

# Balancing and Settlement Process

## Model Documentation



The European message format for the gas market

*Version 6.1*

***Document Version: 4***  
***Schema Version: 1***

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# 1 Model Detail

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## 76 2 Document usage decision table

77 The following decision table provides a summary of the message requirements depending on the type of message

78 The decision table has been divided into 2 as follows:

79 The first table addresses the following document types:

- 80 • Within day balancing action forecast (document code ANY).
- 81 • Within day balancing action results (document code ANZ).
- 82 • Emergency balancing action (document code AVI).
- 83 • Operational balancing account situation (document code AOG).
- 84 • Provisional allocation report (document code 95G).
- 85 • Market Area position (document code AOB).
- 86 • Account position (document code 94G).
- 87 • Non daily metered forecast (document code ANW).

88 The second table addresses the following document types:

- 89 • End of day balancing results (document code AOA).
- 90 • Reconciliation notification (document code 16G).
- 91 • Operational balancing account situation (document code AOG).
- 92 • Definitive allocation report (document code 96G).

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94 **2.1 TABLE 1 OF 2 - Balancing**

Market Situation Document	Balancing action forecast  (ANY)	Within day Balancing action results (ANZ, AVI)	Provisional Allocation Report  (95G)	Market area position  (AOB)	Account position  (94G)	Non Daily Metered Forecast  (ANW)
identification	Mandatory.					
version	Mandatory.					
DocumentCode	ANY	ANZ AVI	95G	AOB	94G	ANW
creationDateTime	Mandatory.					
validityPeriod	Mandatory.					
applicationContext	May be used. To be depreciated in the next main version of Edig@s					
issuer_MarketParticippant. identification	Mandatory; codingScheme = 305 (EIC Party X code).					
issuer_MarketParticipant. marketRole.roleCode	ZUK = Area Coordinator		ZAA = Allocation Responsible	ZUK = Area Coordinator		ZUK = Area Coordinator ZSO = System Operator
recipient_MarketParticipa nt.identification	Mandatory; codingScheme = 305 (EIC Party X code).					

Market Situation Document	Balancing action forecast (ANY)	Within day Balancing action results (ANZ, AVI)	Provisional Allocation Report (95G)	Market area position (AOB)	Account position (94G)	Non Daily Metered Forecast (ANW)
recipient_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party		ZSH = Balance Responsible Party ZUK = Area Coordinator ZSO = System Operator ZUN = Distribution System Operator	ZSH = Balance Responsible Party		ZSH = Balance Responsible Party ZUK = Area Coordinator
MarketArea.identification	Mandatory; codingScheme = 305 (EIC Area Y code)					
ConnectionPoint.identification	Not used	Not used	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO	Not used	Not used	May be used; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO
Account.identification	Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO	Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO	Mandatory if more than one account is used. codingScheme = 305 (EIC Account Y code) or ZSO	Not used	Mandatory codingScheme = 305 (EIC Account Y code) or ZSO.	Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO
Account.accountCode	ZOE = Balance Responsible Party Account	ZOE	ZOE = Balance Responsible Party Account ZOF = System Operator Account.	Not used	ZOE	ZOE

Market Situation Document	Balancing action forecast (ANY)	Within day Balancing action results (ANZ, AVI)	Provisional Allocation Report (95G)	Market area position (AOB)	Account position (94G)	Non Daily Metered Forecast (ANW)
Account.accountTso	May be used; codingScheme = 305 (EIC Party X code)	May be used; codingScheme = 305 (EIC Account X code)	May be used; codingScheme = 305 (EIC Account X code)	Not used	May be used; codingScheme = 305 (EIC Account X code)	May be used; codingScheme = 305 (EIC Account X code)
TimeSeries.businessCode	Z01 = Allocated.	Z01	Z01 Z02 Z03 Z04 Z41 Z42 Z43 ZFH ZFI ZFJ	Z44 = Lower limit Z45 = Upper limit Z46 = Market position	Z01 Z40 = Correction of imbalance	Z01
TimeSeries.measureUnit.unitOfMeasureCode	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d).	KW1 KW2	KW1 KW2 KWH	KWH	KWH	KW1 KW2
TimeSeries.currency.currencyCode	Not used	Mandatory if price attribute is used.	Not used	Not used	Not used	Not used
Transaction.identification	Not used	Mandatory	Not used	Not used	Not used	Not used

Market Situation Document	Balancing action forecast (ANY)	Within day Balancing action results (ANZ, AVI)	Provisional Allocation Report (95G)	Market area position (AOB)	Account position (94G)	Non Daily Metered Forecast (ANW)
Transaction.transactionCode	Not used					
Period.timeInterval	Mandatory					
Period.status.statusCode	03G = Estimated value.	05G	Not used	03G 05G	03G 05G	Not used
Period.accountDirection.accountDirectionCode	ZPD = Debit quantity. ZPE = Credit Quantity.	ZPD ZPE	Not used	ZPD ZPE	ZPD ZPE	Not used
Period.accountDirection.account_Quantity.amount	Mandatory	Mandatory	Not used	Mandatory	Mandatory	Not used
Period.price.amount	Not used	Mandatory if available.	Not used	Not used	Not used	Not used
Period.quantity.amount	Not used	Not used	Mandatory	Not used.	Not used	Mandatory
Period.quantity.direction.gasDirectionCode	Not used	Not used	Z02 Z03	Not used	Not used	Z02 Z03

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99 **2.2 TABLE 2 OF 2 - Settlement**

Market Situation Document	End of day Imbalance (AOA)	Reconciliation notification (16G)	Operational Balancing Account (AOG)	Definitive Allocation report (96G)
identification	Mandatory.			
version	Mandatory.			
DocumentCode	AOA	16G	AOG	96G
creationDateTime	Mandatory.			
validityPeriod	Mandatory.			
applicationContext	May be used. To be depreciated in the next main version of Edig@s			
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).			
issuer_MarketParticipant.MarketRole.roleCode	ZUK = Area Coordinator	ZUR = Reconciliation Responsible	ZSO = System Operator	ZAA = Allocation Responsible
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code).			
recipient_MarketParticipant.MarketRole.roleCode	ZSH = Balance Responsible Party	ZSH	ZSO = System Operator	ZSH = Balance Responsible Party ZUK = Area Coordinator ZSO = System Operator ZUN = Distribution system Operator
MarketArea.identification	Mandatory; codingScheme = 305 (EIC Area Y code)		Not used	Mandatory; codingScheme = 305 (EIC Area Y code)
ConnectionPoint.identification	Not used	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO		

Market Situation Document	End of day Imbalance (AOA)	Reconciliation notification (16G)	Operational Balancing Account (AOG)	Definitive Allocation report (96G)
Account.Identification	Mandatory if more than one account is used; codingScheme = 305 (EIC Account Y code) or ZSO			
Account.accountCode	ZOE = Balance Responsible Party Account	ZOE = BRP ZOF = SO	ZOF = System Operator Account	ZOE ZOF
Account.accountTso	May be used; codingScheme = 305 (EIC Party X code)			
TimeSeries.businessCode	Z01 = Allocated.	Z01 Z02 Z03 Z04 Z41 Z42 Z43 ZFH ZFI ZFJ	ZXK	Z01 Z02 Z03 Z04 Z41 Z42 Z43 ZFH ZFI ZFJ
TimeSeries.measureUnit.unitOfMeasureCode	KWH	KW1 KW2 KWH		
TimeSeries.currency.currencyCode	Mandatory if price attribute is used	Not used		
Transaction.identification	Mandatory	Not used		
Transaction.transactionCode	A03 = End of day imbalance settlement A04 = hourly overrun penalties	Not used		
Period.timeInterval	Mandatory			

Market Situation Document	End of day Imbalance (AOA)	Reconciliation notification (16G)	Operational Balancing Account (AOG)	Definitive Allocation report (96G)
Period.status.StatusCode	04G = Provisional value 05G = Definitive value	04G 05G 21G	03G 05G	Not used
Period.accountDirection.aaccountDirectionCode	ZPD = Debit quantity. ZPE = Credit quantity.	ZPD = Debit quantity. ZPE = Credit quantity.	ZPD = Debit quantity. ZPE = Credit quantity.	Not used
Period.accountDirection.aaccount_Quantity.amount	Mandatory	Mandatory	Mandatory	Not user
Period.price.amount	May be used	Not used		
Period.quantity.amount	Not used	Mandatory	Not used	Mandatory
Period.quantity.direction.gasDirectionCode	Not used	Z02 Z03	Not used	Z02 Z03

## 3 Balancing and Settlement Process

### 3.1 Market Situation Document (MARSIT)

A Market Situation document is used during the Balancing & Settlement processes to provide relevant information to Balancing Responsible Parties and other actors:

The Balancing process usually starts the day before the delivery and ends the day after. It may last as long as the Balance Responsible Party may adjust his daily position. The information exchange includes:

1. Assembly by the Area Coordinator of non-daily metered forecasts and sent to the Balancing Responsible Party's
2. Information on market area position (system position which may trigger a balancing action). This may also include operational limits of the transmission network
3. Information on account positions.
4. Provisional allocated quantities per connection point,
5. Within day balancing action forecast
6. Within day balancing action and associate prices (if available) undertaken by the Area Coordinator and allocated to the Balance Responsible Party's

The Settlement process takes over immediately after the end of the balancing process and generally terminates once all disagreements have been resolved or after a finite time that is determined by local market rules. The information exchange includes:

1. End of day Balancing results: Includes daily imbalance quantities and charges allocated to the Balance Responsible Party's.
2. Operational Balancing Account (OBA) position between System Operators.
3. Definitive allocation quantities data.
4. The reconciliation information terminating the settlement phase.

The "TimeInterval" attribute in the Market Situation Document should be interpreted and used the following way:

- For documents containing a specific position at a certain defined timestamp, the quantities reported should be valid at the end of the period in the TimeInterval.
- For any other documents, the TimeInterval should define the actual period (e.g one hour) the quantity is valid for as for any other Edig@s document.

#### Usage of debit and credit

The definitions for debit and credit codes in Edig@s are as follows:

- A debit refers to a quantity that decreases a balance account (ZPD)
- A credit refers to a quantity that increases a balance account (ZPE)

In the MARSIT document the usage of Debit and Credit should be used the following way:

- For situations where gas is sold on behalf of a Balance Responsible Party the Balance Account of the party will decrease – hence this should be referred to as a debit.
- In the cases where there is gas shortage, and gas is bought on behalf of the Balance Responsible Party the position will increase and credit should be used.

### 3.1.1 Balancing Process overview

The simplified diagram below describes the cyclical character of the balancing process and it highlights:

- For a Balance Responsible Party, an initial account situation drafted the day before delivery is re-assessed as new information becomes available.
- The changes to the account situation (ex. gas flow on the IP, OTC and exchange trades) are notified to the Area Coordinator.
- For an Area Coordinator, the system situation is also constantly revised taking into account allocated data, Balance Responsible Party nominations.

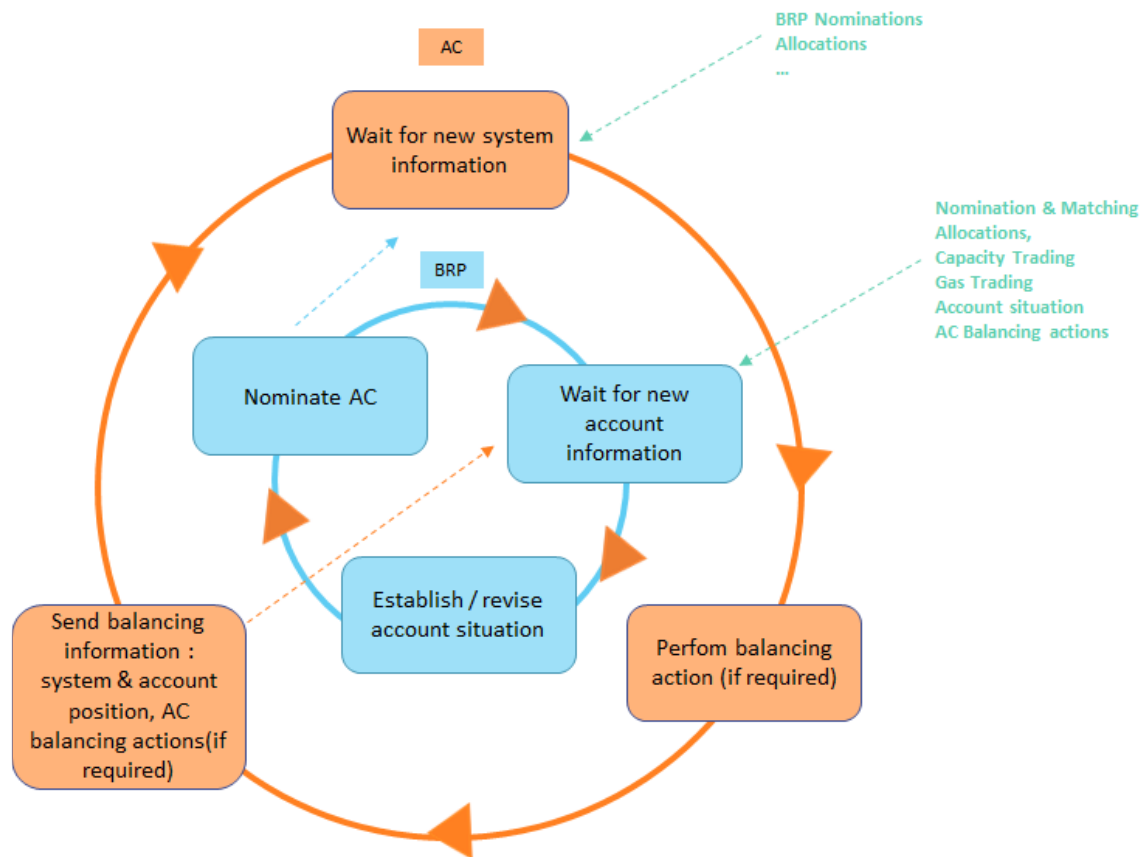


Figure: 1 MARSIT Interaction flow between Balance Responsible Party and Area Coordinator

### 3.1.1.1 Balancing workflow

As shown in figure 1, the balancing process is cyclical where the Balance Responsible Party and the Area Coordinator are constantly revising their situation (account for Balance Responsible Party and system for Area Coordinator) in order to respect the balancing obligations in the case of the Balance Responsible Party or in the case of an Area Coordinator achieve an end of day linepack position in the transmission consistent with economic and efficient operation of the transmission network.

For simplification purposes, it is assumed that the process starts with the assessment of the non-daily metered requirement.

If a Balance Responsible Party's account includes non-daily metered consumer sites, the Area Coordinator shall provide forecast updates of the non-daily metered off-takes (document type ANW). This information can be provided at the connection point level or at the market area level (aggregated value for all sites).

A Balance Responsible Party establishes day ahead account requirements and notifies the System Operator and the Area Coordinator by nominating gas flows at the connection points and trades at the Virtual Trading Point (Refer to BRP nomination & matching).

The Area Coordinator assesses the system situation based on the nominations received from the Balance Responsible Party's and also allocated quantities on consumer sites and sends the provisional market area position to all Balance Responsible Party's (document type AOB). If operational boundaries are defined for the market area, they are included into the document.

The Area Coordinator also sends the provisional account position (account inputs for the gas day minus the sum of its outputs for this gas day) to the Balance Responsible Party's (document type 94G).

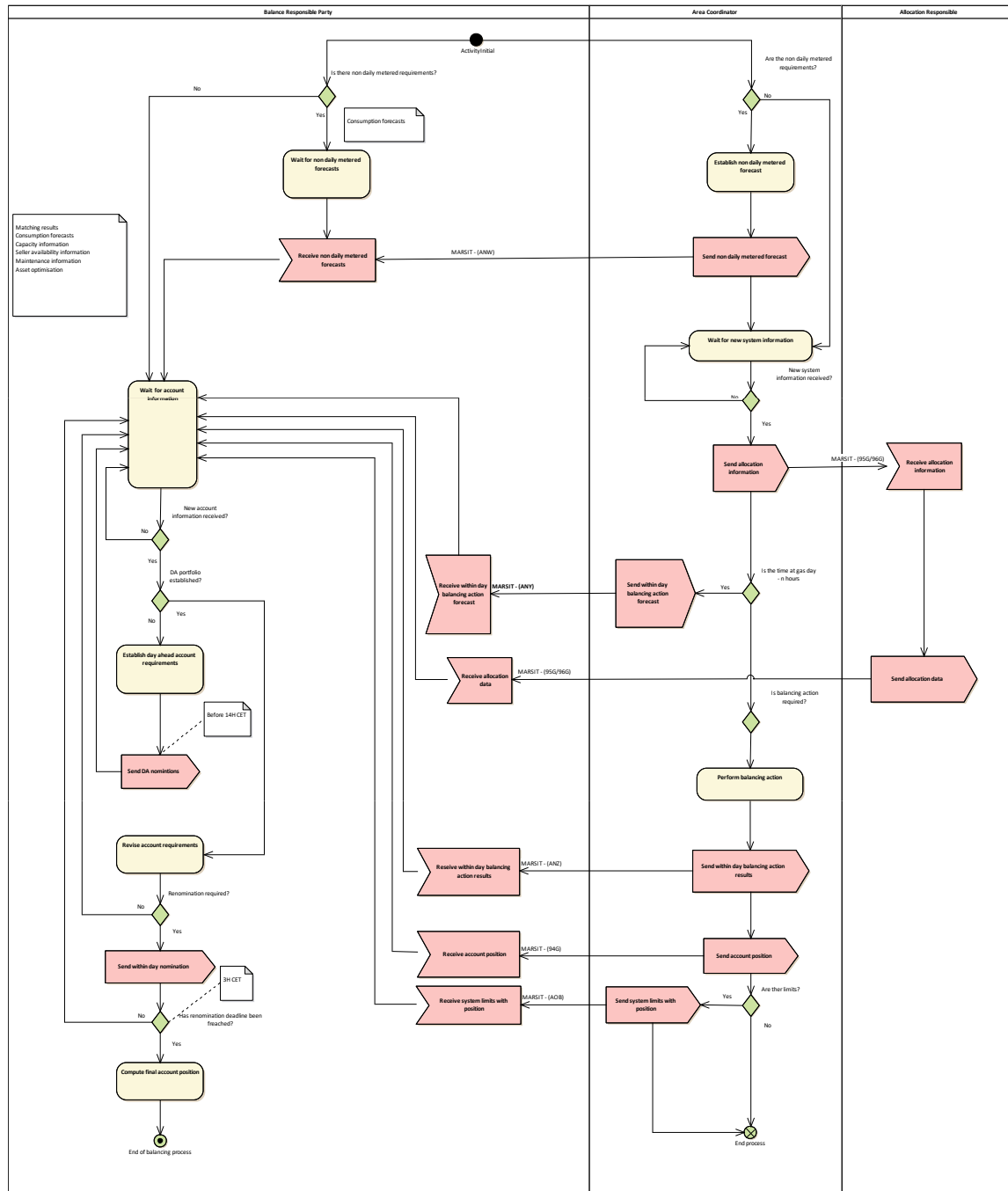
Depending on the market area forecasted position and locally applicable rules, the Area Coordinator may also send to Balance Responsible Party's a forecast of the balancing action (document type ANY) regarding their accounts. This allows the Balance Responsible Party's to correct their account position and re-nominate accordingly.

Once the delivery gas day is reached, the cycle continues for the Balance Responsible Party and Area Coordinator. At least each hour, market area position and account position are revised. The revised area position and account position sent to the Balance Responsible Party's now include definitive values (statusCode = 05G) for the past hours of the day along with the estimated ones (statusCode = 03G) for the future hours.

The market area position may trigger balancing actions performed by the Area Coordinator (via purchase and sale of short-term standardized products on a trading platform; and/or the use of balancing services). Thus purchased/sold volumes are allocated between concerned Balance Responsible Party's - (document type ANZ). Depending on the within day imbalance charges calculation method applicable within a market area, the price of the purchased /sold volumes are included into the document.

In an emergency situation the Area Coordinator can send an emergency balancing action message with information to the recipient party on required actions in a situation where the system is not in balance – (document type AVI).

The balancing process is completed when it is no longer possible for a Balance Responsible Party to adjust its position according to the gas day definition and re-nomination constraints.

Figure: 2 Balancing workflow

## Settlement Process overview

### 3.1.1.2 Settlement use case

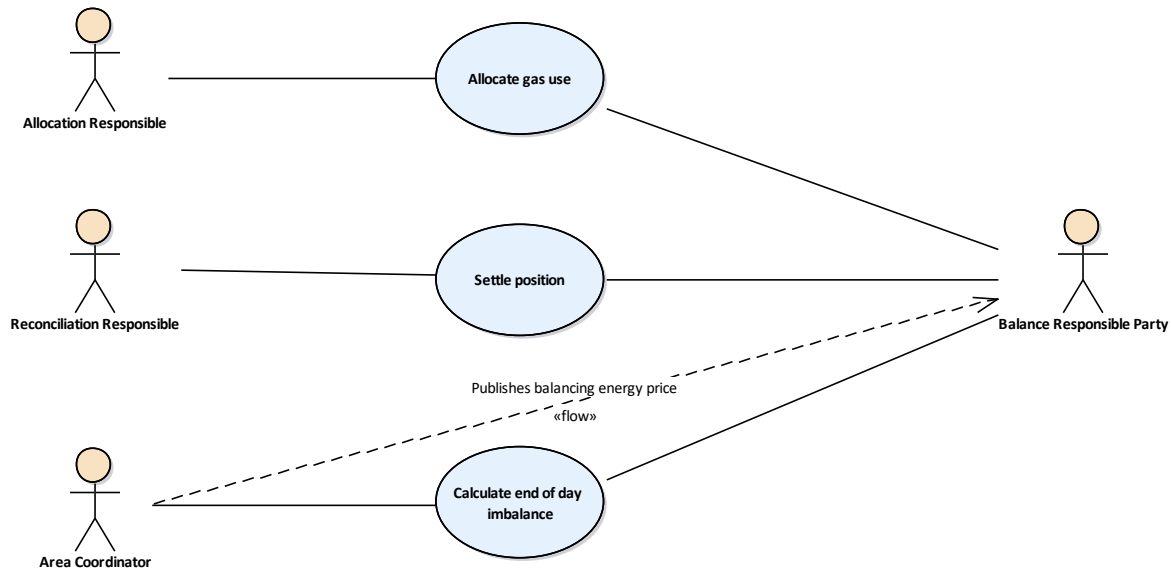


Figure: 3 Settlement use case

#### 3.1.1.2.1 Allocate gas use

Allocation is the process carried out by an Allocation Responsible that consists in attributing amounts of energy to its Balance Responsible Party's at a connection point based on confirmed quantities, and metering data in case no Operational Balancing Account (OBA) is in place at such a connection point.

A distinction shall be made between provisional allocations (the calculation of which is based on non-validated metered data) and definitive allocations (the calculation of which is based on validated metering values).

For hourly based regimes, the provisional allocation is part of the balancing process.

##### 3.1.1.2.1.1 Provisional allocations

The Allocation Responsible shall provide Balance Responsible Party's with provisional allocations as dictated by market rules. The Allocation Responsible shall have the opportunity to revise the allocations before the a finite time that is determined by local market rules.

Different parties are involved with the movement of gas across a particular connection point. The determination of the quantity, for each particular party, of the actual gas moving through a connection point is done by allocating the actual flow among the parties.

In order to carry this out it is necessary to have information on the operational status, either as a highly frequent status update or as a report on the volumes handled during a specific period.

With this information the coordinator of the connection point, using a methodology agreed to by the parties involved, performs the allocation of the gas between the involved parties.

Balance Responsible Party's shall be provided by the Allocation Responsible with provisional allocations at a frequency which is consistent with the local market rules.



### 3.1.1.2.1.2 Definitive allocations

Balance Responsible Party's shall be provided by the Allocation Responsible with definitive allocations at a time period which is consistent with the local market rules.

### 3.1.1.2.2 Calculate end of day imbalance

The Area Coordinator computes daily imbalance quantities for each of the Balance Responsible Party accounts. The daily imbalance quantity or the last account position is usually made available the day after the gas delivery (using provisional allocations) and can be revised once the definitive allocation report is published. The daily imbalance quantity is the difference between inputs and offtakes for an account but may be adapted depending on peer to peer agreements (ex. Linepack service).

If a Balance Responsible Party's last account position for a gas day is different from zero, the account is deemed imbalanced for that gas day. If a daily imbalance quantity is positive, the End Of Day (EOD) Settlement message shall include the transaction where the Balance Responsible Party sells the gas (the amount of imbalance) to the Area Coordinator at a given price. If a daily imbalance quantity is negative, then the EOD Settlement message includes a transaction where the Balance Responsible Party buys the gas (the amount of imbalance) from the Area Coordinator at a given price.

### 3.1.1.2.3 Settle position

The Settlement process generally terminates once all disagreements have been resolved or after a finite time that is determined by local market rules.

The disagreements can be resolved through the use of the Reconciliation message, sent by the Reconciliation Responsible to the Balance Responsible Party.

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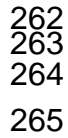


Figure: 4 Market Situation Document Contextual Model

### 266 3.1.3 Market Situation Document Assembly Model

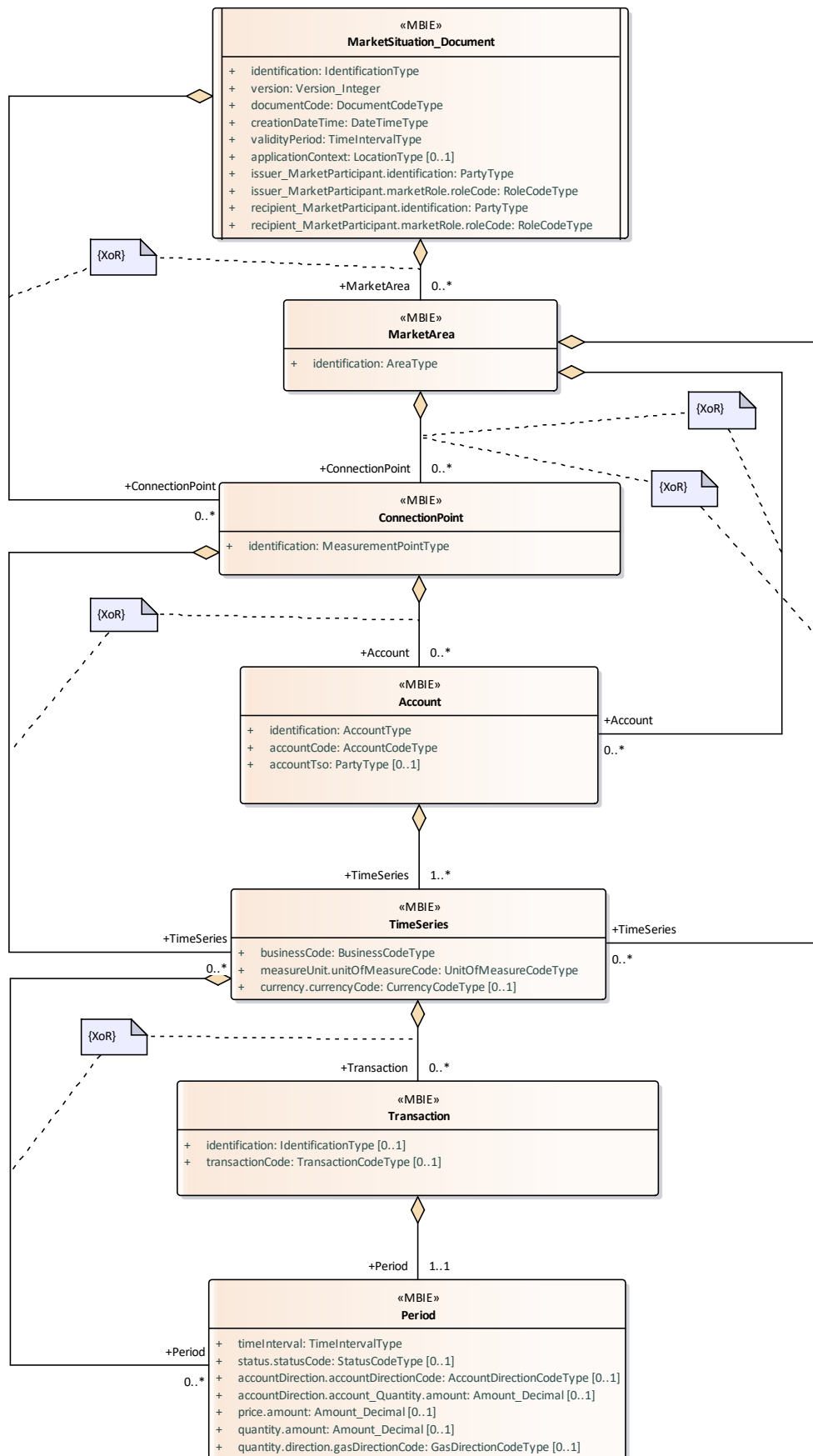


Figure: 5 **Market Situation Document Assembly Model**

### 3.1.3.1 MarketSituation\_Document

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

#### 3.1.3.1.1 Attributes

Attribute	Description	Multiplicity
applicationContext	The application context is used to identify a particular context (a location identification, an application identification, etc.) that is relevant to the recipient of the document.	[0..1]
creationDateTime	Date and time of the creation of the current document expressed in UTC.	
documentCode	Coded representation of the type of the electronic document. (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	
identification	A unique identification of a document that is assigned by the issuer.	
issuer_MarketParticipant.identification	The identification of the party participating in the market. --- Identification of the issuer of the document.	
issuer_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).  --- Identification of the issuer of the document. --- A code identifying the role of the issuer of the document.	
recipient_MarketParticipant.identification	The identification of the party participating in the market. --- Identification of the recipient of the document.	
recipient_MarketParticipant.marketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).  --- Identification of the recipient of the document. --- A code identifying the role of the recipient of the document.	
validityPeriod	The start and end date and time of the period of validity covered in the document.	
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.	

### 3.1.3.2 MarketArea

A specific area that delimits a market;

#### 3.1.3.2.1 Attributes

Attribute	Description	Multiplicity
identification	Identification of an area delimiting a market.	

### 3.1.3.3 ConnectionPoint

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

#### 3.1.3.3.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a connection point.	

### 3.1.3.4 Account

An account used in a transaction.

#### 3.1.3.4.1 Attributes

Attribute	Description	Multiplicity
accountCode	The identification of an account type. (Refer to Edig@s AccountCodeTypeCodeList for the list of valid codes).	
accountTso	The identification of the TSO responsible for an account identification.	[0..1]
identification	The identification of an account.	

### 3.1.3.5 TimeSeries

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

#### 3.1.3.5.1 Attributes

Attribute	Description	Multiplicity
businessCode	The business type of a time series. (Refer to Edig@s BusinessCodeTypeCodeList for the list of valid codes).	
currency.currencyCode	The identification of the formal code for a currency (ISO 4217). (Refer to Edig@s CurrencyCodeTypeCodeList for the list of valid codes).	[0..1]
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 19 common codes. (Refer to Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	

### 3.1.3.6 Transaction

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

#### 3.1.3.6.1 Attributes

Attribute	Description	Multiplicity
identification	The identification of a transaction.	[0..1]
transactionCode	A code identifying a specific type of transaction. (Refer to Edig@s TransactionCodeTypeCodeList for the list of valid codes).	[0..1]

### 3.1.3.7 Period

The period that the dependent information is for.

#### 3.1.3.7.1 Attributes

Attribute	Description	Multiplicity
accountDirection.account_Quantity.amount	The amount of a quantity.	[0..1]
accountDirection.accountDirectionCode	A code indicating whether a value is a debit or a credit.	[0..1]

Attribute	Description	Multiplicity
	(Refer to Edig@s AccountDirectionCodeTypeCodeList for the list of valid codes).	
price.amount	The monetary amount of a price.	[0..1]
quantity.amount	The amount of a quantity.	[0..1]
quantity.direction.gasDirectionCode	A code identifying the direction of a gas flow. (Refer to Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).  --- --- The direction of a gas flow to an area. In an hourly system there must be only one direction per period. In a daily system there may be both directions.	[0..1]
status.statusCode	A code providing the status of an object. (Refer to Edig@s StatusCodeTypeCodeList for the list of valid codes).	[0..1]
timeInterval	The identification of an interval of time expressed using ISO 8601.	

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## 4 Annex - Message Structure Examples

The Market Situation Document can be decomposed into several specific structures. This annex the five different structures that may be used to convey the information provided by the document:

- **Example 1** is used to transmit two types of information:
    1. The within day balancing action results
    2. The end of day imbalance.
  - **Example 2** is used to transmit three types of information:
    1. The within day balancing action forecast.
    2. The end of day imbalance.
    3. The Account position.
  - **Example 3** is used to transmit one type of information:
    1. The operational balancing account situation.
  - **Example 4** is used to transmit two types of information:
    1. The non-daily metered forecast.
    1. The Provisional Allocation report.
    2. The definitive allocation report.
    3. The reconciliation notification.
  - **Example 5** is used to transmit the market area position.
- All other structure constructs are illegal and should be rejected.

## 4.1 Example 1 Structure use for Document Types: ANZ-AOA

Example 1.

This structure is used to transmit:

1. Within day balancing action results and is identified with the document code ANZ.
2. The end of day balancing results and is identified with the document code AOA.

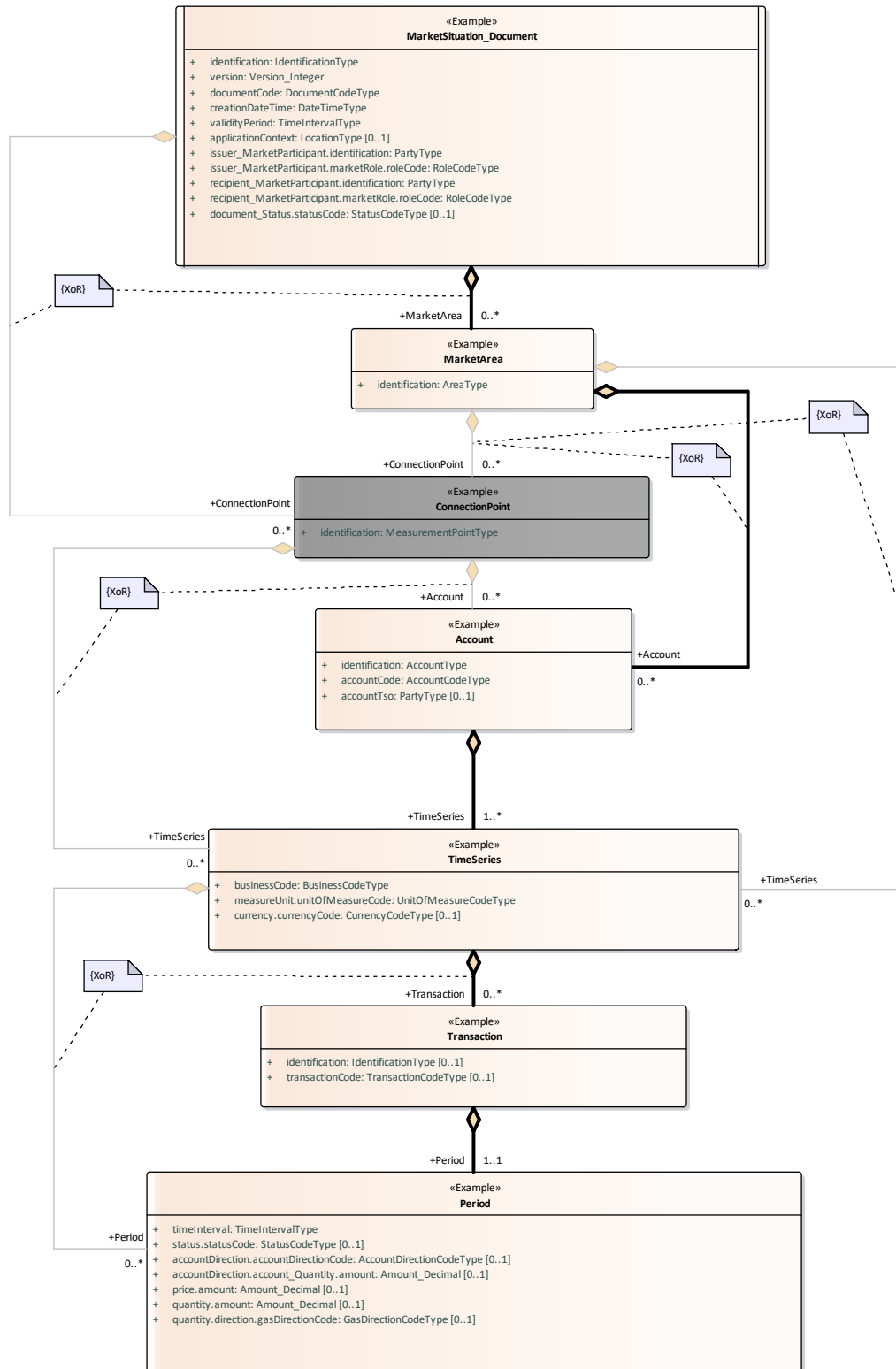


Figure: 6 Example 1



## 4.2 Example 2 Structure use for Document Types: ANY-94G

Example 2.

This structure is used to transmit:

1. The within day balancing action forecast and is identified with the document code ANY.
2. The account position and is identified with the document code 94G.

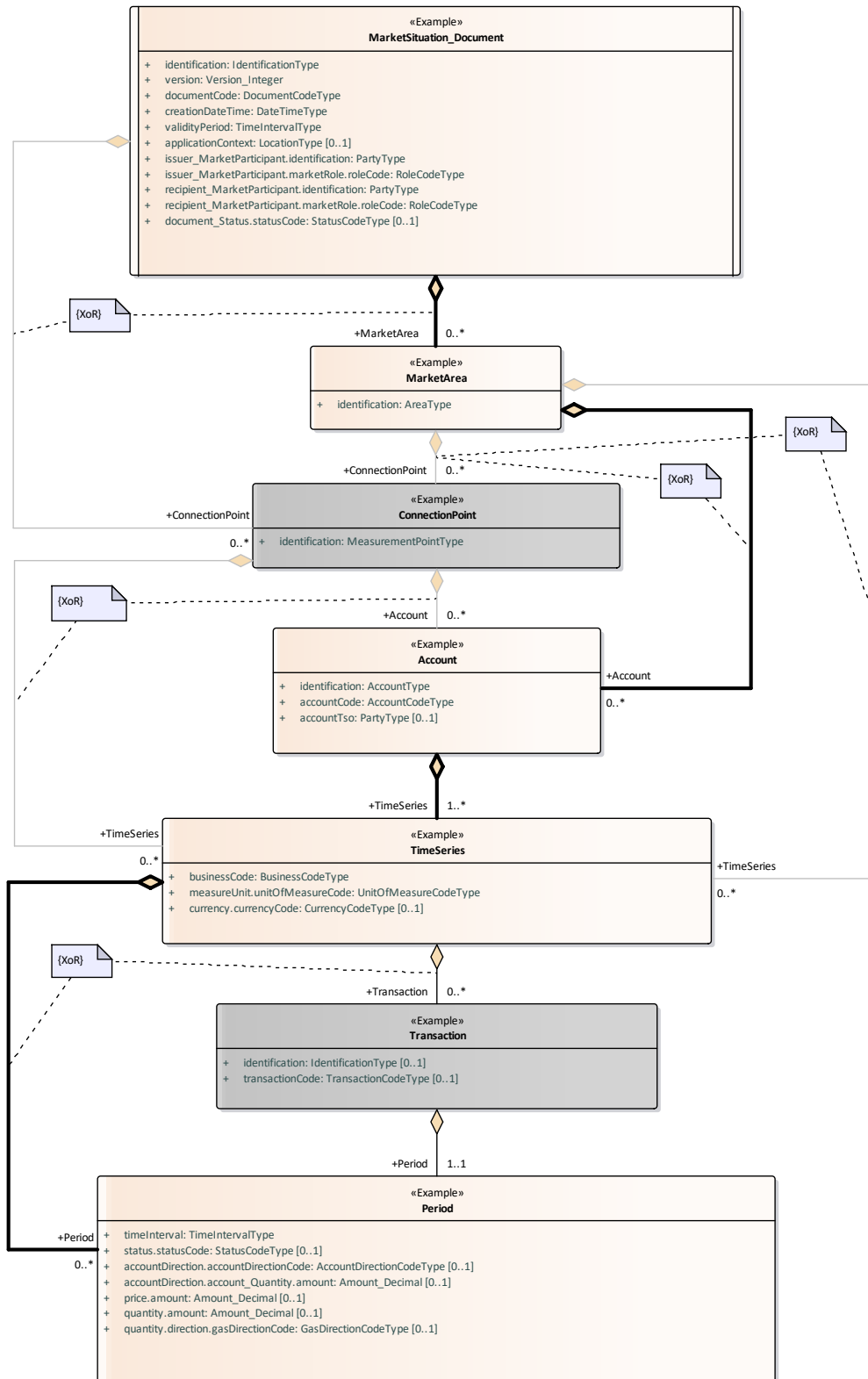


Figure: 7 Example 2

### 4.3 Example 3 Structure use for Document Type: AOG

Example 3.

This structure is used to transmit:

1. The operational balancing account situation and is identified by the document code AOG.

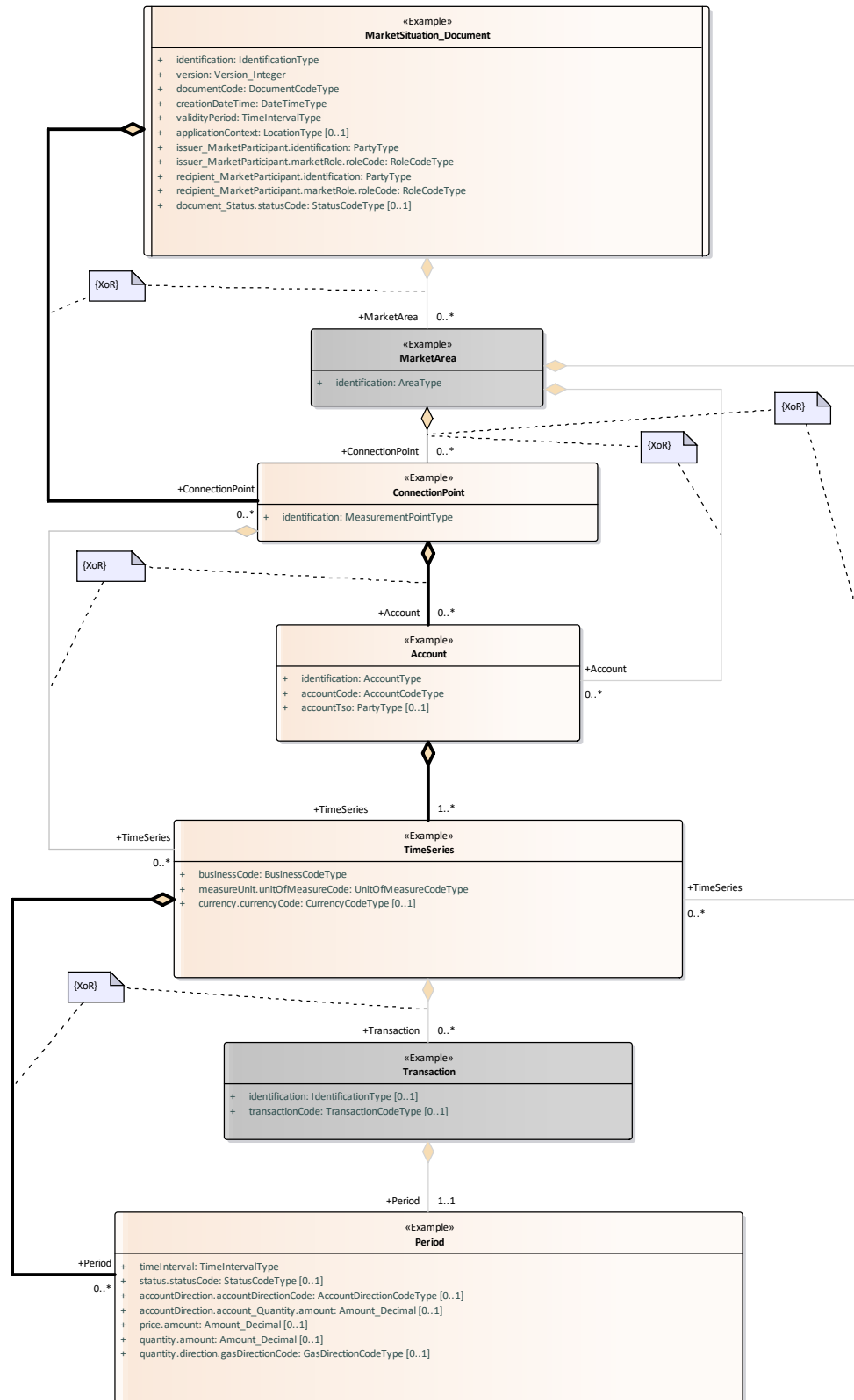


Figure: 8 Example 3

## 4.4 Example 4 Structure use for Document Types: 95G-96G-16G-ANW

Example 4.

This structure is used to transmit:

1. The provisional allocation report and is identified with the document code 95G.
2. The definitive allocation report and is identified with the document code 96G.
3. The reconciliation notification and is identified with the document code 16G.
4. The non-daily metered forecast and is identified by the document type ANW.

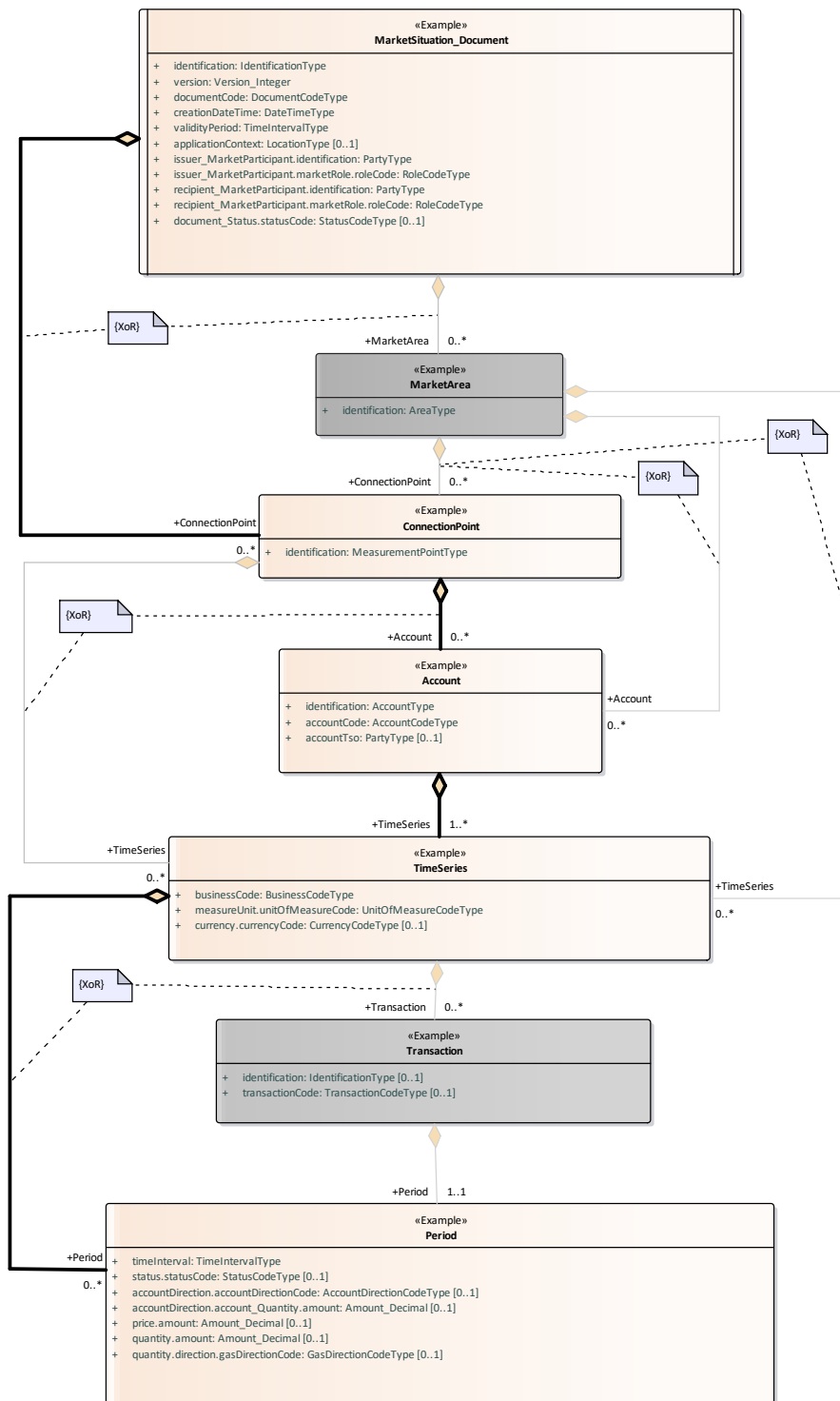


Figure: 9 Example 4

## 4.5 Example 5 Structure use for Document Type: AOB

Example 5.

This structure is used to transmit the market area position and is identified by the document code AOB.

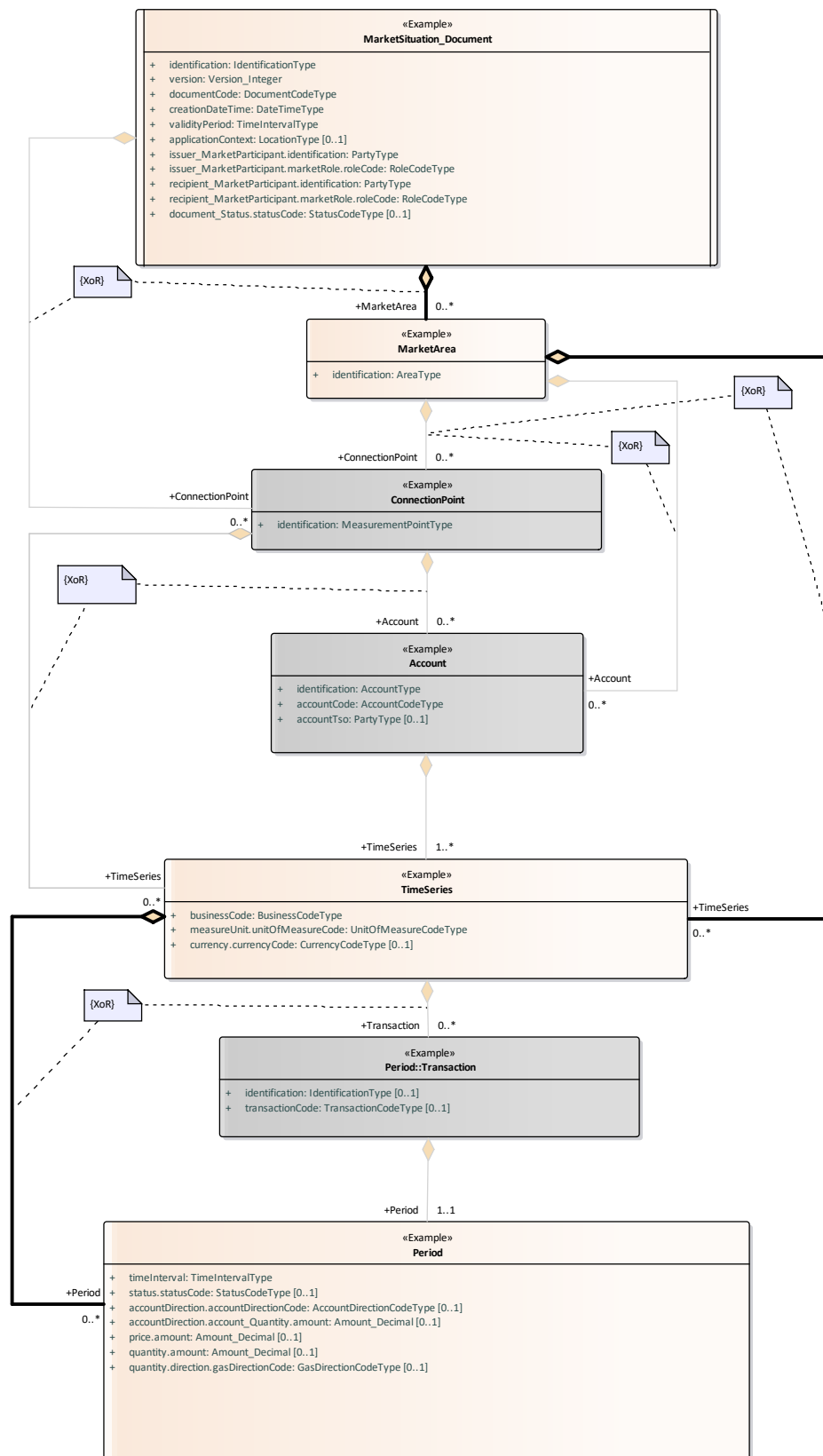


Figure: 10 Example 5

## 5 Document Change Log

### 5.1 Version

#### 5.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 2020-06-29	Initial release.	
Version 2 2022-02-08	Release 6.1 Corrected decision table for AOA document, and in the example message structure. Added interpretation of TimeInterval attribute.	
Version 3 2022-10-19	<ul style="list-style-type: none"><li>- Added a usage of account direction example.</li><li>- Updated applicationContext to be optional with a deprecation statement note.</li><li>- Added new business codes (ZFH, ZFI, ZFJ) to allocation document types in decision table</li></ul>	
Version 4 2024-05-24	<ul style="list-style-type: none"><li>- Added new business code (Z40) to 94G document type in decision table</li><li>- Corrected usage of Z02/Z03 and ZPD/ZPE in document decision table</li><li>- Added optional connection from connectionPoint to TimeSeries, making it possible to not use Account in the message structure when connectionPoint is used.</li></ul>	