


Figure: 7 Availability

2.2.8 Bid

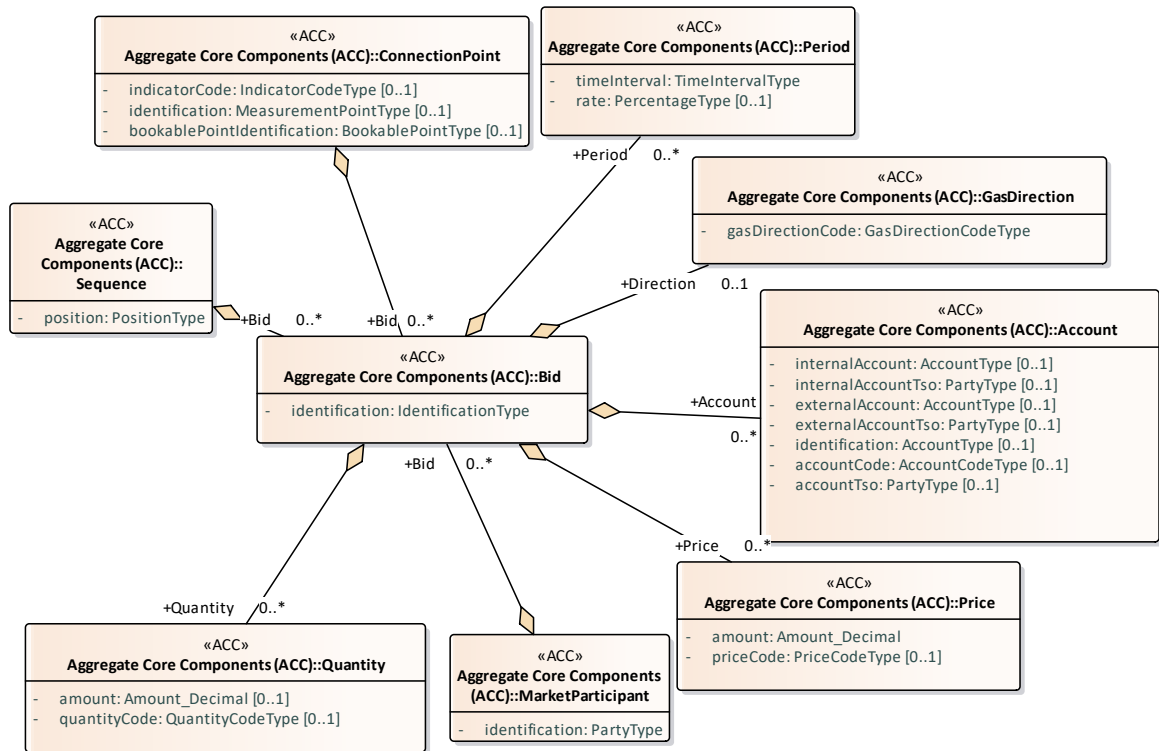


Figure: 8 Bid

2.2.9 ComplementaryText

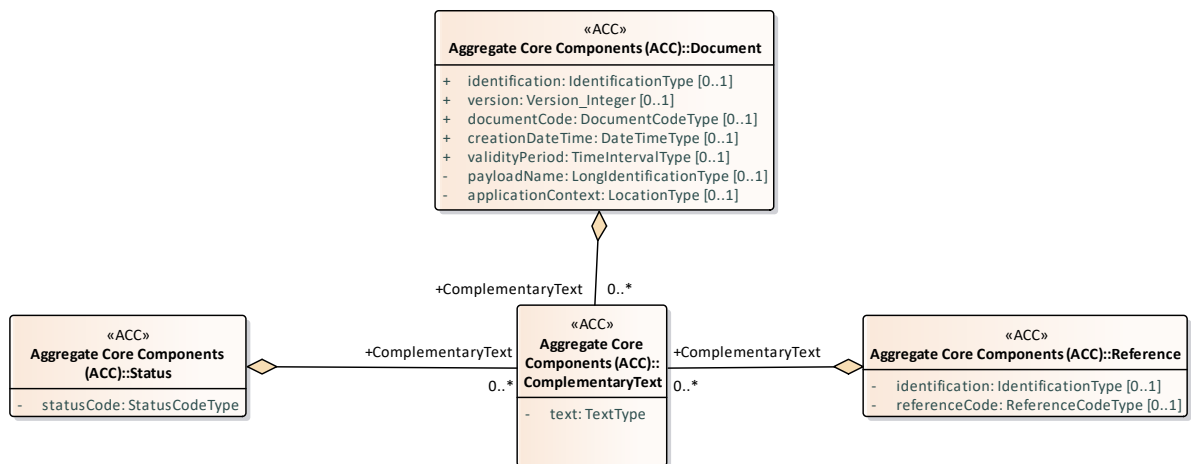


Figure: 9 ComplementaryText

2.2.10 Composition

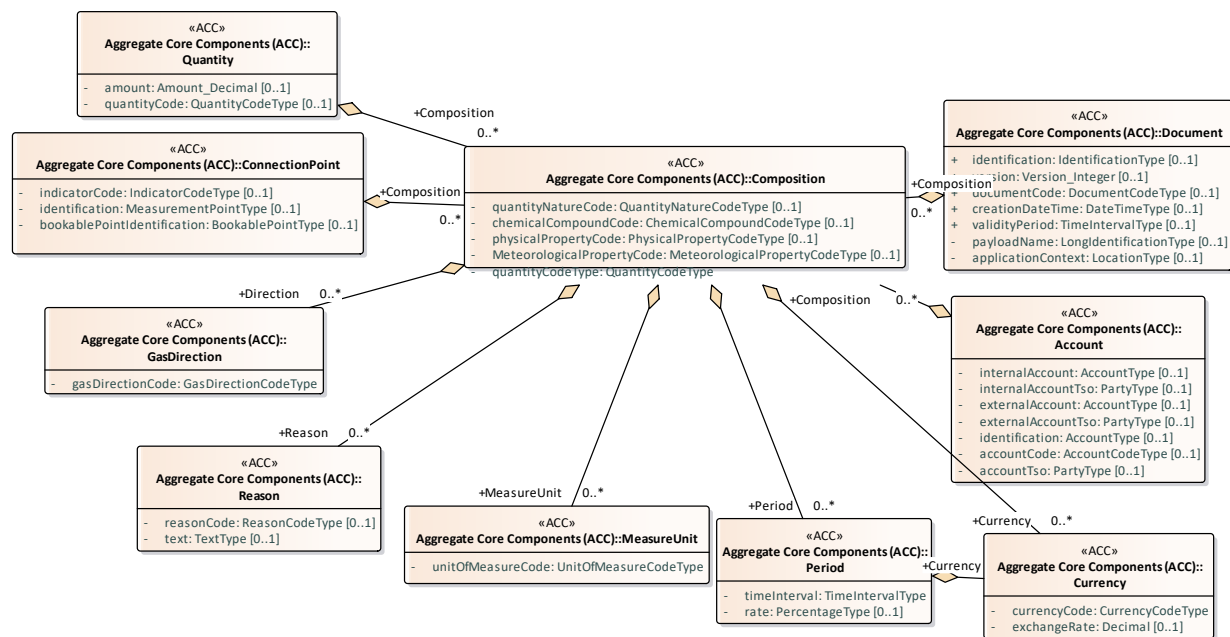


Figure: 10 Composition

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Figure: 11 ConnectionPoint

2.2.12 Currency

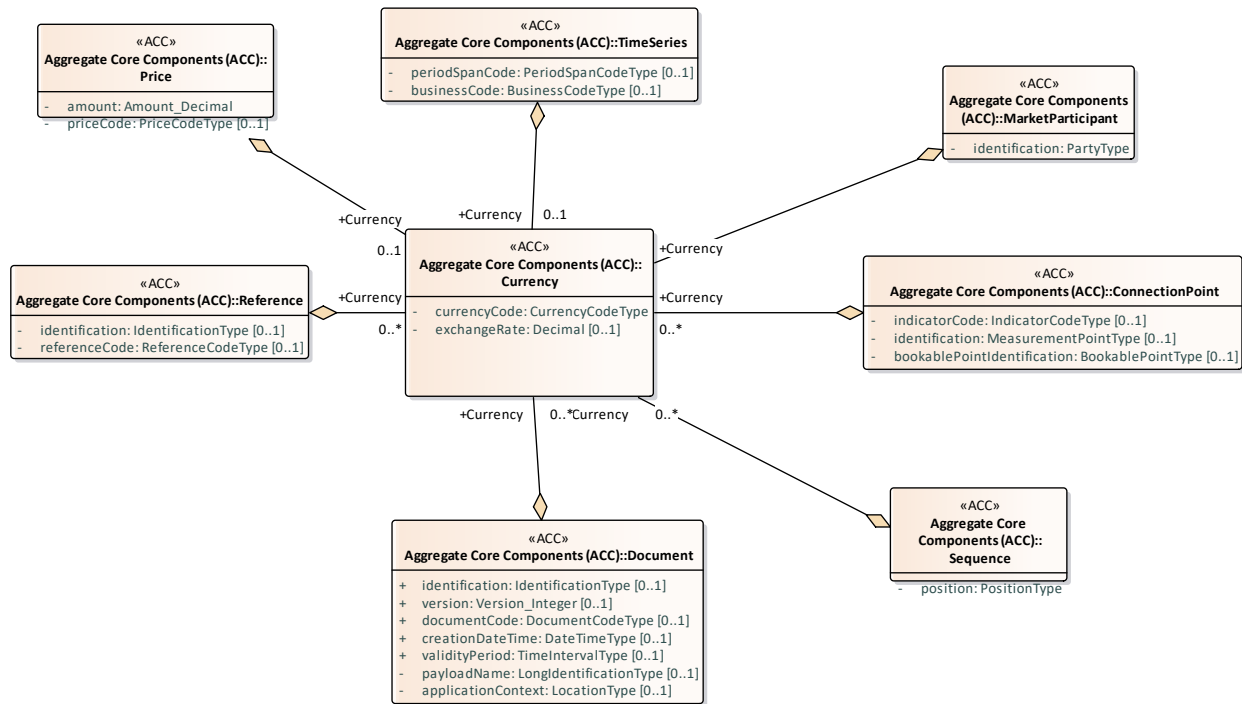
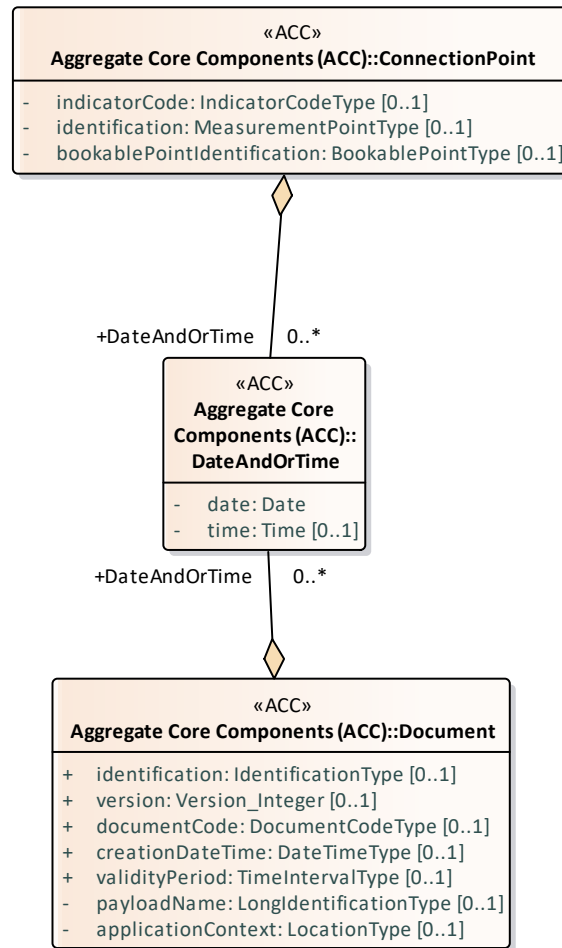


Figure: 12 Currency

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376 **2.2.13** **DateAndOrTime**

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Figure: 13 DateAndOrTime

2.2.14 DateTime

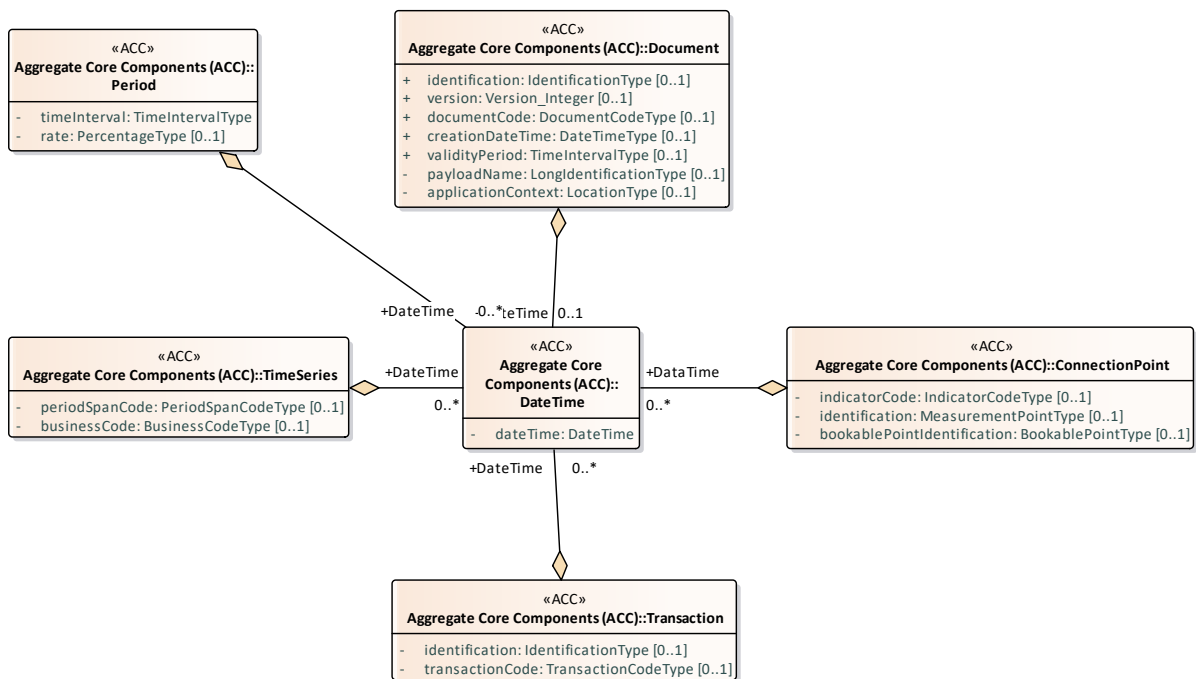


Figure: 14 DateTime

2.2.15 Document

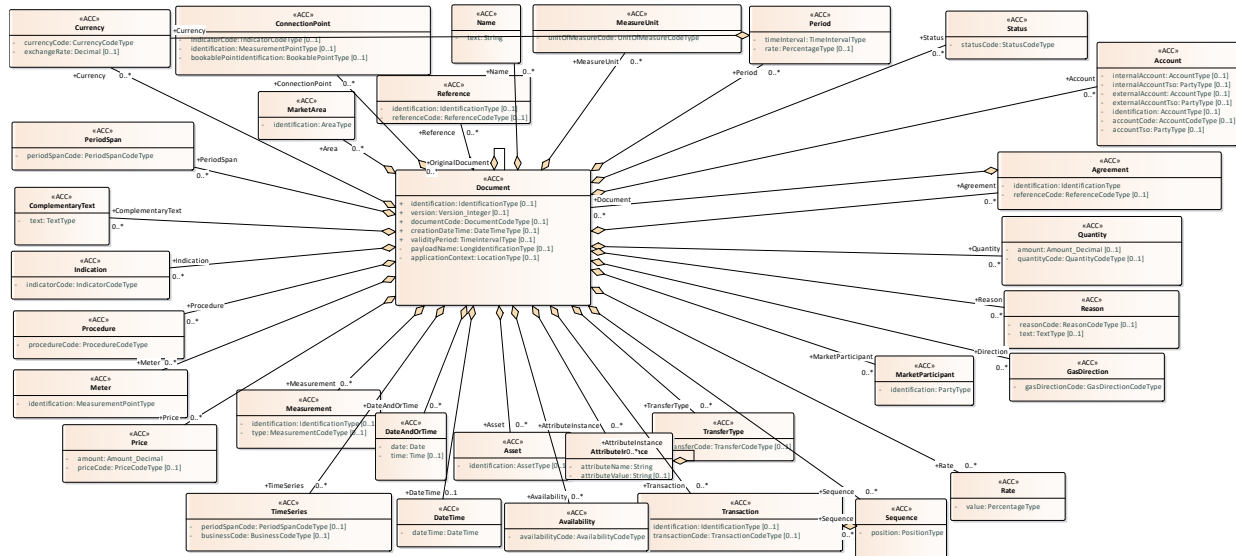


Figure: 15 Document

2.2.16 GasDirection

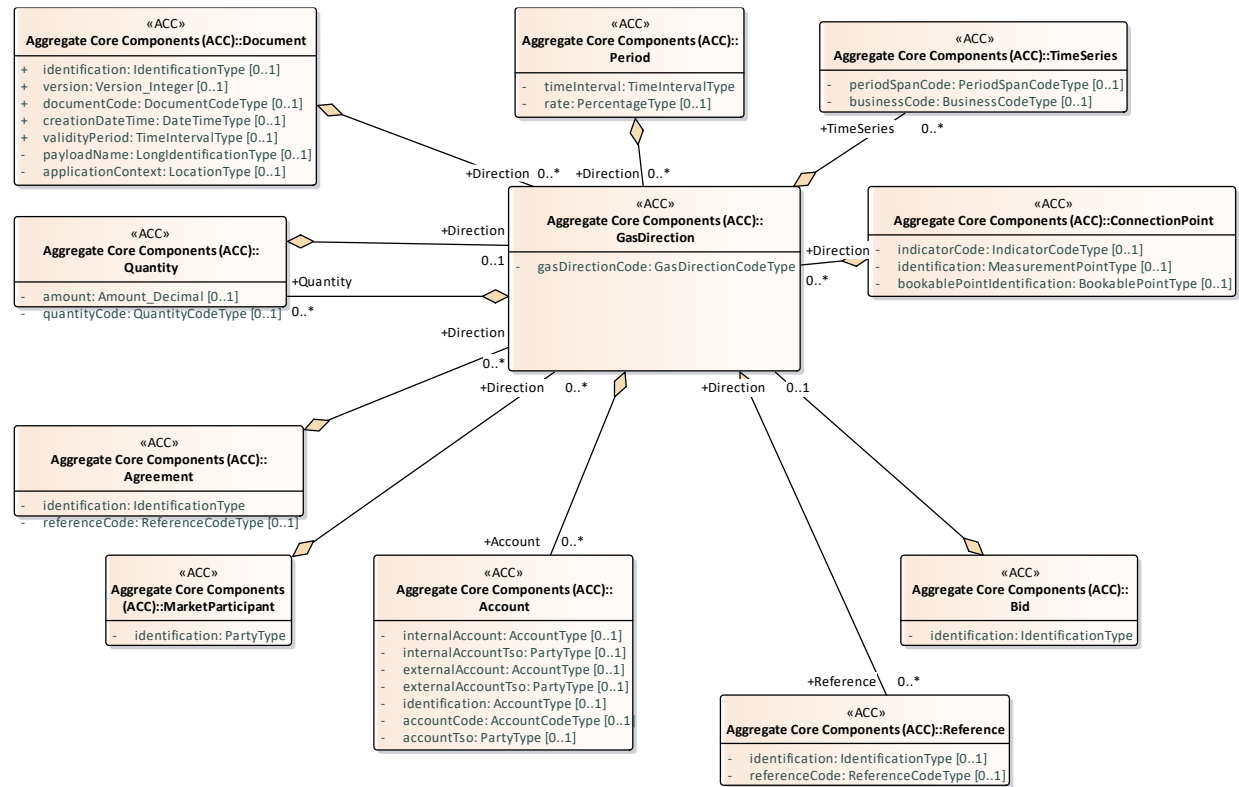


Figure: 16 GasDirection

2.2.17 Indication

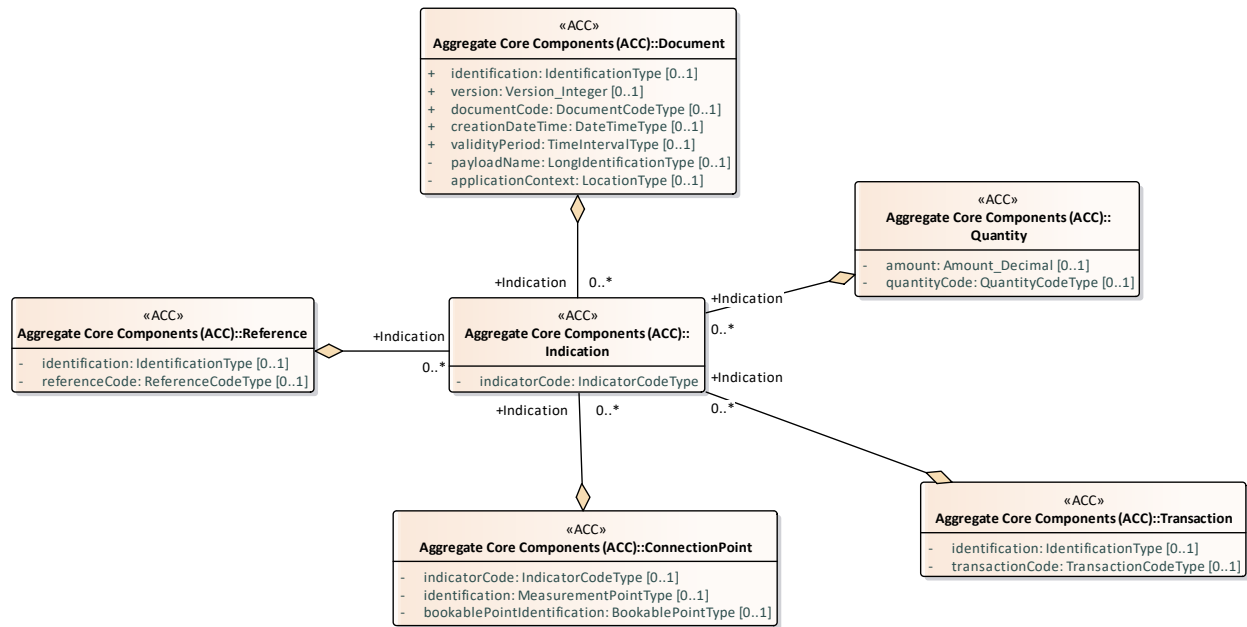


Figure: 17 Indication

2.2.18 MarketArea

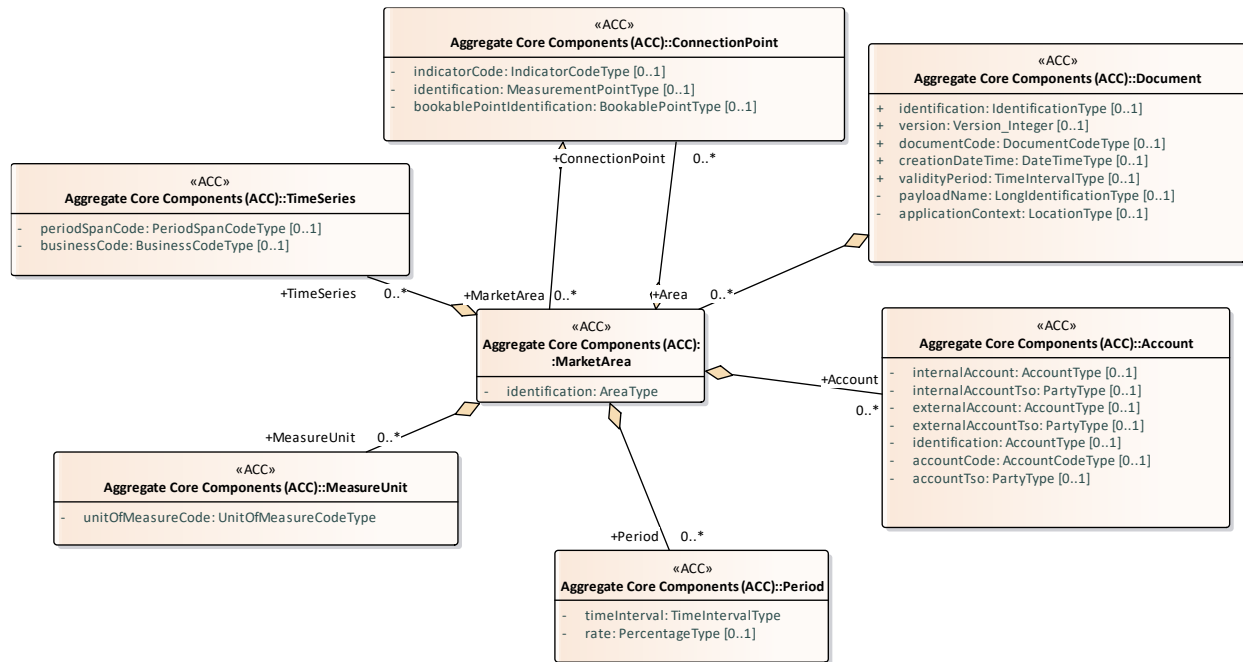


Figure: 18 MarketArea

2.2.19 MarketParticipant

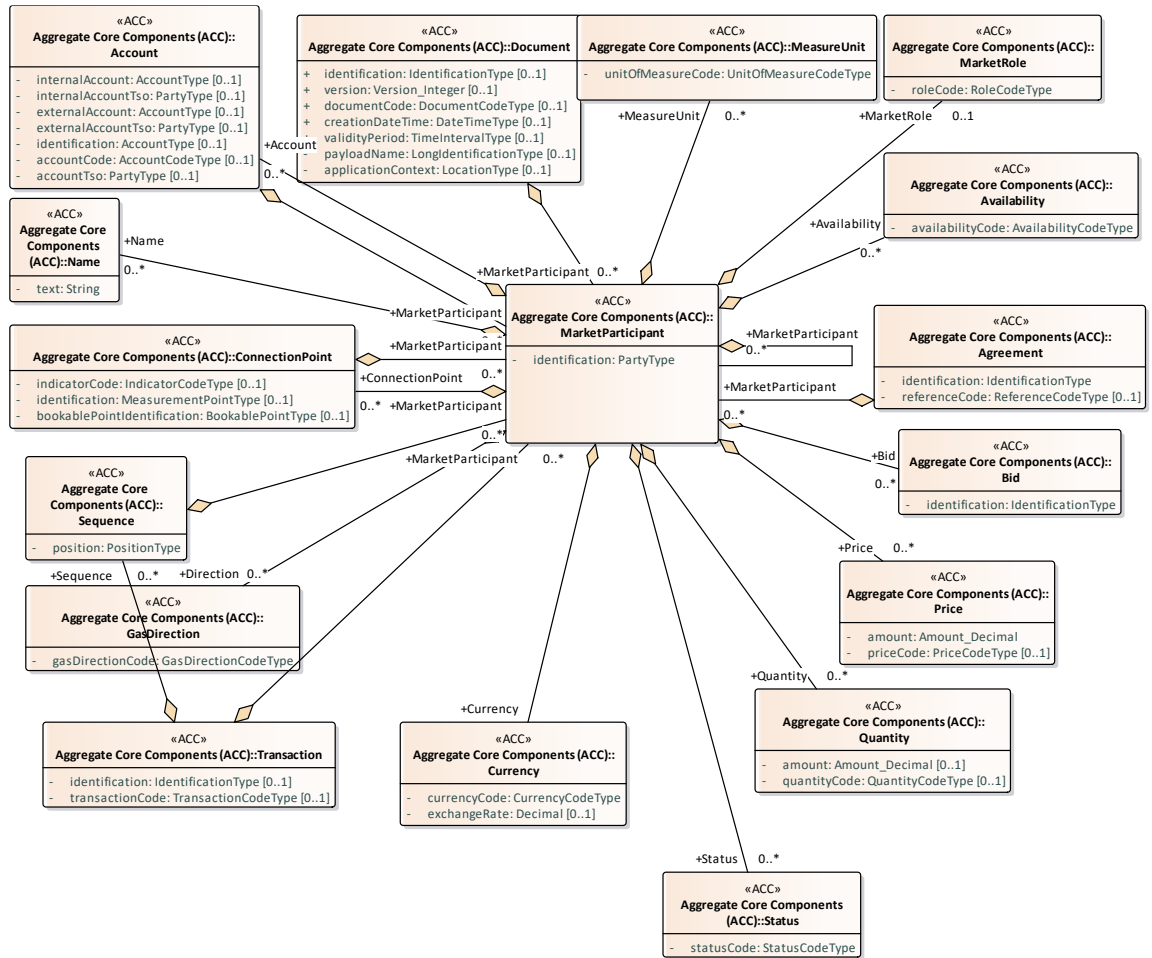


Figure: 19 MarketParticipant

2.2.20 MarketRole

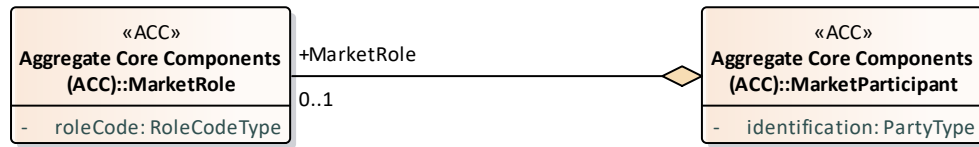
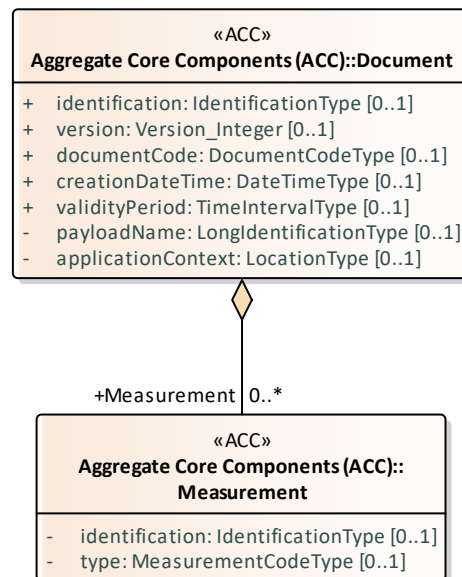


Figure: 20 MarketRole

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416 **2.2.21 Measurement**

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Figure: 21 Measurement

2.2.22 MeasureType

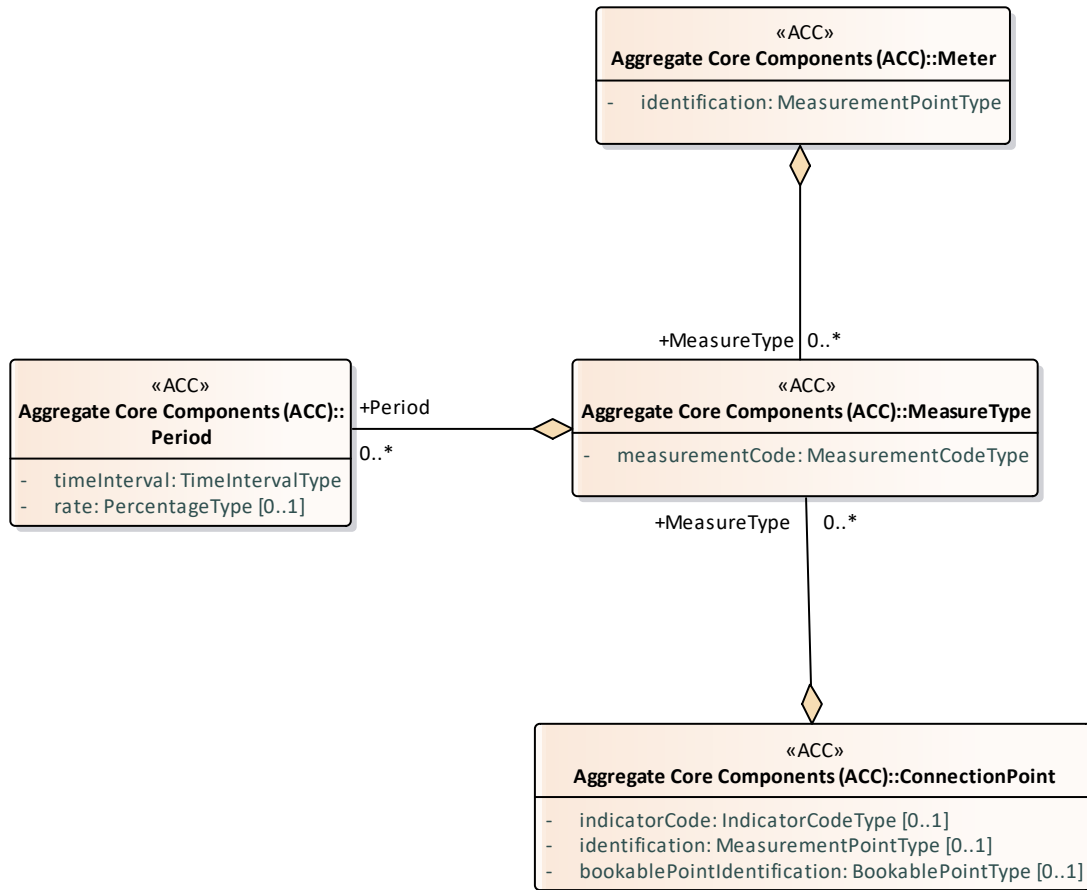


Figure: 22 MeasureType

2.2.23 MeasureUnit

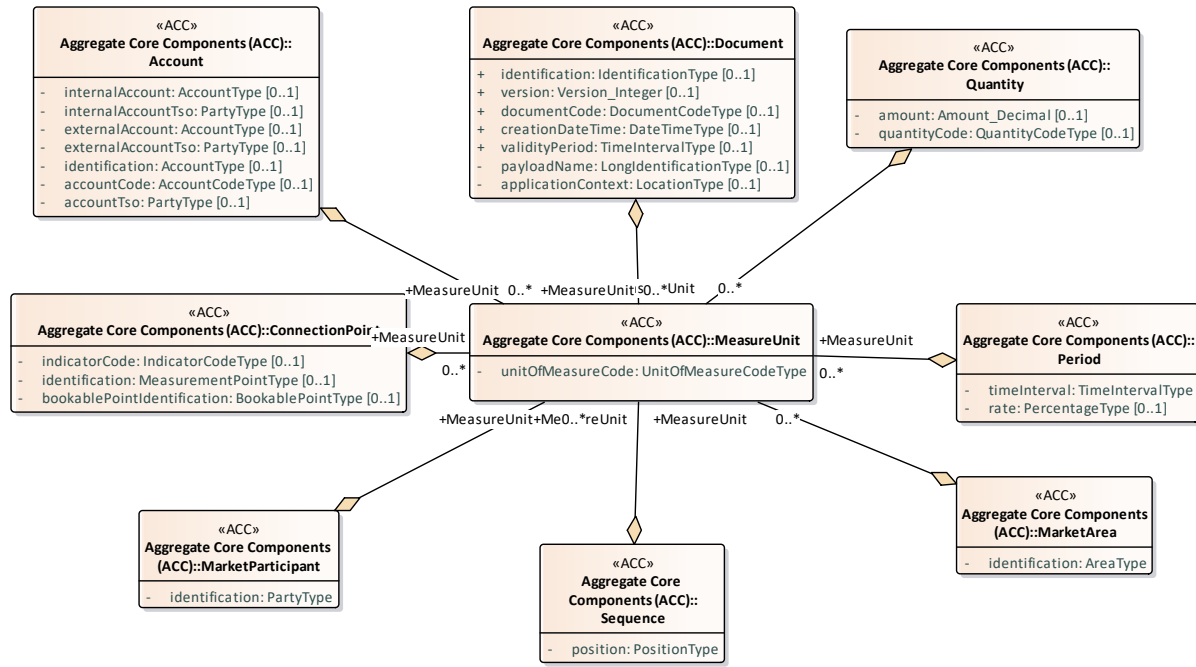


Figure: 23 MeasureUnit

2.2.24 Meter

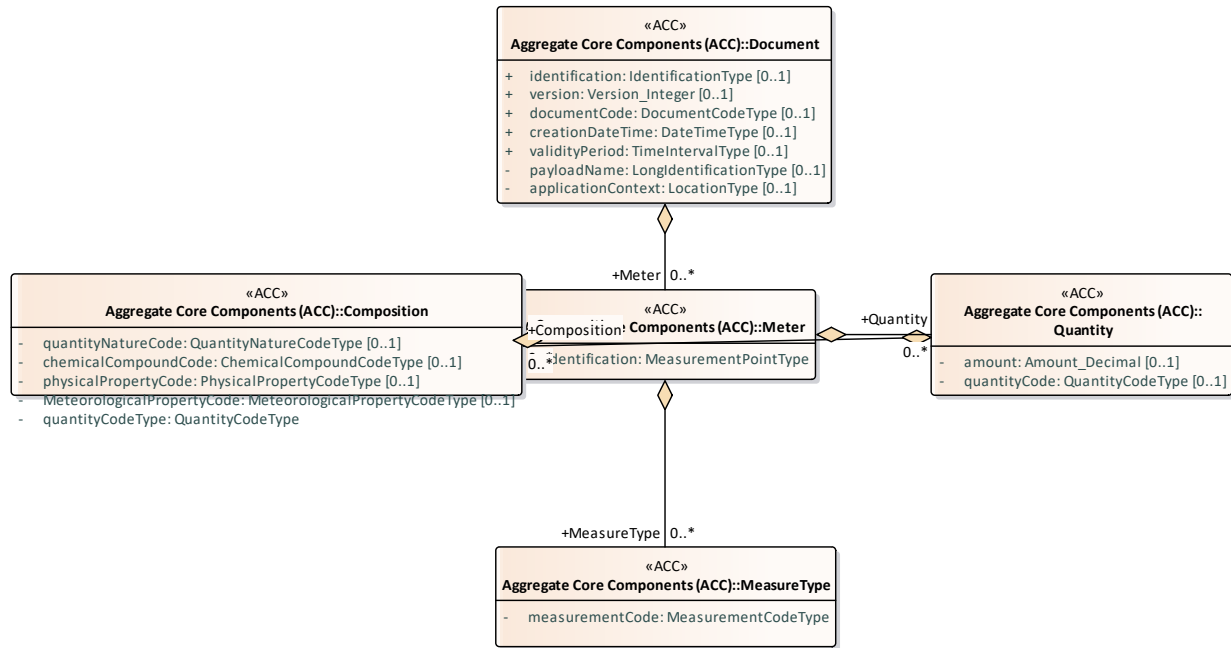


Figure: 24 Meter

2.2.25 Name

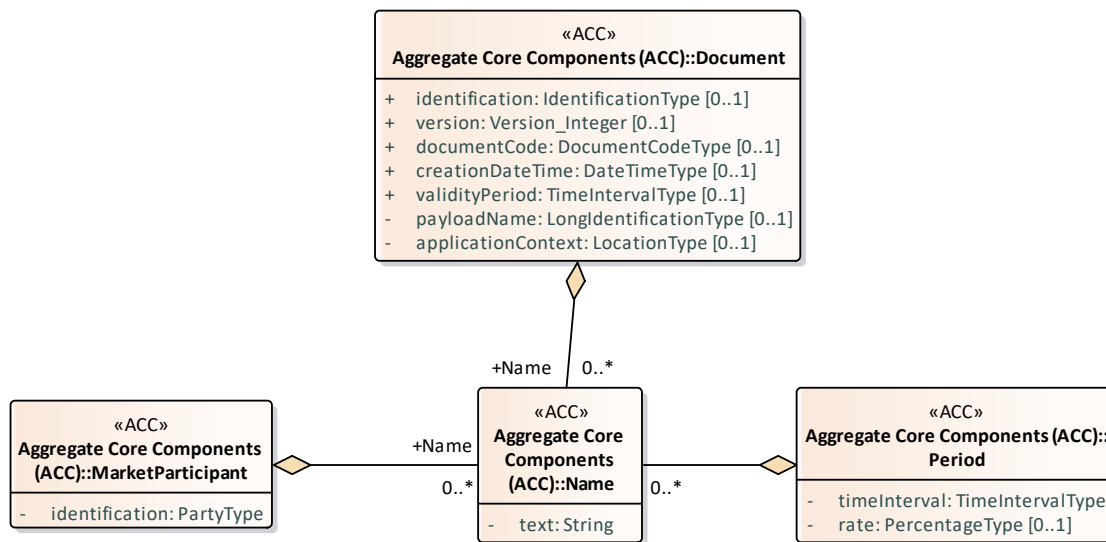


Figure: 25 Name

2.2.26 NominationType

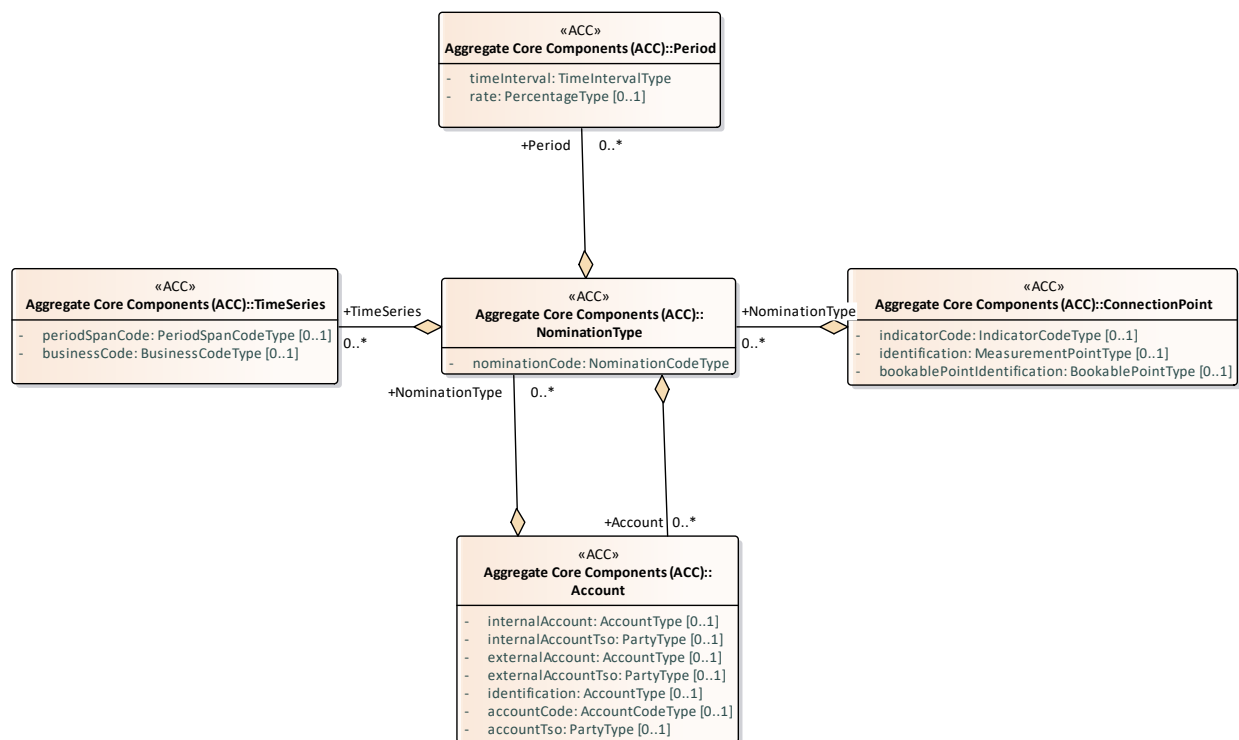
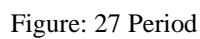


Figure: 26 NominationType

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Period



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2.2.28 PeriodSpan

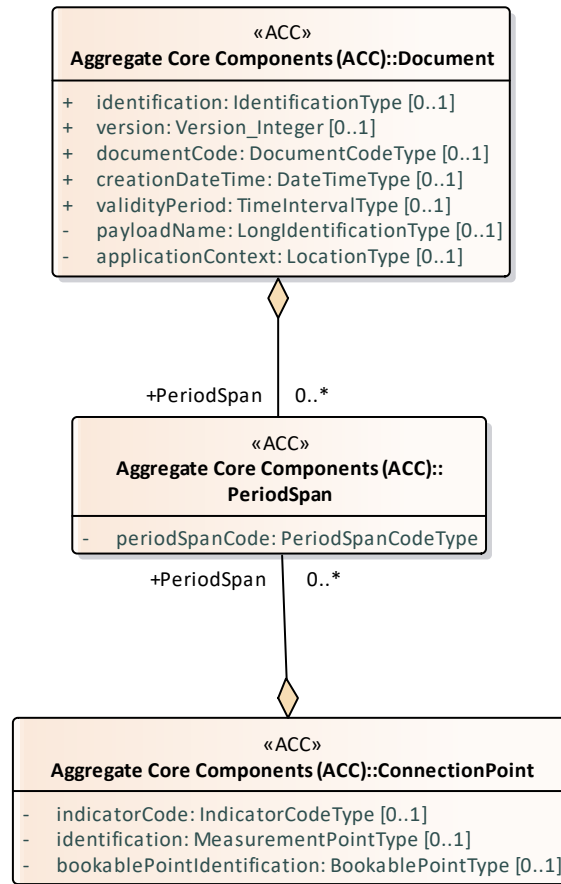


Figure: 28 PeriodSpan

2.2.29 Price

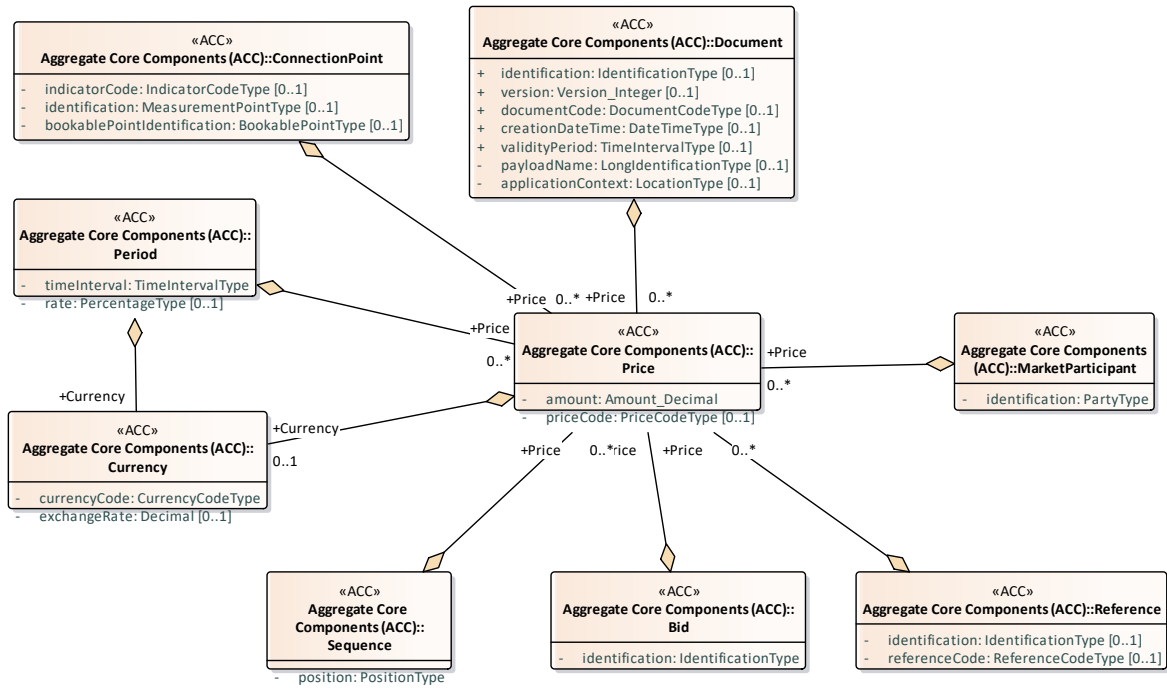


Figure: 29 Price

2.2.30 Procedure

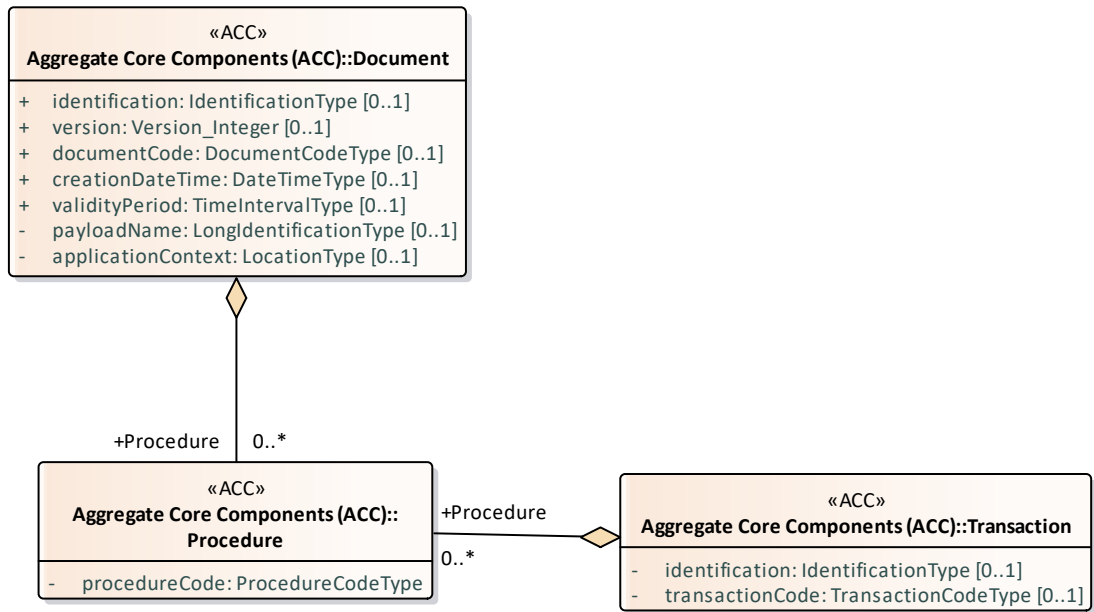


Figure: 30 Procedure

2.2.31 Quantity

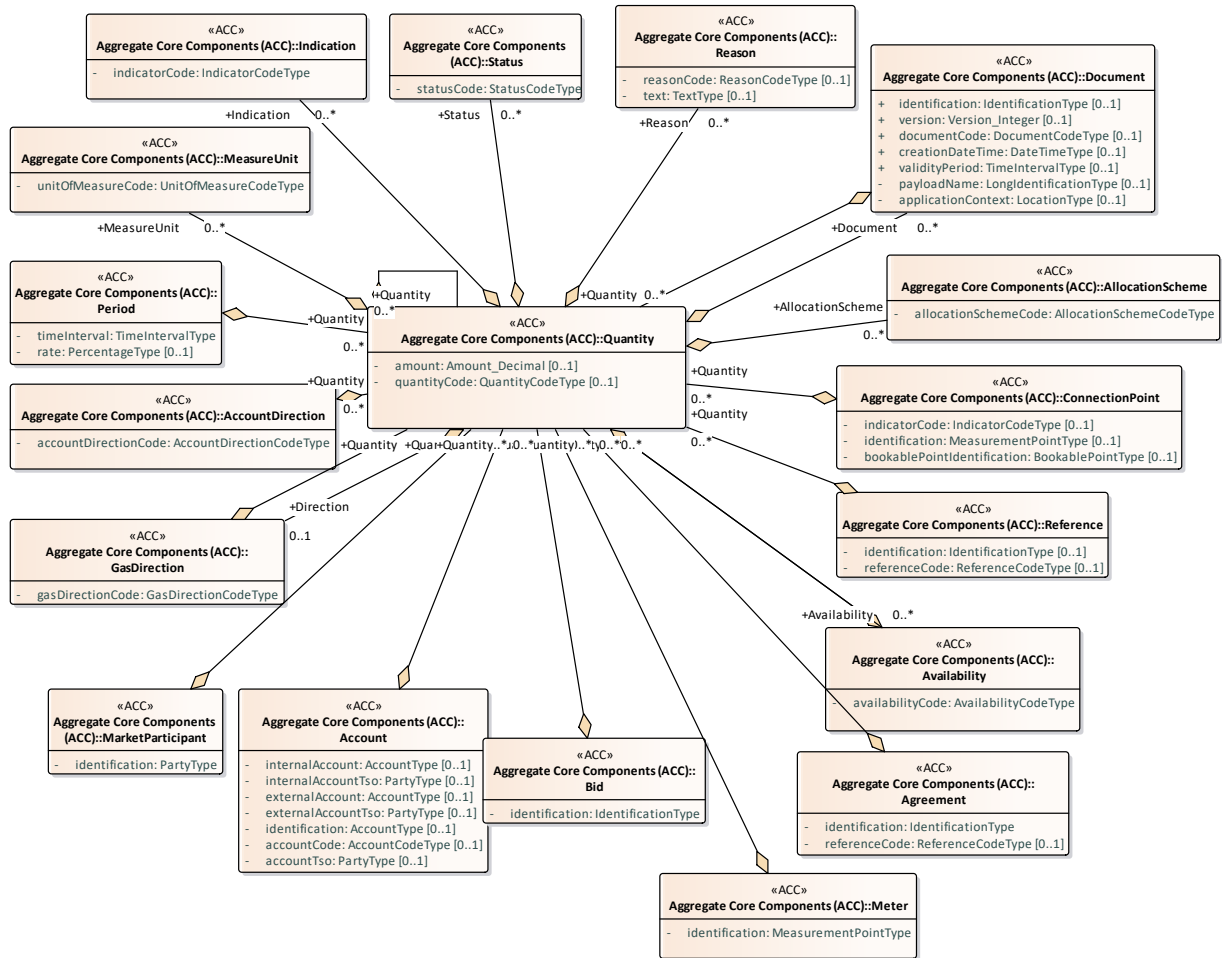


Figure: 31 Quantity

2.2.32 Rate

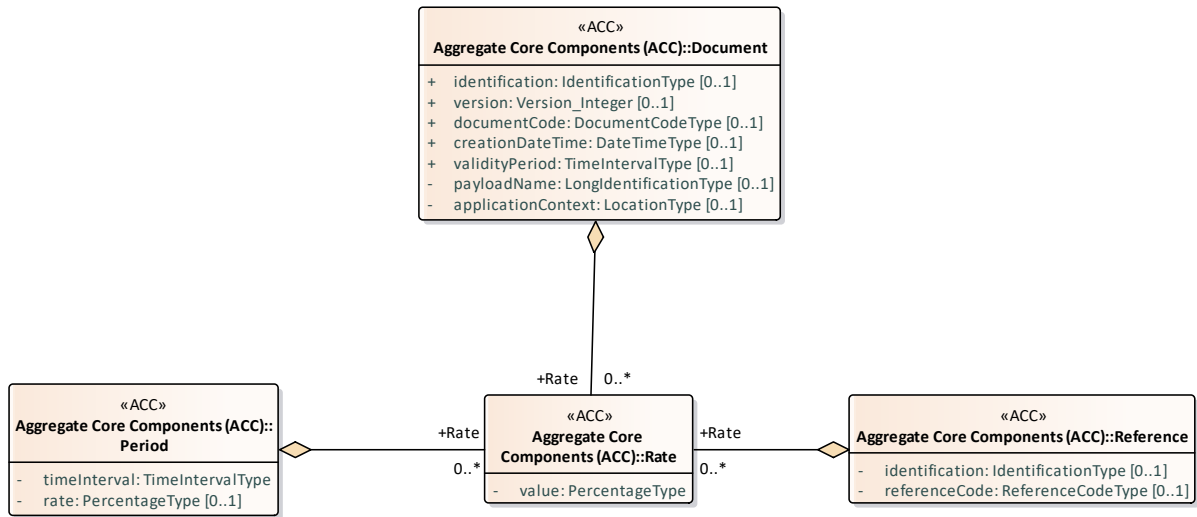


Figure: 32 Rate

2.2.33 Reason

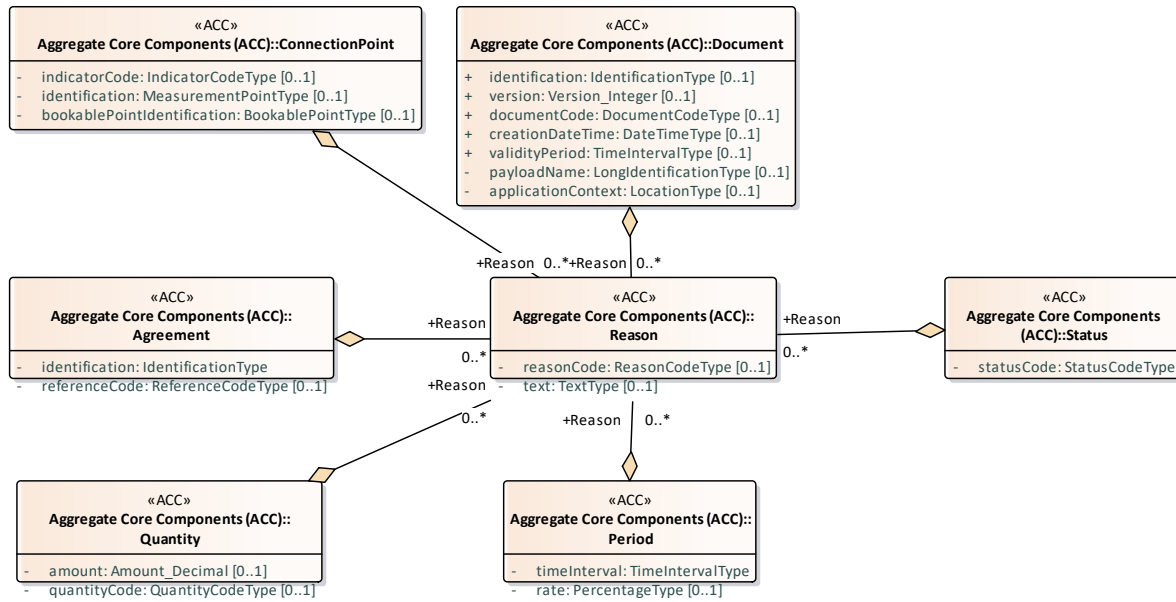


Figure: 33 Reason

2.2.34 Reference

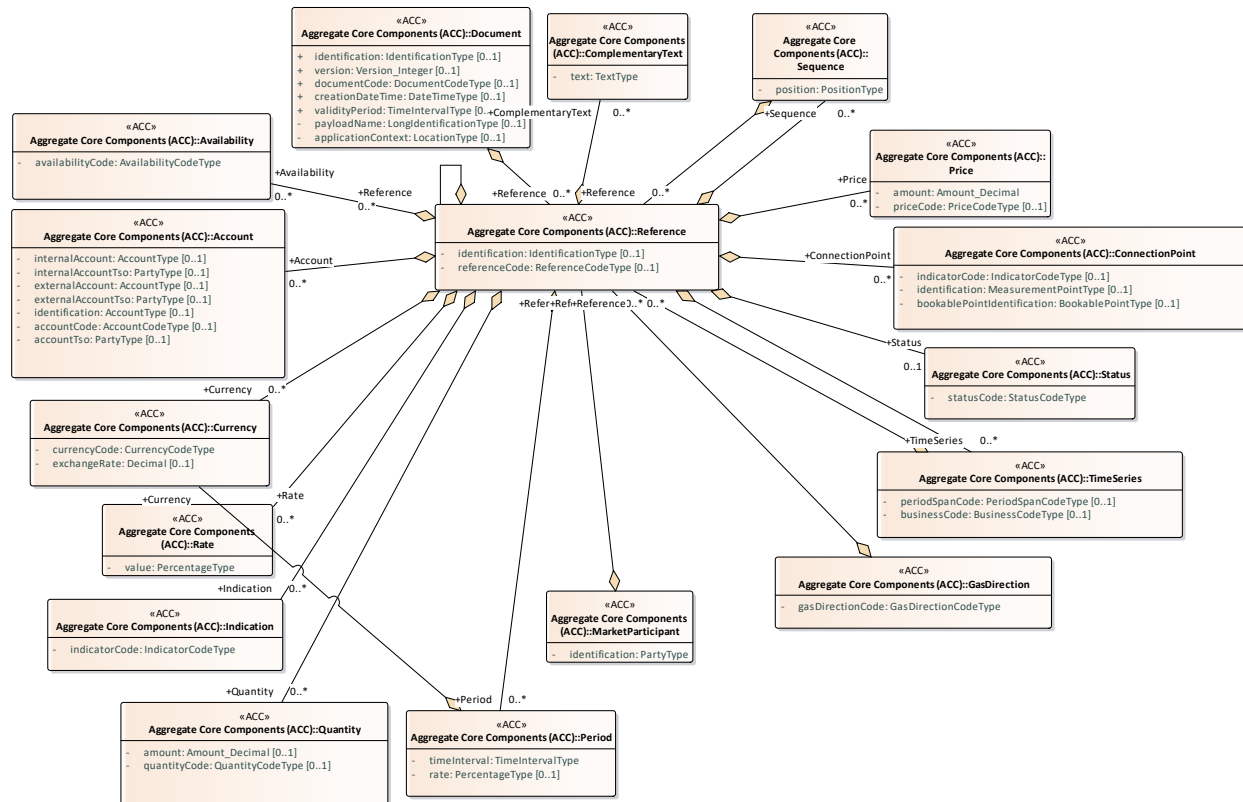


Figure: 34 Reference

2.2.35 ResourceObject

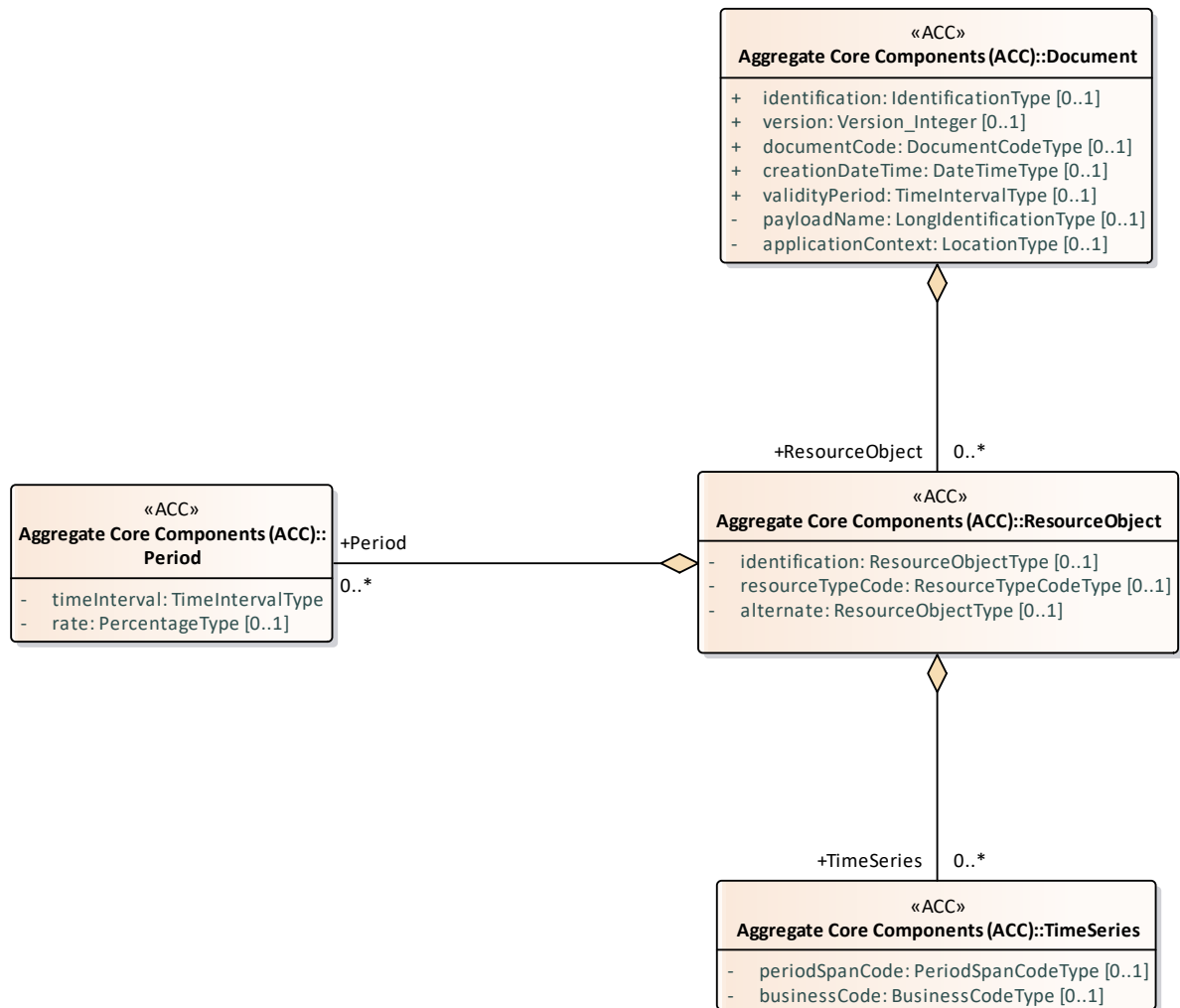


Figure: 35 ResourceObject

2.2.36 Sequence

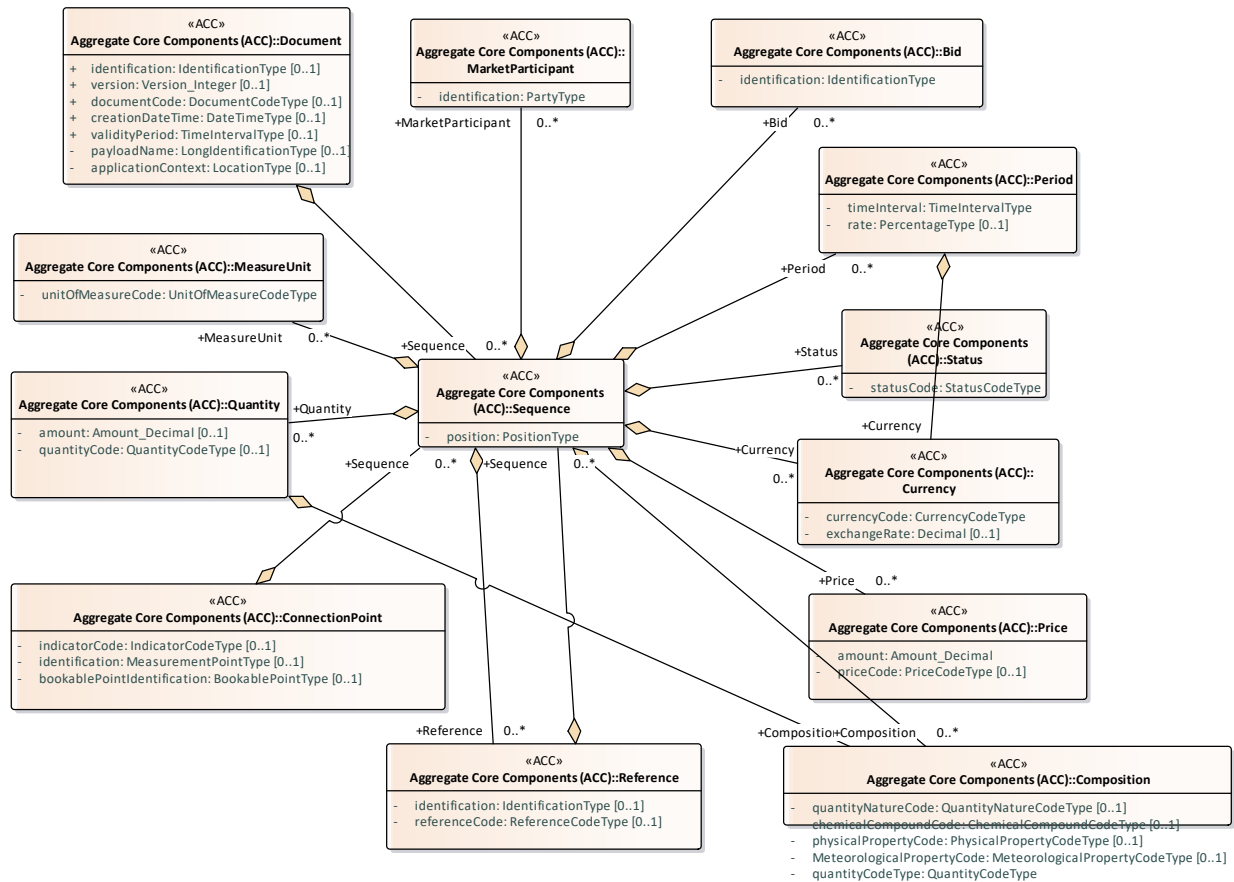


Figure: 36 Sequence

2.2.37 Status

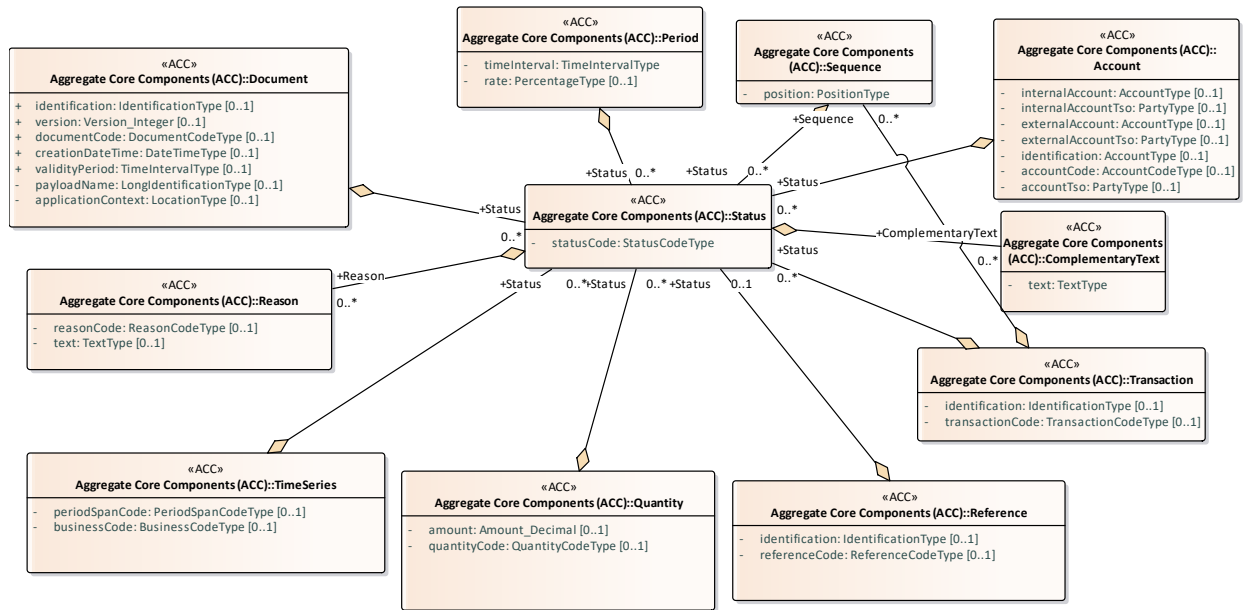


Figure: 37 Status

2.2.38 Time

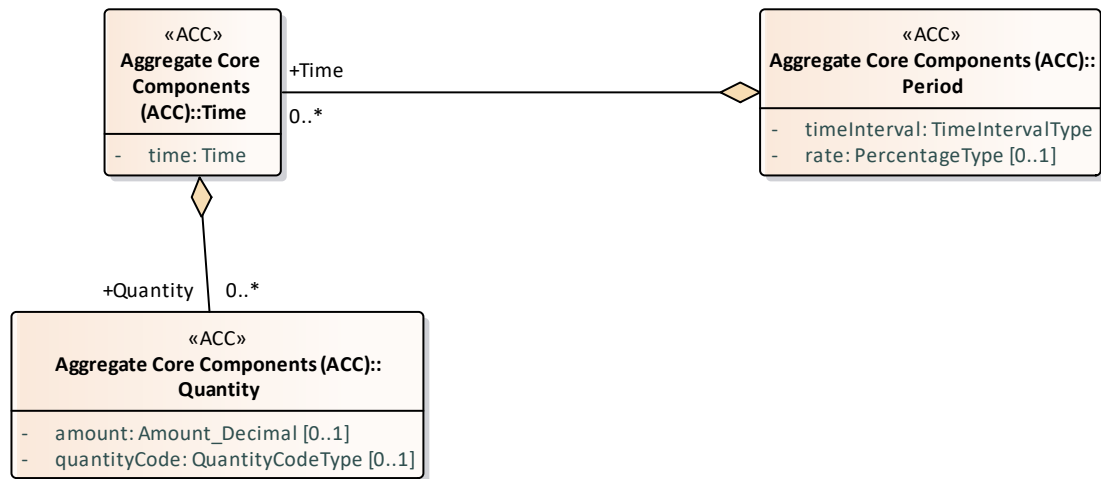


Figure: 38 Time

2.2.39 TimeSeries

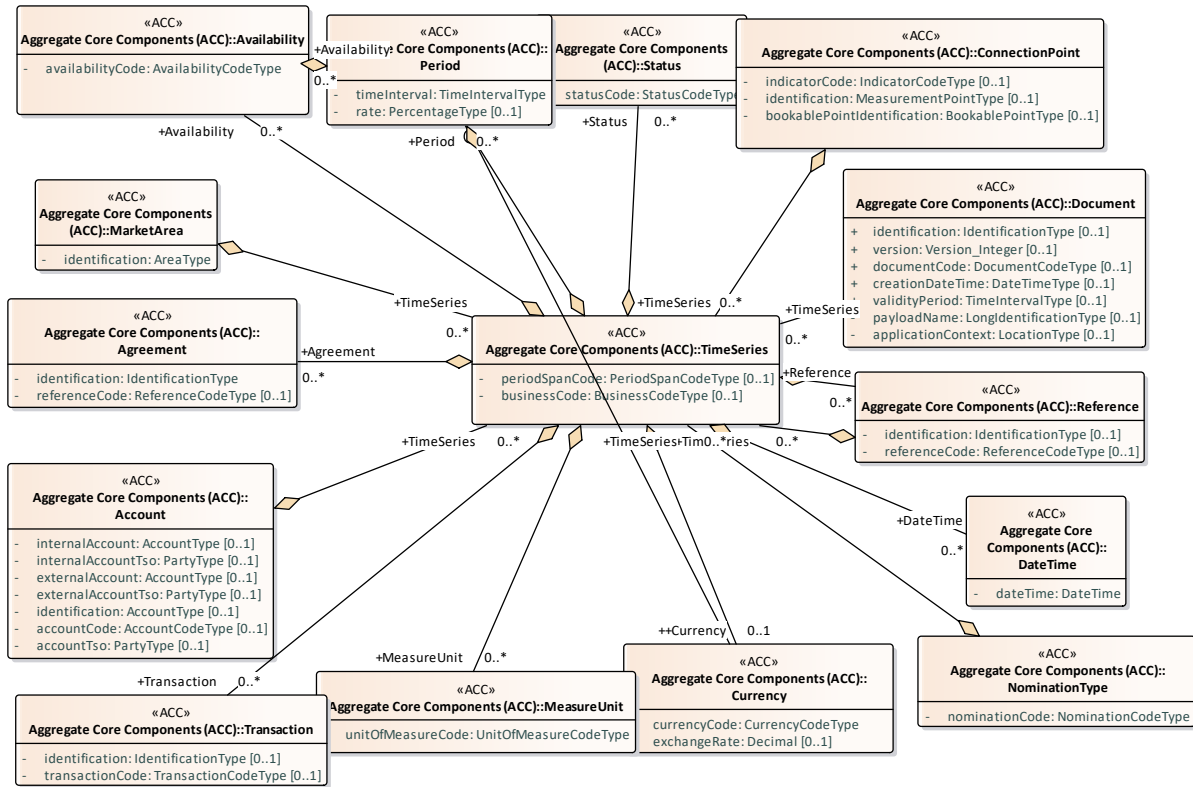


Figure: 39 TimeSeries

2.2.40 Transaction

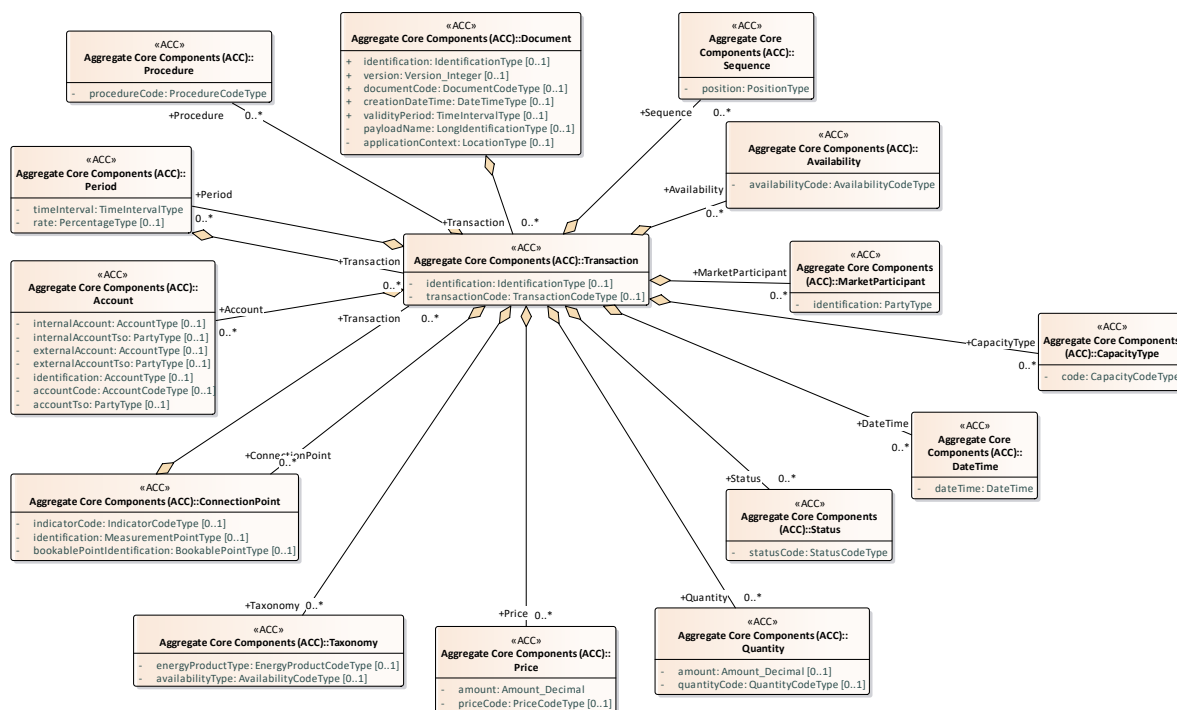


Figure: 40 Transaction

2.2.41 TransferType

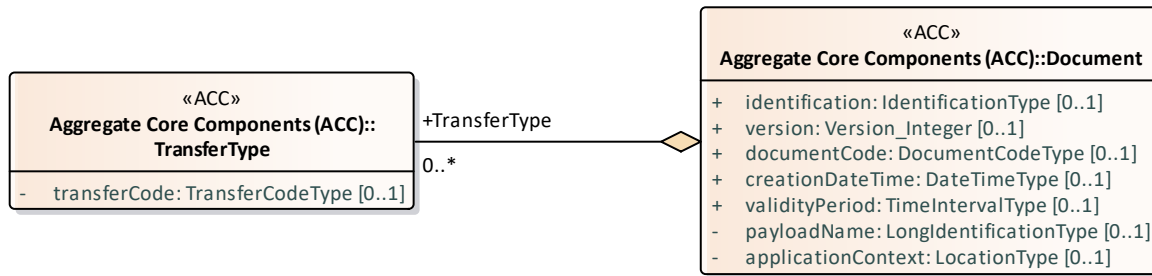


Figure: 41 TransferType

521 3 Document Change Log

522 3.1 Version

Name	Description	Multiplicity
Version 1 2020-06-29	Initial release	
Version 2 2020-07-01	Release 6.1	

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