Memo: Ediel CIM master data documents **From:** NMEG (Nordic Market Experts Group) Technical Committee (NTC) **To:** Those it may concern	**NMEG** Nordic Market Experts Group
April 9th, 2024	

Content

1   Background

NMEG is asked by NBM (Fifty) to draft a set of master data documents. The information will be exchanged from the old Fifty system to the Nordic Market Management System (Nordic MMS).

The request was discussed in NMEG April 11th, 2023, and the conclusion was to try extending the master data documents found in the NBS master data BRS, i.e.

- NEG Party Master Data Document
- Ediel (NEG) Resource (Production Unit) Master Data Document
- Ediel Request Trade Structure Document

In addition, the documents must be extended with requirements from Unicorn.

After discussion in the NMEG Technical Committee (NTC) it was agreed to skip the "Ediel Trade Structure Document" in this project (this document), since it seems to be used for a different purpose than needed by NBM.

Based on the requirements from Unicorn, see , "A.4 Market- or Party master data requirements from Unicorn", it was agreed making three documents with the CIM MktActivityRecord as the root class:

- Party master data
- Resource master data
- Portfolio master data

According to , "A.4 Market- or Party master data requirements from Unicorn", it can look like it is a need for a "Market master data document". However, after some discussions in NTC, it seems that we don't need it.

2   Ediel CIM Party Master Data Document

2.1   *Ediel CIM Party Master Data Document contextual model*

Figure 1: Class diagram: Ediel CIM Party Master Data Document Contextual model

2.2 Ediel CIM Party Master Data Document assembly model
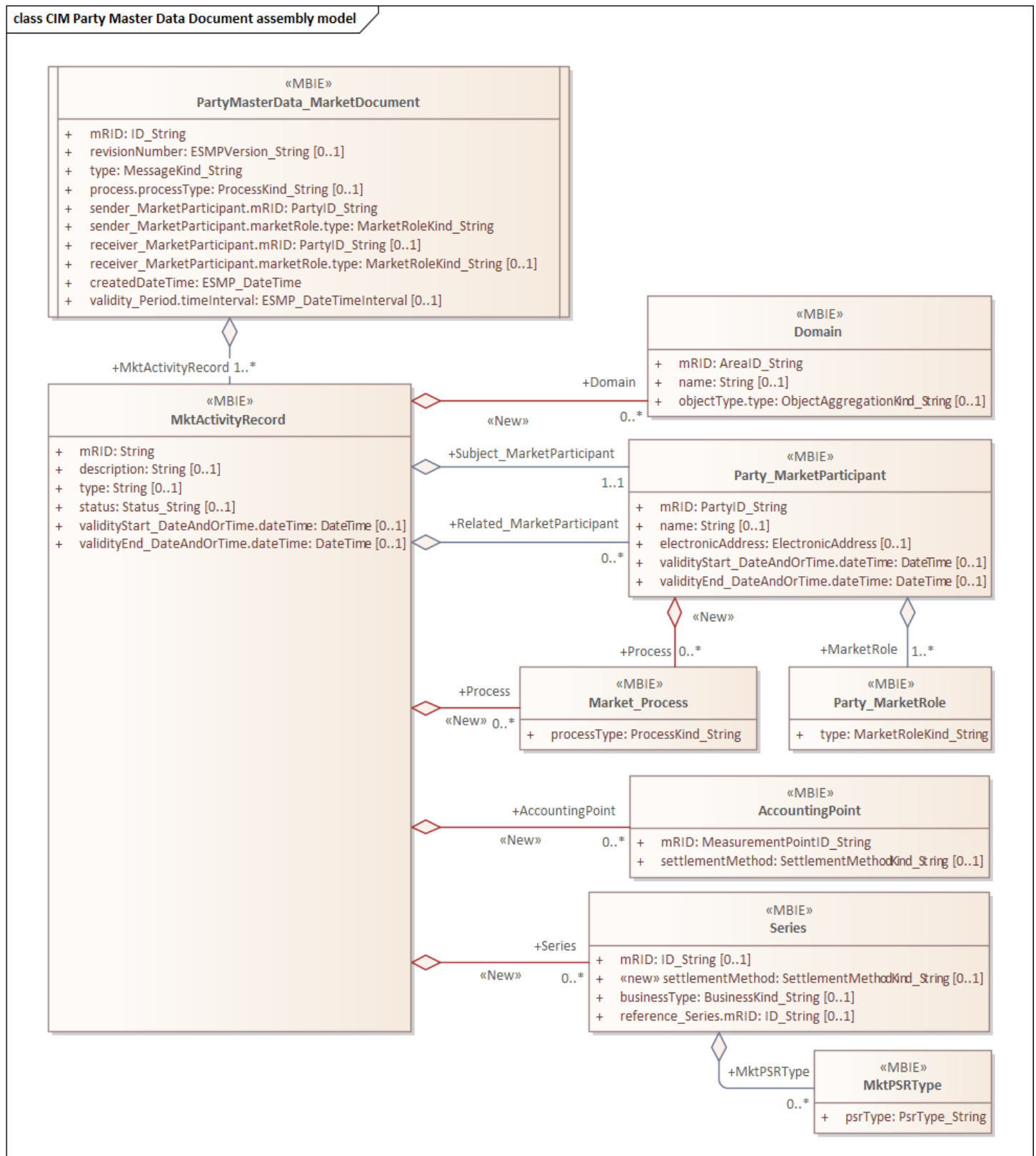

Figure 2: Class diagram: Ediel CIM Party Master Data Document assembly model

2.3 Comments to the Ediel CIM Party Master Data Document:

2.3.1 New attributes and associations needed by NBS (added March 5th, 2024)

- A Series class associated to the MktActivityRecord is added, containing three attributes and two associations to sub-classes:

    o The mRID is currently not used by NBM and NBS.

    o The settlementMethod(s) a party can send in time series, i.e. profiled, non-profiled or "flex settled".

    o The businessType(s) a party can send in time series.

    o The association to Series, named Reference_Series, is intended used for informing of the MEC ID (Market Entity Connection Identification) in the mRID attribute.

    o The association to MktPSRType, named MktPSRType, is intended used for the Asset Types the party in question is responsible for.

2.3.2 Needed changes to ESMP and IEC 62325 (need for MRs):

- Add an association from MktActivityRecord to Domain in both TC57CIM/Market and in ESMP
- Add an association from MktActivityRecord to MarketEvaluationPoint in ESMP, or change the direction of the already existing association from MarketEvaluationPoint to MktActivityRecord
- Add an association from MktActivityRecord to TimeSeries (or Series) in both TC57CIM/Market and in ESMP
- Change the cardinality of the association from MktActivityRecord to Process to [0..*] in ESMP
- Add an association from MarketParticipant to DateAndOrTime in both TC57CIM/Market and in ESMP
- Add an association from MarketParticipant to Process in both TC57CIM/Market and in ESMP

2.4 Mapping to NBS Party master data document and Unicorn class diagram

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
mRID	[1]	Document Identification	Not applicable	Unique identification of the document
revisionNumber	[0..1]		Not applicable	
type	[1]	Document Type	Not applicable	*Message Type enumeration:* **Z12** Request change of retailer consumption master data **Z20** Retailer consumption master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) **Z21** Retailer consumption master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) **Z18** Party Relation Master Data Document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) **Z19** Party Relation Master Data Document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) *Business rules:* • **Z12** is used for requests (create and update) to Imbalance Settlement Responsible. • **Z18**, **Z19**, **Z20** and **Z21** are used for reporting from Imbalance Settlement Responsible.
Process.processType	[0..1]	Process Type	Not applicable	*Process Type enumeration:* **A55** Exchange of Master data
Sender_MarketParticipant. mRID	[1]	Sender Identification	Not applicable	Identification of the party who is sending the document (and Coding Scheme).
Sender_MarketParticipant. MarketRole.type	[1]	Sender Role	Not applicable	*Role Type enumeration:* **A05** Imbalance settlement responsible **A26** Metering Point Administrator (DSO)

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
Receiver_MarketParticipant. mRID	[0..1]	Receiver Identification	Not applicable	Identification of the party who is receiving the master data (and Coding Scheme) *Business rules:* • Required unless used for "broadcast" (same document to several recipients).

Receiver_MarketParticipant. MarketRole.type	[0..1]	Receiver Role	Not applicable	*Role Type enumeration:*
				  A05 Imbalance Settlement Responsible
				  A08 Balance Responsible Party
				  A26 Metering Point Administrator (DSO)
				Business rules:
				• Required unless used for "broadcast" (same document to several recipients)

createdDateTime	[1]	Creation Date Time	Not applicable	Date and time for creation of the document
Validity_Period. timeInterval	[0..1]	Validity Time Interval	Not applicable	The period for which this Party Master Data document details are valid.
MktActivityRecord	[1..*]	**Party details**	**BSP**	Business rules for Party Details when sending request for structure change to eSett: • One Party Details represents one request • There cannot be more than one Party Details with the same object identification present in one file (multiple requests for more than one Subject Party will be rejected)
mRID	[1]	Not applicable	Not applicable	Unique ID of this transaction.
description	[0..1]			

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
type	[0..1]	Business Type	Not applicable	*Business Type enumeration:* **A01** Production **A04** Consumption (general consumption) **A07** Net production/ consumption (combined pumped storage) **A15** Losses **A72** Interruptible Consumption **B27** Pumped **B28** Large installation consumption **B29** MGA imbalance **B36** Production Units own consumption (Only used in Finland)
status	[0..1]	Status	Not applicable	*Status Type enumeration:* **A14** Creation **A15** Update *Business rules:* • Only used when requesting a creation or update of an object. Not used for information notifications.
Domain	[0..*]			
mRID	[1]	Metering Grid Area Id.	BSP/BSP portfolio/ Bidding zone/mRID or TSO/Bidding zone/mRID	Unique ID of the MGA or BZ (and Coding Scheme)
name	[0..1]		BSP/BSP portfolio/ Bidding zone/name or TSO/Bidding zone/name	Not Used
ObjectType.type	[0..1]	Type of Area		*Object Aggregation Type enumeration:* **A12** Bidding Zone (BZ) **A14** Metering Grid Area (MGA)
ValidityStart_DateAndOrTime. dateTime	[0..1]	Not applicable	Not applicable	The validity start date and time for this transaction.

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
ValidityEnd_DateAndOrTime. dateTime	[0..1]	Not applicable	Not applicable	The validity end date and time for this transaction.
Subject_MarketParticipant	**[1]**			
mRID	[1]	Subject Party	BSP/Party/mRID	Unique ID of the Party in question (and Coding Scheme).
MarketRole	**[1..*]**			

type	[1]	Subject Party Role	BSP (class name)	*Role Type enumeration:*
				   A08 Balance Responsible Party
				   A12 Energy Supplier (Retailer)

name	[1..*]	Not applicable	BSP/Party/Name	Unique ID of the Party in question (and Coding Scheme).
electronicAddress. email1	[0..1]	Not applicable	BSP/Party/ECP endpoint+ EDX service+ Allowed email domains	
ValidityStart_DateAndOrTime. dateTime	[0..1]	Validity Start	BSP/Party/Validity	The validity start date and time for this market participant. *Business rules:* • At least one of Validity Start or Validity End must be present, with one exception; The Validity End can be extended to "unlimited" (i.e. no Validity End) by sending a Party Detail with Status = "**A15 Update**" and no Validity Start or Validity End.
ValidityEnd_DateAndOrTime. dateTime	[0..1]	Validity End		The validity end date and time for this market participant. Business rules: • At least one of Validity Start or Validity End must be present, with one exception; The Validity End can be extended to "unlimited" (i.e. no Validity End) by sending a Party Detail with Status = "A15 Update" and no Validity Start or Validity End.
Process	**[1..*]**			

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
processType	[1]	Not applicable	BSP/Party agents/Market1	Unique ID of the Party in question (and Coding Scheme).
Related_MarketParticipant	**[0..*]**			
mRID	[0..*]	Related Party	TSO/Party/mRID	Unique ID of the Party in question (and Coding Scheme).
MarketRole	**[1..*]**			
type	[1..*]	Related Party Role	TSO (class name)	*Role Type enumeration:* **A08** Balance Responsible Party **A12** Energy Supplier (Retailer)
name	[1..*]	Not applicable	TSO/Party/Name	
electronicAddress. email1	[0..1]	Not applicable	TSO/Party/ECP endpoint+ EDX service+ Allowed email domains	
ValidityStart_DateAndOrTime. dateTime	[0..1]	Validity Start	TSO/Party/Validity	Date Time *Business rules:* • At least one of Validity Start or Validity End must be present, with one exception; The Validity End can be extended to "unlimited" (i.e. no Validity End) by sending a Party Detail with Status = "**A15** Update" and no Validity Start or Validity End.
ValidityEnd_DateAndOrTime. dateTime	[0..1]	Validity End		Date Time *Business rules:* • At least one of Validity Start or Validity End must be present, with one exception; The Validity End can be extended to "unlimited" (i.e. no Validity End) by sending a Party Detail with Status = "**A15** Update" and no Validity Start or Validity End.
Process	**[1..*]**			

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[1] The Market class from Unicorn consist of mRID, Name, Validity and association to BSP portfolio

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
processType	[1..*]	Not applicable	TSO/Party agents/Market[2]	
Series	**[0..*]**			
mRID	[0..1]	Reference (MEC)	Not applicable	Reference to a set of "Party Details"[3]
settlementMethod	[0..1]	Settlement Method	Not applicable	*Settlement Method Type enumeration:* **E01** Profiled **E02** Non-profiled **E15** Non-profiled with special rules (Flex settled)
businessType	[0..1]	Business Type	Not applicable	*Business Type Type enumeration:* **A01** Production **A04** Consumption (general consumption) **A07** Net production/ consumption (combined pumped storage) **A15** Losses **A72** Interruptible Consumption **B27** Pumped **B28** Large installation consumption **B29** MGA imbalance **B36** Production Units own consumption (Only used in Finland)
Series/ MktPSRType	**[0..1]**			
psrType	[1]	Asset Type	Not applicable	
Process	**[0..1]**			
Process.processType	[1]	Not applicable	Not applicable	
AccountingPoint	**[0..1]**			
mRID	[1]	Not applicable	Not applicable	

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[2] The Market class from Unicorn consist of mRID, Name, Validity and association to BSP portfolio, however this is probably not relevant information to exchange in the market (?)

[3] MEC (Market Entity Connection) ID. The element is only used if an entity has several MEC IDs and the MEC ID is needed to identify the correct MEC.

Class/attribute				Code and description
Ediel CIM Party Master Data Document		**NBS Party master data document**	**Unicorn class diagram**	**Usage in NBS Party master data document**
settlementMethod	[0..1]	Not applicable	Not applicable	*Settlement Method Type enumeration:* **E01** Profiled **E02** Non-profiled **E15** Non-profiled with special rules (Flex settled)

3　Ediel CIM Portfolio Master Data Document

3.1　*Ediel CIM Portfolio Master Data Document contextual model*
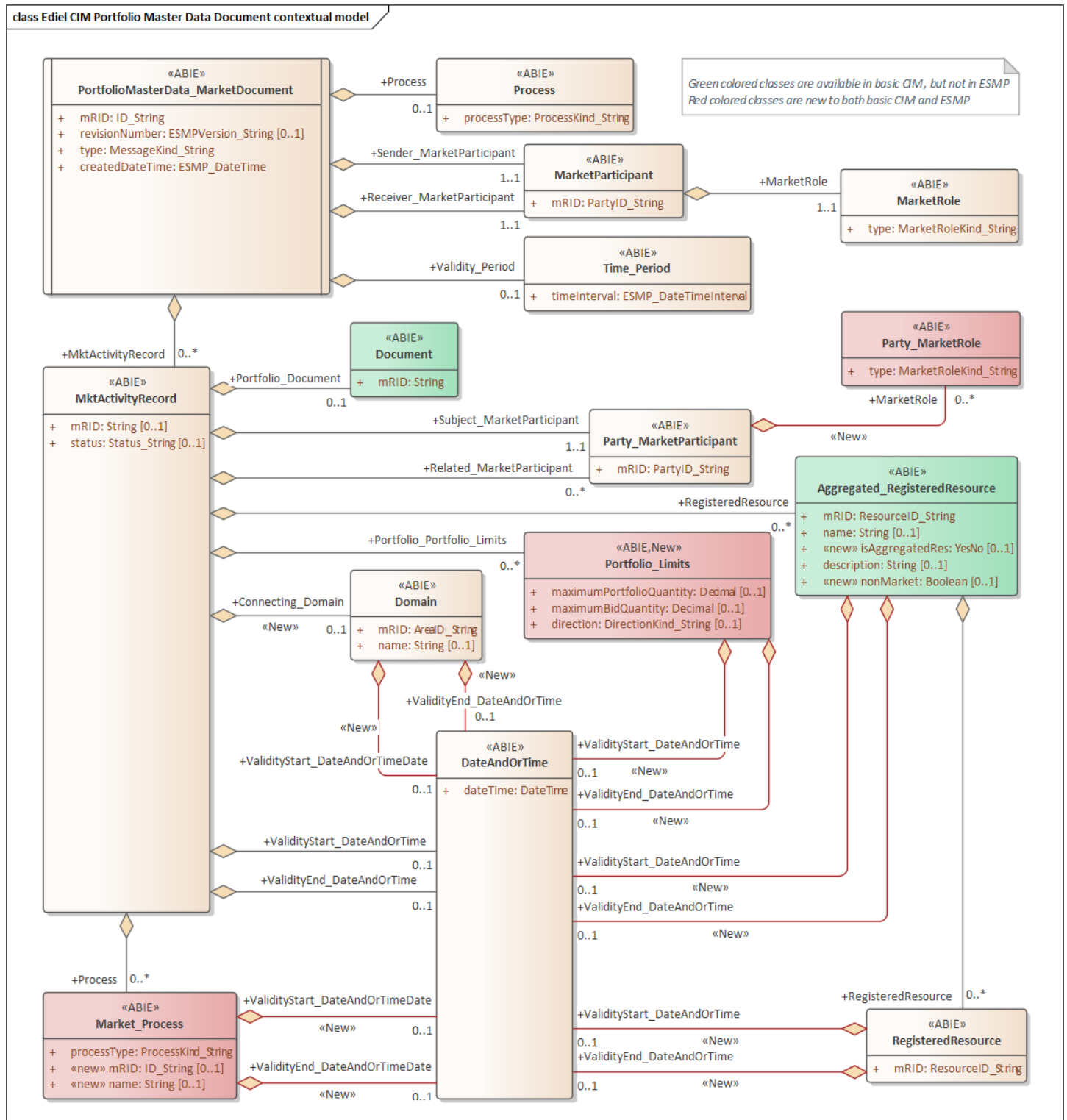

Figure 3: Class diagram: Ediel CIM Portfolio Master Data Document Contextual model

3.1.1　Needed changes to ESMP and IEC 62325 (need for MRs):

- Addition of a new class Portfolio_Limits
  - We must make a MR for addition of the new class in both IEC/62325 and ESMP.

- Extension of the ESMP RegisteredResource class:
  - Addition of the attribute nonMarket (Boolean)
    - The attribute is present in the IEC62325/MarketCommon/RegisteredResource class
    - This attributed will be used for the Resource membership/Active attribute from Unicorn.

  - Addition of the attribute isAggregatedRes (Boolean or YesNo?)
    - The attribute is present in the IEC62325/MarketCommon/RegisteredResource class
    - Will be used to tell if the associated RegisteredResource class is present or not.

  - Addition of an association from RegisteredResource to itself named Aggregated_RegisteredResource:
    - There is already an association from RegisteredResource to itself named AggregatedRegisteredResource in the IEC62325/MarketCommon package, hence we need the association from RegisteredResource to itself only in ESMP
- Extension of the ESMP Process class
  - Addition of the two attributes mRID (ID_String) and name (String) – none of these are present in IEC62325/ MarketManagement/Process class

- Addition of associations
  - From MktActivityRecord to Portfolio_Limits
  - From MktActivityRecord to Domain
  - From MktActivityRecord to Aggregated_RegisteredResource
  - From Domain to DateAndOrTime
  - From RegisteredResource to DateAndOrTime
  - From Process to DateAndOrTime

- Change the cardinality of the association from MktActivityRecord to Process to [0..*]

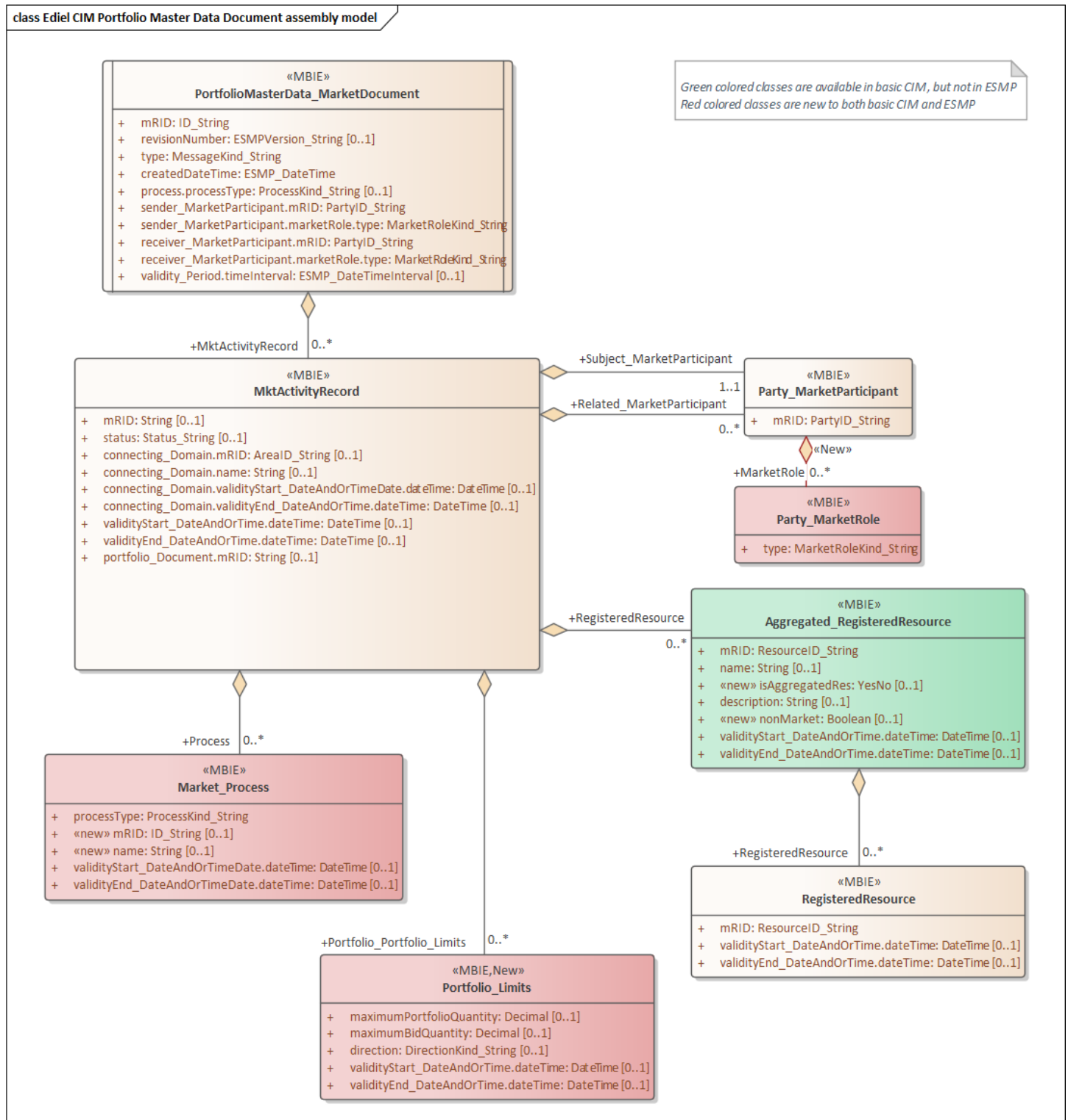## 3.2   Ediel CIM Portfolio Master Data Document assembly model

Figure 4: Class diagram: Ediel CIM Portfolio Master Data Document assembly model

4   Ediel CIM Resource Master Data Document

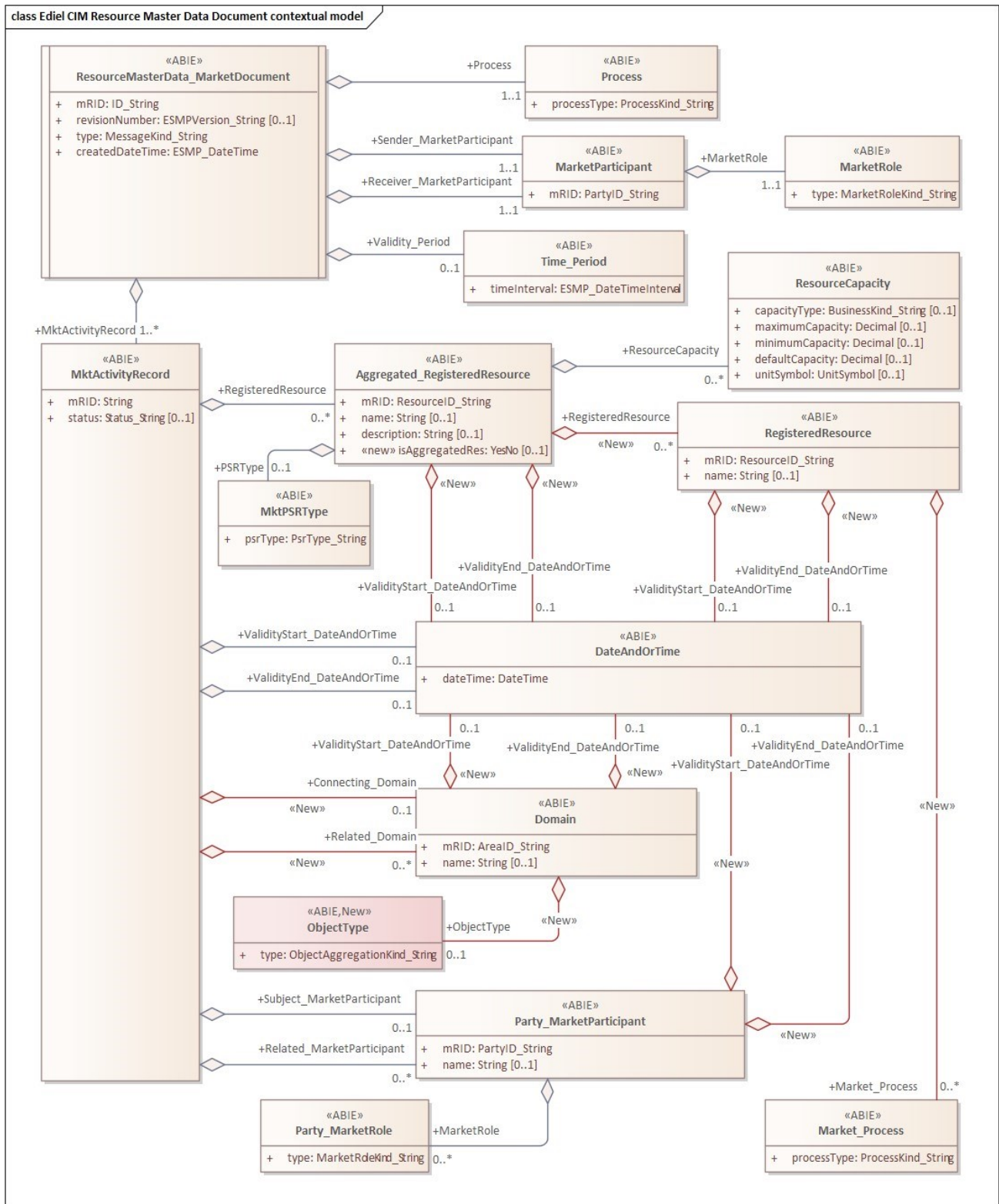## 4.1   *Ediel CIM Resource Master Data Document contextual model*

Figure 5: Class diagram: Ediel CIM Resource Master Data Document Contextual model

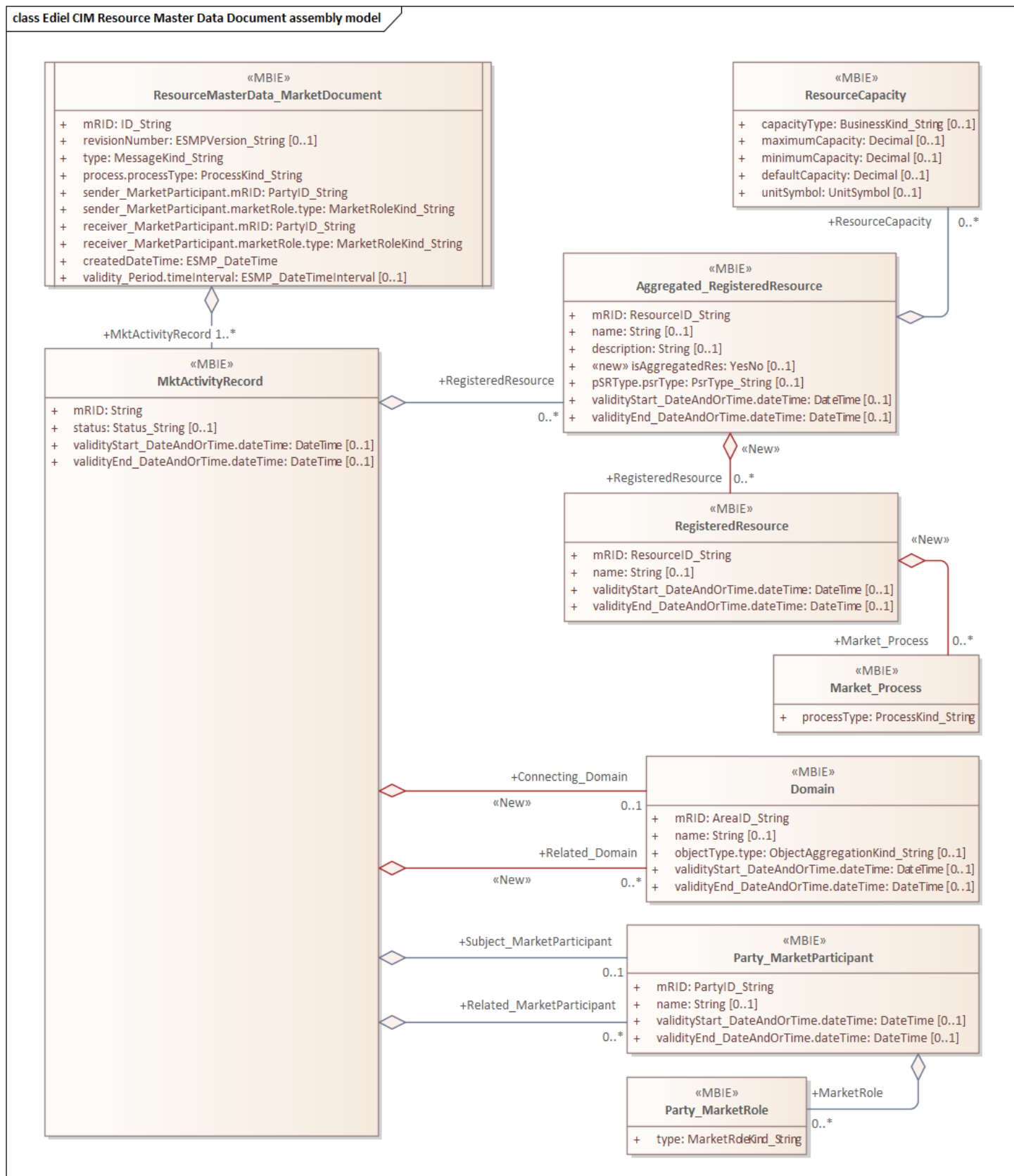## *4.2　Ediel CIM Resource Master Data Document assembly model*

Figure 6: Class diagram: Ediel CIM Resource Master Data Document assembly model

4.3 Comments to the Ediel CIM Resource Master Data Document:

4.3.1 New attributes and associations needed by NBS (added March 5th, 2024)

- An ObjectType class is added, containing the attribute: type. The ObjectType class is associated to the Domain class and is used for telling the type of Domain.

4.3.2 Needed changes to ESMP and CIM/Market (IEC 62325) (need for MRs):

- Add an association from MktActivityRecord to Domain in both TC57CIM/Market and in ESMP
- Add the class ObjectType and the association from Domain to ObjectType in ESMP (the class and association are already present in TC57CIM/IEC61970/Base/Core)
- Add an association from Domain to TimeSeries (or Series) in both TC57CIM/Market and in ESMP
- Add an association from Domain to DateAndOrTime in both TC57CIM/Market and in ESMP
- Add an association from RegisteredResource to DateAndOrTime in both TC57CIM/Market and in ESMP
- Add an association from RegisteredResource to itself named AggregatedRegisteredResource in ESMP (already present in CIM/Market)
- Add an association from MarketParticipant to DateAndOrTime in both TC57CIM/Market and in ESMP
- Add an association from RegisteredResource to Process in both TC57CIM/Market and in ESMP
- Add the isAggregatedRes attribute to RegisteredResource in ESMP (already present in CIM/Market)

4.4　Mapping to NBS Resource master data document and Unicorn class diagram

		Class/attribute		Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
mRID	[1]	Document Identification		Unique identification of the document
revisionNumber	[0..1]			Not used
type	[1]	Document Type		*Message Type enumeration:* 　**Z13**　Request change of Resource master data 　**Z16**　Generator Group Relations document 　**Z22**　Resource master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) 　**Z23**　Resource master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) 　**Z30**　Request change of Generator Group (Regulation Object) relations 　**Z31**　Production Plan Structure – valid for the whole time-interval 　**Z32**　Production Plan Structure – having a start or end within the validity period *Business rules:* • **Z13** is used for requests (create, update and deactivate) to Imbalance Settlement Responsible • **Z16** is only used for updates of BRP and/or Bidding Zone. • *Resource (Production Unit):* 　○ **Z22** and **Z23** are used for reporting from Imbalance Settlement Responsible • *Resource Object (Generator Group Relations):* 　○ **Z22** and **Z23** contains a list of all "MACs" identifying production plans and are only sent to the System Operators. The documents are without the Generator Group and Generator relations.

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
Process.processType	[1]	Process Type		*Process Type enumeration:* **A55** Exchange of Master data
Sender_MarketParticipant. mRID	[1]	Sender Identification		Identification of the party who is sending the document (and Coding Scheme).
Sender_MarketParticipant. MarketRole.type	[1]	Sender Role		*Role Type enumeration:* **A05** Imbalance settlement responsible **A08** Balance Responsible Party **A26** Metering Point Administrator (DSO)
Receiver_MarketParticipant. mRID	[1]	Receiver Identification		Identification of the party who is receiving the master data (and Coding Scheme)
Receiver_MarketParticipant. MarketRole.type	[1]	Receiver Role		*Role Type enumeration:* **A05** Imbalance Settlement Responsible **A08** Balance Responsible Party **A26** Metering Point Administrator (DSO)
createdDateTime	[1]	Creation Date Time		Date and time for creation of the document
Validity_Period. timeInterval	[0..1]			The period for which this Resource Master Data document details are valid.
MktActivityRecord	[1..*]	**Resource Object Details**		*Business rules for Resource Details when sending request for structure change:* • One Resource Details represents one request • There cannot be more than one Resource Details with the same object identification present in one xml file (multiple requests for more than one Production Unit will be rejected) *Business rules for Resource Details when distributed from Imbalance Settlement Responsible:* • Resource Details will repeat for each change of a time-dependent attribute • Resource Details contain all attributes
mRID	[1]			Unique ID of this transaction

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
RegisteredResource	[0..*]			
mRID	[1]	Resource Object Identification		Unique ID of the Resource (Generator Group) in question
name	[0..1]	Resource Object Name		Name of the Resource (Generator Group) in clear text *Business rules:* • Resource Name and Asset Type for Production Units are not time-dependent, hence Validity Start and Validity End are NOT used when updating these attributes.
description	[0..1]			Not Used
isAggregatedRes	[0..1]	Object Aggregation		*Boolean:* **True** **False** If "True", a Generator group is assumed.

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
pSRType.psrType	[0..1]	Asset Type		*Asset Type enumeration:* **A05** Load (replaces **Z07**) **B14** Nuclear **B16** Solar **B18** Wind offshore **B19** Wind onshore (replaces **Z05**) **B20** Other production **B25** Energy storage **B31** Hydro unspecified (replaces **Z06**) **B37** Thermal unspecified (replaces **Z04**) **Z04** Thermal **Z05** Wind **Z06** Hydro **Z07** Consumption *Business rules:* • Resource Name and Asset Type for Production Units are not time dependent, hence Validity Start and Validity End are NOT used when updating these attributes. • Not required when updating Resource (Production Units)
ResourceCapacity	**[0..*]**			
capacityType	[0..1]	Production Type		*Business Type enumeration:* **Z01** Normal **Z02** Minor *Business rules:* • Production Type is only used for creation of Production Units and for structure information sent from Imbalance Settlement Responsible to Market Parties, i.e. the Production Type cannot be changed
maximumCapacity	[0..1]			Not Used
minimumCapacity	[0..1]			Not Used

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
defaultCapacity	[0..1]	Capacity		Capacity of the Resource *Business rules:* • Not used for Generator Groups
unitSymbol	[0..1]	Measure Unit		*Unit of Measure Type enumeration:* 　**MAW**　Megawatt *Business rules:* • Not used for Generator Groups
validityStart_DateAndOrTime.dateTime	[0..1]	Validity Start		*Resource (Production Unit):* • At least one of Validity Start or Validity End must be present, except for Status = "**A15** Update", for not time-dependent attributes (Resource Name and Asset Type) *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
validityStart_DateAndOrTime.dateTime	[0..1]	Validity End		*Resource (Production Unit):* • At least one of Validity Start or Validity End must be present, except for Status = "**A15** Update", for not time-dependent attributes (Resource Name and Asset Type) *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
RegisteredResource	**[0..*]**	**Related Resource Object**		*Business rules:* • Only used for "Generator Group – Generator Relations", i.e. Document Type **Z30**
mRID	[1]	Resource Object Identification		Unique ID of the Resource (Generator) in question
name	[0..1]			Not Used
Market_Process	**[0..*]**			
processType	[1]			Not Used
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
status	[0..1]	Status		*Status Type enumeration:* **A14** Creation **A15** Update **A16** Deactivation *Business rules:* • Only used when requesting a change to an object. Not used for information notifications • Deactivation is used to remove a linked party (Supplier, Retailer or Balance Responsible Party) from a Resource. To reactivate a deactivation, **A15** Update is used • For "**A14** Creation", all time-dependent attributes have the same validity as the Production Unit • An "**A14** Creation" for a Resource already crated, will be rejected • An "**A15** Update", for a not existing Resource, will be rejected • An "**A16** Deactivation", for an already deactivated Resource, will be rejected
validityStart_DateAndOrTime.dateTime	[0..1]	Validity Start		Date Time *Business rules:* • At least one of Validity Start or Validity End must be present, except for Status = "**A15** Update", for not time-dependent attributes (Resource Name and Asset Type)
validityEnd_DateAndOrTime.dateTime	[0..1]	Validity End		Date Time *Business rules:* • At least one of Validity Start or Validity End must be present, except for Status "**A15** Update" for not time-dependent attributes (Resource Name and Asset Type)
Connecting_Domain	[0..1]			
mRID	[1]			Not Used
name	[0..1]			Not Used
objectType.type	[0..1]			Not Used

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used
Related_Domain	[0..1]	**Related Area**		*Business rules:* • Required for Generators • Required for Generator Groups in Sweden • May be repeated if a Generator or a Generator group covers more than one area • Related Area is only used for creation of Production Units and for structure information sent from Imbalance Settlement Responsible to Market Parties, i.e. the Related Area cannot be changed
mRID	[1]	Area Identification		Unique ID of the MGA or BZ (and Coding Scheme)
name	[0..1]			Not Used
objectType.type	[0..1]	Type of Area		*Object Aggregation Type enumeration:* **A12** Bidding Zone (BZ) **A14** Metering Grid Area (MGA)
validityStart_DateAndOrTime.dateTime	[0..1]	Validity Start		*Resource (Production Unit):* • Not Used *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
validityStart_DateAndOrTime.dateTime	[0..1]	Validity End		*Resource (Production Unit):* • Not Used *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
Subject_MarketParticipant	[0..1]	**Party Details**		
mRID	[1]	Subject Party		Unique ID of the Retailer or Balance Responsible Party in question (and codingScheme)
name	[0..1]			Not Used

Class/attribute				Code and description
Ediel CIM Resource Master Data Document	**Card.**	**NBS Resource master data document**	**Unicorn class diagram**	**Usage in NBS Resource master data document**
MarketRole	[0..*]			

type	[1]	Subject Party Role		*Role Type enumeration:*
				
				  A08 Balance Responsible Party
				  A12 Energy Supplier

validityStart_DateAndOrTime.dateTime	[0..1]	Validity Start		*Resource (Production Unit):* • Not Used *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
validityStart_DateAndOrTime.dateTime	[0..1]	Validity End		*Resource (Production Unit):* • Not Used *Resource Object (Generator Group Relations):* • At least one of Validity Start or Validity End must be present.
Related_MarketParticipant	[0..*]			
mRID	[1]			Not Used
name	[0..1]			Not Used
MarketRole	[0..*]			
type	[1]			Not Used
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used
validityStart_DateAndOrTime.dateTime	[0..1]			Not Used

Appendix A   NMEG and Unicorn requirements

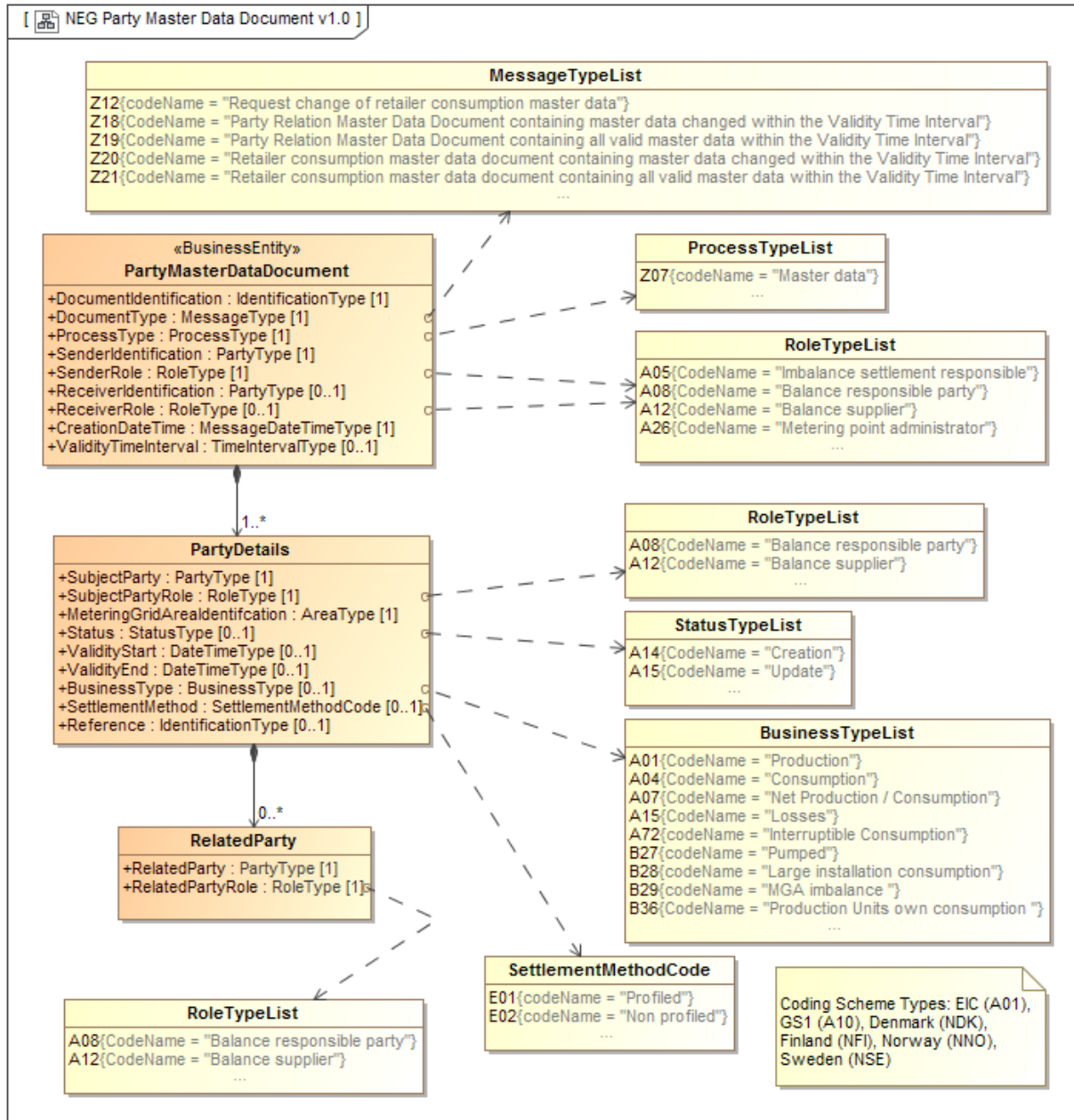### A.1   NEG Party Master Data Document

Figure 7: Class diagram: NEG Party Master Data Document

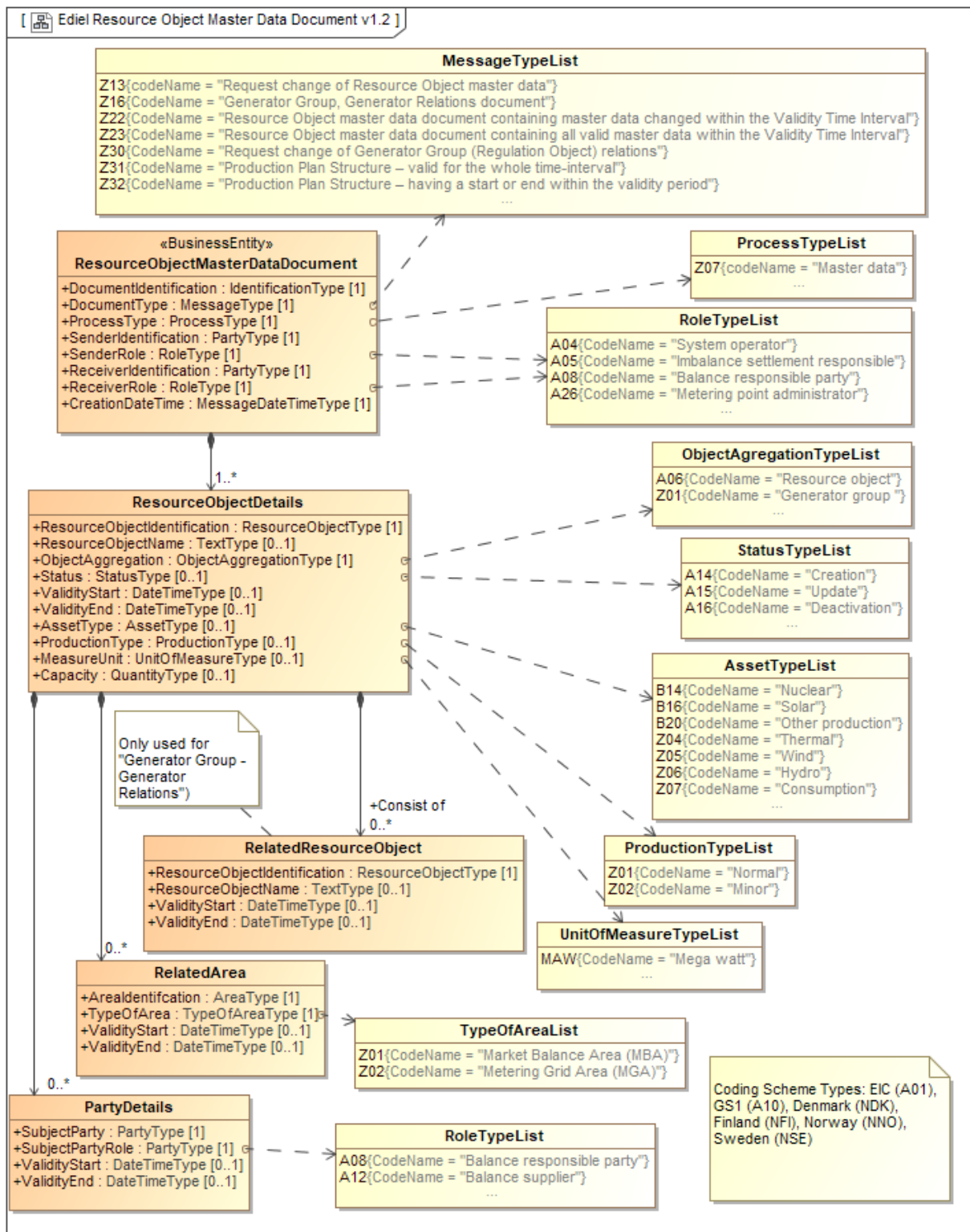## A.2 Ediel (NEG) Resource (Production Unit) Master Data Document

Figure 8: Class diagram: Ediel (NEG) Resource (Production Unit) Master Data Document

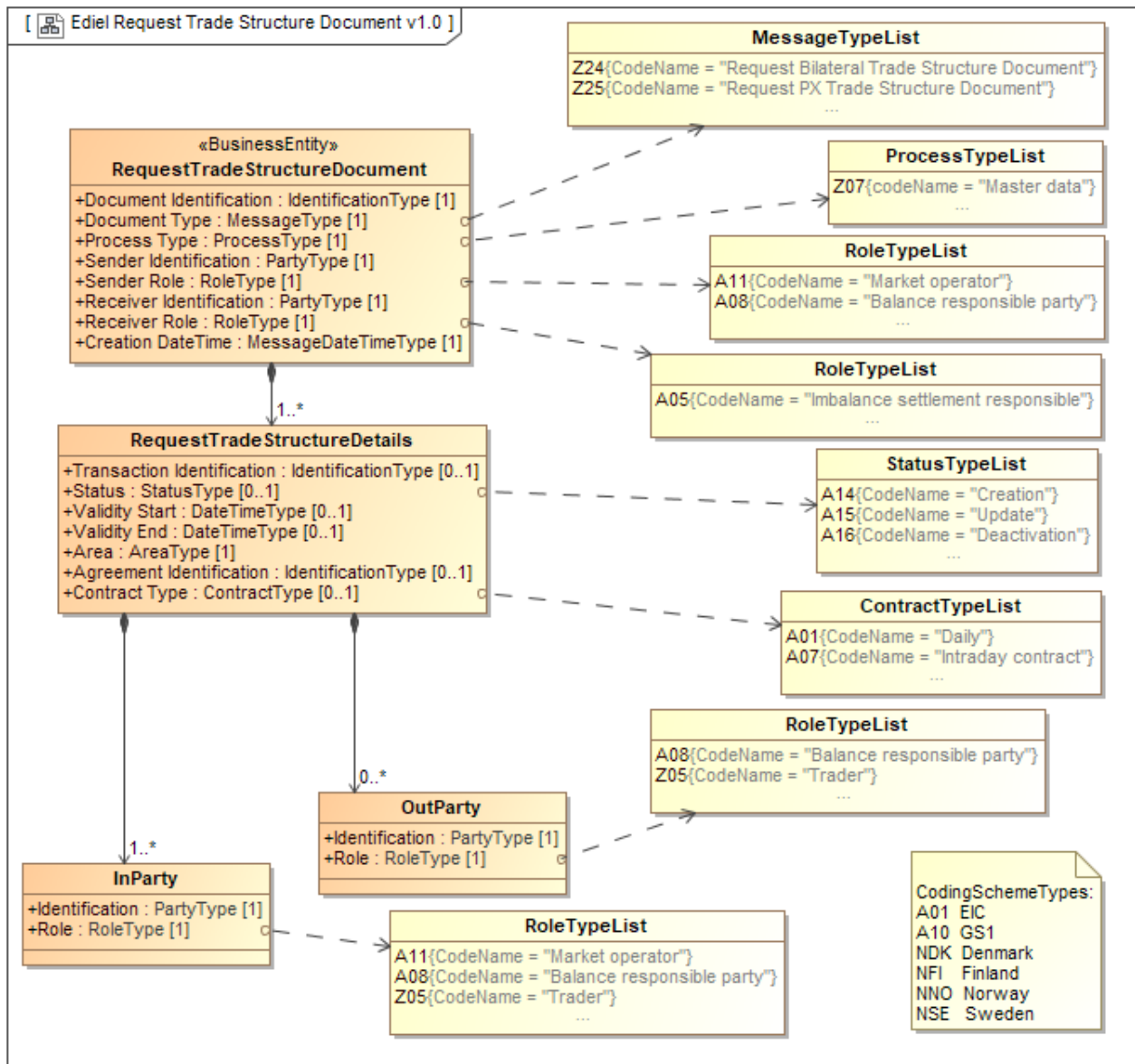## A.3   Ediel Request Trade Structure Document

Figure 9: Class diagram: Ediel Request Trade Structure Document

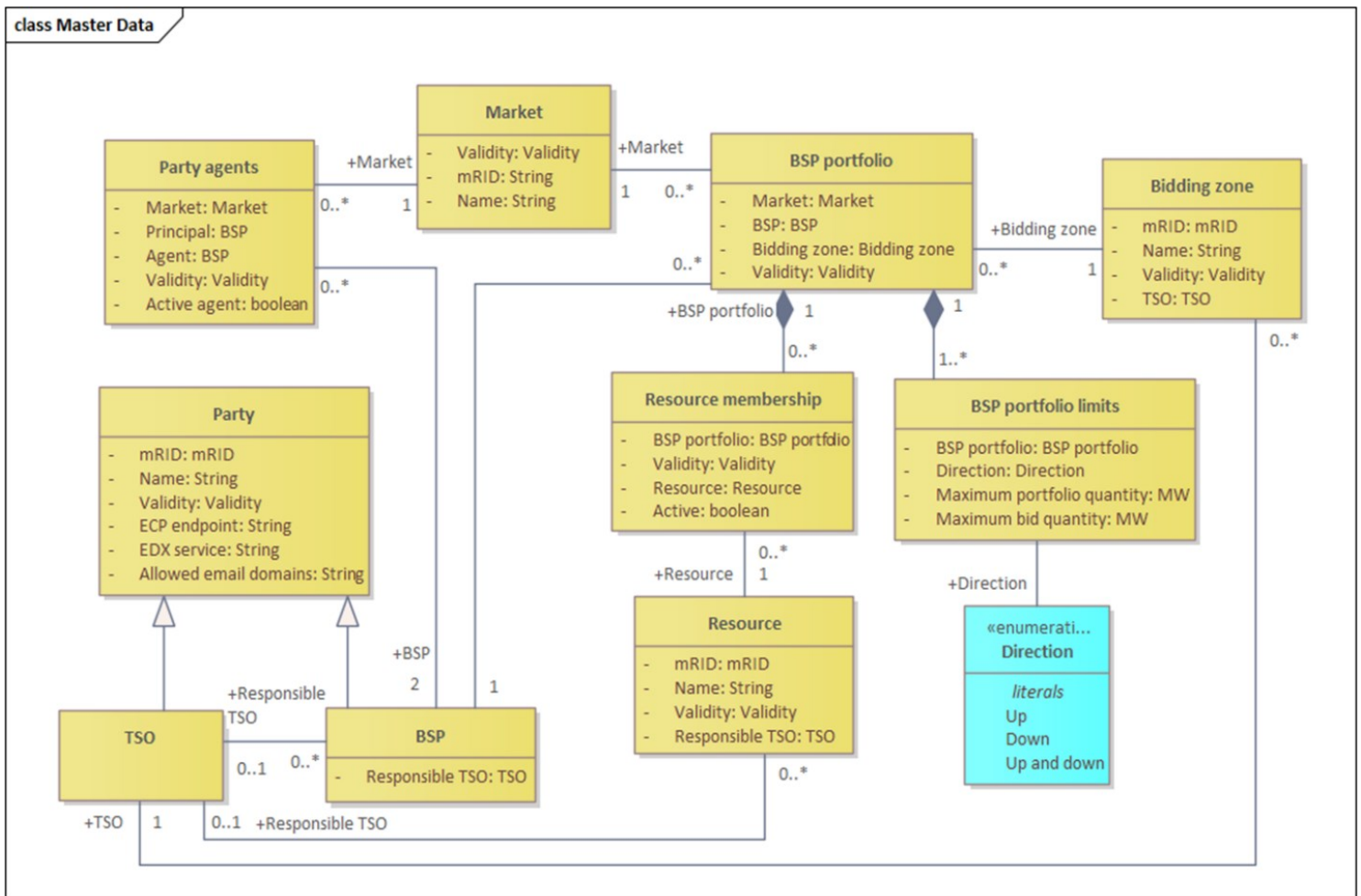## A.4   Market- or Party master data requirements from Unicorn

Figure 10: Class diagram: Party master data requirements from Unicorn