



SAGSFREMSTILLING
Dato: 15. marts 2022 Forfatter: JTI/CCO

CIM BASED EDIEL TRANSAKTIONER FOR DET DANSKE ELMARKEDE VERSION 1.5

GUIDE

Dette dokument indeholder RSM Guiden til CIM formatet

Dele af DataHub 3.0 er ikke 100% klarlagt endnu, hvorfor der kan komme løbende opdateringer til dokumentet, hvor udvikling eller test viser fejl eller mangler.

1.3	CIM Based EDIEL Transaktioner for det danske Elmarked	01-10-2021	07-01-2022	09-03-2022		DATE
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1 Ændringslog

Version	RSM-Nummer	Afsnit	Rettelse
0.1	Alle	-	Dokument oprettet
0.2	Alle	Alle	Strukturen i kolonnen Danish attribut er blevet tilpasset, så attribut vises i samlet felt i stedet for niveauer
0.2	Alle	Alle	Kolonne til felt længde tilføjet
1.0	Alle	Alle	ALLE RSM har fået tilføjet et header afsnit
1.0	Alle	Alle	Mange steder er der tilføjet ekstra informationer til attributter, som format eksempler m.m.
1.0	-	8	Opdateret med de seneste ændring
1.1	Overskrift		Ændret
1.1	RSM-006	6.5.2.3	Documentnamecode ændret
1.1	RSM-009	6.6.3	Header information tilføjet
1.1	RSM-012	6.7.4	Documentnamecode ændret
1.1	RSM-016	6.10.1.3	Documentnamecode ændret
1.1	RSM-018	6.13.2.3	Documentnamecode ændret
1.1	RSM-020	6.15.1.3	Documentnamecode ændret, BusinessReasonCode ændret
1.1	RSM-020	6.15.2.3	BusinessReasonCode ændret
1.1	RSM-020	6.15.3.3	BusinessReasonCode ændret
1.1	RSM-024	6.19.1.3	Documentnamecode ændret
1.1	RSM-005 RSM-020 RSM-020 RSM-024 RMS-027 RMS-030 RSM-033	6.4.2 6.15.2 6.16.2 6.19.2 6.21.2 6.24.2 6.27.3	Bemærkning fjernet for Reason code
1.1	Mange	Mange	I alle mappings tabeler hvor der har være henvist til GLN..11 er cifre rettet til 13. Derudover er info om GLN og EIC rykket til kommtarer feltet i stedet for længde feltet.
1.1	Mange	-	Mange Contextual og assembly modeller er opdateret grundet tilføjelse af default værdi documentnamecode, så den vises korrekt i modellerne.
1.1	Flere	-	Flere Contextual og assembly modeller har ikke afspejlet cardinaliteterne beskevet mapningstabellen. Dette er nu rettet i modellerne, der er ikke ændret på cardinaliteterne i mapningstabellerne.
1.1	RSM-014	6.8	NotifyAggregatedtimeseries har skiftet navn til NotifyAggregatedmeasureData
1.1	RSM-005	6.4.2	Cardinalitet for MP er ændret til mandatory
1.1	RSM-021 RSM-022	6.16.1.5 6.17.4	Dansk attribut og længde ændret for ActualAddressIndicator
1.2	RSM-017 RSM-033	6.27.2 6.11.1	Længde ændret for attribut "Resolution"

1.2	RSM-034	6.28.1 6.28.2	ChargeGroup har fået fjernet mRID i modellerne
1.2	RSM-027 RSM-028	6.21.1.5 6.22.4	Struktur er ændret for Phone felter i CIM kolonnen fra /phone1 eller 2 til /ituphone/phone 1 eller 2 Længden er ændret fra 20 til 15
1.2	RSM-019	6.14.4	Længde felt er ændret fra An..6 til Decimal for amount og quantity
1.2	Mange reject og confirm beskedes	Mange	Da der er taget beslutning om at bruge A01 og A02 bruges i Reject og confirm beskedes i CIM, er bemærkning om at beslutning udestår fjernet i hele dokument.
1.2	Mange	Mange	Længde for "ChargeTypeOwner_MarketParticipant / mRID" er ændret fra An..50 til An..16
1.2	RSM-033 RSM-034	6.27.2 6.28.4	Bemærkning om ændret brug af VatPayer, er fjernet, da der ikke er ændringer til brug af VatPayer.
1.2	RSM-033	6.27.3.1	Contextual model til Confirm er sat ind, da request var blevet kopieret ind ved en fejl.
1.2	RSM-021	6.16.1.5	Dansk attribut rettet for Linked_MarketEvaluationPoint
1.2	RSM-009	6.6.4	Mapping tabel er blevet rettet så navngivning mellem Danish attribut passer med CIM attribute
1.2	RSM-016		DocumentnameCode er blevet rettet fra E66 til E74 for request
1.2	RSM-028	6.22.4	Struktur rettet for Occurrence
1.2	RSM-001 RSM-027 RSM-028		Indsat kommentar vedr. CPR og CVR, for hvordan man sletter CPR og CVR
1.2	RSM-020	6.15.1 6.15.2	Ændring af struktur for ServiceCategory fra electricheating til kind i modellerne
1.3			Ny version, efter Christian Odsgard har gennemført et review, hvor noter er blevet tilføjet eller præciseret.
1.3	Alle	Header afsnit	Alle header afsnit er gennemgået for at sikre at alle roller og forretningsårsager er vist korrekt.
1.3	RSM-033 RSM-034		Forretningsårsag D18 er omdøbt Forretningsårsag D08 tilføjet
1.3	RSM-035		Forretningsårsag D48 tilføjet
1.3		7	Koden Z01 er ændret til A06
1.3	RSM-012 RSM-014 RSM-019 RSM-033 RSM-034	6.7.5 6.8.4 6.14.4 6.27.2 6.28.4	Beskrivelsen til timeinterval er ændret, så formatet fremstår uden sekunder, som ikke bruges i de RSM, hvor der bruges time interval.
1.3	RSM-030 RSM-031		Der er kommet kommentarer til disse to RSM, som kan medføre ændringer i strukturen, hvorfor de to RSM ikke færdige endnu.
1.4	RSM-021 RSM-022	6.16.1.15 6.17.4	physicalConnectionCapacity, contractedConnectionCapacity og ratedCurrent har fået tilføjet bemærkning om at unit er et krav i transaktionen
1.4	RSM-021 RSM-022	6.16.1.15 6.17.4	Format til nextreading i dokumentation er rettet så det passer med formatet i skemaerne.

1.4	RSM-033	6.27.1.4	Series_period er taget ud af CIM attribut til PriceTimeFrame_Period / resolution
1.4	RSM-003	6.2.1.4 6.2.2.4 6.2.3.4	Afsender og modtager i RSM-003 transaktioner er blevet byttet om så de passer med processen.
1.4	RSM-030	6.24.1.1 6.24.1.2	Modeller opdateret så de viser den nye attribut sammenhæng
1.4	RSM-030	6.24.1.4	Attribut Start_DateAndOrTime og End_DateAndOrTime er blevet fjernet. Attribut effectiveDate og terminationDate er blevet tilføjet. Kardinalitet for Chargegroup er ændret fra 1..1 til 1..*
1.4	RSM-031	6.25.1 6.25.2	Modeller opdateret så de viser den nye attribut sammenhæng
1.4	RSM-031	6.25.4	Attribut Start_DateAndOrTime og End_DateAndOrTime er blevet fjernet. Attribut effectiveDate og terminationDate er blevet tilføjet.
1.5	RSM-001		Afsnit er opdateret med data fra RSM DH2 dokument og omskrevet så rækkefølgen passer sammen.

2 Referencer

- Forretningsprocesser for det danske elmarked (BRS)
- Forskrift I: Stamdata
- XML Schema Part 0: Primer Second Edition (<http://www.w3.org/TR/xmlschema-0/>)
- XML Schema Part 1: Structures Second Edition (<http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/structures.html>)
- XML Schema Part 2: Datatypes Second Edition (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html>)
- XML Path Language (XPath) (<http://www.w3.org/TR/xpath/>)
- "Administrativ nummerering af offentlige veje og stier" (<https://vejdirektoratet.dk/DA/vejsektor/samarbejde/nationalt/CVF/Documents/>)
- ebIX® Modelling Methodology (<https://www.ebix.org/artikel/documents>)

3 Introduktion

Denne bilagsrapport beskriver den samling af forretningstransaktioner, der indgår i dokumentet "Forretningsprocesser for det danske elmarked".

Bilagsrapporten indeholder en specifikation af håndteringen af forretningstransaktionerne der bliver anvendt i det danske elmarked.

En forretningstransaktion i dette dokument skal håndteres med udgangspunkt i reglerne, som er angivet i afsnit om *Fejlhåndtering og kvitteringer*, der beskriver den generelle fejlhåndtering, hvilket omfatter den validering af meddelelserne, som skal ske før den mere specifikke validering af forretningstransaktion.

3.1 Formål og målgruppe

Dokumentet har til formål at klarlægge og beskrive forretningstransaktionerne samt indholdet af data for de beskrevne forretningsprocesser. Dokumentets målgruppe er alle aktører og disses systemleverandører.

3.2 Forretningstransaktioner

En forretningstransaktion er uafhængig af andre forretningstransaktioner, men kan sammen med andre transaktioner indgå i en eller flere forretningsprocesser.

En forretningstransaktion beskriver udvekslingen af meddelelser mellem to aktørers it-systemer. Yderligere specificeres en del af den interne håndtering i en aktørs it-system.

Ved modtagelse af en meddelelse skal det valideres om den er i overensstemmelse med de forretningsregler der er angivet i *Forretningsprocesser for det danske elmarked*, hvorefter svar afsendes.

Hver meddelelse indeholder en liste af attributter, som vises i form af et klassediagram og i enkelte tilfælde anvendes en dependency matrix. En dependency matrix anvendes, hvis det er muligt at sende en meddelelse med forskellige attributter alt efter formål.

Dette dokument beskriver således alle forretningstransaktioner, der indgår i dokumentet: *Forretningsprocesser for det danske elmarked*.

3.3 Beskrivelse af meddelelsesstruktur

Den strukturelle definition af de enkelte meddelelser er dels beskrevet tekstuel i dette dokument, dels specificeret ved hjælp af en række XML-skemaer, som kan hentes på Energinets hjemmeside.

På grund af tekniske begrænsninger i syntaksen for XML/JSON-skemaer er der situationer, hvor attributter vil være angivet som valgfri, på trods af at de logisk vil være krævet et sted i meddelelsen og valgfri eller endog ikke tilladt et andet sted. Dette fremkommer når samme datatype anvendes i samme meddelelse, men i lidt forskellig kontekst. I disse tilfælde vil afhængigheden for den enkelte instans af en attribut som beskrevet her i dokumentet være den gældende og den som DataHub validerer efter.

Eks. Next reading date skal være på NG6 målepunkter, men ikke på øvrige målepunkter

Eks. Netsettlementgroup – kun forbrugs- og produktionsmålepunkter (E17 og E18) har angivet nettoafregningsgruppe. Øvrige målepunktstyper har ikke angivet nettoafregningsgruppe.

3.3.1 Læsevejledning

De enkelte RSM er beskrevet ud fra den generelle IEC standard, hvorfor der vil være en række attributter, som ikke bruges i Danmark. Attributter der ikke bruges, vil ikke have noget navn i kolonnen "Danish attribute" og ofte vil der også være en bemærkning i kolonnen "Remark" som viser at der ikke bruges i Danmark.

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_Market-Document / Reason /code	AN_3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An_36	1	Afsenders unikke identifikation af transaktionen Transaktion ID svarer til Tidsserie ID
		MktActivityRecord / BusinessProcessReference_MktActivityRecord / mRID	An_36	0..1	Currently not used in Denmark.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_MktActivityRecord / mRID	An_36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN_18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre og codingScheme = A10

3.4 Meddelelsesudveksling

Alle beskeder, der kommunikerer via webinterfacet i DataHub, er XML/JSON beskeder og består af:

- En MessageHeader, som indeholder informationer, der bruges til styring af den bagvedliggende forretningsproces. Det vil sige identifikation af den enkelte besked og dens indhold og identifikation af den forretningsproces, beskeden skal behandles af.
- En eller flere Payloads (forretningstransaktioner), som hver indeholder en forretningsbesked.

3.5 Validering mod XML-skema

XML-skemaer¹ definerer indhold, struktur og typer for XML-meddelelser. Med en XSD definition er det muligt at:

- Beskrive indholdet i XML-meddelelsen
- Validere XML-meddelelsen
- Definere datafacetter (restriktioner for dataindhold)
- Definere datamønstre (dataformater)

DataHub validerer alle XML-meddelelser mod det tilhørende skema. Valideringen sker i samme webservice session, og afsender bliver øjeblikkeligt orienteret om resultatet.

Det er til enhver tid Energinet, der fastlægger, hvilket XML-skema der skal anvendes for en given XML-meddelelse.

Note: Beskeder indsendt i JSON format, vil blive konverteret til XML.

¹ XML Schema Definition (XSD)

4 Fælleskomponenter

4.1 ABIE'er

De enkelte meddelelser er dannet ud fra en fælles UML model, som består af et katalog af entiteter (ABIE). I det følgende gives et overblik over de vigtigste af disse grundentiteter. Det skal bemærkes, at den generelle implementering dokumenteres i dette afsnit. I de konkrete meddelelser vil eventuelle specialtilfælde være dokumenteret.

4.1.1 DomainLocation

I Forbindelse med Stamdata

Metering Point Domain Location	
Identification	MktActivityRecord / MarketEvaluationPoint / mRID codingScheme: A01 – EIC A10 - GLN

I forbindelse med tidsserier

Metering Point Domain Location	
Identification	Series / MarketEvaluationPoint / mRID codingScheme: A01 – EIC A10 - GLN

tabel 1 – XML Schema, DomainLocation

4.1.2 ConsumerParty

Denne klasse benyttes blandt andet til at repræsentere kunden, der kan være enten en person eller en virksomhed.

Consumer Consumer Party	
Name	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / name
CPR	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / mRID, where attribute PartyID_String:: codingScheme = ARR (Social Security Number) 10 cifre Kundes personnummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme

CVR	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / mRID, where attribute PartyID_String:: codingScheme = VA (VAT number) 8 cifre Virksomhedens CVR nummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
-----	--

Figur 2 - XML Schema, ConsumerParty

CPR og CVR nr. er ens i strukturen, bortset fra det tilhørende codingScheme som angiver om det er et firma eller en person.

Bemærk at felterne, CPR og CVR er gensidigt afhængige, således man kun må angive enten CPR eller CVR.

4.1.3 Energy Supplier

Denne klasse benyttes til at repræsentere elleverandøren.

I forbindelse med stamdata

Energy Supplier	
Identification	MktActivityRecord / MarketEvaluationPoint / EnergySupplier_MarketParticipant / mRID codingScheme: A01 – EIC A10 - GLN

I forbindelse med tidsserier

Energy Supplier	
Identification	Series / EnergySupplier_MarketParticipant / mRID codingScheme: A01 – EIC A10 - GLN

Figur 3 - XML Schema, Navn på type

4.1.4 Balance responsible party

Denne klasse benyttes til at repræsentere den balanceansvarlige aktør.

Balance Responsible Energy Party	
Identification	Series / BalanceResponsibleParty_MarketParticipant / mRID codingScheme: A01 – EIC A10 - GLN

Figur 4 - XML Schema, Navn på type

4.1.5 Metering grid area

Denne klasse benyttes til at repræsentere netområdet.

Metering Grid Area Used Domain Location	
Identification	Series / MeteringGridArea_Domain / mRID codingScheme: "NDK"

Figur 5 - XML Schema, Navn på type

4.1.6 Regler for angivelse af kodelisteansvarlig

4.1.6.1 Generelle regler

Der bruges et sæt af koder, der er fastlagt i kodelister. Der er forskellige kodelister – hver med en ansvarlig.

På det danske elmarked bruges 2 sæt af kodelister:

- IEC-CIM kodeliste fra ENTSO-e
- En lokal kodeliste
 - I Danmark er lokal kodeliste en kombination af flere kodelister, som vi bruger:
 - UN/CEFACTkodeliste som UN/CEFACTer ansvarlig for
 - Altid kun tal
 - ebIX-kodelisten, som ebIX-organisationen er ansvarlig for
 - Starter med E
 - en dansk kodeliste, som Energinet er ansvarlig for
 - Starter med D
 - Nordisk kodeliste, som er lavet i samarbejder med de nordiske lande
 - Starter med Z
 - De fleste koder brugt i RSM beskeder stammer fra den lokale kodeliste.

4.1.7 Identifikation af aktører

En aktør identificeres ved enten et GLN-nummer eller en EIC-kode.

Attributten AssembledCodeListResponsibleAgencyCodeContentType bruges til at angive, hvilken identifikation der bruges.

- Hvis codingScheme = A10, er der tale om et 13 cifret GLN-nummer.
 - Eksempel:
 - `<cim:sender_MarketParticipant.mRID coding-Scheme="A10">5790001330552</cim:sender_MarketParticipant.mRID>`
- Hvis codingScheme = A01, er der tale om en 16 tegns EIC-kode.

4.1.8 Identifikation af netområde

Et netområde er identificeret ved et 3-cifret nummer.

Attributten AssembledCodeListResponsibleAgencyCodeContentType i skemaet vist som codingScheme, bruges til identifikationen

- codingScheme= NDK

Eksempel

- `<cim:meteringGridArea_Domain.mRID coding Scheme="NDK">244</cim:meteringGridArea_Domain.mRID>`

4.2 Identifikation af målepunkts id (aftagenummer)

Aftagenummeret er identificeret ved et 18-cifret nummer. GS1 Denmark udsteder disse. Dette angives ved attributten `codingScheme=A10`.

Eksempel:

- `<cim:marketEvaluationPoint.mRID coding-Scheme="A10">571313199988888819</cim:marketEvaluationPoint.mRID>`

Aktøren bør inden afsendelse af beskeder selv validere beskederne mod XML-skemaerne for at undgå unødige fejl.

5 Document header – IEC/CIM Market Document

5.1 Market Document contextual model

Kommenterede [JT11]: Undersøg om der er internationale standarder/felter, som ikke er vist her.

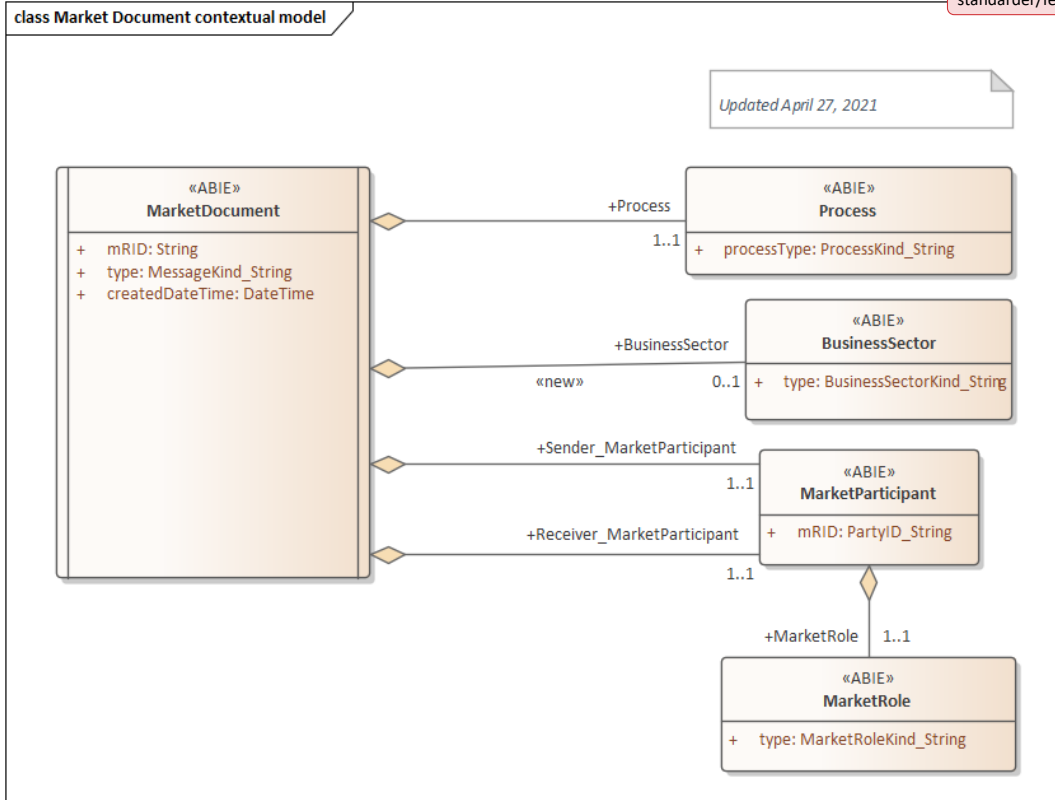


Figure 1: Class diagram: Market Document Contextual model

5.2 Market Document assembly model

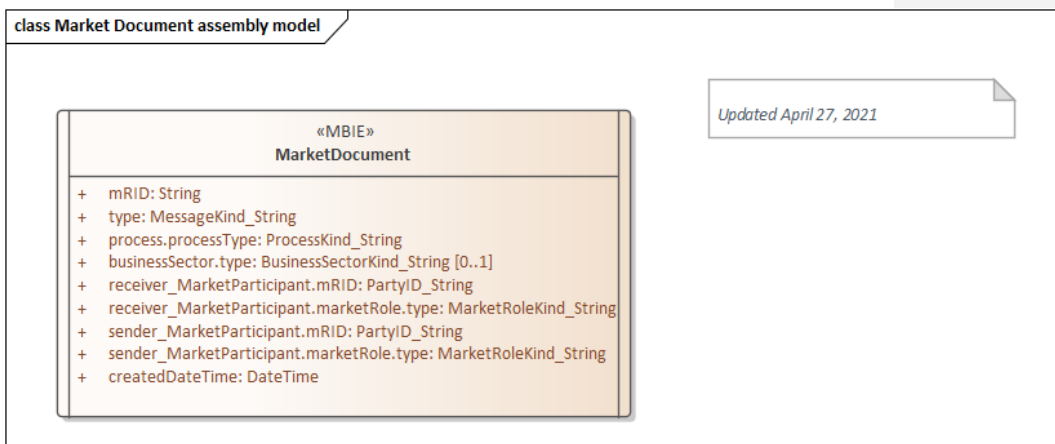


Figure 2: Class diagram: Market Document assembly model

5.3 Mapping from today's Danish document header to CIM Market Document

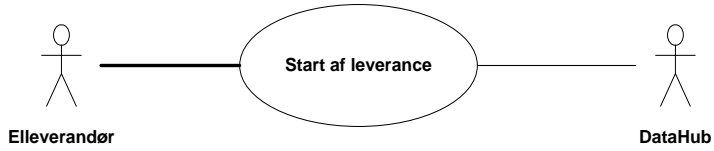
Danish attribute	Card	CIM attribute	Længde	Card	Remark
Header Energy Document / Identification	1	MarketDocument / mRID	An..36	1	Afsenders unikke identifikation af meddelelsen
Header Energy Document / Document type	1	MarketDocument / type	An..3	1	Bruges ikke i Acknowledgement_ MarketDocument. Dokumenttype er koden for meddelelsens navn.
Header Energy Document / Process Energy Context / Energy Industry Classification	1	MarketDocument / BusinessSector / type	An..2	1	23 Electricity Supply Industry 27 Gas Supply Industry
Header Energy Document / Process Energy Context (Energy Business Process)	1	MarketDocument / Process / ProcessType	An..3	1	Beskriver årsag til transaktionen. Bruges ikke i Acknowledgement_ MarketDocument.
Header Energy Document / Sender Energy Party / Identification	1	MarketDocument / Sender_MarketParticipant / mRID	An..16	1	Entydig identifikation af afsender af meddelelsen. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.

Danish attribute	Card	CIM attribute	Længde	Card	Remark
Header Energy Document / Sender Energy Party / Sender Role	1	MarketDocument / Sender_MarketParticipant / MarketRole / type	An..3	1	Den rolle som afsender anvender i forbindelse med udveksling af meddelelsen
Header Energy Document / Receiver Energy Party / Identification	1	MarketDocument / Receiver_MarketParticipant / mRID	An..16	1	Entydig identifikation af modtager af meddelelsen. Aktøren er identificeret af et GLN-nummer eller en EIC-kode CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.
Header Energy Document / Receiver Energy Party / Receiver Role	1	MarketDocument / Receiver_MarketParticipant / MarketRole / type	An..3	1	For DataHub uses either DDZ for master-data or DGL for measurement
Header Energy Document / Creation	1	MarketDocument / createdDateTime	Datetime	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ

Table 1: Mapping of Market Document

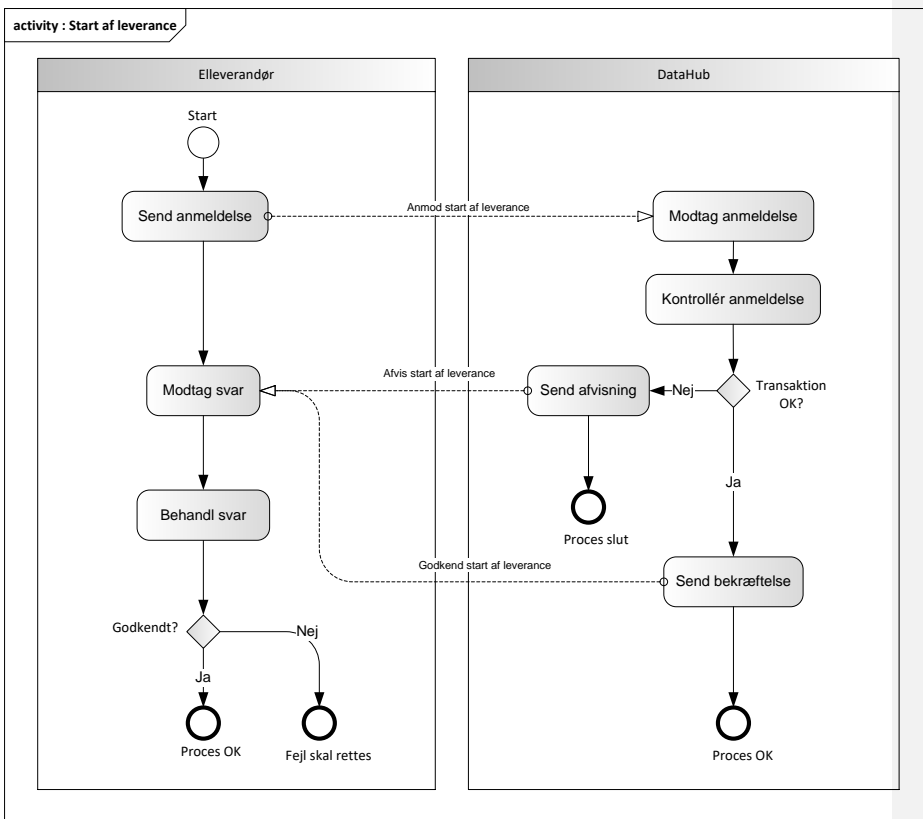
6 RSM-Beskeder

6.1 CIM based RSM 001 – Change of Supplier



Figur 6 - Use Case Diagram for Request change of supplier

6.1.1 Aktivitetsdiagram



Figur 7 - Aktivitetsdiagram for Start af leverage

6.1.2 CIM based RSM 001 – Request Change of Supplier

Forretningstransaktionen anvendes af elleverandøren til at sende en Request change of supplier til målepunktsadministratoren (DataHub).

Navn	Kode	Beskrivelse
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub

6.1.2.1 Anmod start af leverance/Request change of supplier

Transaktionen startes af en Request change of supplier meddelelse (Anmod start af leverance) med MarketDocumentType 392. En meddelelse kan indeholde en eller flere transaktioner, der alle anvender den samme ProcessType. Nedenstående koder kan benyttes i Request change of supplier.

Navn	Kode	Beskrivelse
MarketDocument / type	392	Request change of supplier
MarketDocument /Process / ProcessType	E65	Customer move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in

Modtagelse i datahub

Ved modtagelse valideres meddelelsen først i forhold til skemaet og derefter i overensstemmelse med valideringsreglerne beskrevet til Request change of supplier.

I tilfælde af at der sker verifikationsfejl i forhold til skemaet eller indholdet, skal meddelelsen afvises.

Behandling af svar hos elleverandøren

Hvis elleverandøren opdager en uoverensstemmelse i en afsendt request, kan der foretages en annullering, jævnfør RSM-024 – Request Cancelation

6.1.2.2 Request Change of Supplier Contextual model

Request change of supplier indeholder udover header (MarketDokument) en Payload klasse (MktAktivityRecord).

Kommenterede [JT12]: Er ID i customer, som bruges til CPG/CVR, en international eller er den dansk.

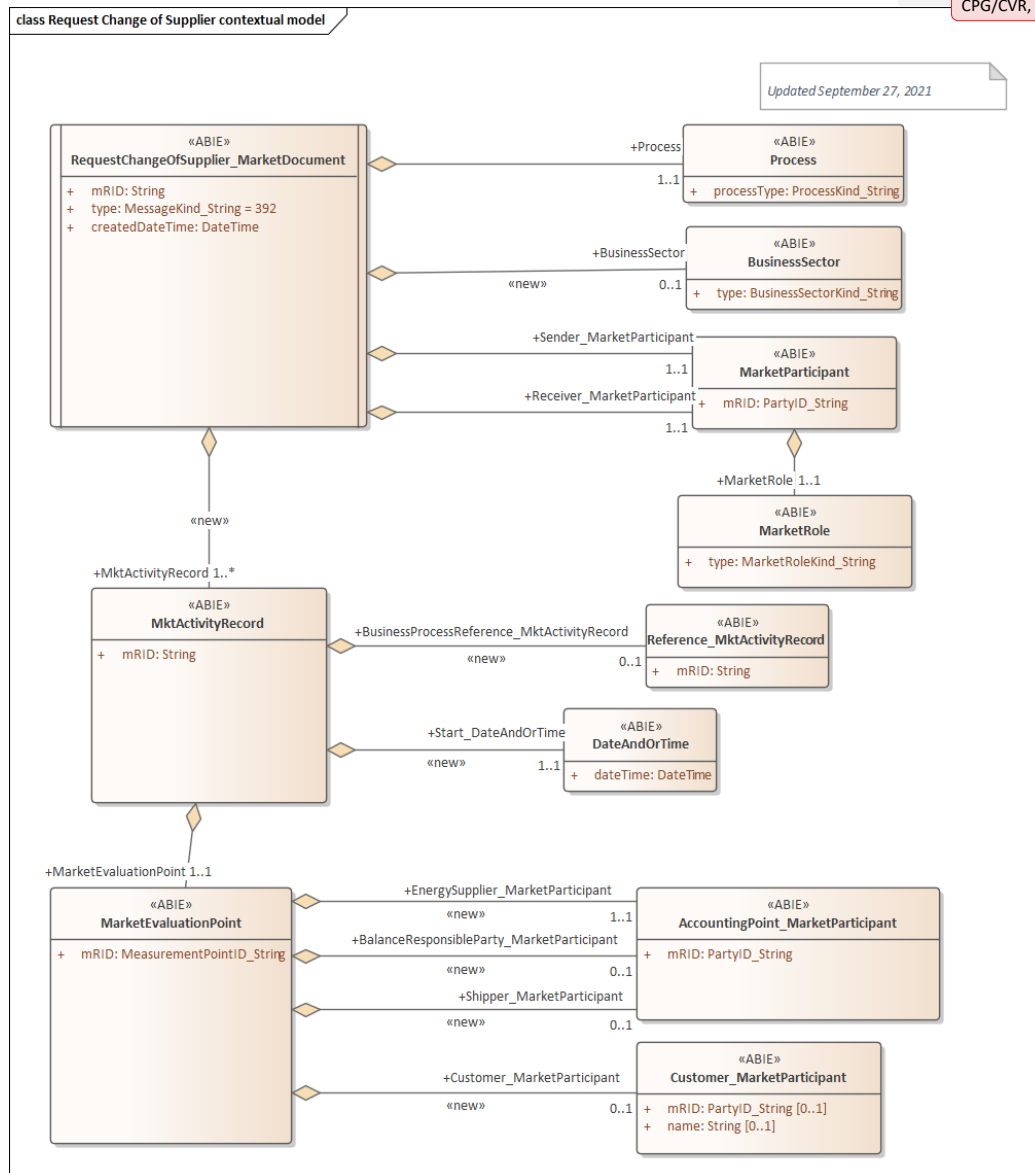


Figure 3: Class diagram: Request Change of Supplier Contextual model

6.1.2.3 Request Change of Supplier Assembly model

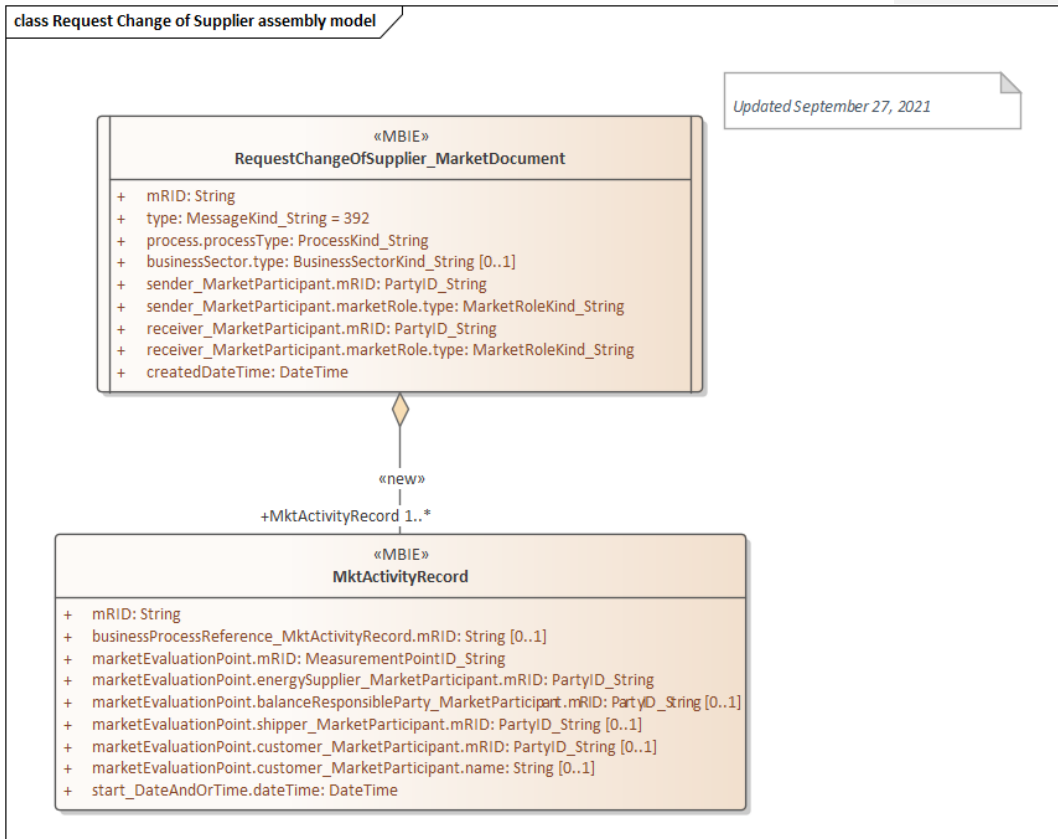


Figure 4: Class diagram: Request Change of Supplier Assembly model

6.1.2.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	392	Request change of supplier
MarketDocument /Process / ProcessType	E65	Customer move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub

6.1.2.5 Mapping from today's Danish documents to CIM document for Request Change of supplier

Alle attributer til Request Change of supplier i CIM er herunder beskrevet inkl. En reference til hvad attribut hed i Datahub 2.0 i kolonnen Danish attribut

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload MP Event / Start of Occurrence	1	MktActivityRecord / Start_DateAndOrTime / dateTime	Datetime	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload MP Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload MP Event / Balance Supplier Energy Party / Identification	1	MktActivityRecord / MarketEvaluationPoint / EnergySupplier_Marketparticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.
Payload MP Event / Balance Responsible Party Energy Party / Identification	1	MktActivityRecord / MarketEvaluationPoint / BalanceResponsibleParty_MarketParticipant / mRID	An..16	0..1	Bruges ikke i DataHub 3.0

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
		MktActivityRecord / MarketEvaluationPoint / Shipper_MarketParticipant / mRID		0..1	Bruges ikke i DataHub 3.0
Payload MP Event / Consumer Consumer Party / Name	0..1	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / name	An..132	0..1	Bruges kun i forbindelse med en flytning
Payload MP Event / Consumer Consumer Party / CPR	0..1	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = ARR (Social Security Number)	An..10	0..1	10 cifre Kundes personnummer Enten CPR eller CVR anvendes – aldrig begge
Consumer Consumer Party /CVR	0..1	MktActivityRecord / MarketEvaluationPoint / Customer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = VA (VAT number)	An..8	0..1	8 cifre Virksomhedens CVR nummer Enten CPR eller CVR anvendes – aldrig begge

Table 2 RSM-001: Mapping of Request Change of supplier

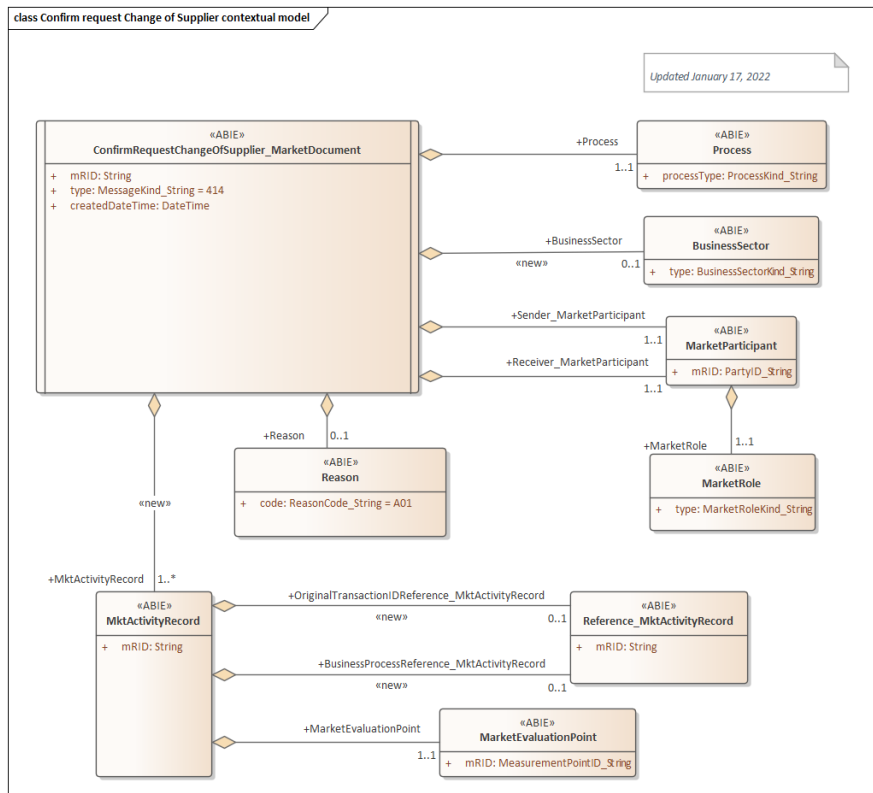
6.1.3 CIM based RSM 001 – Confirm request Change of Supplier

Hvis der ikke opdages fejl ved kontrol af meddelelsen i DataHub lagres informationen og der sendes en bekræftelse (Confirm change of supplier) med MarketDocumentType 414 for alle de godkendte transaktioner til elleverandøren.

Meddelelsen sendes som beskrevet i klassediagrammet indeholdende samme ProcessType som anmeldelsen, og godkendelsen sker ved at sætte statuskoden til A01 (approved). Herefter er transaktionen slut.

Confirm change of supplier vil altid indeholde en reference til den oprindelige meddelelse.

6.1.3.1 Confirm request Change of Supplier Contextual model



Kommenterede [JT13]: Er reasoncode flyttet op til market document fra ny mktactivity record?

Figure 5: Class diagram: Confirm request Change of Supplier Contextual model

6.1.3.2 Confirm request Change of Supplier Assembly model

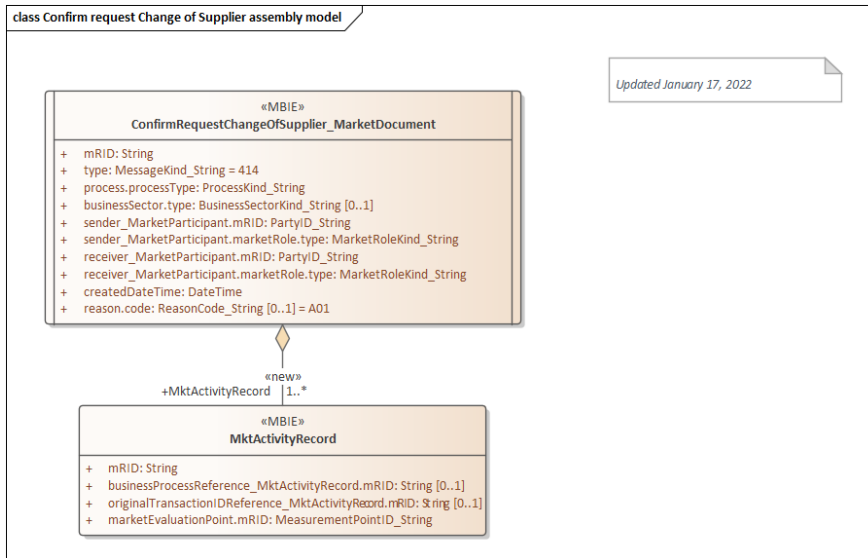


Figure 6: Class diagram: Confirm request Change of Supplier Assembly model

6.1.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	414	Request change of supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	E65	Customer move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in

6.1.3.4 Mapping from today's Danish documents to CIM document for Confirm request Change of supplier

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 3 RSM-001: Mapping of Confirm request Change of supplier

6.1.4 CIM based RSM 001 – Reject request Change of Supplier

I tilfælde af, at der konstateres en fejl i forhold til forretningsregler, skal transaktionen afvises. Dette sker med meddelelsen Reject change of supplier med DocumentType 414.

Meddelelsen sendes som beskrevet i klassediagrammet indeholdende samme ProcessType som i anmeldelsen, og afvisning sker ved at sætte status kode til A02 (Rejected) og Reason sat til den relevante kode fra forretningsreglerne.

Reject change of supplier vil altid indeholde en reference til den oprindelige meddelelse.

Modtager elleverandøren en Reject change of supply kan denne efterfølgende rette sit system og sende en ny Request change of supplier for målepunktet.

Behandling af svar hos elleverandøren

Ved modtagelse hos elleverandøren af en Reject request Change of Supplier kan elleverandøren validere meddelelsen i overensstemmelse med skemaet rejectrequestreallocatechangeofsupplier-0-1

6.1.4.1 Reject request Change of Supplier Contextual model

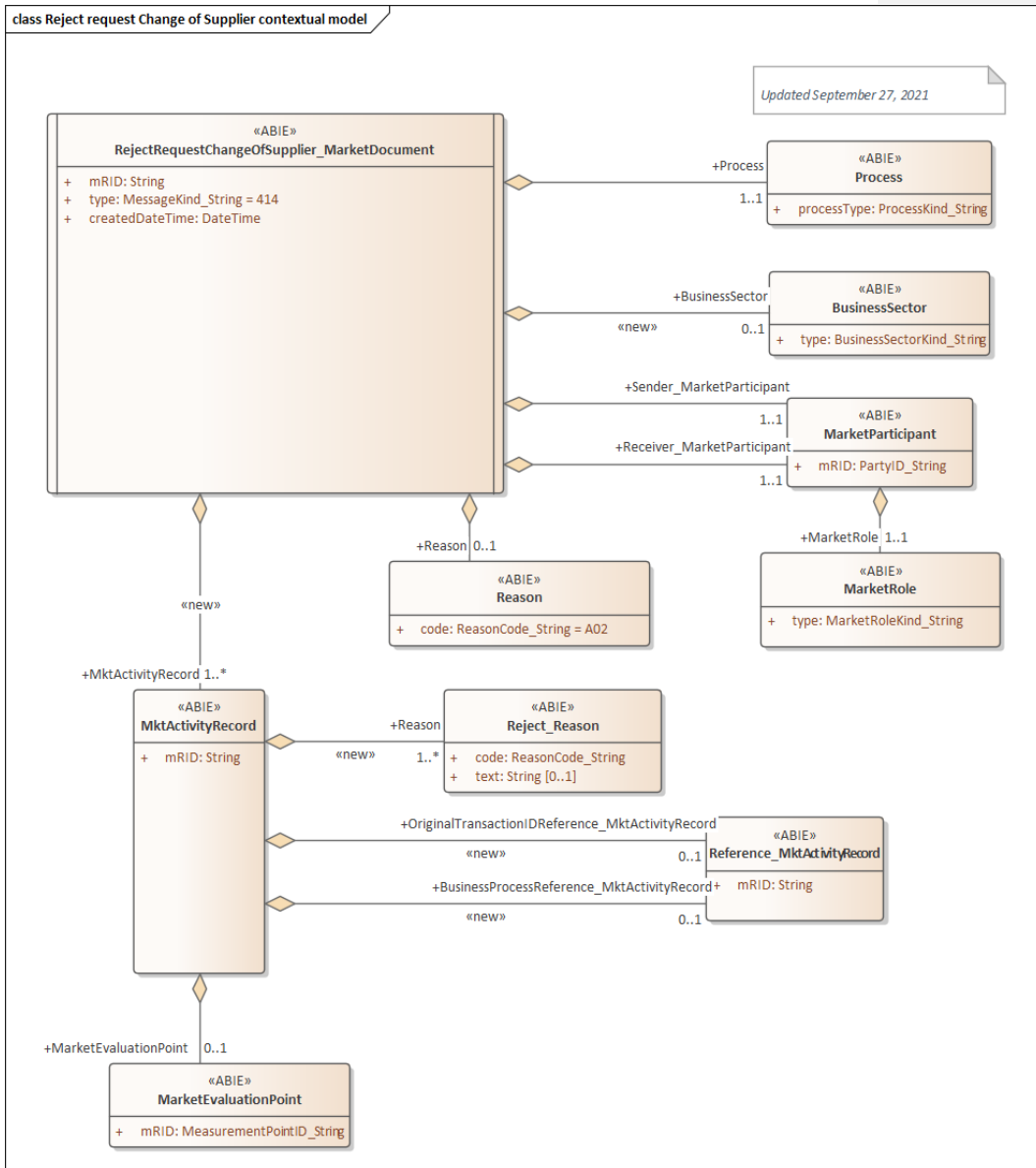


Figure 7: Class diagram: Reject request Change of Supplier Contextual model

Kommenterede [JT14]: Reject_Reason er DK, som minimum text

6.1.4.2 Reject request Change of Supplier Assembly model

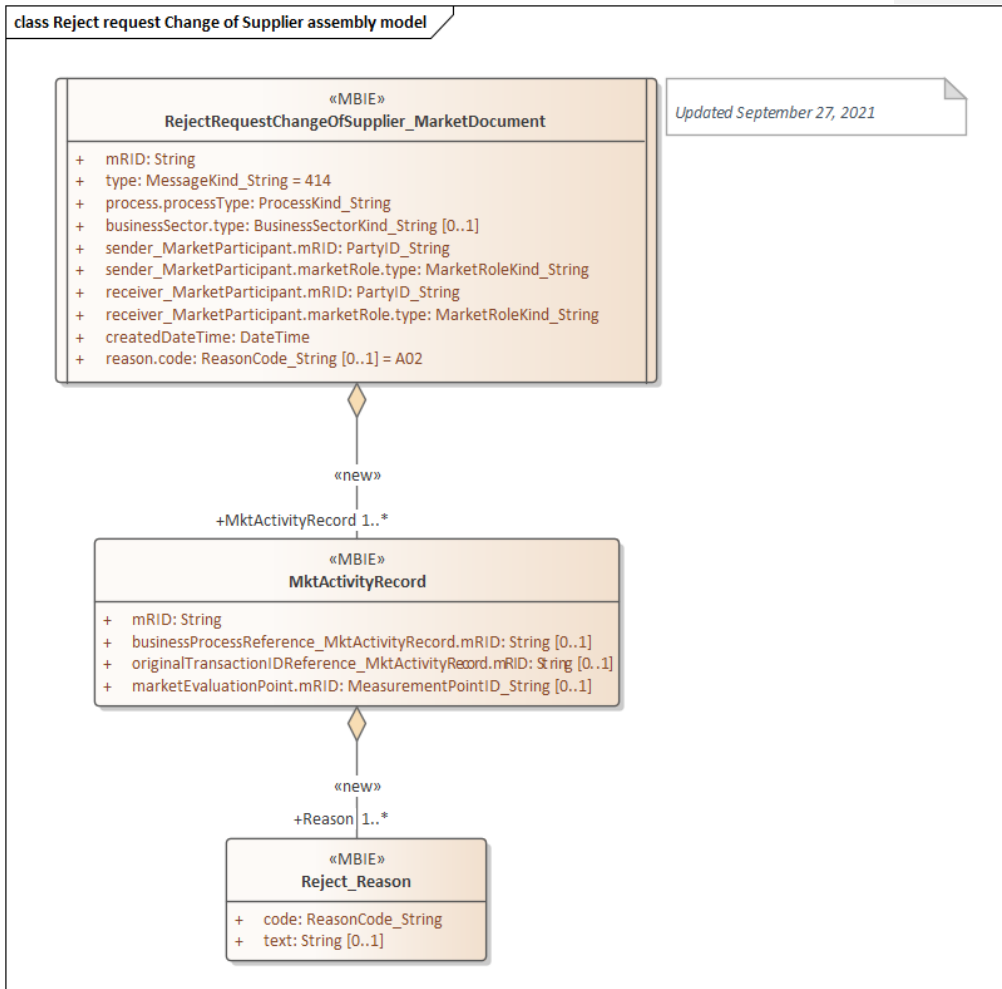


Figure 8: Class diagram: Reject request Change of Supplier Assembly model

6.1.4.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	414	Request change of supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Process / ProcessType	E65	Customer move-in
MarketDocument / Process / ProcessType	E03	Change of balance supplier
MarketDocument / Process / ProcessType	D21	Move-in due to other reason
MarketDocument / Process / ProcessType	D29	Secondary move-in

6.1.4.4 Mapping from today's Danish documents to CIM document for Reject request Change of supplier

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ Market-Document / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionID-Reference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	An..128	0..1	Fejltekst

6.2 CIM based RSM 003 – Reallocate change of supplier

6.2.1 CIM based RSM 003 – Request reallocate change of supplier

6.2.1.1 Request reallocate Change of Supplier Contextual model

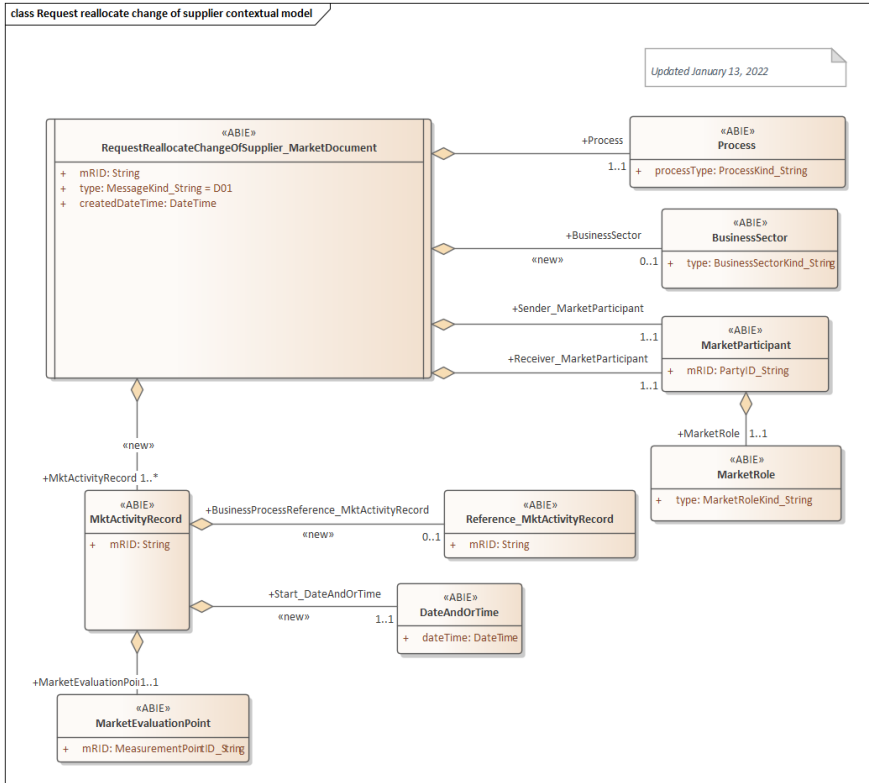


Figure 9: Class diagram: Request reallocate Change of Supplier Contextual model

6.2.1.2 Request reallocate change of supplier Assembly model

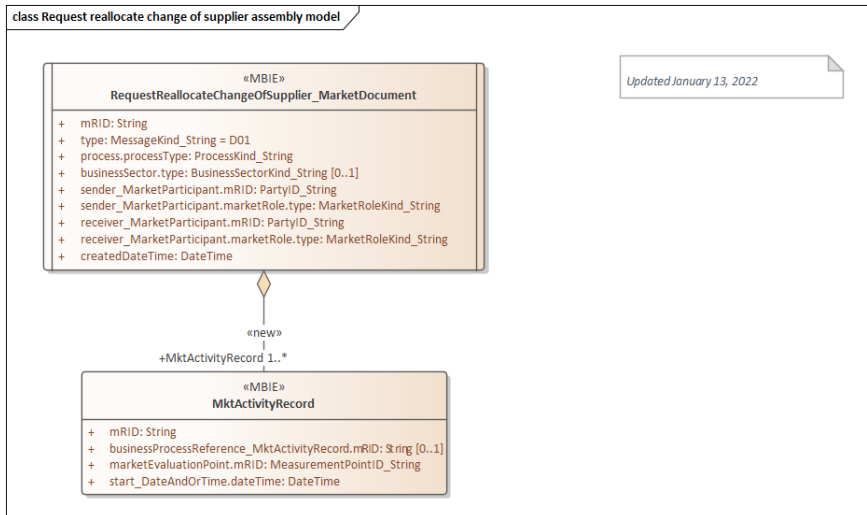


Figure 10: Class diagram: Request reallocate Change of Supplier Assembly model

6.2.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D01	Request re-allocate change of supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D33	Incorrect move

6.2.1.4 Mapping from today's Danish documents to CIM document for Request reallocate change of supplier

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36		Afsenders unikke identifikation af transaktionen Transaktion ID
	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload MP Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload MP Event / Start of Occurrence	1	MktActivityRecord / Start_ DateAndOrTime / dateTime	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ

Table 4 RSM-003: Mapping of Request reallocate change of supplier

6.2.2 CIM based RSM 003 – Confirm request reallocate change of supplier

6.2.2.1 Confirm request reallocate change of supplier Contextual model

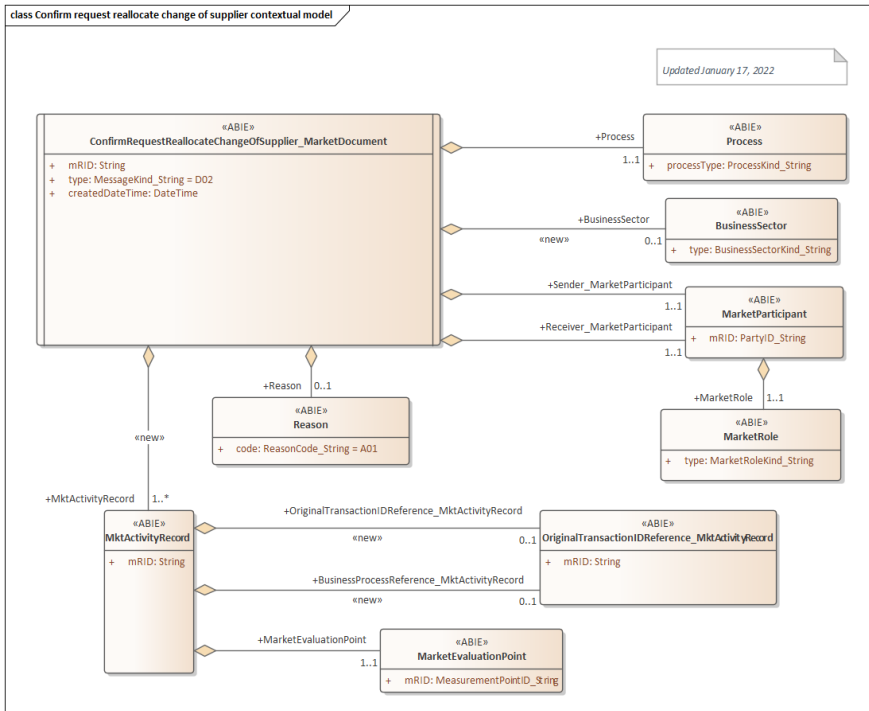


Figure 11: Class diagram: Confirm request reallocate change of supplier Contextual model

6.2.2.2 Confirm request reallocate change of supplier Assembly model

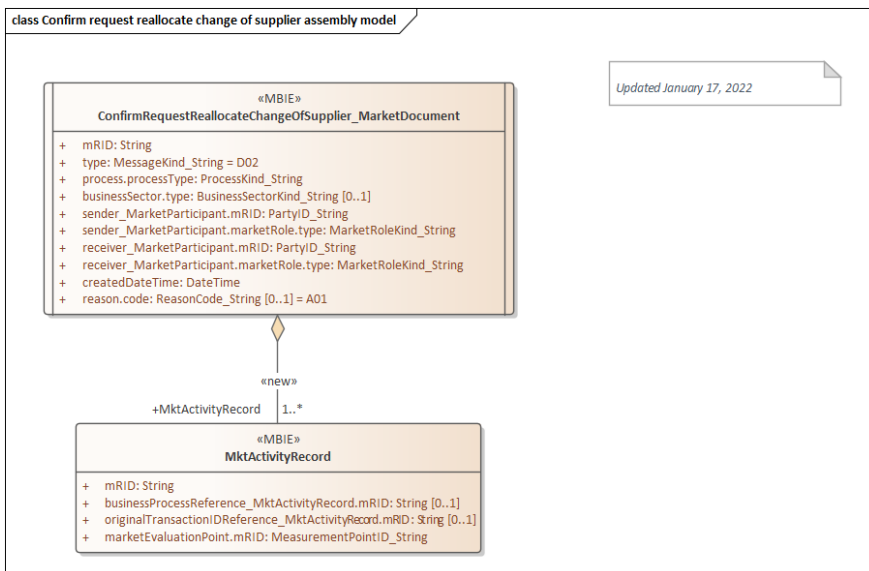


Figure 12: Class diagram: Confirm request reallocate change of supplier Assembly model

6.2.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D02	Response re-allocate change of supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D33	Incorrect move

6.2.2.4 Mapping from today's Danish documents to CIM document for Confirm request reallocate change of supplier

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 5 RSM-003: Mapping of Confirm request reallocate change of supplier

6.2.3 CIM based RSM 003 – Reject request reallocate change of supplier

6.2.3.1 Reject request reallocate change of supplier Contextual model

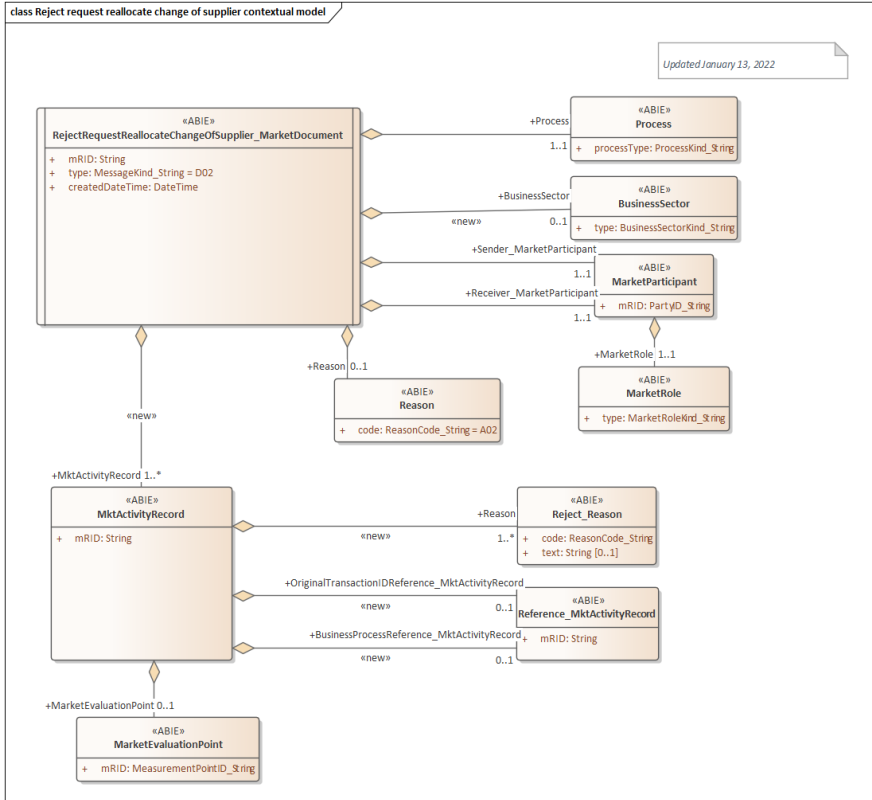


Figure 13: Class diagram: Reject request reallocate change of supplier Contextual model

6.2.3.2 Reject request reallocate change of supplier Assembly model

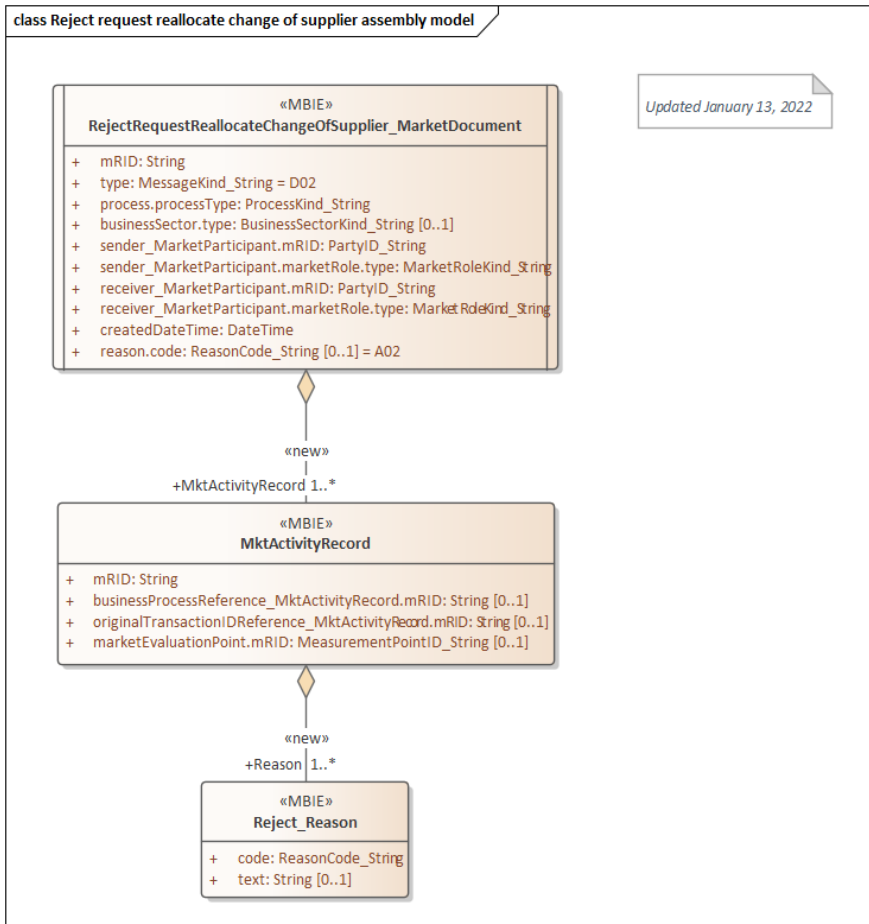


Figure 14: Class diagram: Reject request reallocate change of supplier Assembly model

6.2.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D02	Response re-allocate change of supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D33	Incorrect move

6.2.3.4 Mapping from today's Danish documents to CIM document for Reject request reallocate change of supplier

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected Mandatory
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 6 RSM-003: Mapping of Reject request Change of supplier

6.3 CIM based RSM 004 – Generic notification

The document is called Notify change of supplier in the current Danish implementation, but is used in several processes, hence renamed to “Generic notification”.

6.3.1 Generic notification Contextual model

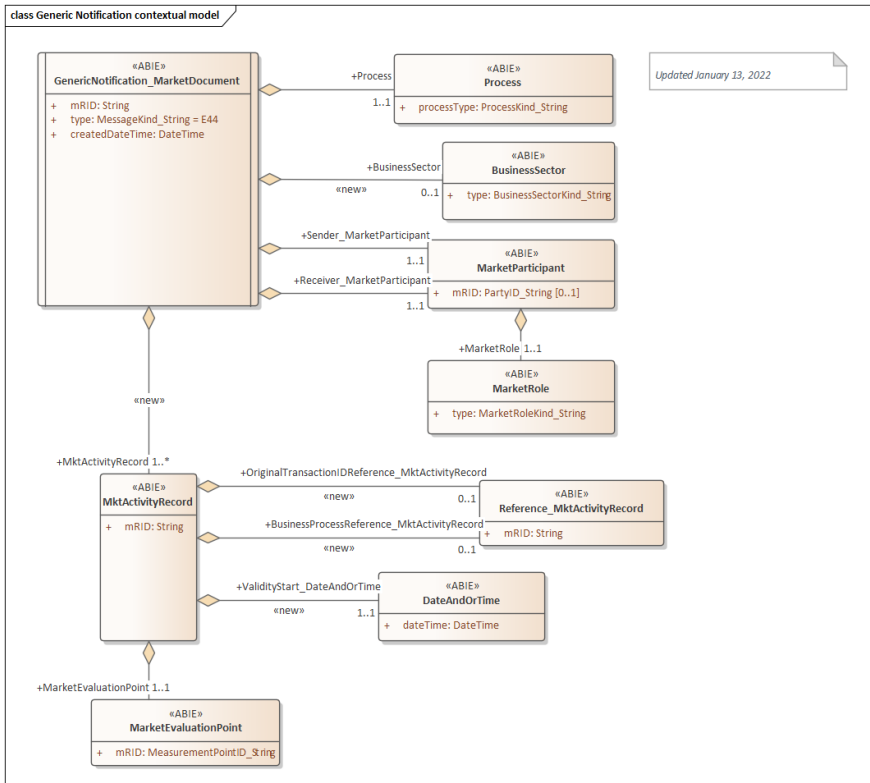


Figure 15: Class diagram: Generic notification Contextual model

6.3.2 Generic notification Assembly model

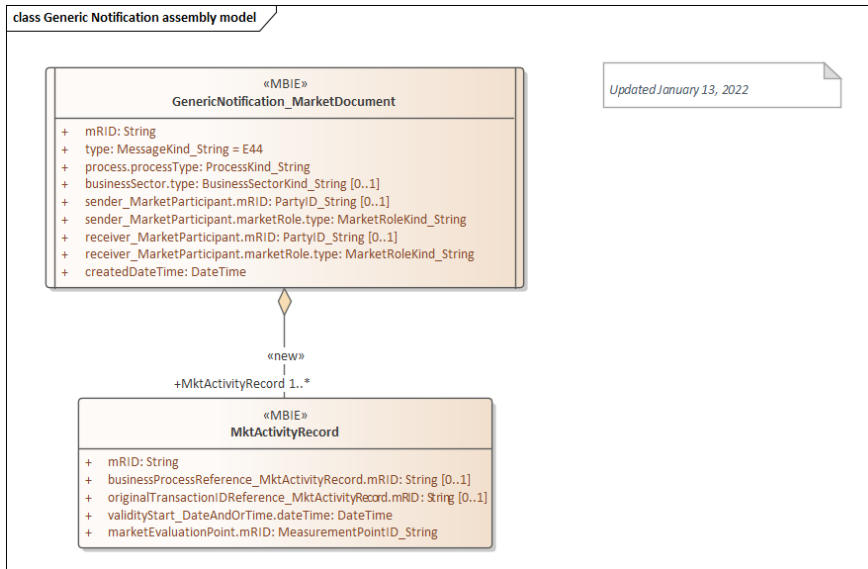


Figure 16: Class diagram: Generic notification Assembly model

6.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E44	Notification to supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDK	Balance Responsible Party
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Process / ProcessType	Alle	Se regneark

6.3.4 Mapping from today's Danish documents to CIM document for Generic notification

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
		MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload MP Event / End of occurrence	0..1	MktActivityRecord / ValidityStart_ DateAndOr-Time / dateTime	Date-time	1	Start og End kombineret til ValidityStart I DataHub 3 ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload MP Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 7 RSM-004: Mapping of Generic notification

6.4 CIM based RSM 005 – End of supply
 6.4.1 CIM based RSM 005 – Request End of supply
 6.4.1.1 Request End of supply Contextual model

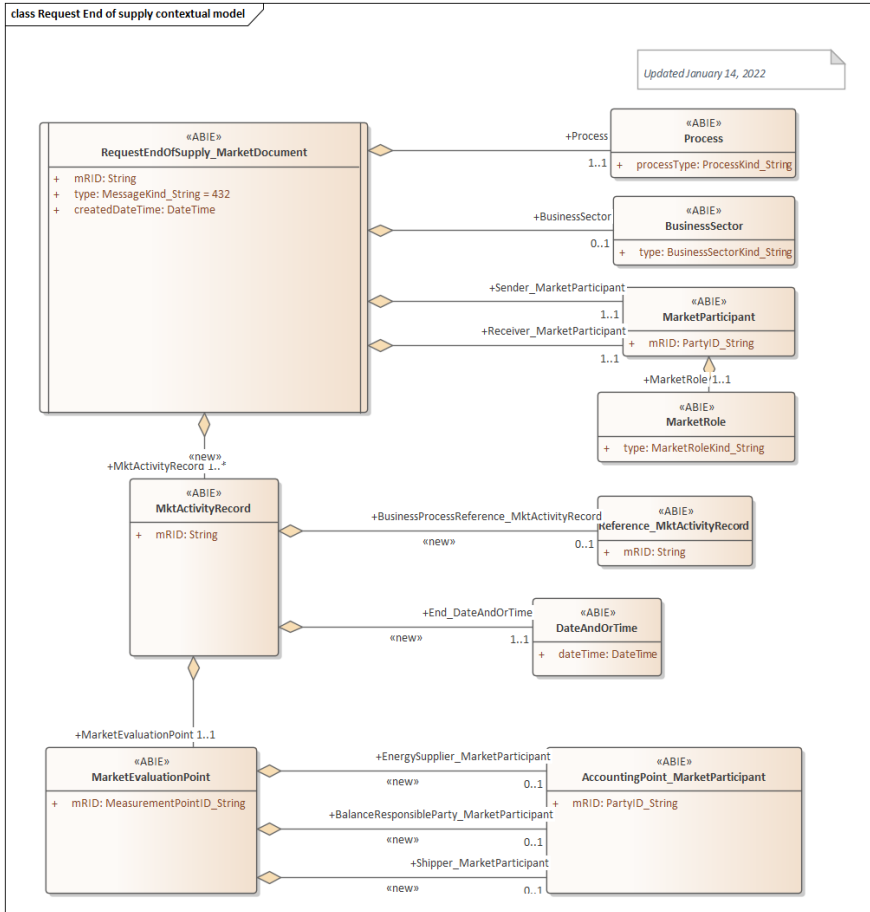


Figure 17: Class diagram: Request End of supply Contextual model

6.4.1.2 Request End of supply Assembly model

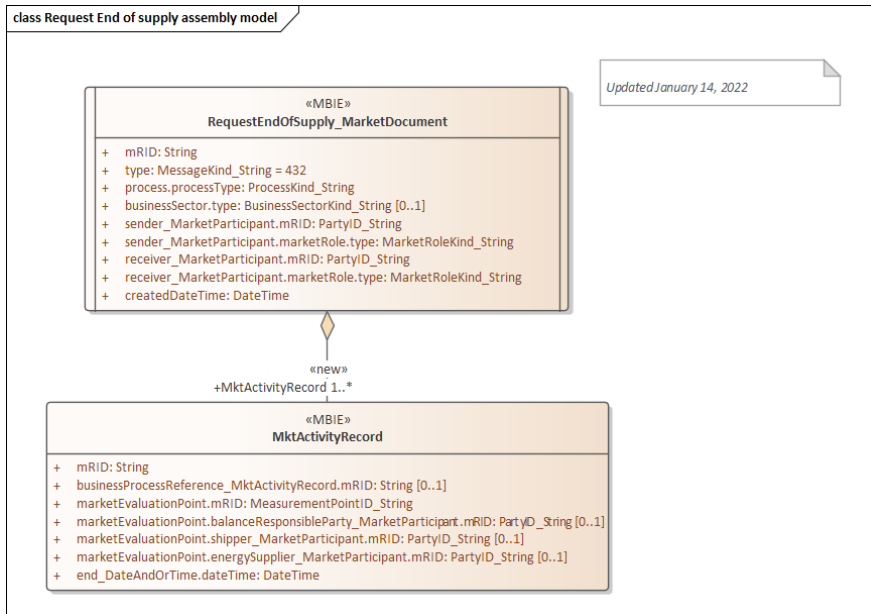


Figure 18: Class diagram: Request End of supply Assembly model

6.4.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	432	Notification to grid operator of contract termination
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E66	Customer move-out

6.4.1.4 Mapping from today's Danish documents to CIM document for Request End of supply

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload MP Event / Metering Point Domain Location /Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
		MktActivityRecord / MarketEvaluationPoint / EnergySupplier_MarketParticipant / mRID		0..1	Bruges ikke i DataHub 3.0
		MktActivityRecord / MarketEvaluationPoint / BalanceResponsibleParty_MarketParticipant / mRID		0..1	Bruges ikke i DataHub 3.0
		MktActivityRecord / MarketEvaluationPoint / Shipper_MarketParticipant / mRID		0..1	Bruges ikke i DataHub 3.0
Payload MP Event / End of Occurrence	1	MktActivityRecord / End_DateAndOrTime / dateTime	Date-time	1	ISO-8601 standard anvendes.Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ

Table 8 RSM-005: Mapping of Request End of supply

6.4.2 CIM based RSM 005 – Confirm request End of supply

6.4.2.1 Confirm request End of supply Contextual model

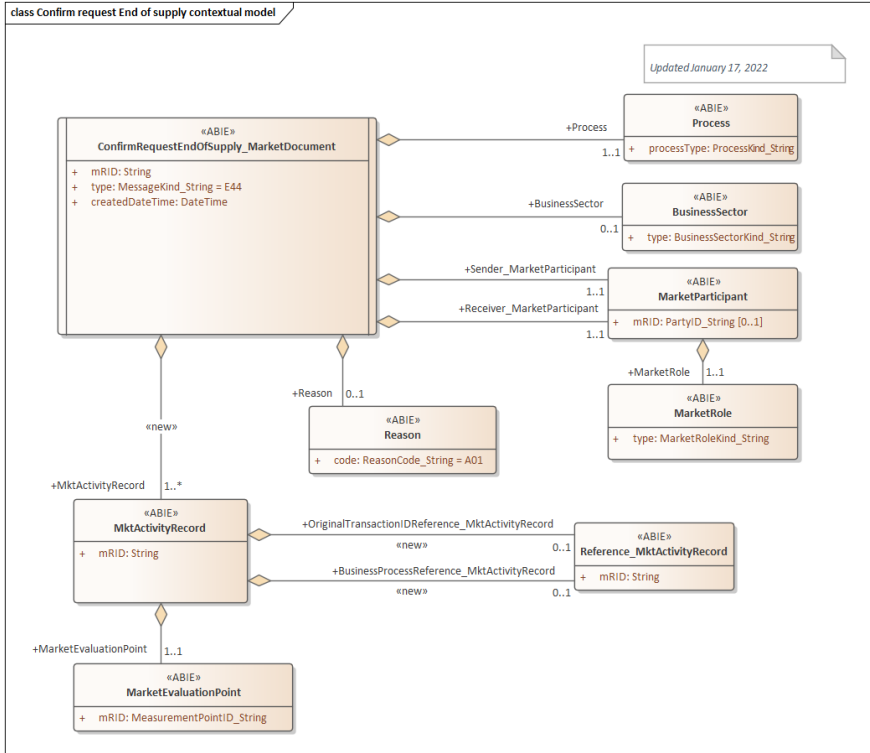


Figure 19: Class diagram: Confirm request End of supply Contextual model

6.4.2.2 Confirm request End of supply Assembly model Assembly model

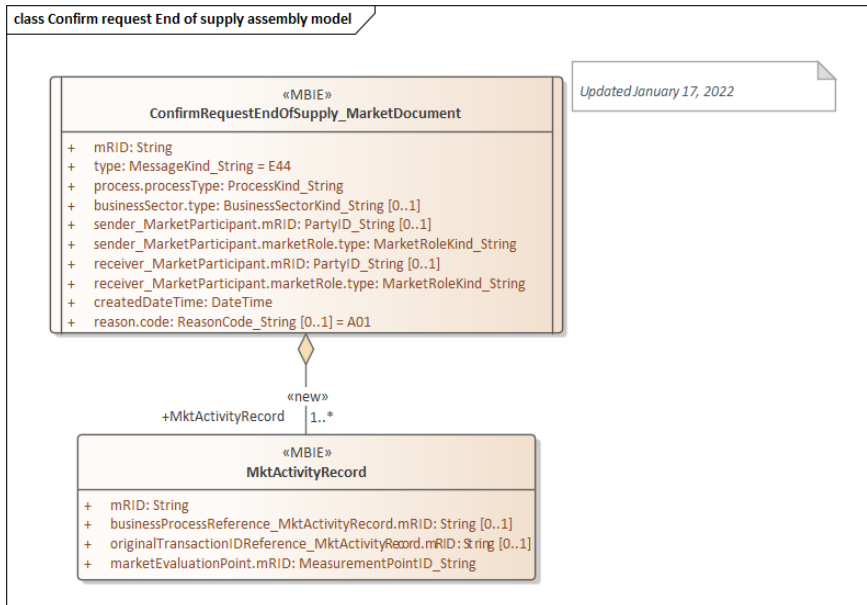


Figure 20: Class diagram: Confirm request End of supply Assembly model

6.4.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E44	Notification to supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E66	Customer move-out

6.4.2.4 Mapping from today's Danish documents to CIM document for Confirm request End of supply

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 9 RSM-05: Mapping of Confirm request End of supply

6.4.3 CIM based RSM 005 – Reject request End of supply

6.4.3.1 Reject request End of supply Contextual model

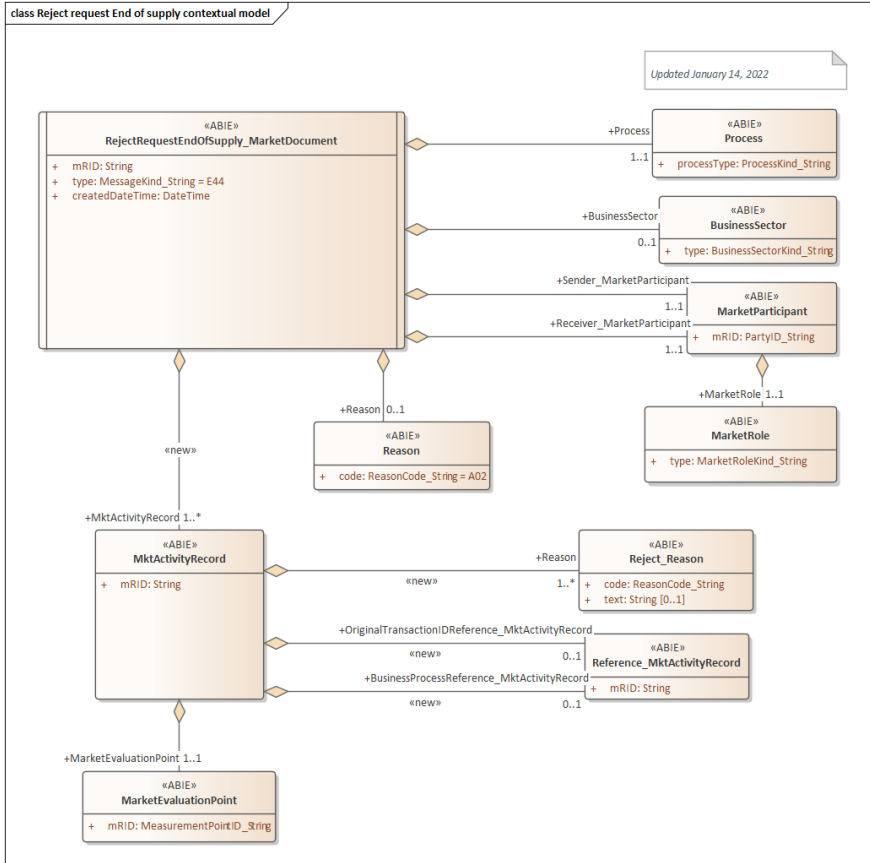


Figure 21: Class diagram: Reject request End of supply Contextual model

6.4.3.2 Reject request End of supply Assembly model Assembly model

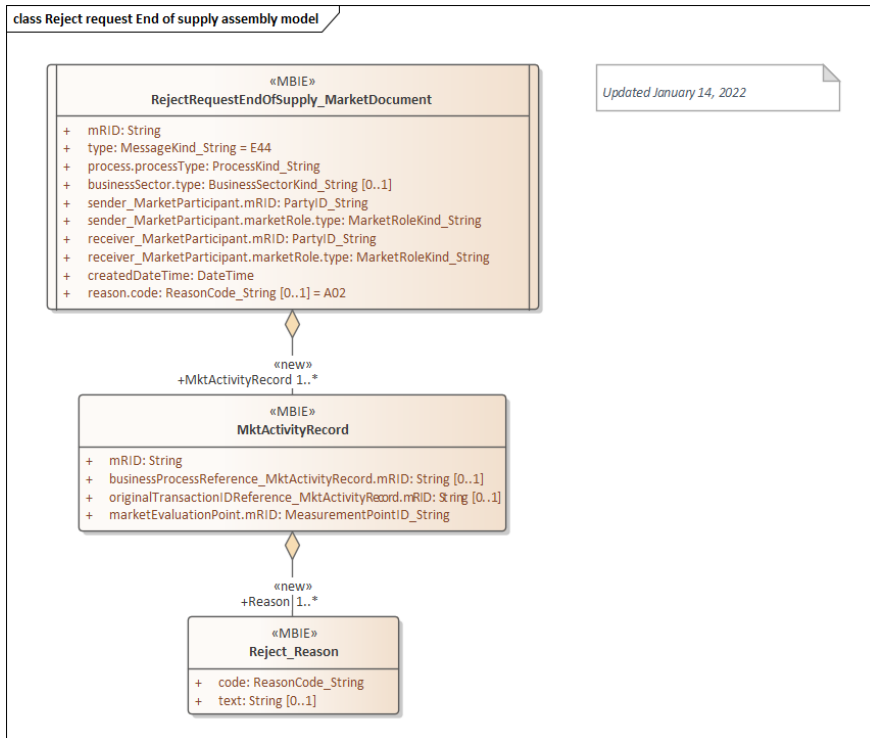


Figure 22: Class diagram: Reject request End of supply Assembly model

6.4.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E44	Notification to supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E66	Customer move-out

6.4.3.4 Mapping from today's Danish documents to CIM document for Reject request End of supply

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 10: RSM-005 Mapping of Reject request End of supply

6.5 CIM based RSM 006 – Request Accounting Point Characteristics

6.5.1 CIM based RSM 006 – Request Accounting Point Characteristics

6.5.1.1 Request Accounting Point Characteristics Contextual model

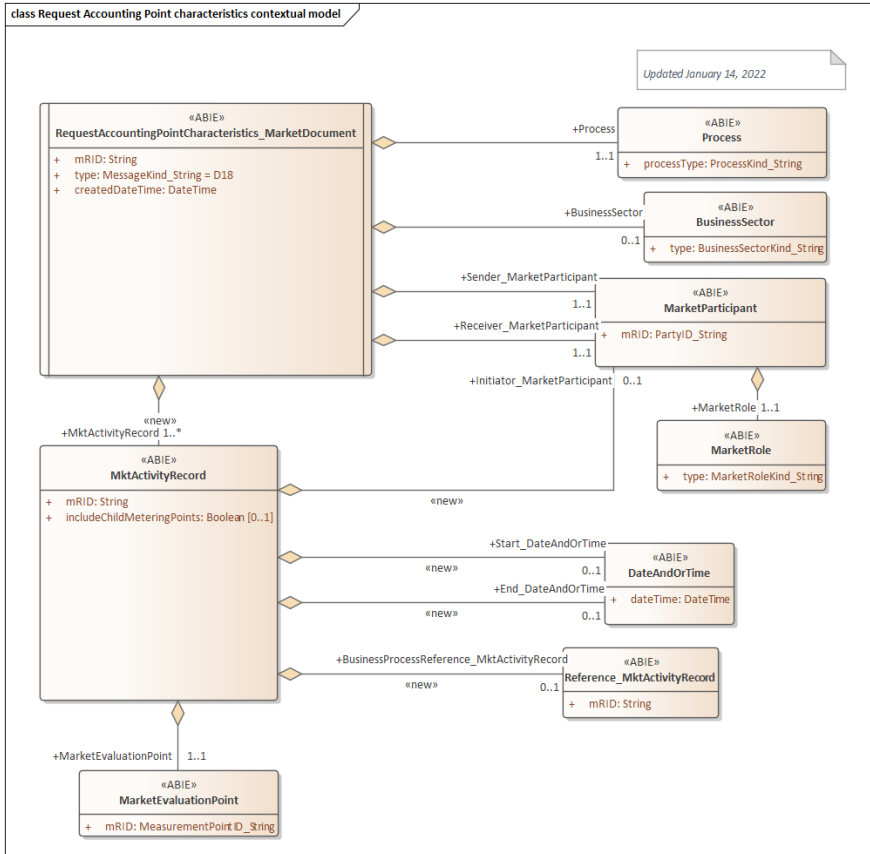


Figure 23: Class diagram: Request Accounting Point Characteristics Contextual model

6.5.1.2 Request Accounting Point Characteristics Assembly model

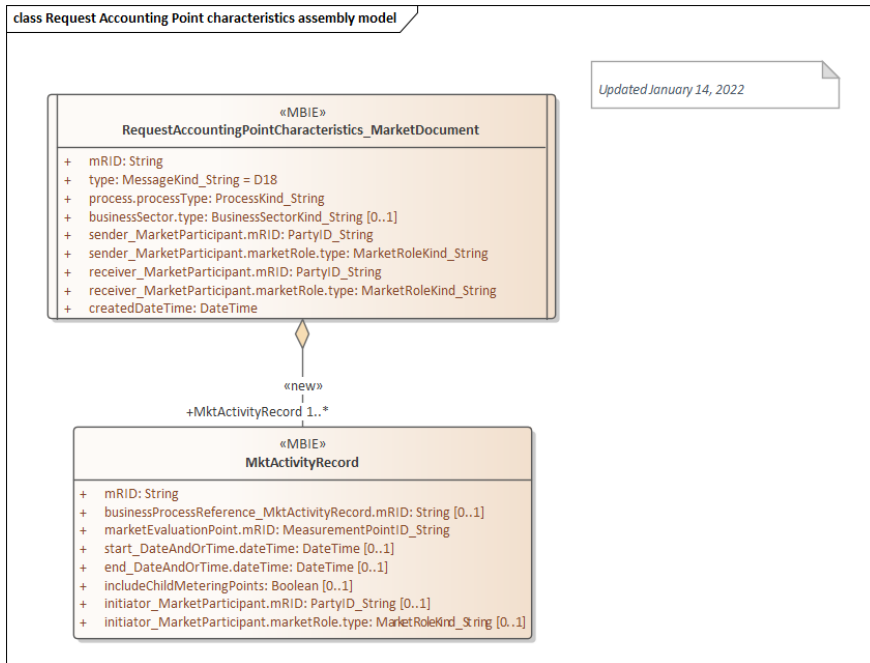


Figure 24: Class diagram: Request Accounting Point Characteristics Assembly model

6.5.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D18	Query all master data
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	EOG	Data alignment for master data metering point

6.5.1.4 Mapping from today's Danish documents to CIM document for Request Accounting Point characteristics

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Meter Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Meter Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Meter Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
		MktActivityRecord / Initiator_MarketParticipant / mRID MktActivityRecord / Initiator_MarketParticipant / MarketRole /type		0..1	Initiator ID is put in mRID attribute and the related role in the "type" attribute. The Attributes are optional. Not used I DataHub 3.0
Payload Meter Event / Search Period Time Series Period / Start	0..1	MktActivityRecord / Start_DateAndOrTime / date-Time	Datetime	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0.
Payload Meter Event / Search Period Time Series Period / End	0..1	MktActivityRecord / End_DateAndOrTime / date-Time	Datetime	0..1	Format: YYYY-MM-DDThh:mm:ssZ Hvis datoer er udeladt, så gives stamdata pr. dags dato. Hvis start angives uden slut, så øjebliksbillede af stamdata på en bestemt dag

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Meter Event / Include Child Metering Points	0..1	MktActivityRecord / includeChildMeteringPoints	Boolean	0..1	Hvis udfyldt medsendes evt. stamdata på childmålepunkter

Table 11 RSM-006: Mapping of Request Accounting Point characteristics

6.5.2 CIM based RSM 006 – Reject request Accounting Point Characteristics

6.5.2.1 Reject request Accounting Point Characteristics Contextual model

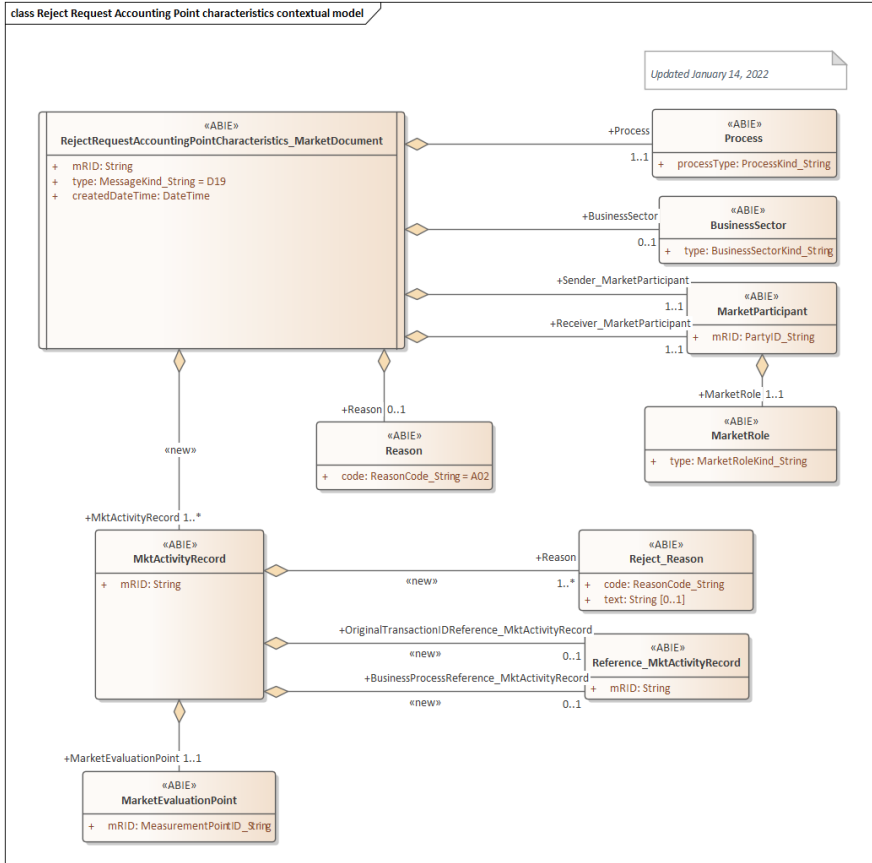


Figure 25: Class diagram: Reject request Accounting Point Characteristics Contextual model

6.5.2.2 Reject request Accounting Point Characteristics Assembly model

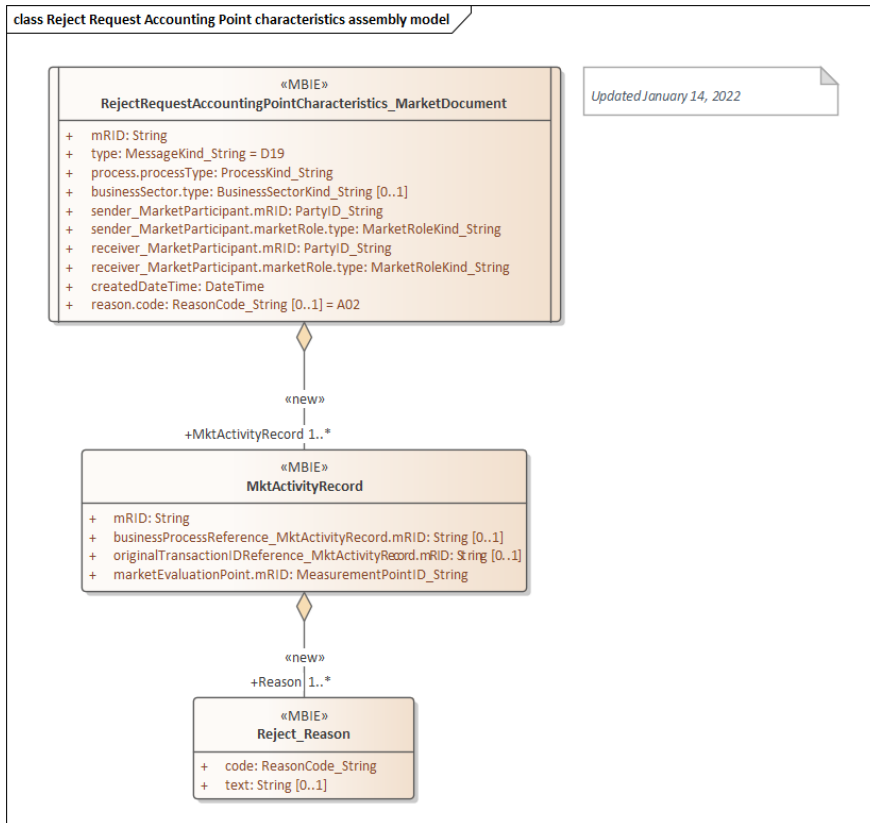


Figure 26: Class diagram: Reject request Accounting Point Characteristics Assembly model

6.5.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D19	Reject all master data
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Process / ProcessType	EOG	Data alignment for master data metering point

6.5.2.4 Mapping from today's Danish documents to CIM document for Reject request Accounting Point Characteristics

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 12: RSM-005 Mapping of Reject request Accounting Point Characteristics

6.6 CIM based RSM 009 – Acknowledgement

6.6.1 Acknowledgement Contextual model

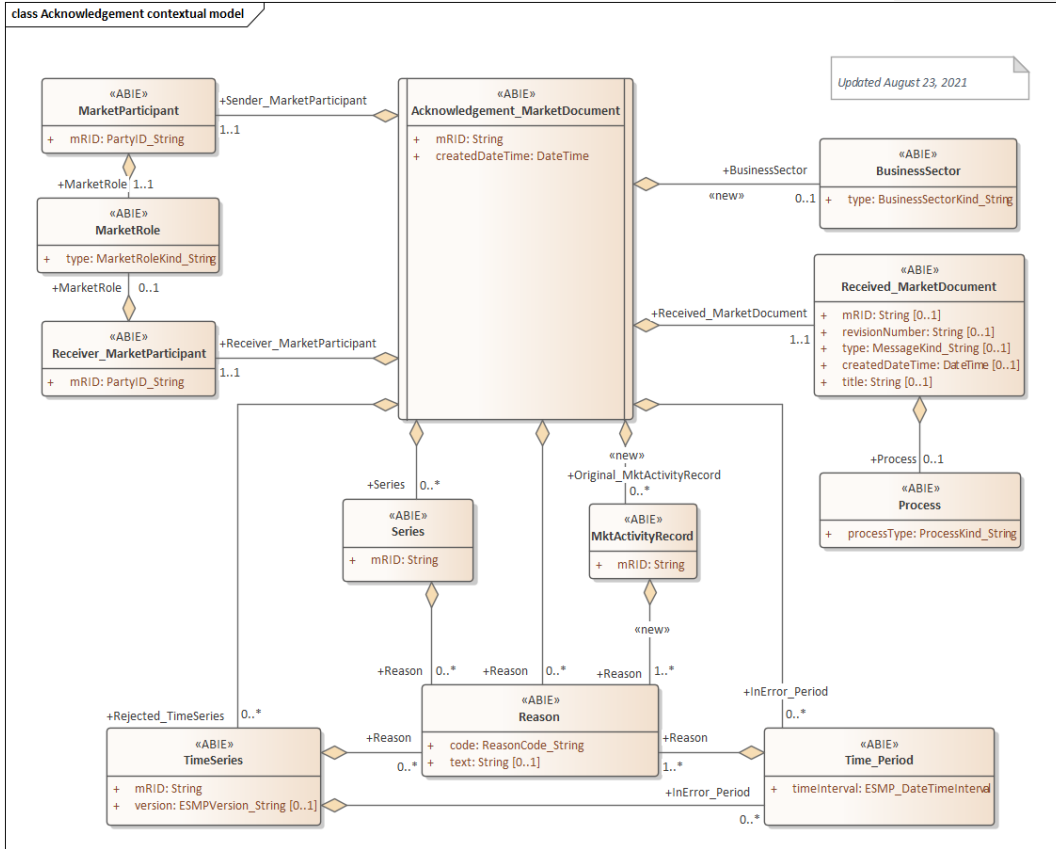


Figure 27: Class diagram Acknowledgement Contextual model

6.6.2 Acknowledgement Assembly model

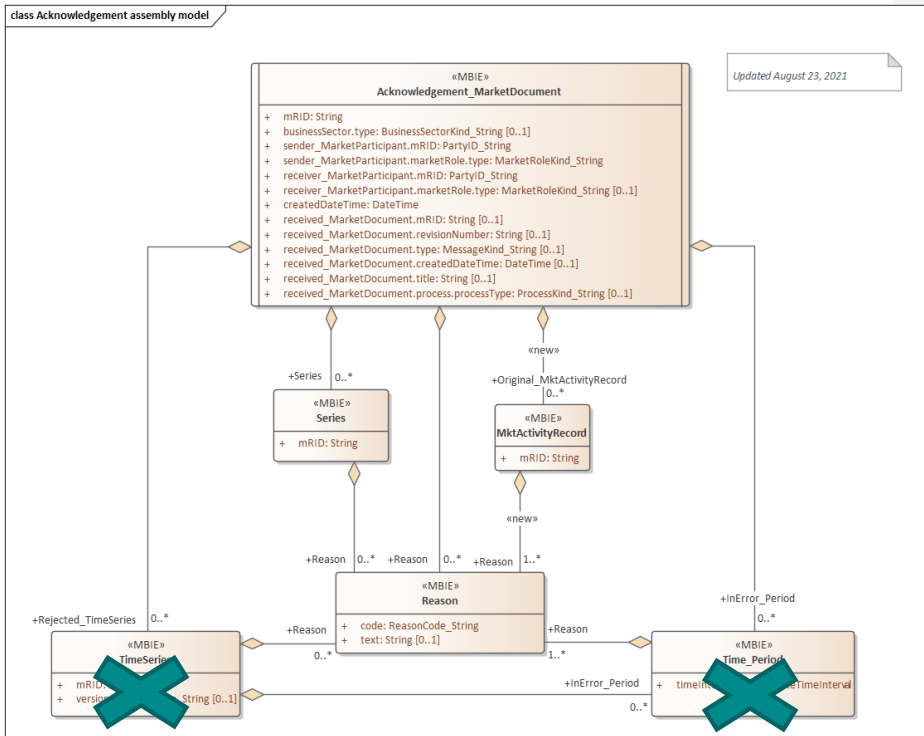


Figure 28: Class diagram: Acknowledgement Assembly model

The TimeSeries class is added to make the ESDMP acknowledgement document compatible with the ESMP (ENTSO-E) version. The Series class and MktActivityRecord classes are added for the downstream energy market (ESDMP). The Series class is used for measure documents (time series), while the MktActivityRecord class is used for structure documents.

6.6.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	294	Application acknowledgement and error report
MarketDocument / Sender_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDK	Balance responsible party
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDK	Balance responsible party
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier

6.6.4 Mapping from today's Danish documents to CIM document for Acknowledgement

Danish attribute	Card.	CIM attribute	Længde	CIM Card.	Remark
Header Energy Document / Identification	1	MarketDocument / mRID	An..36	1	Afsenders unikke identifikation af meddelelsen
Header Energy Document / Process Energy Context / Energy Industry Classification	1	MarketDocument / BusinessSector / type	An..2	0..1	23 Electricity Supply Industry 27 Gas Supply Industry
Header Energy Document / Sender Energy Party / Identification	1	MarketDocument / Sender_MarketParticipant / mRID	An..16	1	Entydig identifikation af afsender af meddelelsen. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.
Header Energy Document / Sender Energy Party / Sender Role	1	MarketDocument / Sender_MarketParticipant / MarketRole / type	An..3	1	For DataHub uses either DDZ for masterdata or DGL for measurement
Header Energy Document / Receiver Energy Party / Identification	1	MarketDocument / Receiver_MarketParticipant / mRID	An..16	1	Entydig identifikation af modtager af meddelelsen. Aktøren er identificeret af et GLN-nummer eller en EIC-kode CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.

Danish attribute	Card.	CIM attribute	Længde	CIM Card.	Remark
Header Energy Document / Receiver Energy Party / Receiver Role	1	MarketDocument / Receiver_MarketParticipant / MarketRole / type	An..3	1	Den rolle som modtager anvender i forbindelse med udveksling af meddelelsen
Header Energy Document / Creation	1	MarketDocument / createdDateTime	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Process Energy Context / Original business document / identification		Acknowledgement_MarketDocument / Received_MarketDocument / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
		Acknowledgement_MarketDocument / Received_MarketDocument / revisionNumber		0..1	Bruges ikke i DataHub 3.0.
		Acknowledgement_MarketDocument / Received_MarketDocument / type		0..1	Bruges ikke i DataHub 3.0.
		Acknowledgement_MarketDocument / Received_MarketDocument / createdDateTime		0..1	Bruges ikke i DataHub 3.0.
		Acknowledgement_MarketDocument / Received_MarketDocument / title		0..1	Bruges ikke i DataHub 3.0.

Danish attribute	Card.	CIM attribute	Længde	CIM Card.	Remark
Process Energy Context / Energy Business Process	1	Acknowledgement_MarketDocument / Received_MarketDocument / Process / ProcessType	An..3	0..1	BusinesReasonCode fra den oprindelige besked
Payload Response Event / Status Type	1	Acknowledgement_MarketDocument / Reason / code	An..3	0..*	ESMP: A01 Message fully accepted A02 Message fully rejected
Payload Response Event / Reason Text	0..1	Acknowledgement_MarketDocument / Reason / text	STRING	0..*	
Payload Response Event / Original Business Document	1	Acknowledgement_MarketDocument / Original_MktActivityRecord / mRID	An..36	0..*	Bruges kun i acknowledgement forbindelse med transaktioner fra masterdata køen
	1	Acknowledgement_MarketDocument / Original_MktActivityRecord / Reason / code	An..3	0..*	
	0..1	Acknowledgement_MarketDocument / Original_MktActivityRecord / Reason / text	An..3	0..*	
Payload Response Event / Original Business Document	1	Acknowledgement_MarketDocument / Series / mRID		0..*	Bruges kun i acknowledgement forbindelse med transaktioner fra tidsserien køen

Danish attribute	Card.	CIM attribute	Længde	CIM Card.	Remark
	1	Acknowledgement_MarketDocument / Series / Reason / code		0..*	
	0..1	Acknowledgement_MarketDocument / Series / Reason / text		0..*	

Table 13 RSM-009: Mapping of Acknowledgement

6.7 CIM based RSM 012 – Notify Validated measure data

6.7.1 Notify Validated measure data contextual model

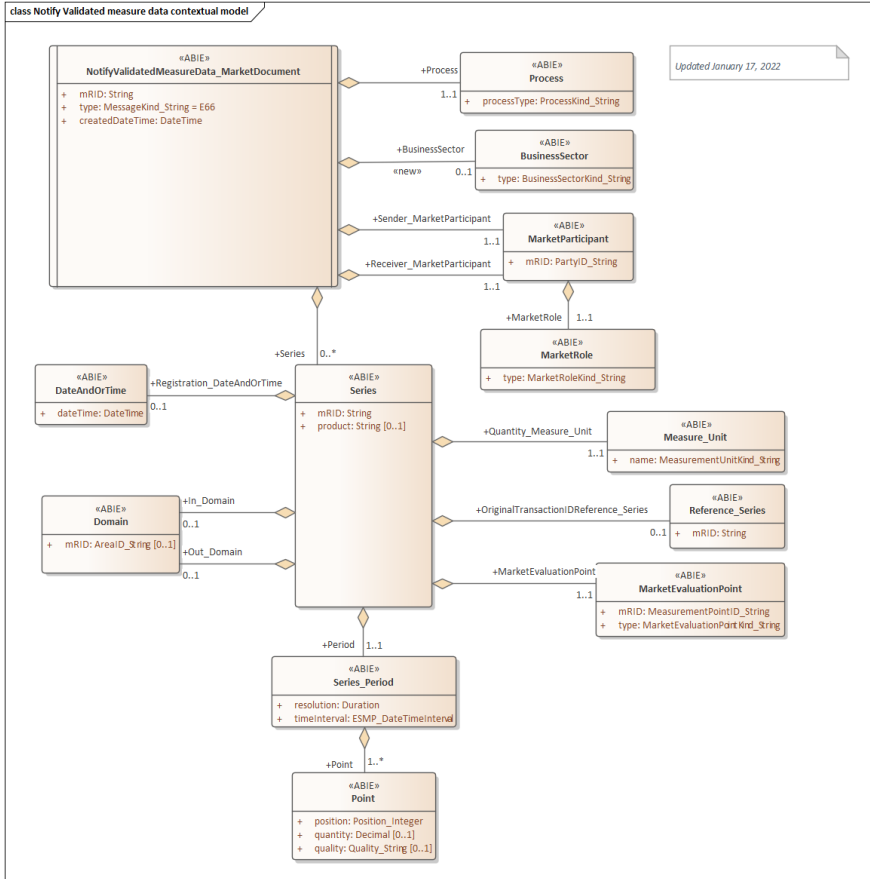


Figure 29: Class diagram: CIM based RSM 012 – Notify Validated measure data contextual model

6.7.2 Notify Validated measure data assembly model

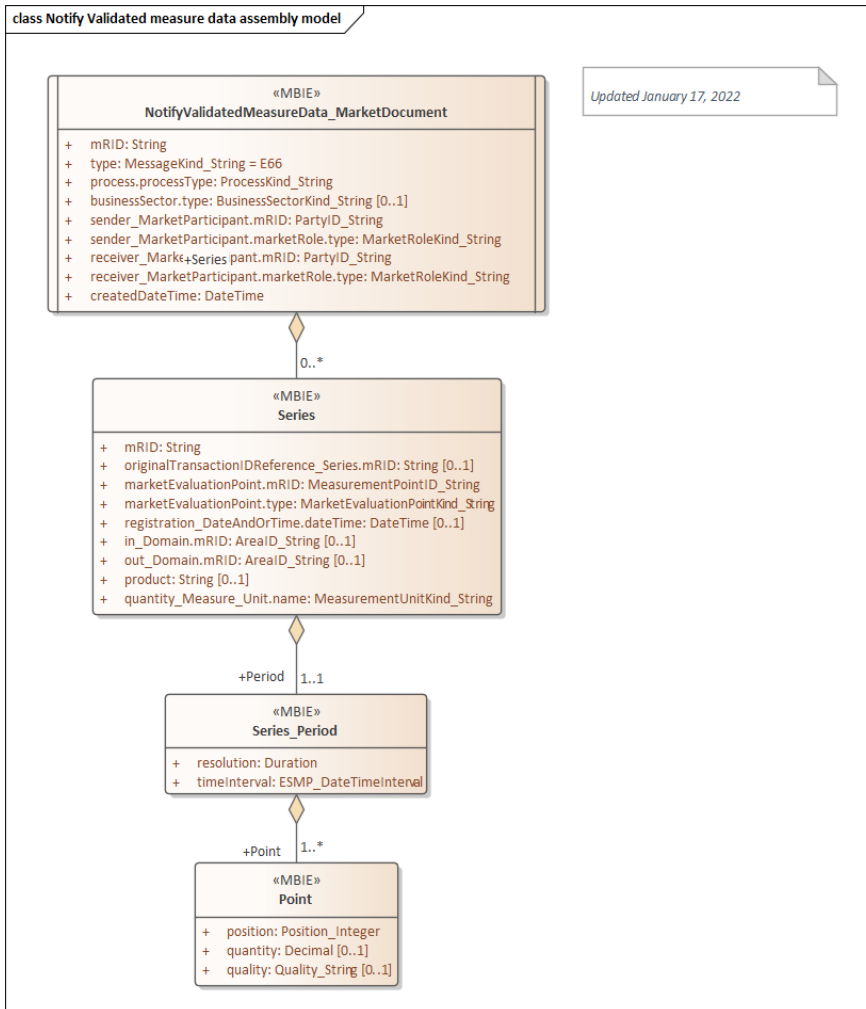


Figure 30: Class diagram: CIM based RSM 012 – Notify Validated measure data assembly model

6.7.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E66	Validated metered data, time series
MarketDocument / Sender_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	STS	Danish Energy Agency
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument /Process / ProcessType	E23	Periodisk forbrugsopgørelse
MarketDocument /Process / ProcessType	E30	Historiske data

6.7.5 Mapping from today's Danish documents to CIM document Notify Validated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Energy Time Series / Original Business Document	0..1	Series / OriginalTransactionReference_Series / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse. Kun anvendt i forbindelse med Request validated measure data
Payload Energy Time Series / Metering Point Domain Location / Identification	1	Series / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
		Series / In_Domain / mRID		0..1	Bruges ikke i DataHub 3.0
		Series / Out_Domain / mRID		0..1	Bruges ikke i DataHub 3.0
Payload Energy Time Series / Metering Point Domain Location / Registration	0..1	Series / Registration_DateAndOrTime / date-Time	Date-time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Type of Metering Point	0..1	Series / MarketEvaluationPoint / type	An..3 kode	0..1	Målepunktets type fx produktion, forbrug
Payload Energy Time Series / Included Product Characteristics / Identification	1	Series / Product	An..13 Kode	0..1	Produktidentifikation Produktet kan f.eks. være energi eller effekt. GLN-nummer benyttes til angivelse af produkt.
Payload Energy Time Series / Included Product Characteristics / Unit Type	0..1	Series / Quantity_Measure_Unit / name	An..3 kode	1	Angiver enhed
Payload Energy Time Series / Observation Time Series Period / Resolution Duration	1	Series / Period / resolution	String	1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Format: PnYnMnDTnHnMnS, hvor nY udtrykker antallet af år og så videre til nM et antal af minutter og nS et antal sekunder Resolution PT1H udtrykker således en opløsning på 1 time

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Observation Time Series Period / Start	1	Series / Period / timeInterval : start	Date-time	1	Timeinterval er af typen ESMP_ DateTime-Interval, som har to attributter: Start og End
Payload Energy Time Series / Observation Time Series Period /End	1	Series / Period / timeInterval : end	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mmZ
Payload Energy Time Series / Interval Energy Observation / Position	1	Series / Period / Point / position	An..10	1	Den relative position for en periode i et interval. Positionen er angivet ved et numerisk heltal startende med 1
Payload Energy Time Series / Interval Energy Observation / Energy Quantity	0..1	Series / Period / Point / quantity	An..18	0..1	Mængden opgives i den enhed der er angivet i Measure_Unit / name med op til antal tilladte decimaler. If quantity is missing the Quantity element shall not be used and the Quantity Quality shall be used (A02).
Payload Energy Time Series / Interval Energy Observation / Quantity Missing	0..1	Series / Period / Point / quality	An..3 kode	0..1	

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Interval Energy Observation / Quantity Quality	0..1				A01: Adjusted - Korrigeret A02: Not available - Manglende værdi A03: Estimated - Estimeret A06: Calculated – Beregnet Attribut Quantity Missing anvendes ikke Data-Hub 3.0. If Measured Quality not included in message

Table 14 CIM based RSM 012 – Notify Validated measure data

6.8 CIM based RSM-014 - Notify Aggregated measure data

6.8.1 Notify Aggregated measure data Contextual model

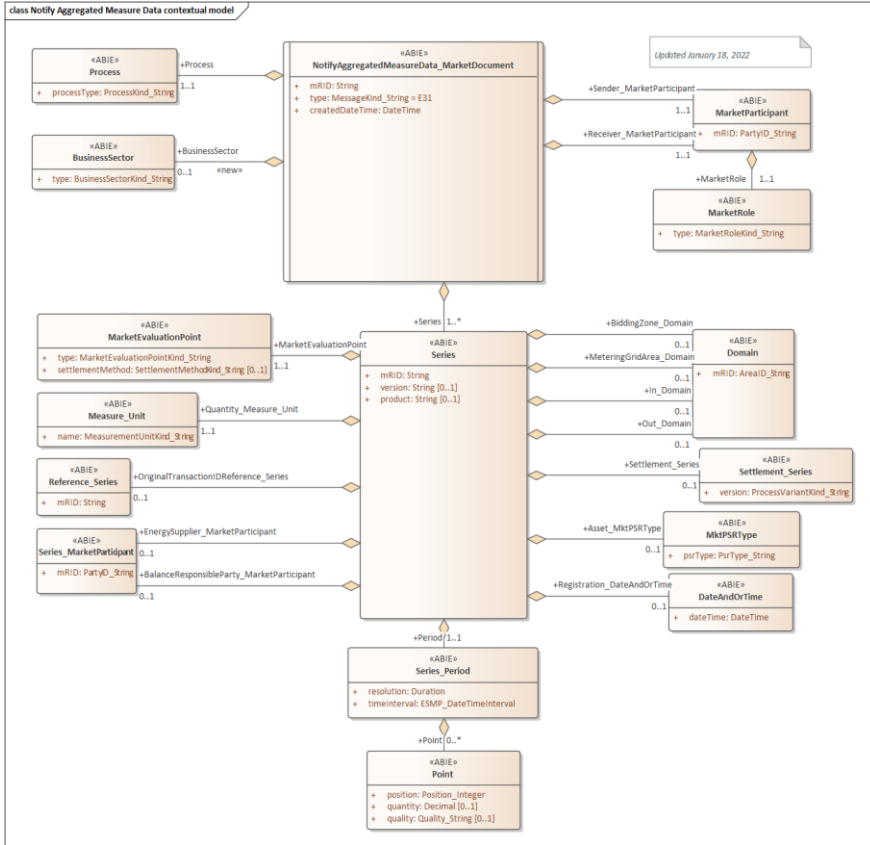


Figure 31: Class diagram: Notify Aggregated Time Series contextual model

6.8.2 Notify Aggregated measure data Assembly mode

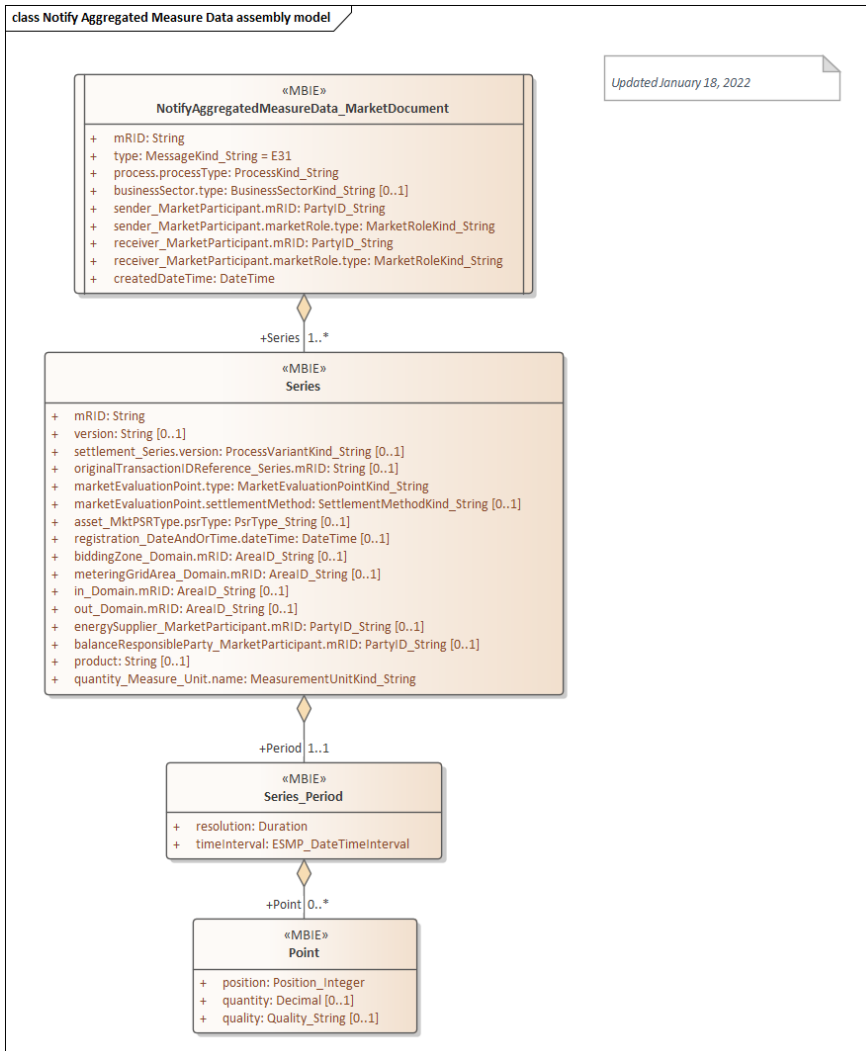


Figure 32: Class diagram: Notify Aggregated Time Series assembly model

6.8.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E31	Aggregate metered data from the Metered Data Aggregator, local
MarketDocument / Sender_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDK	Balance Responsible Party
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDX	Imbalance settlement responsible
MarketDocument / Process / ProcessType	D03	Temporary
MarketDocument / Process / ProcessType	D04	1st settlement
MarketDocument / Process / ProcessType	D05	2nd settlement
MarketDocument / Process / ProcessType	D09	Latest available value
MarketDocument / Process / ProcessType	D32	Correction settlement

6.8.4 Mapping from today's Danish documents to CIM based Notify Aggregated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Identification		Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Energy Time Series / Version		Series / version	An..3 kode	0..1	Et fortløbende nummer som øges ved nye beregninger med samme årsagskode
Payload Energy Time Series / Process kind	0..1	Series / Settlement_Series / version	An..3 kode	0..1	Der angives, hvilken refiksering / korrektionsafregning variant, der udveksles.
Payload Energy Time Series / Original Business Document		Series / OriginalTransactionReference_Series / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse. Kun anvendt i forbindelse med Request aggregated measure data
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Type of Metering Point	1	Series / MarketEvaluationPoint / type	An..3 kode	1	Målepunktstype fx produktion, forbrug, hvor aggregeringen sker
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Settlement Method	0..1	Series / MarketEvaluationPoint / settlement-Method	An..3 kode	0..1	Afregningsform

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Asset Type	0..1	Series / Asset_MktPSRType / psrType	An..3 kode	0..1	Bruges ikke i DataHub 3.0
		Series / Registration_DateAndOrTime / date-Time		0..1	Bruges ikke i DataHub 3.0
Payload Energy Time Series / Market Balance Area Used Domain Location / Identification		Series / BiddingZone_Domain / mRID	An..3	0..1	Note: Market Balance Area bliver udskiftet med Bidding Zone Bruges ikke i DataHub 3.0
Payload Energy Time Series / Metering Grid Area Used Domain Location / Identification		Series / MeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
		Series / In_Domain / mRID		0..1	Bruges ikke i DataHub 3.0
		Series / Out_Domain / mRID		0..1	Bruges ikke i DataHub 3.0

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Balance Supplier Energy Party / Identification		Series / EnergySupplier_ MarketParticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.
Payload Energy Time Series / Balance Responsible Energy Party / Identification		Series / BalanceResponsibleParty_ MarketParticipant / mRID	An..16	1	Entydig identifikation af modtager af meddelelsen. Aktøren er identificeret af et GLN-nummer eller en EIC-kode CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode.
Payload Energy Time Series / Included Product Characteristics / Identification		Series / product	An..13 kode	0..1	Produktidentifikation Produktet kan f.eks. være energi eller effekt. GLN-nummer benyttes til angivelse af produkt
Payload Energy Time Series / Included Product Characteristics / Unit Type		Series / Quantity_ Measure_ Unit / name	An..3 kode	0..1	Angiver enheden.

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Observation Time Series Period / Resolution Duration		Series / Period / resolution	String	1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time. For Resolution anvendes for øjeblikket kun PT1H.
Payload Energy Time Series / Observation Time Series Period / Start		Series / Period / timeInterval : start	Date-time	1	Timeinterval er af typen ESMP_ DateTime-Interval, som har to attributter: Start og End
Payload Energy Time Series / Observation Time Series Period / End		Series / Period / timeInterval : end	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skærringsdato) for proces. Format: YYYY-MM-DDThh:mmZ
Payload Energy Time Series / Interval Energy Observation / Position		Series / Period / Point / position	An..10	1	Den relative position for en periode i et interval. Positionen er angivet ved et numerisk heltal startende med 1
Payload Energy Time Series / Interval Energy Observation / Energy Quantity	0..1	Series / Period / Point / quantity	Decimal	0..1	Mængden opgives i den enhed der er angivet i unit med op til antal tilladte decimaler

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Interval Energy Observation / Quantity Missing	0..1	Series / Period / Point / quality	An..3 kode	0..1	A01: Adjusted - Korrigeret A02: Not available - Manglende værdi A03: Estimated - Estimeret A05 Incomplete A06: Calculated – Beregnet If Measured Quality not included in message
Payload Energy Time Series / Interval Energy Observation /Quantity Quality				0..1	

Table 15 Mapping of RSM-014: Notify Aggregated Time Series

6.9 CIM based RSM 015 – Request validated measure data

6.9.1 CIM based RSM 015 – Request validated measure data

6.9.1.1 Request validated measure data Contextual model

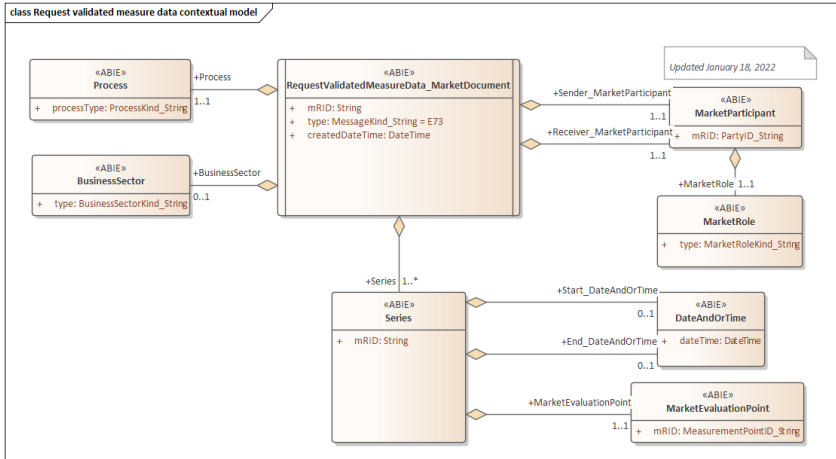


Figure 33: Class diagram: Request validated measure data Contextual model

6.9.1.2 Request validated measure data Assembly model

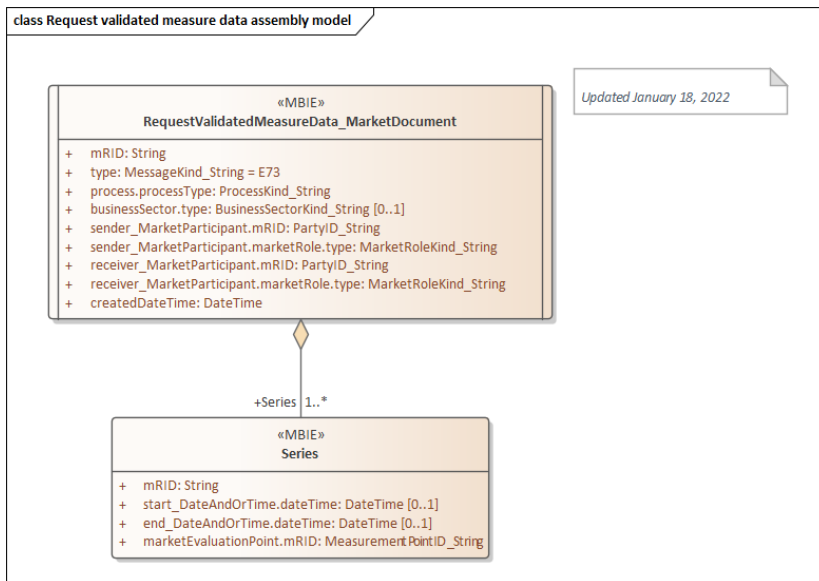


Figure 34: Class diagram: Request validated measure data Assembly model

6.9.1.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E73	Request for validated metered data
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Sender_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Sender_MarketParticipant / MarketRole / type	STS	Danish Energy Agency
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	E23	Periodic metering
MarketDocument / Process / ProcessType	E30	Historical data

6.9.1.5 Mapping from today's Danish documents to CIM document for Request validated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Measured Data Request / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Measured Data Request / Observation Time Series Period / Start	1	Series / Start_DateAndOrTime / dateTime	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Measured Data Request / Observation Time Series Period / End	1	Series / End_DateAndOrTime / dateTime	Date-time	0..1	
Payload Measured Data Request / Metering Point Domain Location / Identification	1	Series / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 16 RSM-018: Mapping of Request validated measure data

6.9.2 CIM based RSM 015 – Reject Request validated measure data

6.9.2.1 Reject Request validated measure data Contextual model

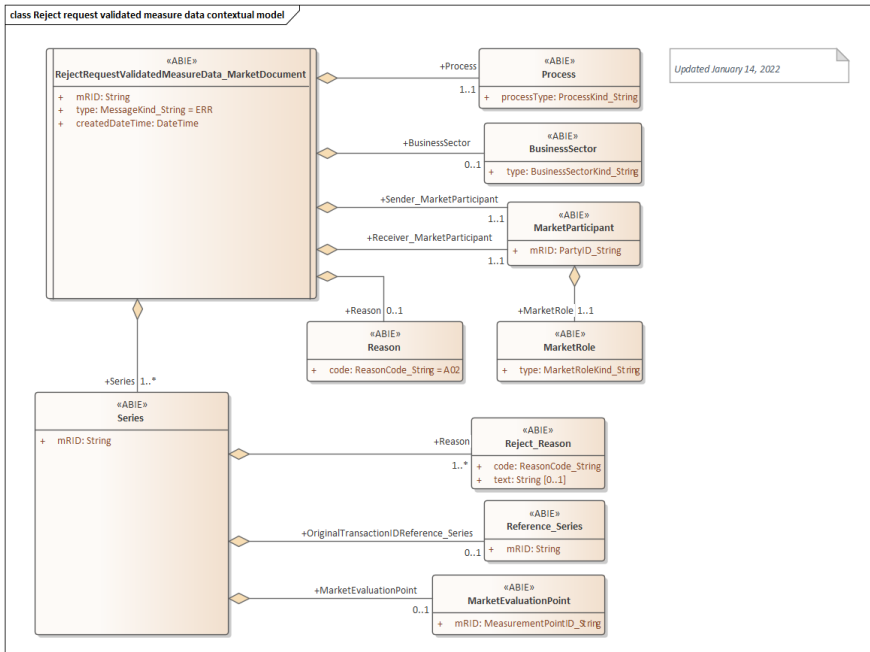


Figure 35: Class diagram: Reject Request validated measure data Contextual model

6.9.2.2 Reject Request validated measure data Assembly model

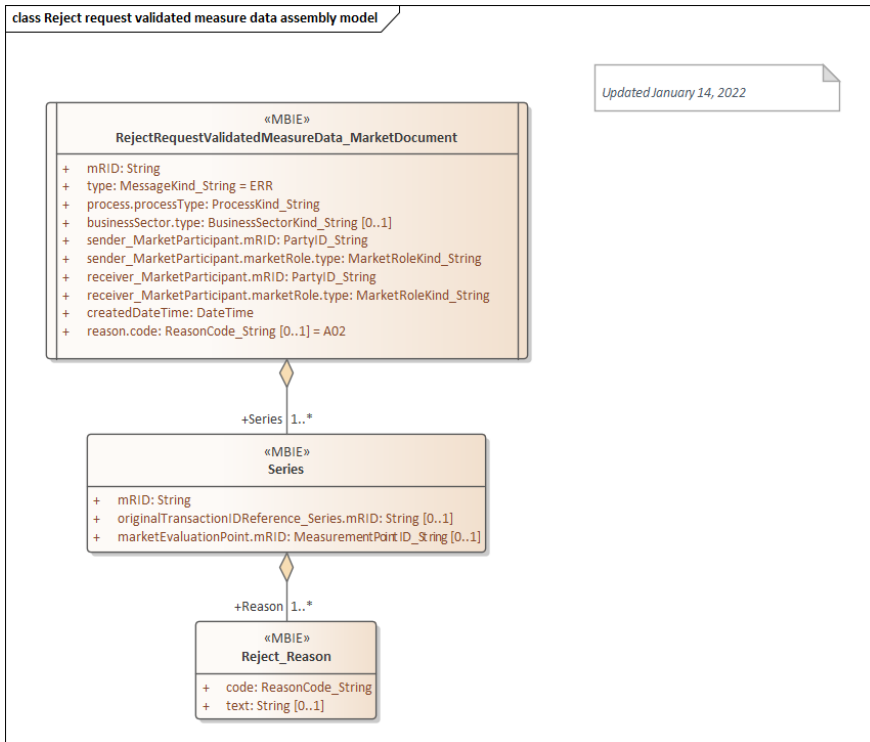


Figure 36: Class diagram: Reject Request validated measure data Assembly model

6.9.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	ERR	Processability Error Report
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	STS	Danish Energy Agency
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Process / ProcessType	E23	Periodic metering
MarketDocument / Process / ProcessType	E30	Historical data

6.9.2.4 Mapping from today's Danish documents to CIM document for Reject Request validated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 17 RSM-015: Mapping of Reject Request aggregated measure data

6.10 CIM based RSM 016 – Request aggregated measure data

6.10.1 CIM based RSM 016 – Request aggregated measure data

6.10.1.1 Request aggregated measure data Contextual model

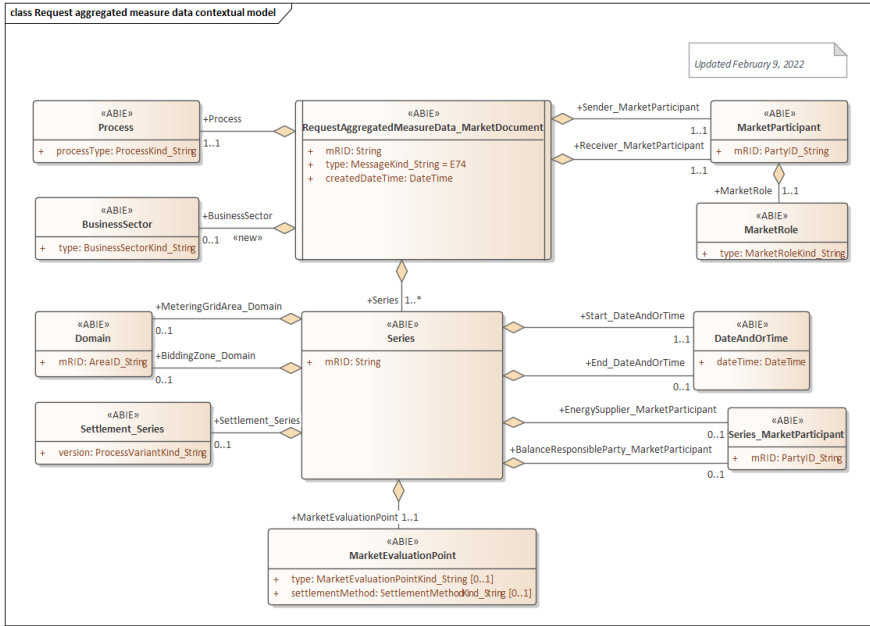


Figure 37: Class diagram: Request aggregated measure data Contextual model

6.10.1.2 Request aggregated measure data Assembly model

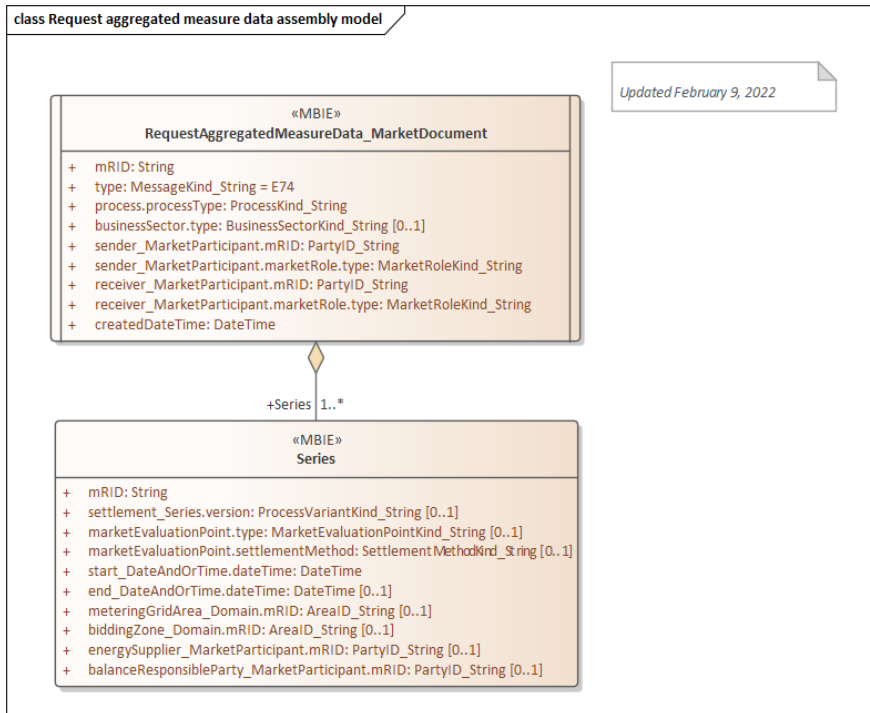


Figure 38: Class diagram: Request aggregated measure data Assembly model

6.10.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E74	Request aggregated metered data
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDK	Balance responsible party
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDX	Imbalance settlement responsible
MarketDocument / Sender_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument /Process / ProcessType	D03	Temporary
MarketDocument /Process / ProcessType	D04	1st settlement
MarketDocument /Process / ProcessType	D05	2nd settlement
MarketDocument /Process / ProcessType	D09	Latest available value
MarketDocument /Process / ProcessType	D32	Correction settlement

6.10.1.4 Mapping from today's Danish documents to CIM document for Request aggregated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Measured data request / Identification	1	Series / mRID	An..36 kode	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Measured data request / Process kind	0..1	Series / Settlement_Series / version	An..3 kode		Der angives, hvilken refiksering / korrektionsafregning variant, der udveksles.
Payload Measured data request / Observation Time Series Period / Start	0..1	Series / Start_DateAndOrTime / dateTime	Date-time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces.
Payload Measured data request / Observation Time Series Period / End	0..1	Series / End_DateAndOrTime / dateTime	Date-time	0..1	Format: YYYY-MM-DDThh:mm:ssZ
Payload Measured data request / Metering Grid Area Used Domain Location / Identification	1	Series / MeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Measured data request / Market Balance Area Used Domain Location / Identification	0..1	Series / BiddingZone_Domain / mRID	An..3		Note: Market Balance er erstattet med Bidding Zone Bruges ikke i datahub 3.0

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Measured data request / Balance Supplier Energy Party / Identification	1	Series / EnergySupplier_ MarketParticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Measured data request / Balance Responsible Party Energy Party / Identification	1	Series / BalanceResponsibleParty_ MarketParticipant / mRID	An..16	1	Entydig identifikation af aktør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Measured data request / Detailed Measurement Metering Point Characteristics / Type of Metering Point	0..1	Series / MarketEvaluationPoint / type	An..3 kode	0..1	Hvilken målepunktstype skal der aggregeres på
Payload Measured data request / Detailed Measurement Metering Point Characteristics / Settlement Method	0..1	Series / MarketEvaluationPoint / settlement-Method	An..3 kode	0..1	Afregningsform

Table 18 RSM-016: Mapping of Request aggregated measure data

6.10.2 CIM based RSM 016 – Reject Request aggregated measure data

6.10.2.1 Reject Request aggregated measure data Contextual model

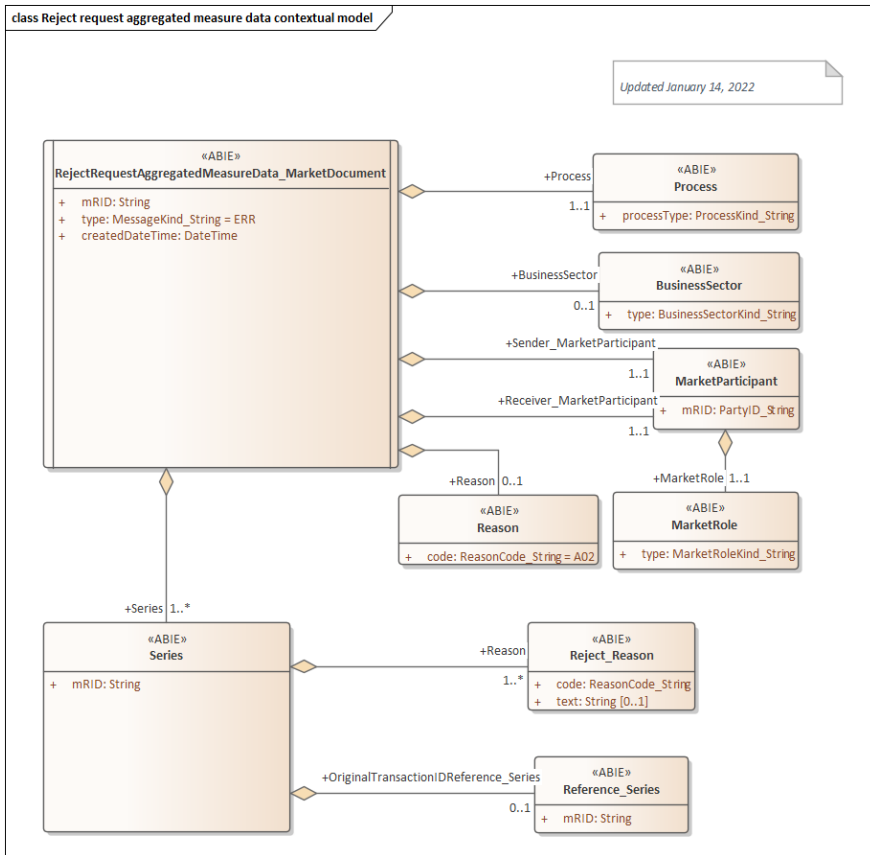


Figure 39: Class diagram: Reject Request aggregated measure data Contextual model

6.10.2.2 Reject Request aggregated measure data Assembly model

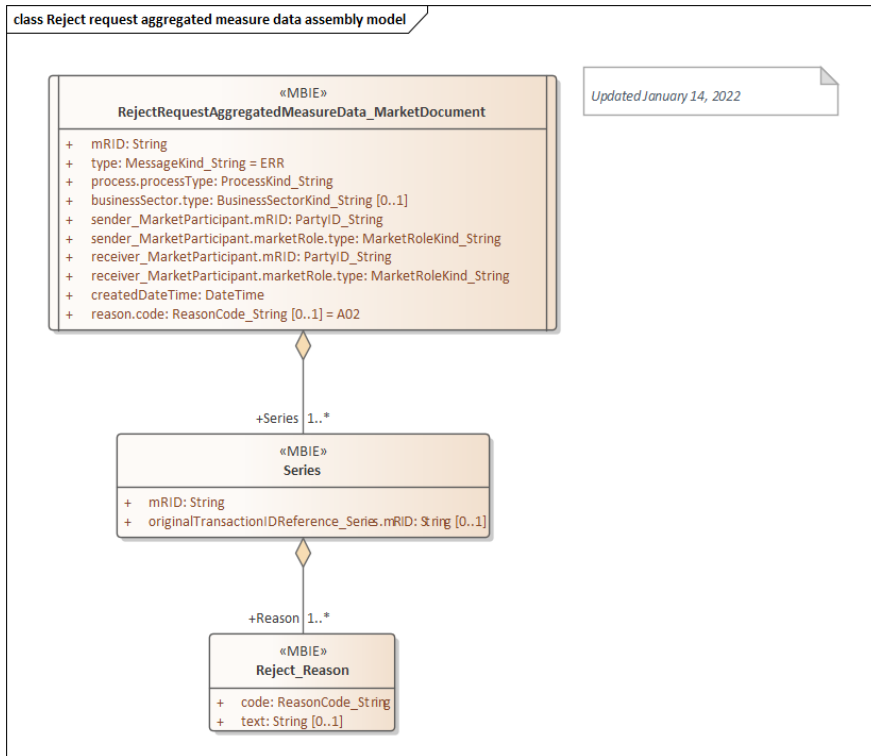


Figure 40: Class diagram: Reject Request aggregated measure data Assembly model

6.10.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	ERR	Processability Error Report
MarketDocument / Sender_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDK	Balance responsible party
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDX	Imbalance settlement responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Process / ProcessType	D03	Temporary
MarketDocument / Process / ProcessType	D04	1st settlement
MarketDocument / Process / ProcessType	D05	2nd settlement
MarketDocument / Process / ProcessType	D09	Latest available value
MarketDocument / Process / ProcessType	D32	Correction settlement

6.10.2.4 Mapping from today's Danish documents to CIM document for Reject Request aggregated measure data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 19 RSM-016: Mapping of Reject Request aggregated measure data

6.11 CIM based RSM 017 – Request wholesale settlement

6.11.1 CIM based RSM 017 – Request wholesale settlement

6.11.1.1 Request wholesale settlement Contextual model

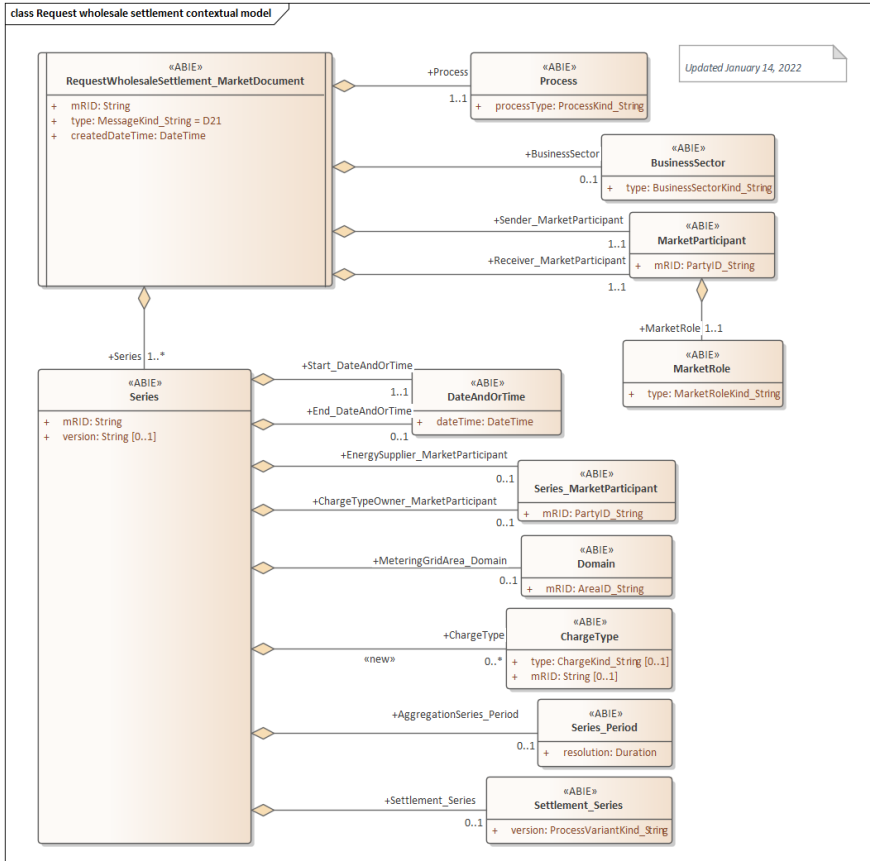


Figure 41: Class diagram: Request wholesale settlement Contextual model

6.11.1.2 Request wholesale settlement to Assembly model

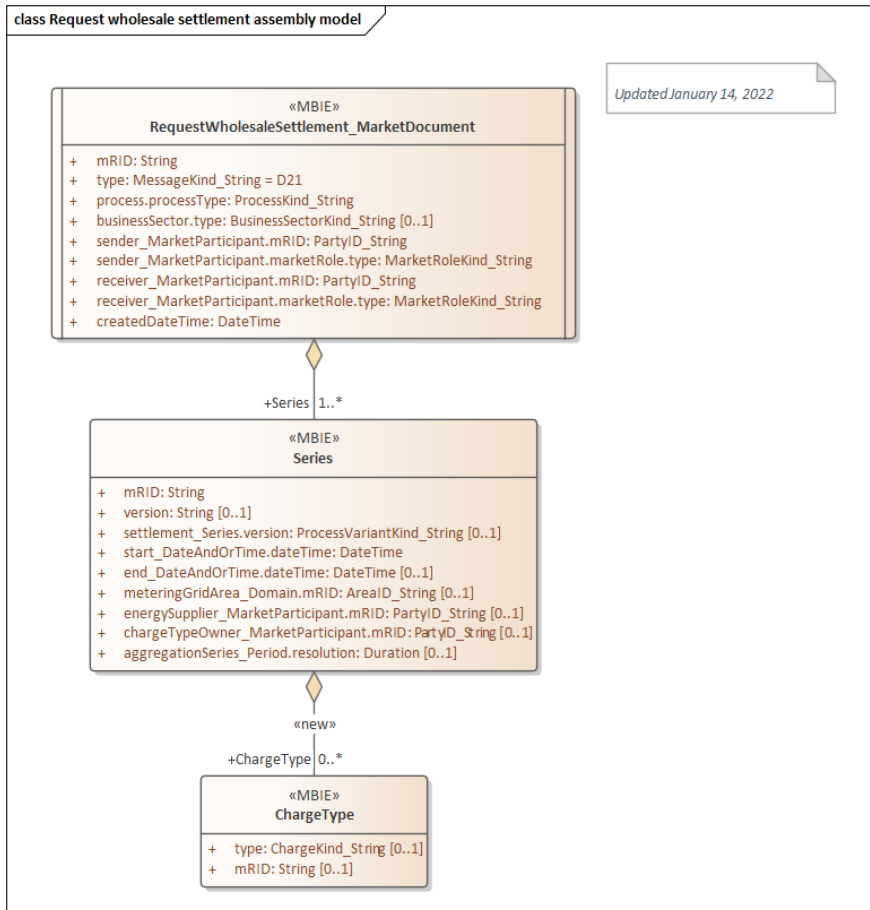


Figure 42: Class diagram: Request wholesale settlement Assembly model

6.11.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D21	Request for Aggregated Billing Information
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	D05	2nd settlement
MarketDocument / Process / ProcessType	D09	Latest available value
MarketDocument / Process / ProcessType	D32	Correction settlement

6.11.1.4 Mapping from today's Danish documents to CIM document wholesale settlement for Request

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Request Charge Information / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Energy Time Series / Version		Series / mRID / version	An..3		Anvendes ikke som søgekriterie i Danmark i øjeblikket
Payload Request Charge Information / Process kind	0..1	Series / Settlement_Series / version	An..3 kode	0..1	Der angives, hvilken refiksering / korrektionsafregning variant, der udveksles.
Payload Request Charge Information / Observation Time Series Period /Start	1	Series / Start_DateAndOrTime / date-Time	Datetime	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt
Payload Request Charge Information / Observation Time Series Period /End	1	Series / End_DateAndOrTime / dateTime	Datetime	0..1	(skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Request Charge Information / Metering Grid Area Used Domain Location / Identification	1	Series / MeteringGridArea_Domain / mRID	An..3	0..1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Request Charge Information / Balance Supplier Energy Party / Identification	1	Series / EnergySupplier_ MarketParticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Request Charge Information / Charge Type Owner Energy Party / Identification	1	Series / ChargeType / ChargeType-Owner_ MarketParticipant / mRID	An..16	1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Request Charge Information / Charge Type Owner Energy Party / Charge Type	0..1	Series / ChargeType / type	An..3 kode	0..1	Type af priselement: Subscription, Fee or Tariff
Payload Request Charge Information / Charge Type Owner Energy Party / Party Charge Type ID	0..1	Series / ChargeType / mRID	An..3 kode	0..*	Priselementets ID

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Request Charge Information / Charge Type Owner Energy Party / Monthly Aggregations	0..1	Series / AggregationSeries_Period / resolution	String	0..1	E.g. P1M. «Angiver i en forespørgsel om der skal inkluderes månedsaggregeringer»

Table 20 RSM-017: Mapping of request wholesale settlement

6.11.2 CIM based RSM 017 – Reject request wholesale settlement

6.11.2.1 Reject request wholesale settlement Contextual model

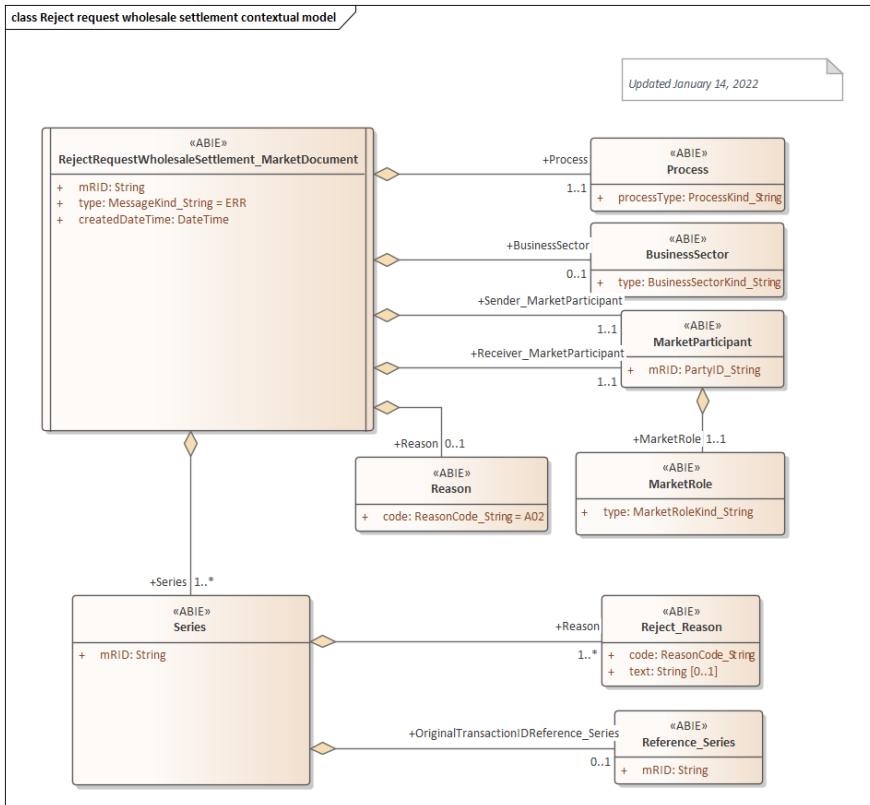


Figure 43: Class diagram: Reject request wholesale settlement Contextual model

6.11.2.2 Reject request wholesale settlement Assembly model

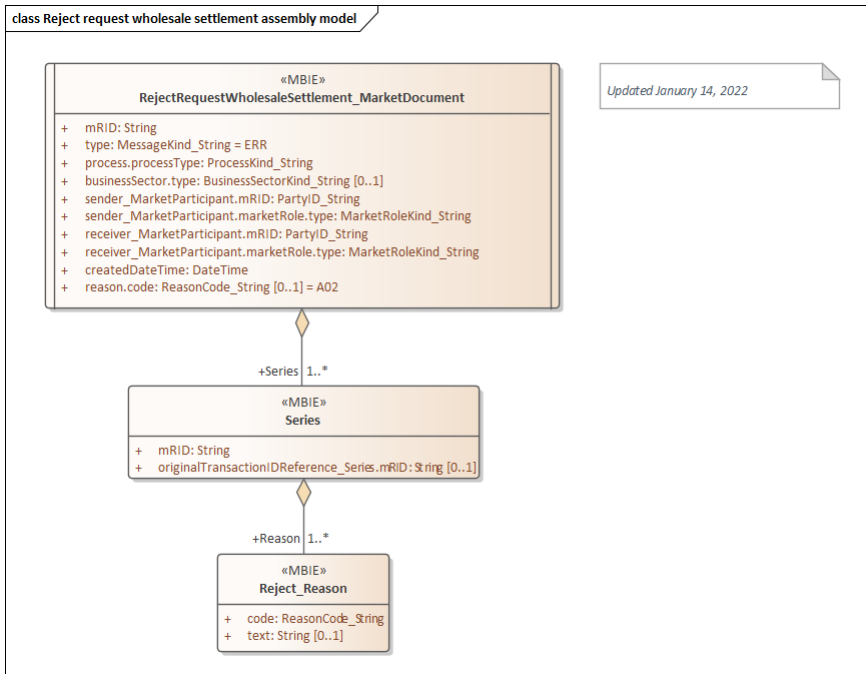


Figure 44: Class diagram: Reject request wholesale settlement Assembly model

6.11.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	ERR	Processability Error Report
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Process / ProcessType	D05	2nd settlement
MarketDocument / Process / ProcessType	D09	Latest available value
MarketDocument / Process / ProcessType	D32	Correction settlement

6.11.2.4 Mapping from today's Danish documents to CIM document for Reject request wholesale settlement

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 21 RSM-017: Mapping of Reject request wholesale settlement

6.12 CIM based RSM 018 – Reminder of missing measure data

6.12.1 Reminder of missing measure data Contextual model

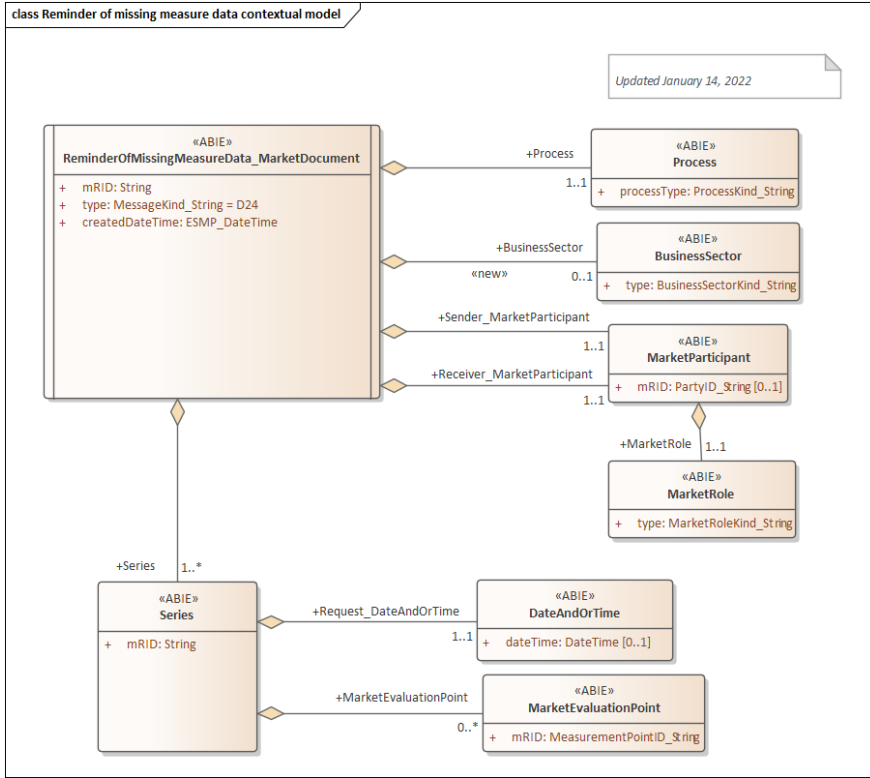


Figure 45: Class diagram: Reminder of missing measure data Contextual model

6.12.2 Reminder of missing measure data Assembly model

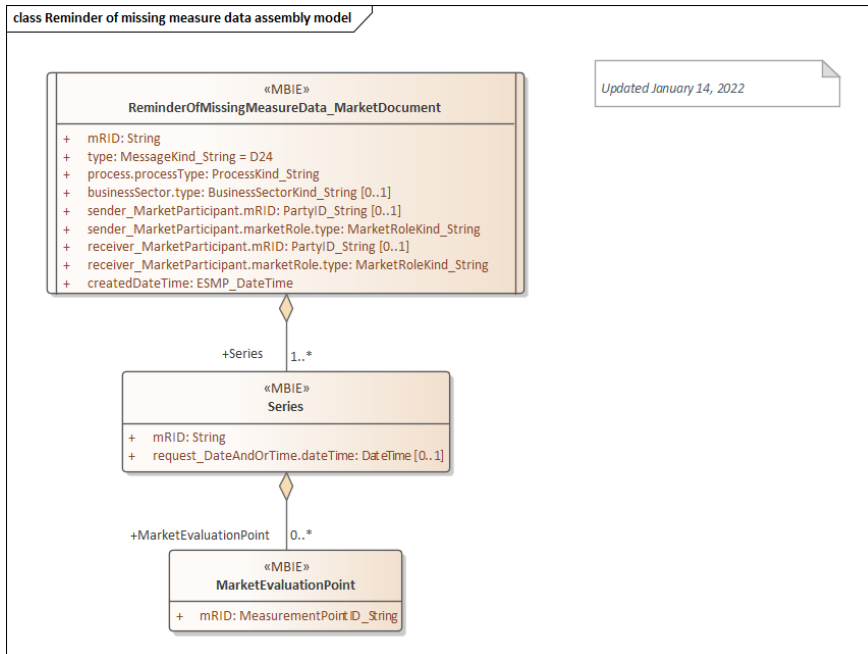


Figure 46: Class diagram Reminder of missing measure data Assembly model

6.12.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D24	Notify missing data
MarketDocument / Sender_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Process / ProcessType	D25	Missing non-profiled time series
MarketDocument / Process / ProcessType	D26	Missing flex time series

6.12.4 Mapping from today's Danish documents to CIM document for Reminder of missing measure data

Danish attribute	Card.	CIM attribute	længde	Card.	Remark
Payload Missing Data Request / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Missing Data Request / Request Period		Series / Request_DateAndOrTime / dateTime	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Missing Data Request / Metering Point Domain Location / Identification	1	Series / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 22 RSM-018: Mapping of Reminder of missing measure data

6.13 CIM based RSM 018B – Request for reminders

6.13.1 CIM based RSM 018B – Request for reminders

6.13.1.1 Request for reminders Contextual model

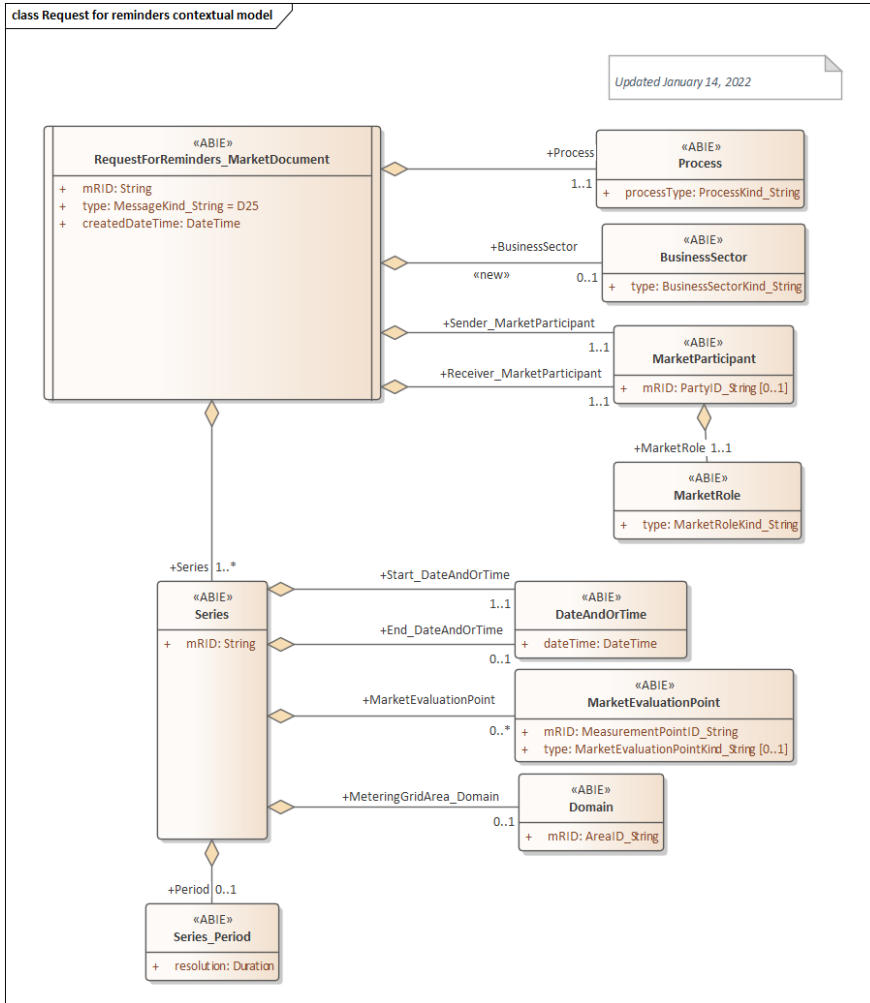


Figure 47: Class diagram: Request for reminders Contextual model

6.13.1.2 Request for reminders Assembly model

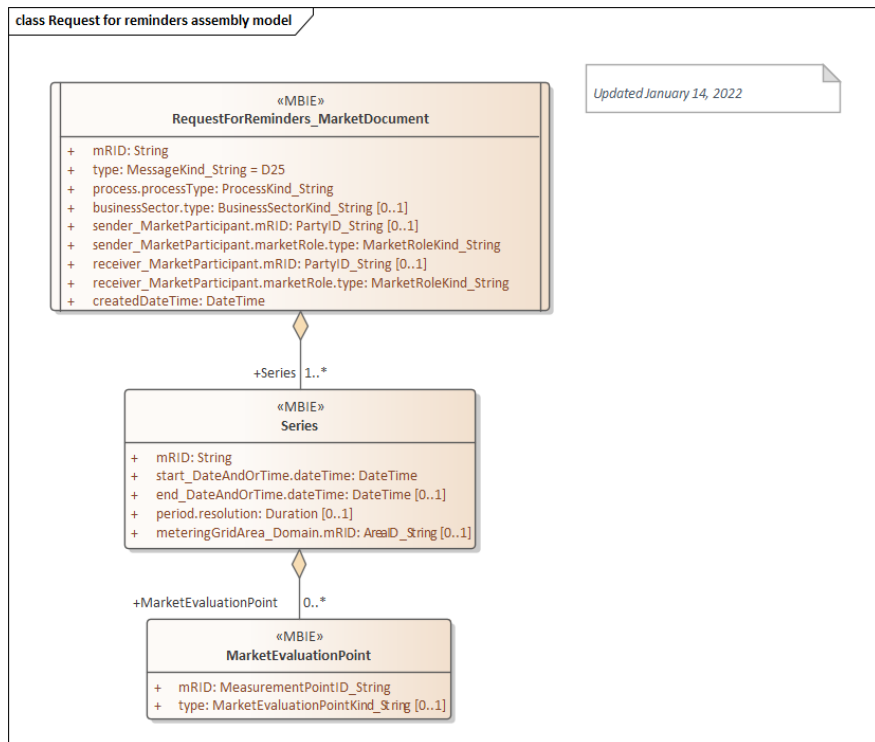


Figure 48: Class diagram Request for reminders Assembly model

6.13.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D25	Request missing data
MarketDocument / Sender_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument /Process / ProcessType	D25	Missing non-profiled time series
MarketDocument /Process / ProcessType	D26	Missing flex time series

6.13.1.4 Mapping from today's Danish documents to CIM document for Request for reminders

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Missing Data Request / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Missing Data Request / Start	1	Series / Start_DateAndOrTime / dateTime	Date-time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Missing Data Request / End	1	Series / End_DateAndOrTime / dateTime	Date-time	0..1	
Payload Missing Data Request / Metering Point Domain Location / Identification	1	Series / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Missing Data Request / Type of Metering Point	0..1	Series / MarketEvaluationPoint / type	An..3 Kode	0..1	Målepunktstype
Payload Missing Data Request / Duration	0..1	Series / Period / resolution	String	0..1	Hvilken tidsopløsning der anmodes om
Payload Missing Data Request / Metering Grid Area Used Domain Location / Identification	1	Series / MeteringGridArea_Domain / mRID	An..3	0..1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK

Table 23 RSM-018B: Mapping of Request for reminders

6.13.2 CIM based RSM 018B – Reject request for reminders

6.13.2.1 Reject request for reminders Contextual model

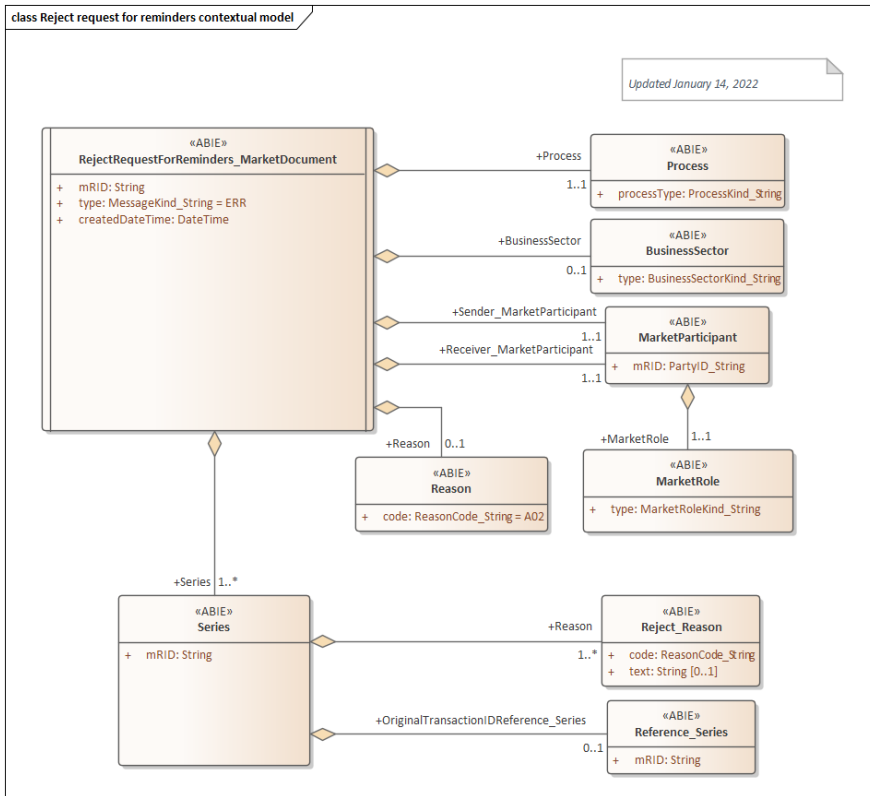


Figure 49: Class diagram: Reject request for reminders Contextual model

6.13.2.2 Reject request for reminders Assembly model

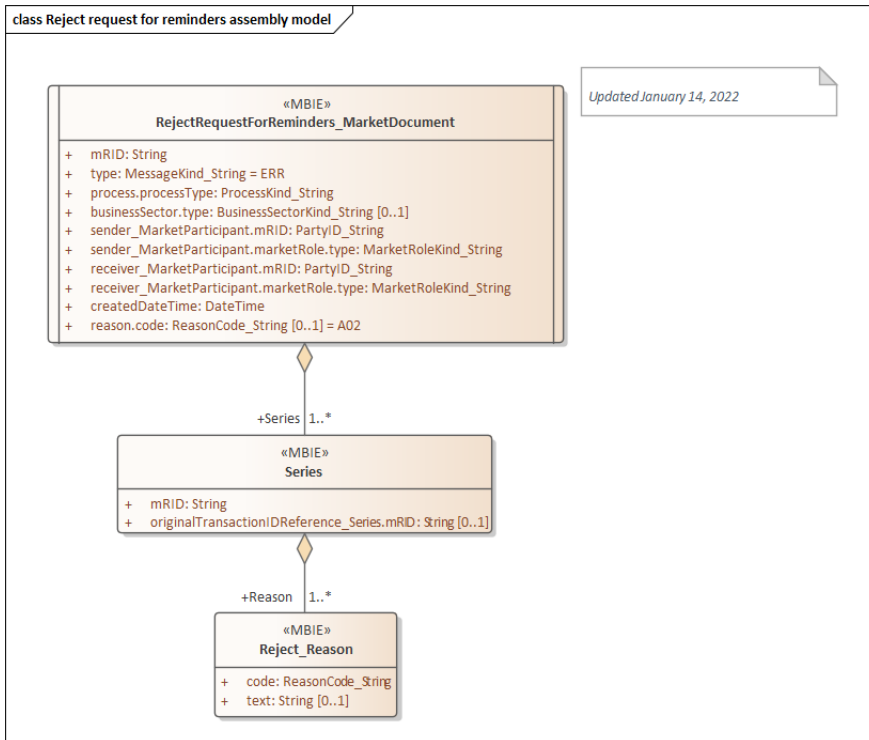


Figure 50: Class diagram: Reject request for reminders Assembly model

6.13.2.3 Header information

Navn	Kode	Beskrivelse
MarketDocument / type	ERR	Processability Error Report
MarketDocument / Sender_MarketParticipant / MarketRole / type	DGL	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	MDR	Metered data responsible
MarketDocument /Process / ProcessType	D25	Missing non-profiled time series
MarketDocument /Process / ProcessType	D26	Missing flex time series

6.13.2.4 Mapping from today's Danish documents to CIM document for Reject request for reminders

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 24 RSM-018B: Mapping of Reject request for reminders

6.14 CIM based RSM-019: Notify wholesale services

6.14.1 Notify wholesale services Contextual model

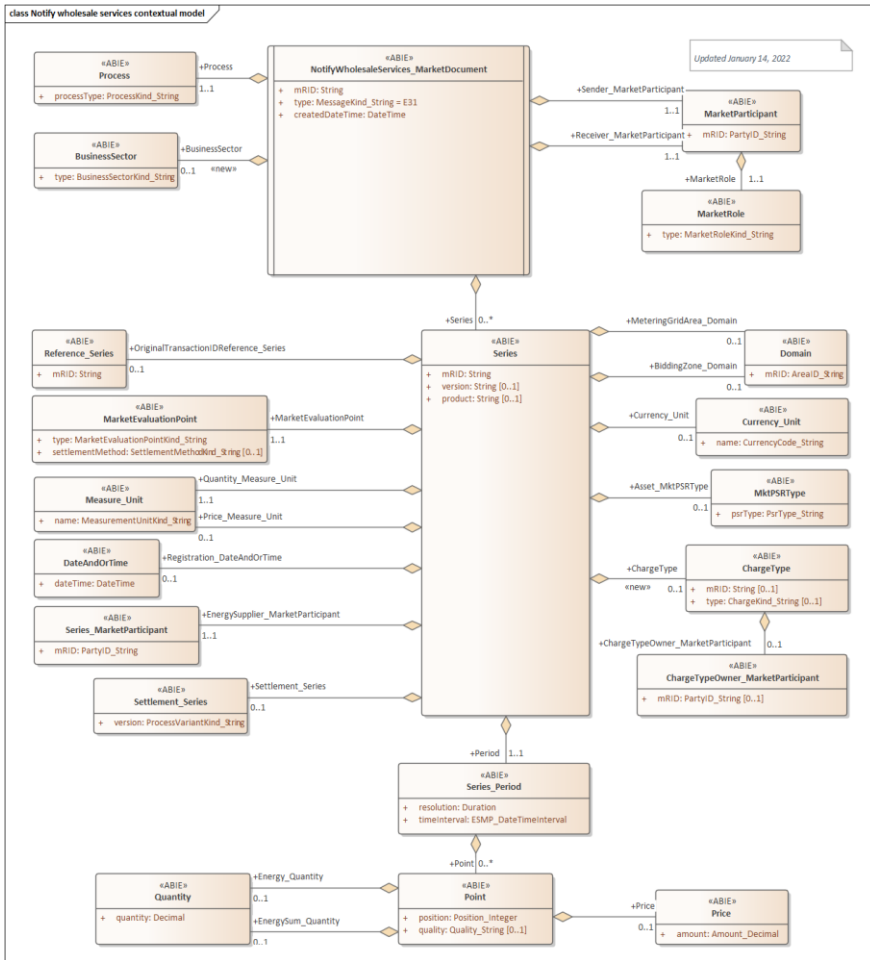


Figure 51: Class diagram: Notify wholesale services contextual model

6.14.2 Notify wholesale services Assembly mode

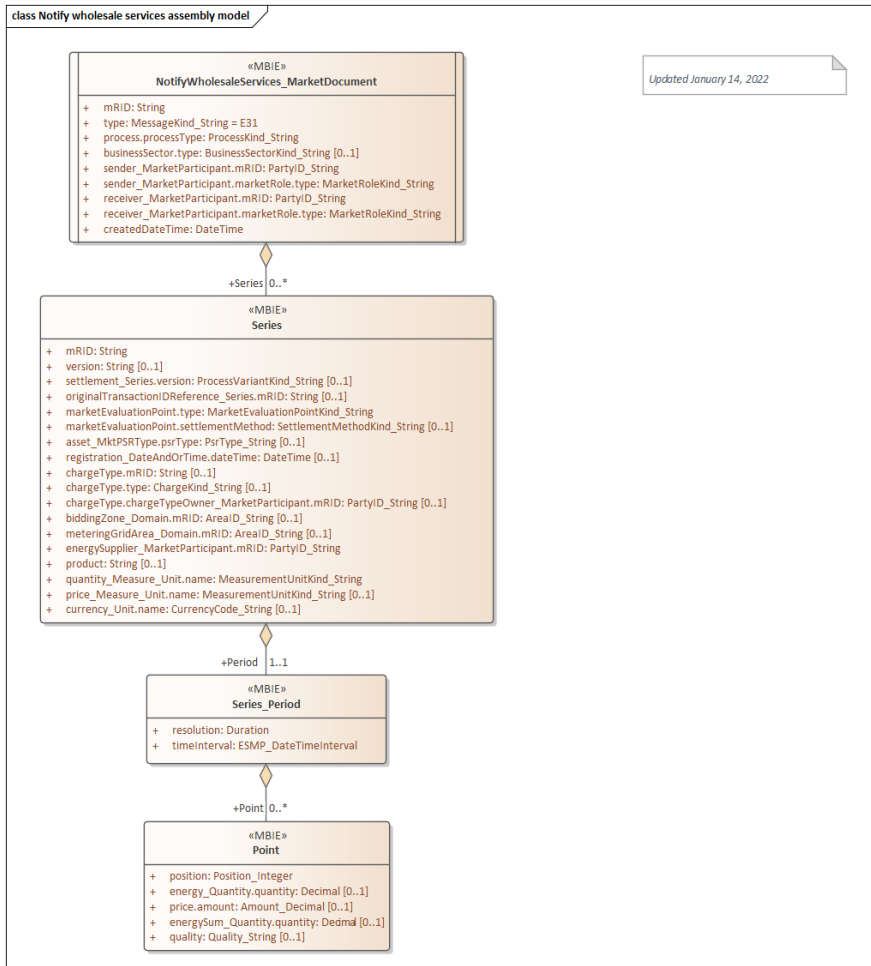


Figure 52: Class diagram: Notify wholesale services assembly model

6.14.3 Header information

Navn	Kode	Beskrivelse
MarketDocument / type	E31	Aggregate metered data from the Metered Data Aggregator, local
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument /Process / ProcessType	D05	2nd settlement
MarketDocument /Process / ProcessType	D09	Latest available value
MarketDocument /Process / ProcessType	D32	Correction settlement

6.14.4 Mapping from today's Danish documents to CIM based Notify wholesale services

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Identification	1	Series / mRID	An..36	1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Energy Time Series / Version	0..1	Series / version	An..3 kode	0..1	Et fortløbende nummer som øges ved nye beregninger med samme årsagskode
Payload Energy Time Series / Process kind	0..1	Series / Settlement_Series / version	An..3 kode	0..1	Der angives, hvilken refiksering / korrektionsafregning variant, der udveksles.
Payload Energy Time Series / Original Business Document	0..1	Series / OriginalTransactionIDReference_Series / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse. Kun anvendt i forbindelse med Request aggregated measure data
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Type of Metering Point	0..1	Series / MarketEvaluationPoint / type	An..3 kode	1	Målepunktstype
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Settlement Method	0..1	Series / MarketEvaluationPoint / settlement-Method	An..3 kode	0..1	Afregningsform

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / Asset-Type		Series / Asset_MktPSRType / psrType	An..3 kode	0..1	Bruges ikke i DataHub 3.0
Payload Energy Time Series / Detail Measurement Metering Point Characteristic / RegistrationDate		Series / Registration_DateTime / dateTime	Date-time		Bruges ikke i DataHub 3.0 ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Energy Time Series / Charge Type	0..1	Series / ChargeType / type	An..3 kode	0..1	Type at priselement: Subscription, Fee or Tariff
Payload Energy Time Series / Party Charge Type ID	0..1	Series / ChargeType / mRID	An..10	0..1	Priselements ID
Payload Energy Time Series / Charge Type Owner Energy Party / Identification	1	Series / ChargeType / ChargeTypeOwner_MarketParticipant / mRID	An..16	1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Market Balance Area Used Domain Location / Identification	1	Series / BiddingZone_Domain / mRID	An..3	1	Note: Market Balance Area er skiftet til Bidding Zone Bruges ikke i DataHub 3.0
Payload Energy Time Series / Metering Grid Area Used Domain Location / Identification	1	Series / MeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Energy Time Series / Balance Supplier Energy Party / Identification	1	Series / EnergySupplier_MarketParticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Energy Time Series / Included Product Characteristics / Identification	1	Series / product	An..13 kode	0..1	Produktidentifikation Produktet kan f.eks. være energi eller effekt. GLN-nummer benyttes til angivelse af produkt
Payload Energy Time Series / Included Product Characteristics / Unit Type	1	Series / Quantity_Measure_Unit / name	An..3 kode	0..1	Angiver enheden for kvantum

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Included Product Characteristics / Measure Unit Price Type	0..1	Series / Price_Measure_Unit / name	An..3 kode	0..1	Angiver hvilke enhed pris er for
Payload Energy Time Series / Currency	0..1	Series / Currency_Unit / name	An..3 Kode	0..1	Valutaen hvormed de enkelte værdier opgives. Valuta kan f.eks. være DKK, NOK, SEK og EUR.
Payload Energy Time Series / Observation Time Series Period / Resolution Duration	1	Series / Period / resolution	String	1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time. For Resolution anvendes for øjeblikket kun PT1H.
Payload Energy Time Series / Observation Time Series Period / Start	1	Series / Period / timeInterval : start	Date-time	1	Timeinterval er af typen ESMP_ DateTime-Interval, som har to attributter: Start og End
Payload Energy Time Series / Observation Time Series Period / End	1	Series / Period / timeInterval : end		1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mmZ

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Energy Time Series / Interval Energy Observation / Position	1	Series / Period / Point / position	An..10	1	Den relative position for en periode i et interval. Positionen er angivet ved et numerisk heltal startende med 1
Payload Energy Time Series / Interval Energy Observation / Energy Quantity	0..1	Series / Period / Point / Energy_Quantity / quantity	An..18	0..1	Mængden opgives i den enhed der er angivet i unitType med op til antal tilladte decimaler
Payload Energy Time Series / Interval Energy Observation / Energy Price	0..1	Series / Period / Point / Price / amount	Amount_Decimal	0..1	Dkk pr. kvantum med op til og med seks decimalers nøjagtighed
Payload Energy Time Series / Interval Energy Observation / Energy Sum	0..1	Series / Period / Point / EnergySum_Quantity / quantity	Decimal	0..1	Summen som bruges til aggregeringerne i engrosafregningsgrundlaget Maks. 6 decimaler
Payload Energy Time Series / Interval Energy Observation / Quantity Quality	0..1	Series / Period / Point / quality	An..3 kode	0..1	A01: Adjusted - Korrigeret A02: Not available - Manglende værdi A03: Estimated - Estimeret A05 Incomplete A06: Calculated – Beregnet Hvis værdien er målt medsendes der ikke en Quality attributten ikke.

Table 25 Mapping of RSM-019: Notify wholesale services

6.15 CIM based RSM 020 – Request service

6.15.1 CIM based RSM 020 – Request service

6.15.1.1 Request service Contextual model

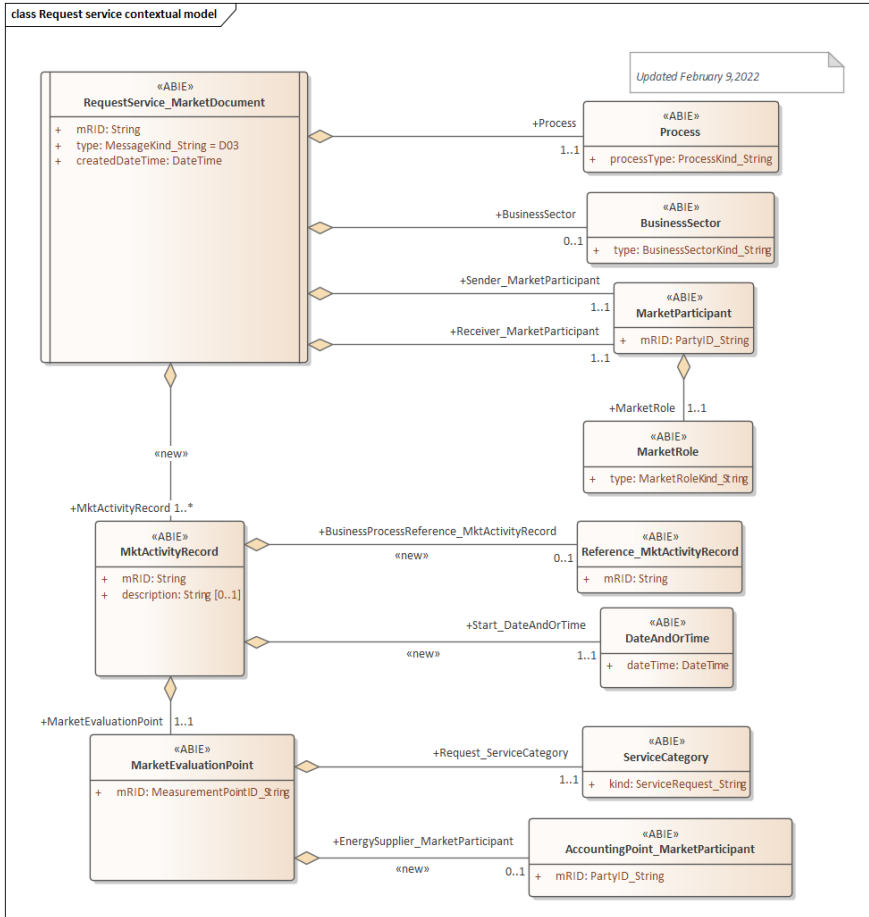


Figure 53: Class diagram: Request service Contextual model

6.15.1.2 Request service Assembly model

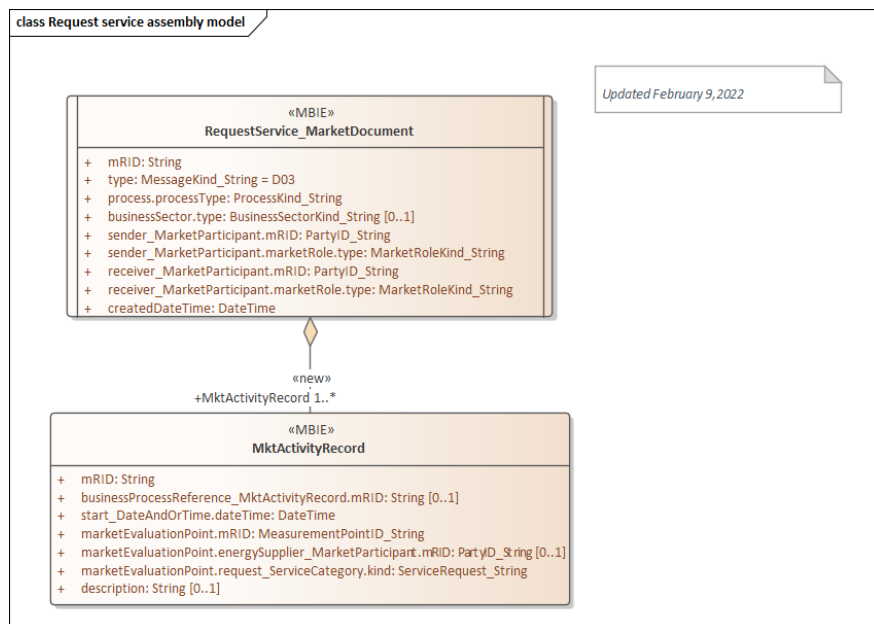


Figure 54: Class diagram: Request service Assembly model

6.15.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D03	Request Service
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Process / ProcessType	D22	Service request
MarketDocument / Process / ProcessType	E20	End of supply

6.15.1.4 Mapping from today's Danish documents to CIM document for Request service

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36		Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ / MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload MP Event / Start of Occurrence	1	MktActivityRecord / Start_DateAndOrTime / dateTime	Datetime	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload MP Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload MP Event / Metering Point Domain Location / Service request	1	MktActivityRecord / MarketEvaluationPoint / Request_ServiceCategory / kind: service-RequestKind_String	An..3	1	Kode for forespørgsel om service. F.eks. Genåbning.
Payload MP Event / Balance Supplier Energy Party / Identification	1	MktActivityRecord / MarketEvaluationPoint / EnergySupplier_MarketParticipant / mRID	An..16	1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN.

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
					CodingScheme = A01 angives for 16 tegns EIC-kode
Payload MP Event / Reason Text	0..1	MktActivityRecord / description	STRING	0..1	Uddybning af anmodning. Afsender skal være opmærksom på GDPR regler

Table 26 RSM-020: Mapping of Request service

6.15.2 CIM based RSM 020 – Confirm request service

6.15.2.1 Confirm request service Contextual model

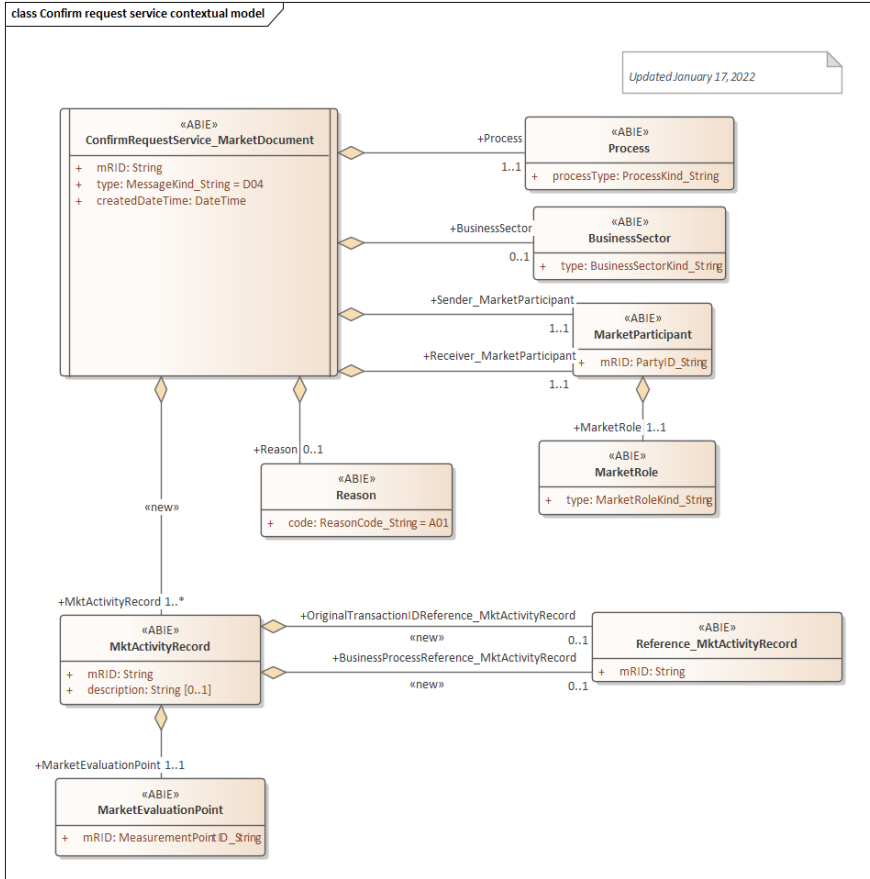


Figure 55: Class diagram: Confirm request service Contextual model

6.15.2.2 Confirm request service Assembly model

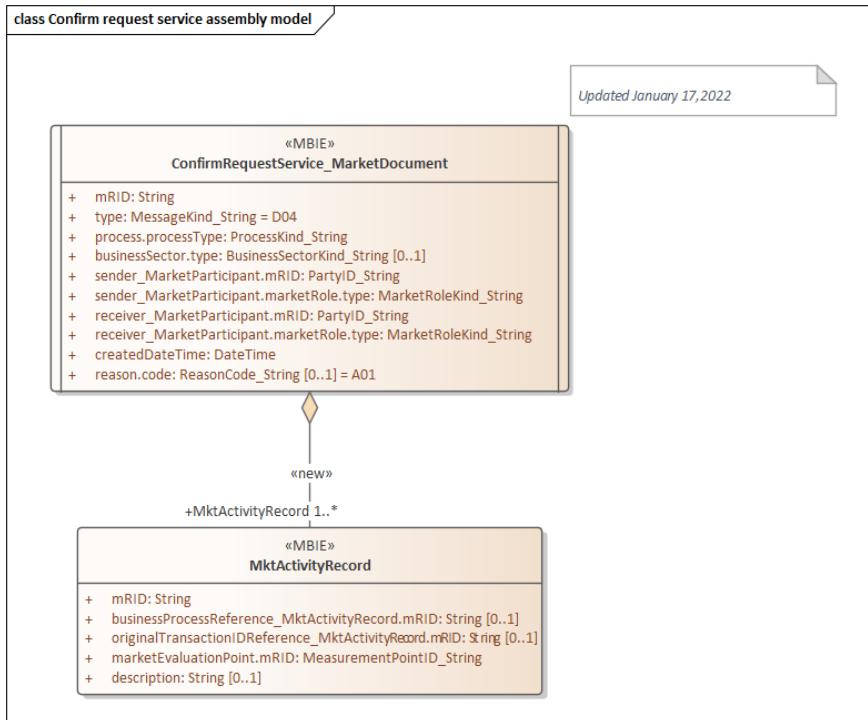


Figure 56: Class diagram: Confirm request service Assembly model

6.15.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D04	Response Servicerequest
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	D22	Service request
MarketDocument / Process / ProcessType	E20	End of supply

6.15.2.4 Mapping from today's Danish documents to CIM document for Confirm request service

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Reason Text	0..1	MktActivityRecord / description	STRING	0..1	Uddybning af anmodning Fx. " Træffes bedst kl. 12"

Table 27 RSM-020: Mapping of Confirm request service

6.15.3 CIM based RSM 020 – Reject request service

6.15.3.1 Reject request service Contextual model

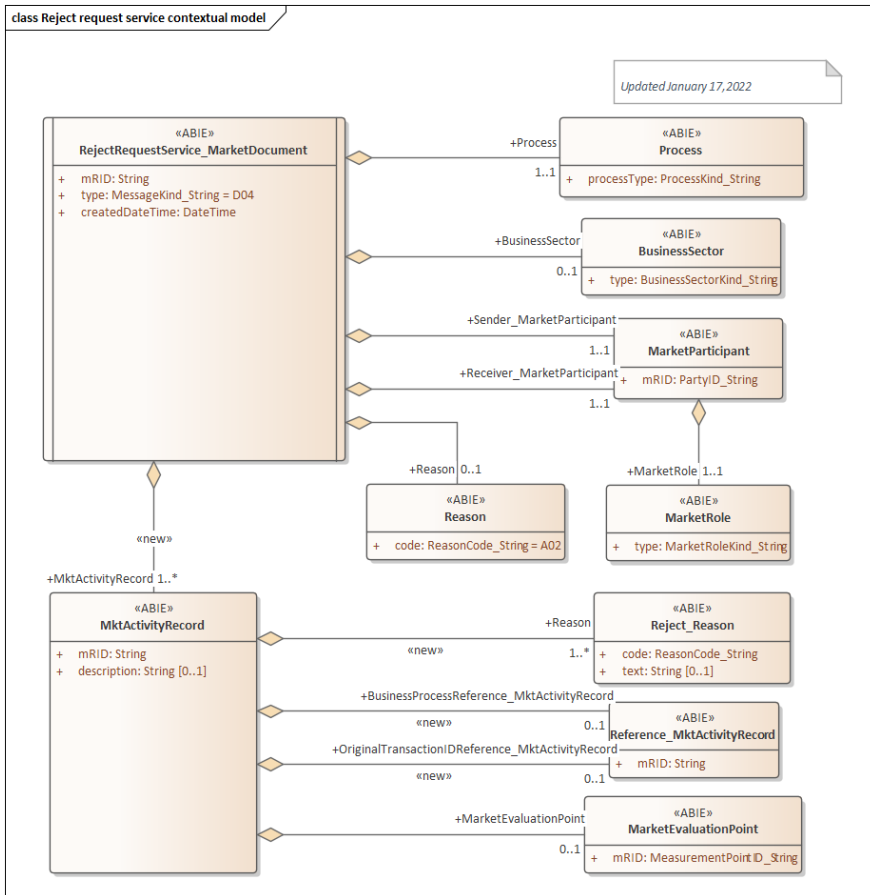


Figure 57: Class diagram: Reject request service Contextual model

6.15.3.2 Reject request service Assembly model

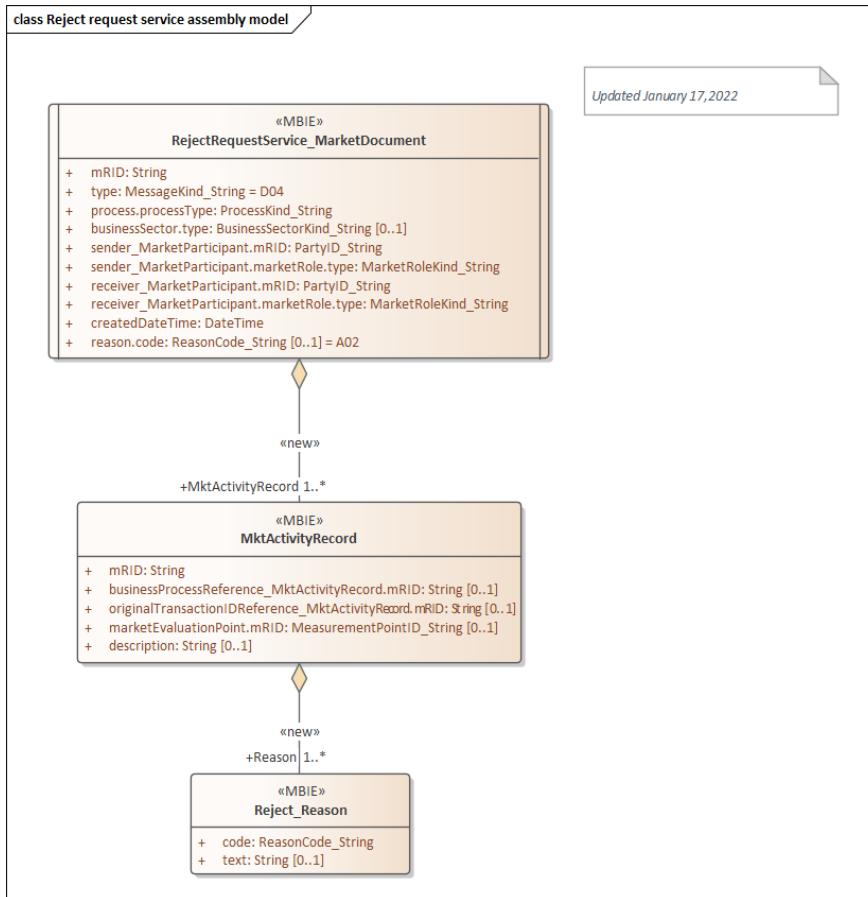


Figure 58: Class diagram: Reject request service Assembly model

6.15.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D04	Response Servicerequest
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D22	Service request
MarketDocument /Process / ProcessType	E20	End of supply

6.15.3.4 Mapping from today's Danish documents to CIM document for Reject request service

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Description	0..1	MktActivityRecord / description	STRING	0..1	Uddybning af anmodning Fx. " Træffes bedst kl. 12"
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 28 RSM-020: Mapping of Reject request service

6.16 CIM based RSM 021 Request change Accounting Point characteristics

6.16.1 CIM based Request change Accounting Point characteristics

6.16.1.1 Request change Accounting Point characteristics Contextual model

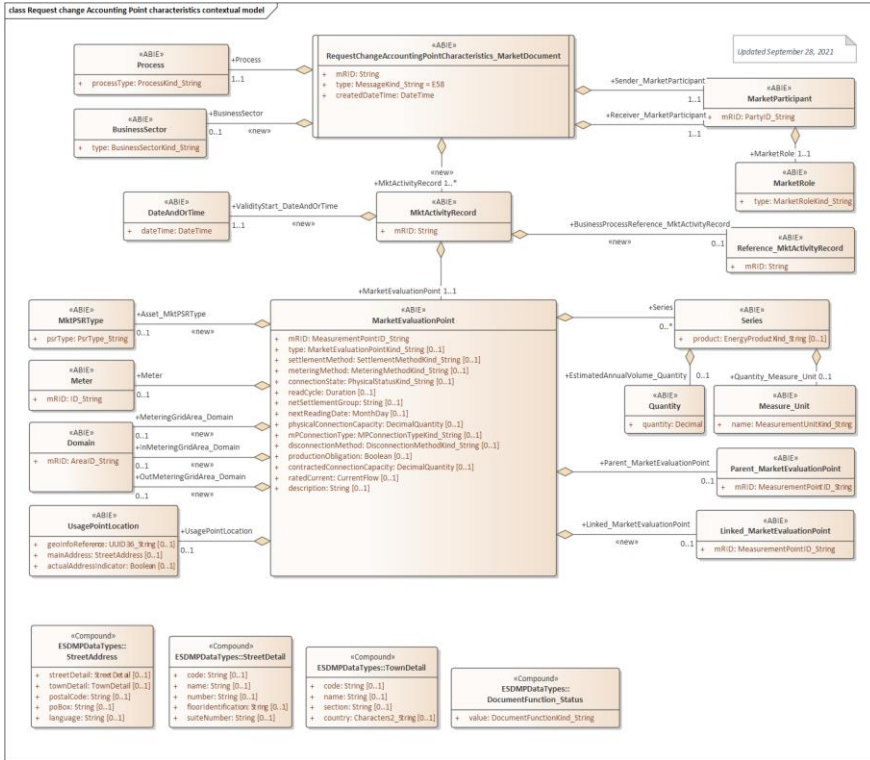


Figure 59 Request change Accounting Point characteristics contextual model

6.16.1.2 Request change Accounting Point characteristics Assembly mode

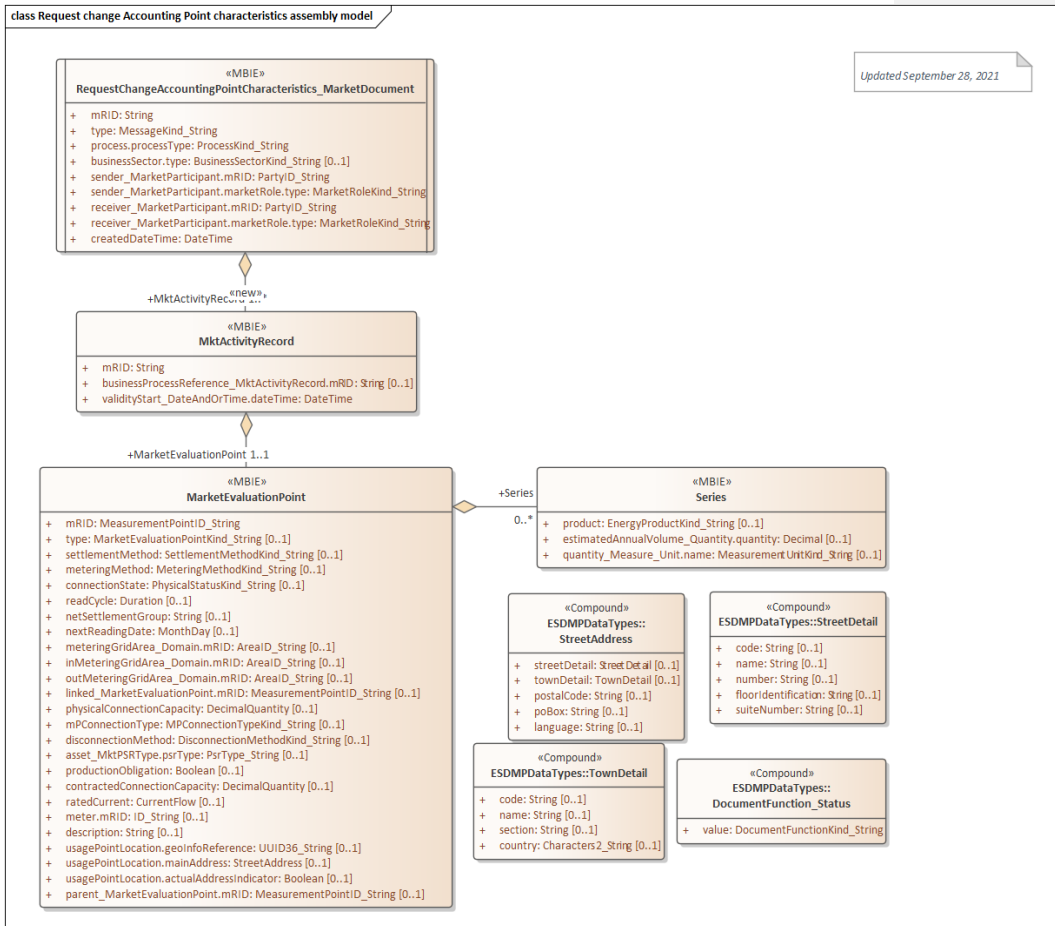


Figure 60 Request change of Accounting Point Characteristics assembly model

6.16.1.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E58	Request to change metering point attributes
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D14	Close down metering point
MarketDocument /Process / ProcessType	D15	Connect meteringpoint
MarketDocument /Process / ProcessType	D16	Merge of Grids
MarketDocument /Process / ProcessType	D39	Production Obligation
MarketDocument /Process / ProcessType	E02	New metering point
MarketDocument /Process / ProcessType	E20	End of slupply
MarketDocument /Process / ProcessType	E32	Update master data metering point
MarketDocument /Process / ProcessType	E79	Change Connection Status

6.16.1.5 Mapping from today's Danish documents to CIM document Request change Accounting Point Characteristics

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Master Data Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36		Bruges ikke i Danmark på nuværende tidspunkt.
Payload Master Data Event / Metering Point Do- main Location / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Event / Occurrence	1	MktActivityRecord / Start_DateAndOrTime / dateTime	Date- time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæ- ringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Master Data Event / Detail Metering Point Characteristic / Type of Metering Point	0..1	MktActivityRecord / MarketEvaluationPoint / type	An..3 kode	0..1	Målepunktets type fx produktion, forbrug
Payload Master Data Event / Detail Metering Point Characteristic / Settlement Method	0..1	MktActivityRecord / MarketEvaluationPoint / settlementMethod	An..3 kode	0..1	Målepunktets afregningsform. Kun hvis måle- punktstype er forbrug
Payload Master Data Event / Detail Metering Point Characteristic / Sub Type of Metering Point	0..1	MktActivityRecord / MarketEvaluationPoint / me- teringMethod	An..3 kode	0..1	Er målepunktet fysisk, virtuel eller beregnet

² Since NotifyMeteringpointmasterdata_MarketDocument is the root class, it is omitted in the table.

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Detail Metering Point Characteristic / Physical Status of Metering point	0..1	MktActivityRecord / MarketEvaluationPoint / connectionState	An..3 kode	0..1	Målepunktets status.
Payload Master Data Event / Detail Metering Point Characteristic / Meter Reading Occurrence	0..1	MktActivityRecord / MarketEvaluationPoint / readCycle	String	0..1	ISO standard, ISO 8601 anvendes til at udtrykke opløsning Enten format: PnYnMnDTnHnMnS, hvor nY udtrykker antallet af år og så videre til nM et antal af minutter og nS et antal sekunder. Tilladt i DataHub 3.0: PT1H, PT15M
Payload Master Data Event / Detail Metering Point Characteristic / Net Settlement Group	0..1	MktActivityRecord / MarketEvaluationPoint / netSettlementGroup	An..1	0..1	En kode der beskriver hvordan målepunktet bliver afregnet. Tilladte kodes: 0, 1, 2, 3, 6 and 99
Payload Master Data Event / Detail Metering Point Characteristic / Scheduled Meter Reading Date	0..1	MktActivityRecord / MarketEvaluationPoint / nextReadingDate	String	0..1	Nominel aflæsningsdag på en nettoafregningsgruppe 6 målepunkt. Attributten registreres 1 gang. Skal være gyldig kombination af måned (MM) og dag (DD) i formatet --MM-DD eks. --12-17
Payload Master Data Event / Detail Metering Point Characteristic / Metering Grid Area Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / MeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Detail Metering Point Characteristic / To Grid Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / InMeteringGridArea _Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Master Data Event / Detail Metering Point Characteristic / From Grid Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / OutMeteringGridArea _Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Master Data Event / Detail Metering Point Characteristic / Power Plant Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / Linked_MarketEvaluationPoint / mRID	An..18	1	VærksGSRN. Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Event / Detail Metering Point Characteristic / MP Capacity	0..1	MktActivityRecord / MarketEvaluationPoint / physicalConnectionCapacity	An..6	0..1	Anlæggets kapacitet i kW. Kan kun indeholde tal og punktum. Det er et krav at den tilhørende Unit bliver udfyldt transaktionen. Eks. unit="KWT"
Payload Master Data Event / Detail Metering Point Characteristic / MP Connection type	0..1	MktActivityRecord / MarketEvaluationPoint / mPConnectionType	An..3 kode	0..1	Beskriver om et (nettoafregnet) målepunkt er direkte eller installationstilsluttet Two possible codes: D01 Direct D02 Installation
Payload Master Data Event / Detail Metering Point Characteristic / Disconnection Type	0..1	MktActivityRecord / MarketEvaluationPoint / disconnectionMethod	An..3 kode	0..1	Kan målepunkt afbrydes automatisk fra system.

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Detail Metering Point Characteristic / Asset Type	0..1	MktActivityRecord / MarketEvaluationPoint / Asset_MktPSRType / psrType	An..3 kode	0..1	Angiver hvilken teknologi et målepunkt anvender
Payload Master Data Event / Detail Metering Point Characteristic / Production Obligation	0..1	MktActivityRecord / MarketEvaluationPoint / productionObligation	Boolean	0..1	Indikation af om produktionen er i aftagepligten. (værdi true). Anvendes kun i BRS-036
Payload Master Data Event / Detail Metering Point Characteristic / LimitationContracteCapacityCharacteristic / Maximum Power	0..1	MktActivityRecord / MarketEvaluationPoint / contractedConnectionCapacity	An..6	0..1	Effektgrænsen i kW. Heltal Der er et krav at unit er udfyldt i transaktionen. Eks. unit="KWT"
Payload Master Data Event / Detail Metering Point Characteristic / LimitationContracteCapacityCharacteristic / Maximum Current	0..1	MktActivityRecord / MarketEvaluationPoint / ratedCurrent	An..6	0..1	Effektgrænsen i ampere. Heltal
Payload Master Data Event / Meter Identification	1	MktActivityRecord / MarketEvaluationPoint / Meter / mRID	An..15		Målerens nummer
Payload Master Data Event / Detail Metering Point Characteristic / Included Product Characteristics / Identification	1	MktActivityRecord / MarketEvaluationPoint / Series / product	An..13 kode	0..1	Produktidentifikation Produktet kan f.eks. være energi eller effekt. GLN-nummer benyttes til angivelse af produkt.
Payload Master Data Event / Detail Metering Point Characteristic / Included Product Characteristics / Unit Type	0..1	MktActivityRecord / MarketEvaluationPoint / Series / Quantity_Measure_Unit / name	An..3 kode	1	Angiver enheden.
Payload Master Data Event / Location Description	0..1	MktActivityRecord / MarketEvaluationPoint / description	An..60	0..1	Eventuel beskrivelse af målers placering

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Installation Location Address / MPAddressWashInstruction	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ActualAddressIndicator	Boolean	0..1	Angiver om målepunktets adresse er den faktiske adresse jf. DAR
Payload Master Data Event / Installation Location Address / DAR Reference	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / geoInfoReference	An..36	0..1	Udgives af de danske myndigheder
Payload Master Data Event / Installation Location Address / Street Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : name	An..40	0..1	Vejnavn
Payload Master Data Event / Installation Location Address / Street Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : code	An..4	0..1	Kode for vej
Payload Master Data Event / Installation Location Address / Building Number	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : number	An..4	0..1	Husnummer
Payload Master Data Event / Installation Location Address / Floor Identification	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : floorIdentification	An..4	0..1	Etage
Payload Master Data Event / Installation Location Address / Room Identification	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : suiteNumber	An..4	0..1	Dørnummer

Danish attribute	Card.	CIM attribute ²	Længde	Card.	Remark
Payload Master Data Event / Installation Location Address / City Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : name	An..25	0..1	Bynavn
Payload Master Data Event / Installation Location Address / Municipality Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : code	An..3	0..1	Kommunekode
Payload Master Data Event / Installation Location Address / City Sub Division Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : section	An..34	0..1	Supplerende bynavn fx Erritsø
Payload Master Data Event / Installation Location Address / Country Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : country	An..2	0..1	Der udveksles forkortelser - ikke navne. Tjekkes mod ISO 3166 2-Alpha kode.
Payload Master Data Event / Installation Location Address / Post Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / postalCode	An..4	0..1	Postnummer For målepunktsadresse: I Danmark <= 4 tegn, foranstillede nuller anvendes.
Payload Master Data Event / Parent Related Metering Point / Identification	1	MktActivityRecord / MarketEvaluationPoint / Parent_MarketEvaluationPoint / mRID	An..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 29 Mapping of RSM 021 Request change of Accounting Point characteristics

6.16.2 CIM based RSM 021 – Confirm request change of Accounting Point characteristics

6.16.2.1 Confirm request change of Accounting Point characteristics Contextual model

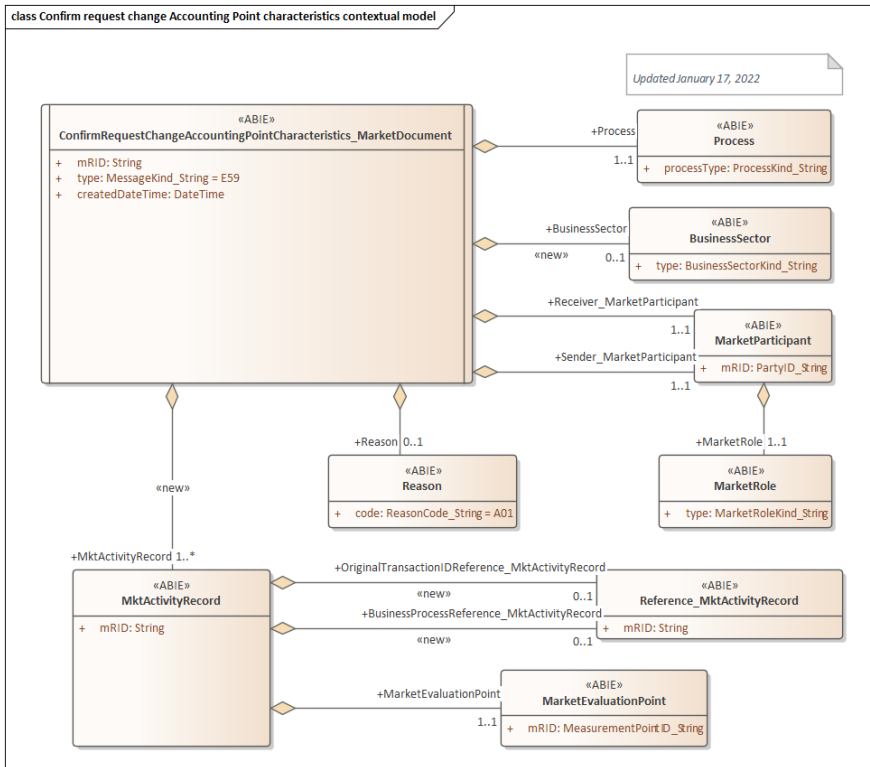


Figure 61: Class diagram: Confirm request change of Accounting Point characteristics Contextual model

6.16.2.2 Confirm request change of Accounting Point characteristics Assembly model

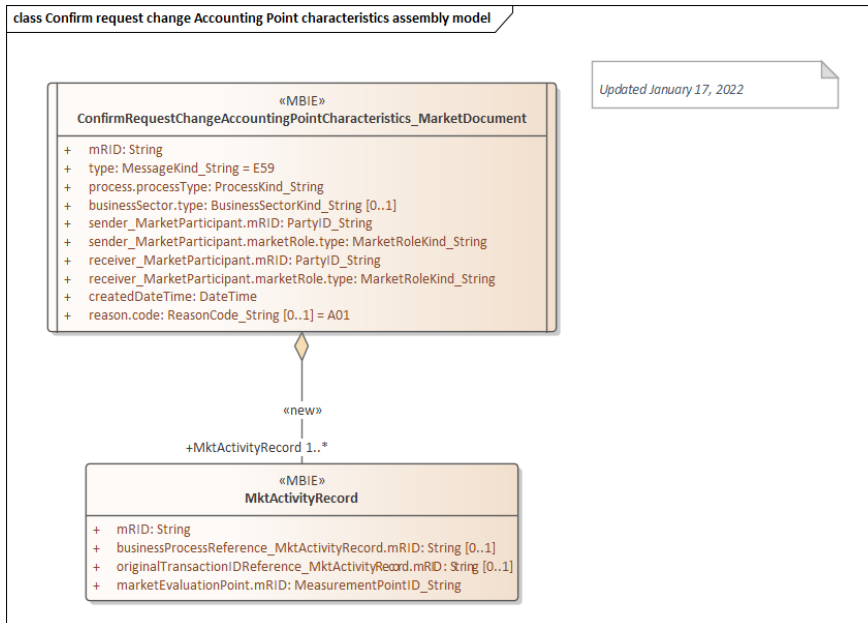


Figure 62: Class diagram: Confirm request change of Accounting Point characteristics Assembly model

6.16.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E59	Confirmation/rejection of change metering point attributes
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D14	Close down metering point
MarketDocument /Process / ProcessType	D15	Connect meteringpoint
MarketDocument /Process / ProcessType	D16	Merge of Grids
MarketDocument /Process / ProcessType	D39	Production Obligation
MarketDocument /Process / ProcessType	E02	New metering point
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E32	Update master data metering point
MarketDocument /Process / ProcessType	E79	Change Connection Status

6.16.2.4 Mapping from today's Danish documents to CIM document for Confirm request change of Accounting Point characteristics

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 30 RSM-021: Mapping of Confirm request change of Accounting Point characteristics

6.16.3 CIM based RSM 021 – Reject request change of Accounting Point characteristics

6.16.3.1 Reject request change of Accounting Point characteristics Contextual model

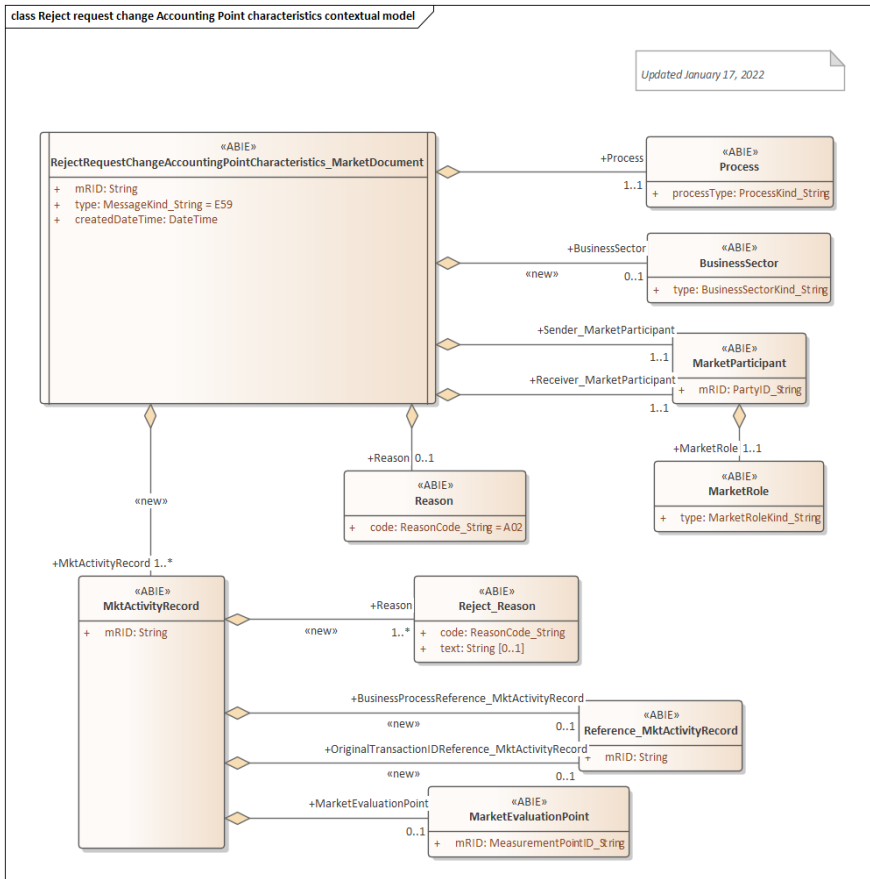


Figure 63: Class diagram: Reject request change of Accounting Point characteristics Contextual model

6.16.3.2 Reject request change of Accounting Point characteristics Assembly model

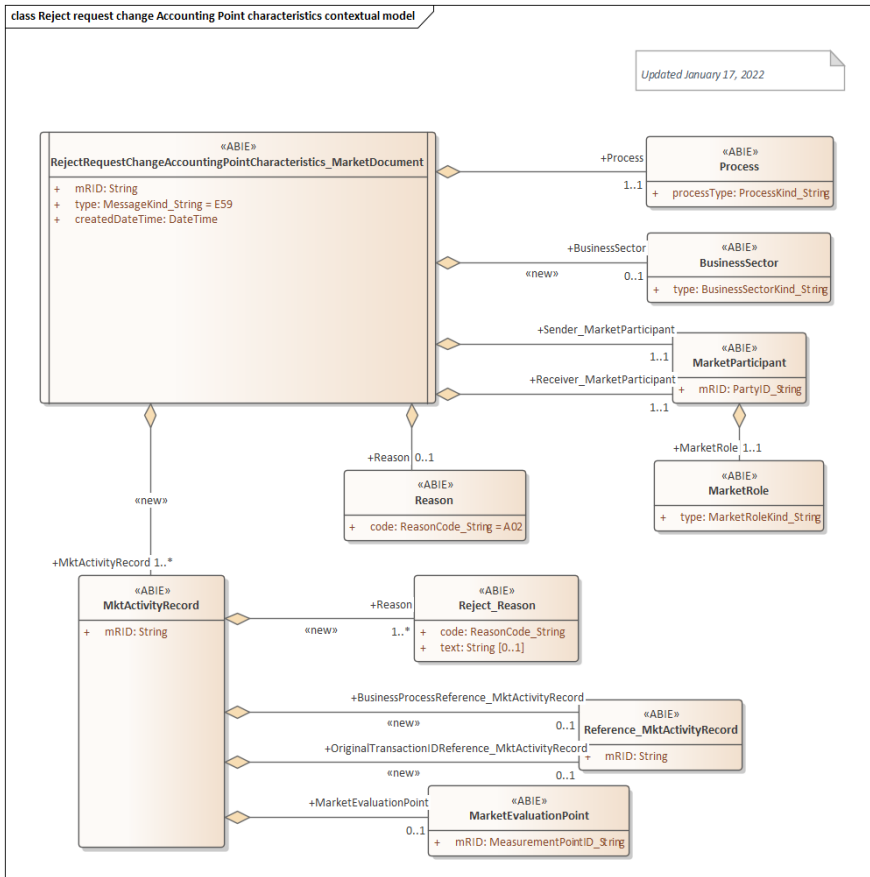


Figure 64: Class diagram: Reject request change of Accounting Point characteristics Assembly model

6.16.3.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E59	Confirmation/rejection of change metering point attributes
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D14	Close down metering point
MarketDocument /Process / ProcessType	D15	Connect meteringpoint
MarketDocument /Process / ProcessType	D16	Merge of Grids
MarketDocument /Process / ProcessType	D39	Production Obligation
MarketDocument /Process / ProcessType	E02	New metering point
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E32	Update master data metering point
MarketDocument /Process / ProcessType	E79	Change Connection Status

6.16.3.5 Mapping from today's Danish documents to CIM document for Reject request change of Accounting Point characteristics

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 31 RSM-021: Mapping of Reject request change of Accounting Point characteristics

6.17 CIM based RSM 022 Accounting Point characteristics

6.17.1 Accounting Point characteristics Contextual model

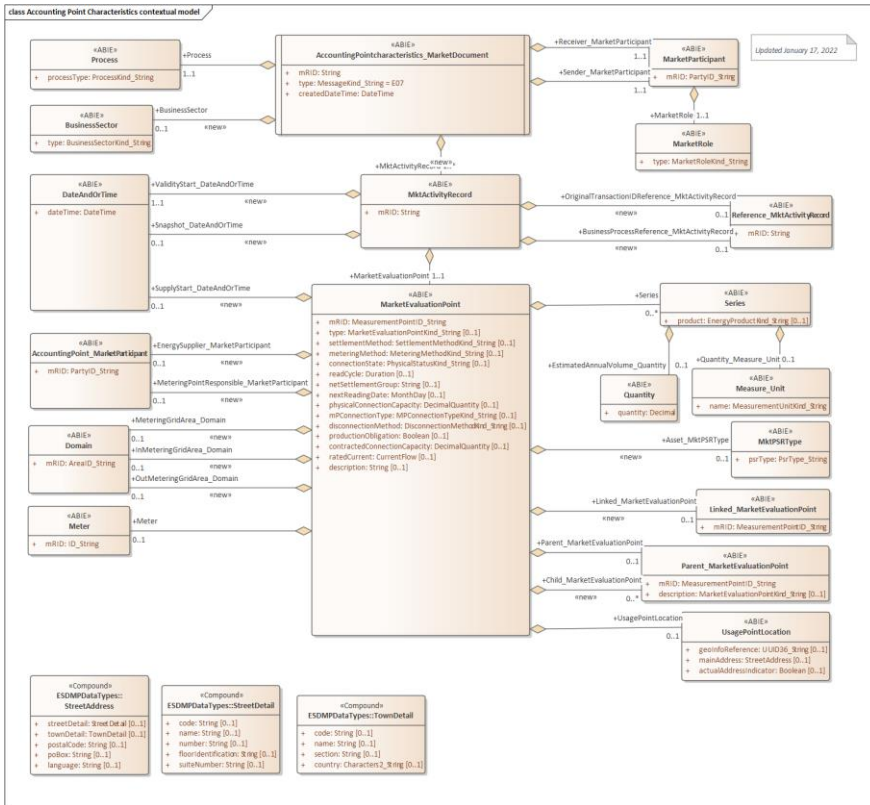


Figure 65 Accounting Point characteristics contextual model

6.17.2 Accounting Point characteristics Assembly mode

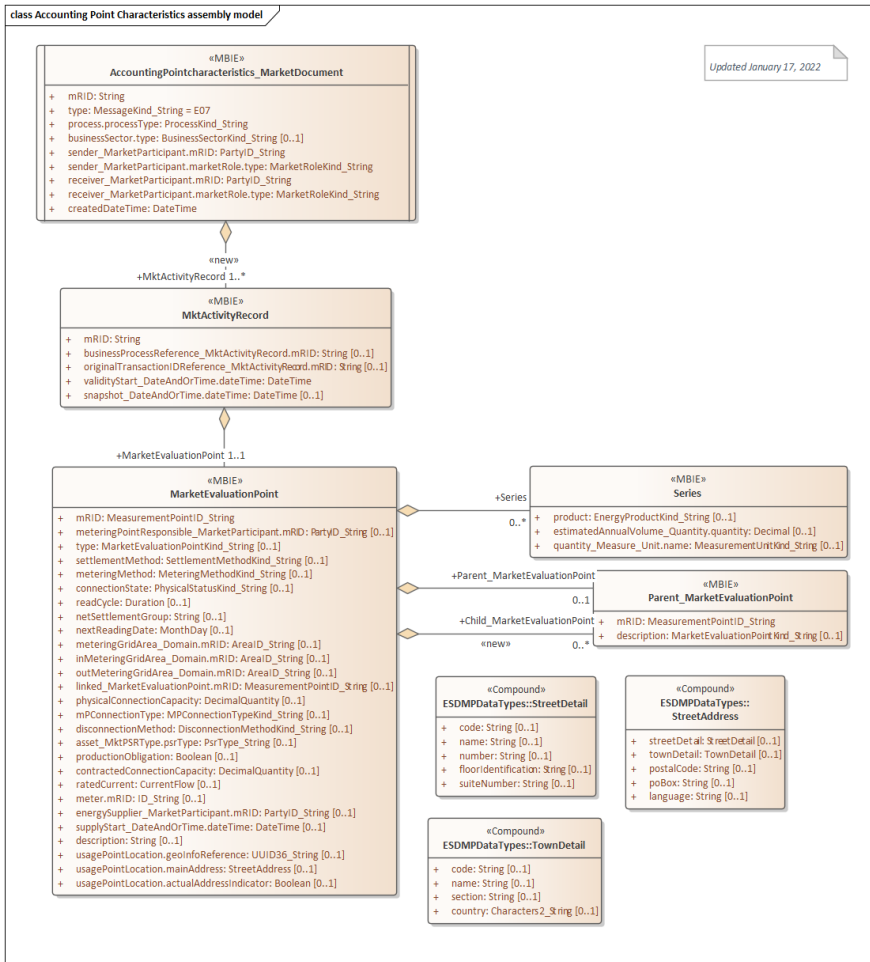


Figure 66 Accounting Point Characteristics assembly model

6.17.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E07	Master data, metering point
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid Acces Provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D15	Connect meteringpoint
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in

MarketDocument /Process / ProcessType	D30	Switch with short notice
MarketDocument /Process / ProcessType	D31	Transfer metering point
MarketDocument /Process / ProcessType	D33	Incorrect move
MarketDocument /Process / ProcessType	D36	Continue supply of customer
MarketDocument /Process / ProcessType	E02	New metering point
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	E06	Unrequested change of balance supplier
MarketDocument /Process / ProcessType	E32	Update master data metering point
MarketDocument /Process / ProcessType	E56	Change of Balance Responsible Party
MarketDocument /Process / ProcessType	E65	Customer move-in
MarketDocument /Process / ProcessType	E67	Placement of Meter
MarketDocument /Process / ProcessType	E75	Change of metering method
MarketDocument /Process / ProcessType	E79	Change Connection Status

6.17.4 Mapping from today's Danish documents to CIM document Accounting Point Characteristics

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Master Data Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i DataHub 3.0
Payload Master Data Event / Original Business Document	0..1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Bruges kun når der besked bruges, som svar til en forespørgsel (request RSM-006)
Payload Master Data Event / Occurrence	1	MktActivityRecord / ValidityStart_DateAndOrTime / dateTime	Datetime	1	Angiver starttidspunkt (skæringsdato) for proces. ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
		MktActivityRecord / Snapshot_DateAndOrTime / dateTime	Datetime	0..1	Currently Bruges ikke i DataHub 3.0

³ Since NotifyMeteringpointmasterdata_MarketDocument is the root class, it is omitted in the table.

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / Metering Point Domain Location / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Event / Metering Point Responsible ID	0..1	MktActivityRecord / MeteringPointResponsible_ MarketParticipant / mRID	An..16	0..1	The Metering Point Responsible kan være Grid Company, DataHub or an Aggregator. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Master Data Event / DetailMeteringPointCharacteristic/ Type of Metering Point	0..1	MktActivityRecord / MarketEvaluationPoint / type	An..3 kode	1	Målepunktets type fx produktion, forbrug
Payload Master Data Event / DetailMeteringPointCharacteristic/ Settlement Method	0..1	MktActivityRecord / MarketEvaluationPoint / settlementMethod	An..3 kode	1	Målepunktets afregningsform
Payload Master Data Event / DetailMeteringPointCharacteristic/ Sub Type of Metering Point	0..1	MktActivityRecord / MarketEvaluationPoint / meteringMethod	An..3 Kode	1	Er målepunktet fysisk, virtuel eller beregnet

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / DetailMeteringPointCharacteristic/ Physical Status of Metering point	0..1	MktActivityRecord / MarketEvaluationPoint / connectionState	An..3 Kode	0..1	Målepunktets status.
Payload Master Data Event / DetailMeteringPointCharacteristic/ Meter Reading Occurrence	0..1	MktActivityRecord / MarketEvaluationPoint / readCycle	STRING	0..1	ISO standard, ISO 8601 anvendes til at udtrykke opløsning Enten format: PnYnMnDTnHnMnS, hvor nY udtrykker antallet af år og så videre til nM et antal af minutter og nS et antal sekunder. Tilladt i DataHub 3: PT1H, PT15M
Payload Master Data Event / DetailMeteringPointCharacteristic/ Net Settlement Group	0..1	MktActivityRecord / MarketEvaluationPoint / netSettlementGroup	An..1	0..1	A code describing how a Metering point is settled. Allowed codes: 0, 1, 2, 3, 6 and 99
Payload Master Data Event / DetailMeteringPointCharacteristic/ Scheduled Meter Reading Date	0..*	MktActivityRecord / MarketEvaluationPoint / nextReadingDate	Datetime	0..1	Nominel aflæsningsdag på en nettoafregningsgruppe 6 målepunkt. Attributten registreres 1 gang. Skal være gyldig kombination af måned (MM) og dag (DD) i formatet --MM-DD eks. --12-17

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / DetailMeteringPointCharacteristic/ Metering Grid Area Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / MeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Master Data Event / DetailMeteringPointCharacteristic/ To Grid Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / InMeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Master Data Event / DetailMeteringPointCharacteristic/ From Grid Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / OutMeteringGridArea_Domain / mRID	An..3	1	Netområde er en betegnelse for et net, som administreres af en netvirksomhed. Dansk Energis kode anvendes (DE nr.) CodingScheme = NDK
Payload Master Data Event / DetailMeteringPointCharacteristic/ Power PlantDomain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / Linked_MarketEvaluationPoint / mRID	An..18	1	VærksGSRN. Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Event / DetailMeteringPointCharacteristic/ MP Capacity	0..1	MktActivityRecord / MarketEvaluationPoint / physicalConnectionCapacity	An..9	0..1	Anlæggets kapacitet i kW. Kan kun indeholde tal og punktum. Det er et krav at den tilhørende Unit bliver udfyldt i transaktionen. Eks. unit="KWT"

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / DetailMeteringPointCharacteristic/ MP Connection type	0..1	MktActivityRecord / MarketEvaluationPoint / mPConnectionType	An..3 kode	0..1	Beskriver om et (nettoafregnet) målepunkt er direkte eller installationstilsluttet To mulige koder: D01 Direct D02 Installation
Payload Master Data Event / DetailMeteringPointCharacteristic/ Disconnection Type	0..1	MktActivityRecord / MarketEvaluationPoint / disconnectionMethod	An..3 Kode	0..1	Kan målepunkt afbrydes automatisk fra system.
Payload Master Data Event / DetailMeteringPointCharacteristic/ Asset Type	0..1	MktActivityRecord / MarketEvaluationPoint / Asset_MktPSRType / psrType	An..3 kode	0..1	Angiver hvilken teknologi et målepunkt anvender
Payload Master Data Event / DetailMeteringPointCharacteristic/ Production Obligation	0..1	MktActivityRecord / MarketEvaluationPoint / productionObligation	Boolean	0..1	Indikation af om produktionen er i aftagepligten. (værdi true). Anvendes kun i BRS-036
Payload Master Data Event / DetailMeteringPointCharacteristic/ LimitationContractedCapacityCharacteristics / Maximum Power	0..1	MktActivityRecord / MarketEvaluationPoint / contractedConnectionCapacity	An..6	0..1	Effektgrænsen i kW. Heltal Der er et krav at unit er udfyldt i transaktionen. Eks. unit="KWT"
Payload Master Data Event / DetailMeteringPointCharacteristic/ LimitationContractedCapacityCharacteristics / Maximum Current	0..1	MktActivityRecord / MarketEvaluationPoint / ratedCurrent	An..6	0..1	Effektgrænsen i ampere. Heltal Der er et krav at unit er udfyldt i transaktionen. Eks. unit="AMP"

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / DetailMeteringPointCharacteristic/ MeteringInstallation-MeterFacility / Meter Identification	1	MktActivityRecord / MarketEvaluationPoint / Meter / mRID	An..15	0..1	Målerens nummer
Payload Master Data Event / DetailMeteringPointCharacteristic/ Included Product Characteristics / Identification	1	MktActivityRecord / MarketEvaluationPoint / Series / product	An..13 kode	0..1	Produktidentifikation Produktet kan f.eks. være energi eller effekt. GLN-nummer benyttes til angivelse af produkt.
Payload Master Data Event / DetailMeteringPointCharacteristic/ Included Product Characteristics / Unit Type	0..1	MktActivityRecord / MarketEvaluationPoint / Series / Quantity_Measure_Unit / name	An..3 kode	1	Angiver enheden.
Payload Master Data Event / DetailMeteringPointCharacteristic/ Balance Supplier Energy Party / Identification	1	MktActivityRecord / MarketEvaluationPoint / EnergySupplier_MarketParticipant / mRID	An..16	0..1	Entydig identifikation af elleverandør. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode Ikke til netvirksomhed

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / DetailMeteringPointCharacteristic/ Supply Start	0..1	MktActivityRecord / MarketEvaluationPoint / SupplyStart_DateAndOrTime / dateTime	Datetime	0..1	Elleverandøres start på målepunktet ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Master Data Event / DetailMeteringPointCharacteristic/ Location Description	0..1	MktActivityRecord / MarketEvaluationPoint / description	An..60	0..1	Eventuel beskrivelse af målers placering
Payload Master Data Event / Installation Location Address/ MPAddressWashInstruction	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ActualAddressIndicator	Boolean	0..1	Angiver om målepunktets adresse er den faktiske adresse jf. DAR
Payload Master Data Event / Installation Location Address/ DAR Reference	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / geoInfoReference	An..36	0..1	Udgives af de danske myndigheder
Payload Master Data Event / Installation Location Address / Street Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : name	An..40	0..1	Vejnavn
Payload Master Data Event / Installation Location Address / Street Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : code	An..34	0..1	Kode for vej

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / Installation Location Address / Building Number	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : number	An..6	0..1	Husnummer
Payload Master Data Event / Installation Location Address / Floor Identification	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : flooridentification	An..4	0..1	Etage
Payload Master Data Event / Installation Location Address / Room Identification	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : suiteNumber	An..4	0..1	Dørnummer
Payload Master Data Event / Installation Location Address / City Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : name	An..25	0..1	Bynavn
Payload Master Data Event / Installation Location Address / Municipality Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : code	An..3	0..1	Kommunekode
Payload Master Data Event / Installation Location Address / City Sub Division Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : section	An..34	0..1	Supplerende bynavn fx Erritsø

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / Installation Location Address / Country Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : country	An..2	0..1	Der udveksles forkortelser - ikke navne. Tjekkes mod ISO 3166 2-Alpha kode.
Payload Master Data Event / Installation Location Address / Post Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / postalCode	An..4	0..1	Postnummer For målepunktsadresse: I Danmark <= 4 tegn, foranstillede nuller anvendes.
Payload Master Data Event / Installation Location Address / POBox	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / poBox	An..40	0..1	Bruges ikke i Danmark i forbindelse med målepunktsadresse
Payload Master Data Event / Parent Related Metering Point / IdentificationDomainLocation/ Identification	1	MktActivityRecord / MarketEvaluationPoint / Parent_MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Event / Parent Related Metering Point / IdentificationDomainLocation/ Type of Metering Point		MktActivityRecord / MarketEvaluationPoint / Parent_MarketEvaluationPoint / description	An..3 Kode	0..1	Bruges ikke i Danmark
Payload Master Data Event / Child Related Metering Point / IdentificationDomainLocation/ Identification	1	MktActivityRecord / MarketEvaluationPoint / Child_MarketEvaluationPoint / mRID	An..18	1	Må kun bruges i forbindelse med svar på en anmodning. Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Danish attribute	Card.	CIM attribute ³	Længde	Card.	Remark
Payload Master Data Event / Child Related Metering Point / IdentificationDomainLocation/ Type of Metering Point		MktActivityRecord / MarketEvaluationPoint / Child_MarketEvaluationPoint / description	An..3 Kode	0..1	Må kun bruges i forbindelse med svar på en anmodning. Angiver målepunktstype på et childmålepunkt

Table 32 Mapping of RSM 022 Accounting Point characteristics

6.18 CIM based RSM 023 Confirm request Accounting Point characteristics

6.19 Denne besked er beskrevet i afsnit 6.17,

CIM based RSM 022 Accounting Point characteristics.

6.20 CIM based RSM 024 – Request Cancellation

6.20.1 CIM based RSM 024 – Request Cancellation

6.20.1.1 Request Cancellation Contextual model

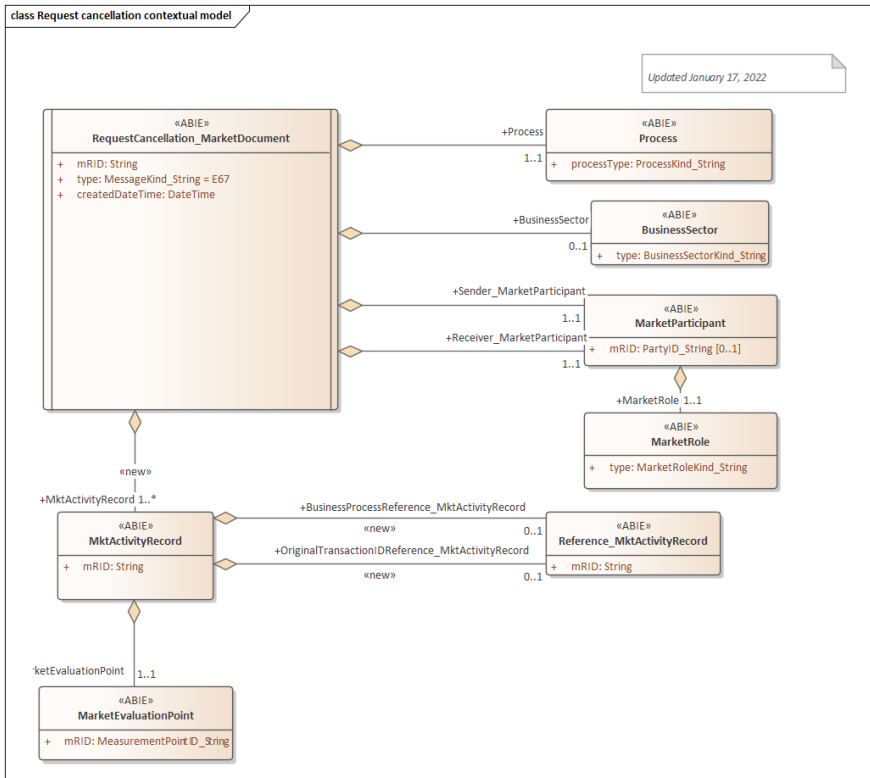


Figure 67: Class diagram: Request Cancellation Contextual model

6.20.1.2 Request Cancellation Assembly model

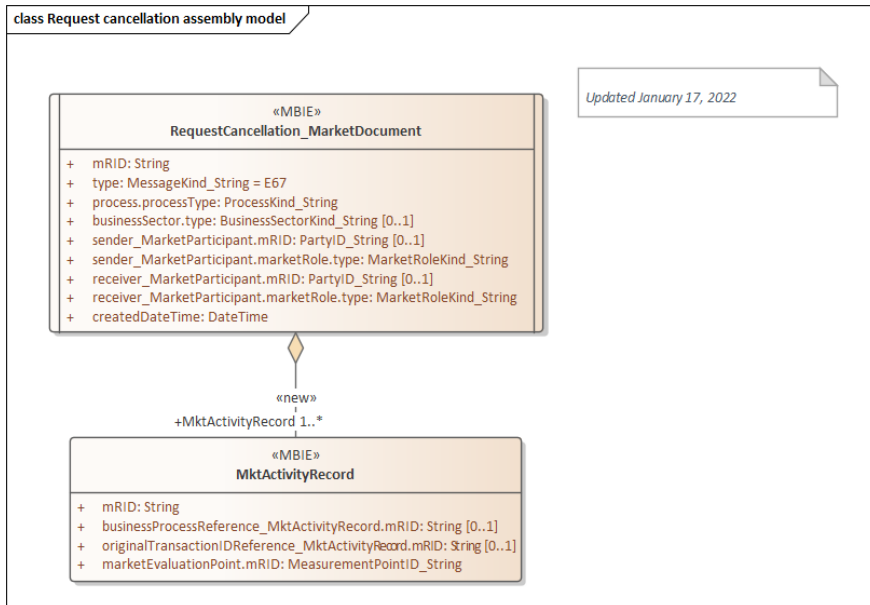


Figure 68: Class diagram: Request Cancellation Assembly model

6.20.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E67	Request regarding Cancellation
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	Alle	Se Regneark

6.20.1.4 Mapping from today's Danish documents to CIM document for Request Cancellation

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionID-Reference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 33 RSM-024: Mapping of Request Cancellation

6.20.2 CIM based RSM 024 – Confirm request cancellation

6.20.2.1 Confirm request cancellation Contextual model

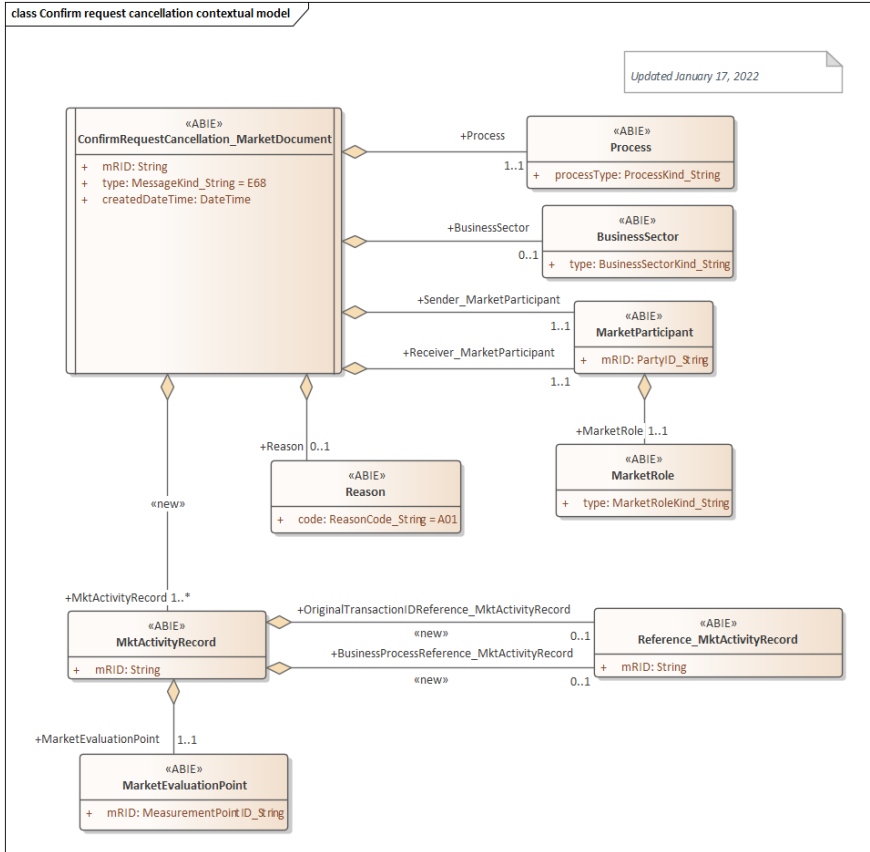


Figure 69: Class diagram: Confirm request cancellation Contextual model

6.20.2.2 Confirm request cancellation Assembly model

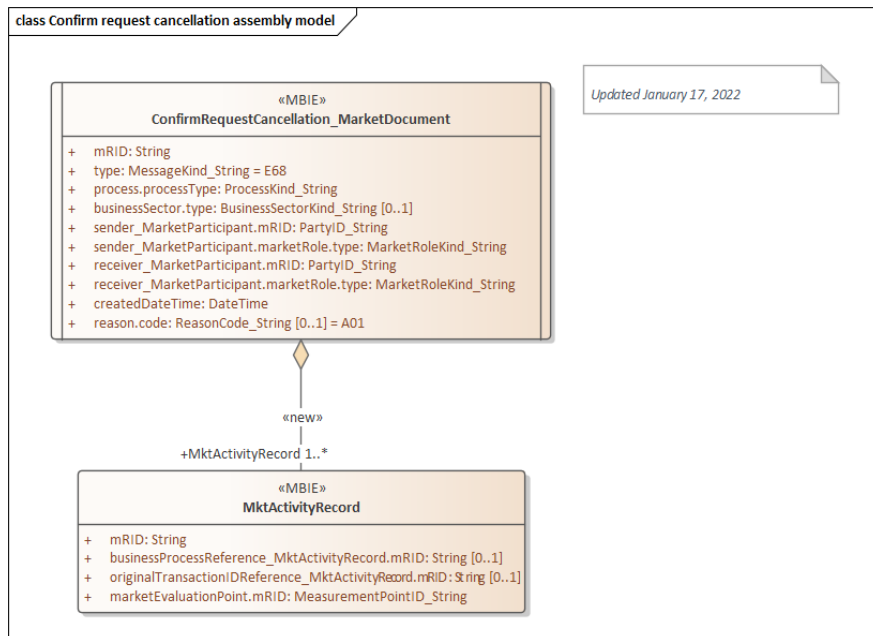


Figure 70: Class diagram: Confirm request cancellation Assembly model

6.20.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E68	Response regarding Cancellation
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Process / ProcessType	Alle	Se Regneark

6.20.2.4 Mapping from today's Danish documents to CIM document for Confirm request cancellation

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse (RSM-024) Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 34 RSM-024: Mapping of Confirm request cancellation

6.20.3 CIM based RSM 024 – Reject request cancellation

6.20.3.1 Reject request cancellation Contextual model

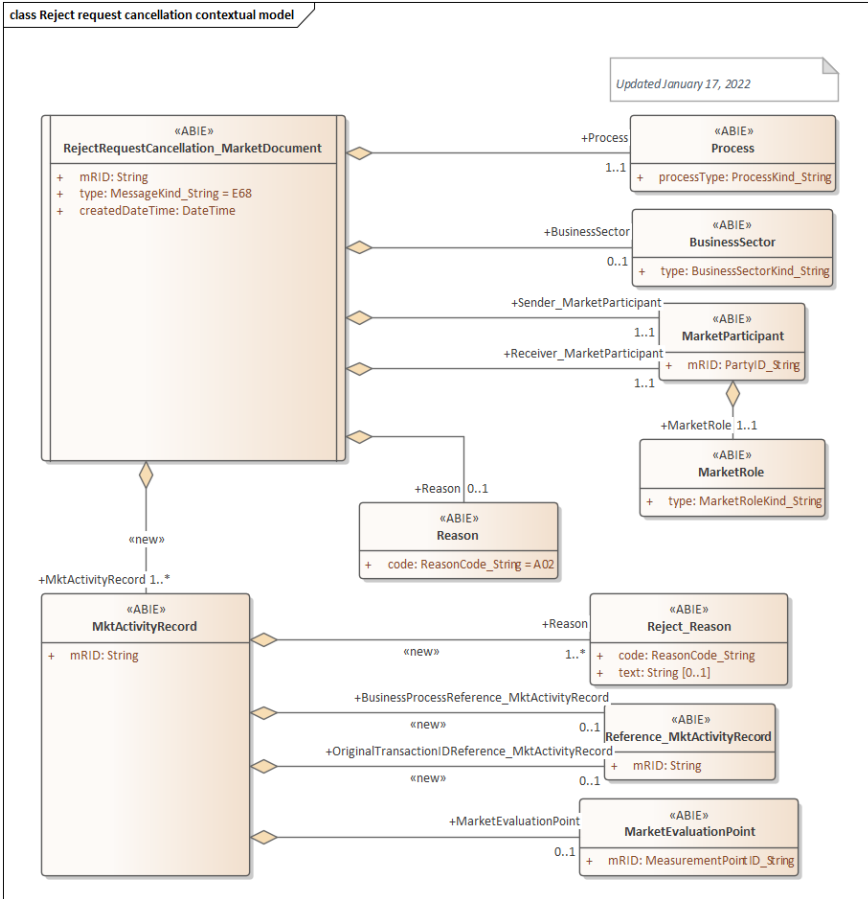


Figure 71: Class diagram: Reject request cancellation Contextual model

6.20.3.2 Reject request cancellation Assembly model

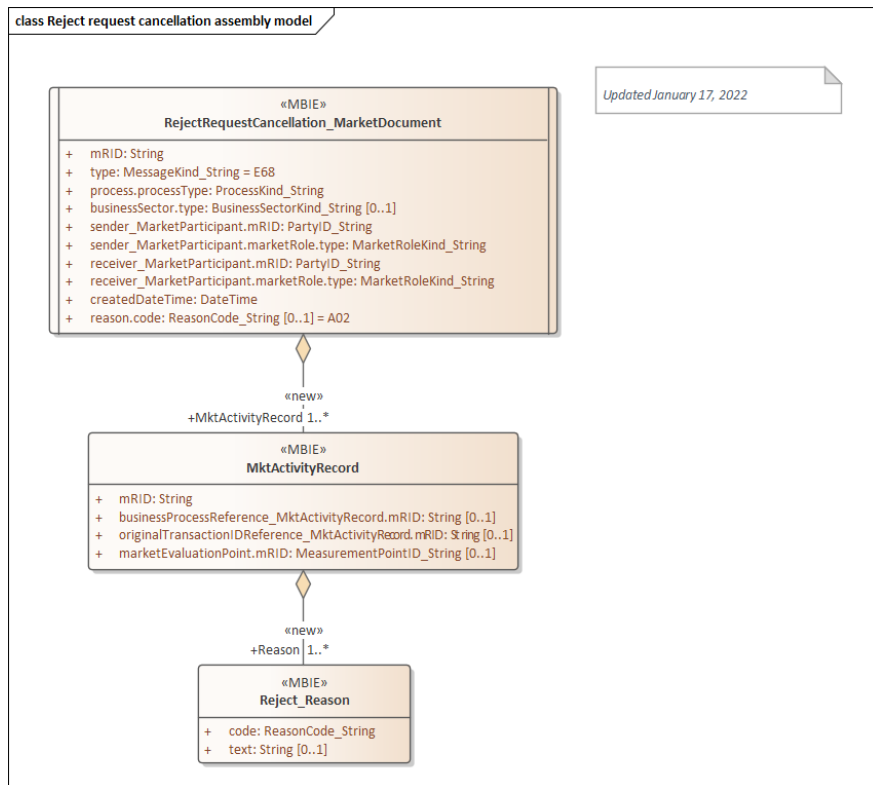


Figure 72: Class diagram: Reject request cancellation Assembly model

6.20.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E68	Response regarding Cancellation
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Process / ProcessType	Alle	Se Regneark

6.20.3.4 Mapping from today's Danish documents to CIM document for Reject request cancellation

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 35 RSM-024: Mapping of Reject request cancellation

6.21 CIM based RSM 025 – Notify Cancellation

6.21.1 Notify Cancellation Contextual model

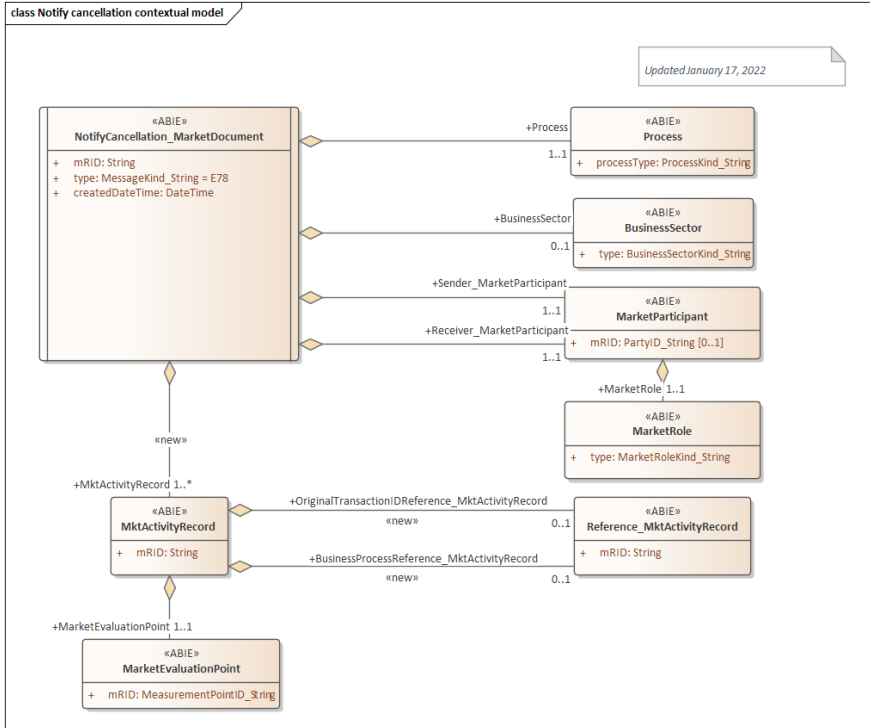


Figure 73: Class diagram: Notify Cancellation Contextual model

6.21.2 Notify Cancellation Assembly model

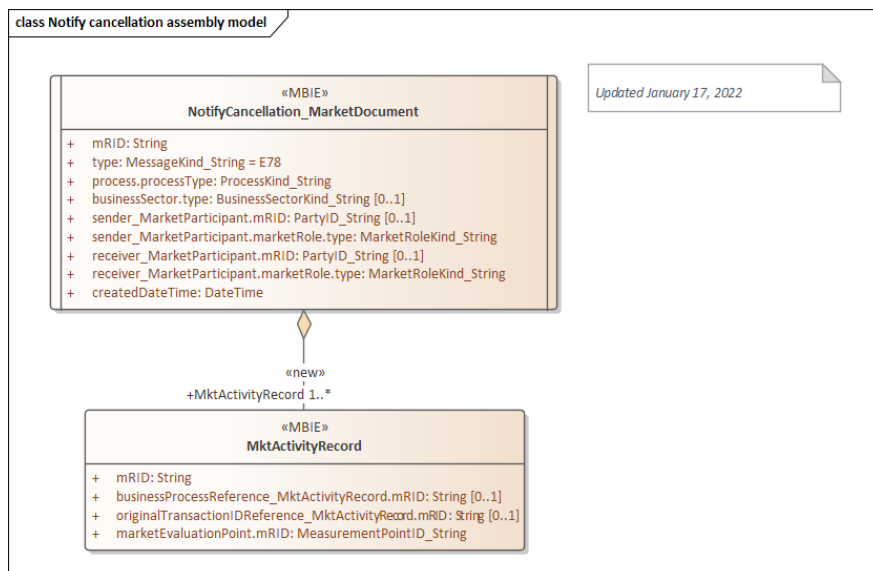


Figure 74: Class diagram: Notify Cancellation Assembly model

6.21.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E78	Cancellation of notification
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Process / ProcessType	Alle	Se Regneark

6.21.4 Mapping from today's Danish documents to CIM document for Notify Cancellation

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Currently Bruges ikke i DataHub 3.0.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 36 RSM-025: Mapping of Notify Cancellation

6.22 CIM based RSM 027 Request change Customer characteristics

6.22.1 Request change Customer characteristics

6.22.1.1 Request change Customer characteristics Contextual model

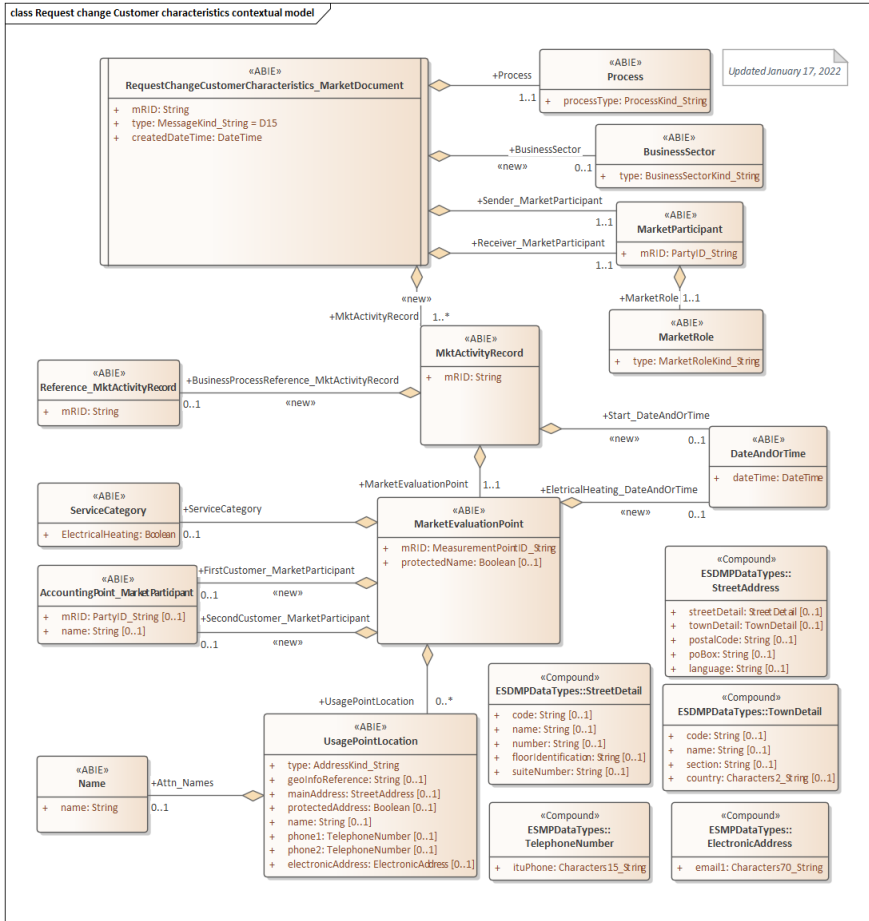


Figure 75 Request change Customer characteristics contextual model

6.22.1.2 Request change Customer characteristics Assembly mode

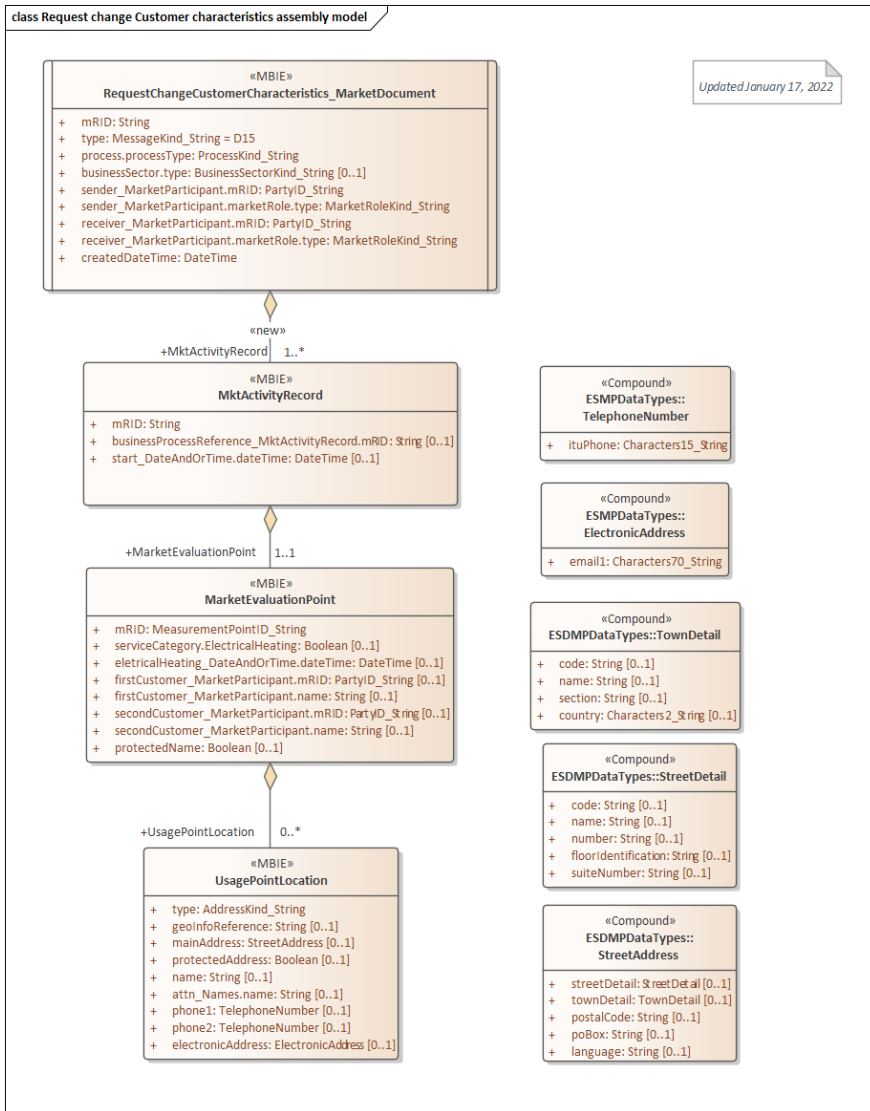


Figure 76 Request change Customer Characteristics assembly model

6.22.1.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D15	Request update Metering Point party
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument /Process / ProcessType	D20	Electrical heating
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	E34	Update master data consumer
MarketDocument /Process / ProcessType	E65	Customer move-in

6.22.1.5 Mapping from today's Danish documents to CIM document Request change Customer Characteristics

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen
Payload Master Data Metering Point Party Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Master Data Metering Point Party Event / Occurrence	1	MktActivityRecord / Start_DateAndOrTime / dateTime	Datetime	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Master Data Metering Point Party Event / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Master Data Metering Point Party Event / Metering Point Domain Location / Electrical Heating	0..1	MktActivityRecord / MarketEvaluationPoint / ServiceCategory / electricalHeating	Boolean	0..1	Angiver om elleverandøren eventuelt skal korrigere elafgiften. true = elvarme. Kun anvendes i forbindelse med elvarmeprocess
Payload Master Data Metering Point Party Event / Metering Point Domain Location / Electrical Heating Date	0..1	MktActivityRecord / MarketEvaluationPoint / EletricalHeating_DateAndOrTime / dateTime	DateTime	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ

⁴ Since NotifyMeteringpointmasterdata_MarketDocument is the root class, it is omitted in the table.

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
					Angiver start-tidspunkt (skærings-dato) for start af beregning. Ved beregning tages udgangspunkt i sidste DDMM. Anvendes ikke i denne meddelelse. Sættes af DataHub i elvarmeprocess. Dato vil være lig med gyldighedsdato
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / First Consumer Consumer Party / Name	0..1	MktActivityRecord / _MarketEvaluationPoint / FirstCustomer_MarketParticipant / name	An..132	0..1	Navn på person eller virksomhed
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / First Consumer Consumer Party / CPR	0..1	MktActivityRecord / MarketEvaluationPoint / FirstCustomer_MarketParticipant / mRID where attribute PartyID_String:: coding-Scheme = ARR (Social Security Number)	An..10	0..1	Denmark: 10 cifre Kundes personnummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / First Consumer Consumer Party / CVR	0..1	MktActivityRecord / MarketEvaluationPoint / FirstCustomer_MarketParticipant / mRID where attribute PartyID_String:: coding-Scheme = VA (VAT number)	An..8	0..1	Denmark: 8 cifre Virksomhedens CVR nummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / Name	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / name	An..132	0..1	Navn på person Hvis virksomhed må navn ikke udfyldes
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / CPR	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = ARR (Social Security Number)	An..10	0..1	10 cifre Kundes personnummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / CVR	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = VA (VAT number)	An..8	0..1	8 cifre Virksomhedens CVR nummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Protected Name	0..1	MktActivityRecord / MarketEvaluationPoint / protectedName	Boolean	0..1	Angiver om der er registreret navne- og adressebeskyttelse (hemmelig adresse) på et målepunkt. Hemmelig adresse = true. Protected Name anvendes for kundename Protected Address anvendes for hver kontakt adresse

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / MP Relation Type	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / type	An..3 Kode	0..1	ebIX®: 1 Postal address 3 Technical address Denmark: Typen af kontaktadresse. Teknisk adresse og Juridisk adresse D01 Technical address D04 Juridical address
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / DAR Reference	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / geoInfoReference	An..36	0..1	Udgives af de danske myndigheder
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Street Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : name	An..40	0..1	Vejnavn

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Street Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : code	An..4	0..1	Kode for vej
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Building Number	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : number	An..4 DK An..6 Uden- landsk	0..1	Husnummer
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Floor Identifi- cation	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : floorIdentifica- tion	An..4	0..1	Etage
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : suiteNumber	An..4	0..1	Dørnummer

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Party Address Location Address / Room Identification					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / City Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : name	An..25	0..1	Bynavn
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Municipality Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : code	An..3	0..1	Kommunekode
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / City Sub Division Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : section	An..34	0..1	Supplerende bynavn fx Erritsø
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : country	An..2	0..1	Der udveksles forkortelser - ikke navne. Tjekkes mod ISO 3166 2-Alpha kode.

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
MP Administrative Party / Administrative Party Address Location Address / Country Name					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Post Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / postalCode	An..10	0..1	Postnummer for Danmark <= 4 tegn, foranstillede nuller anvendes. For udenlandske kontaktadresser: <= 10 tegn
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Post Office Box	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / poBox	An..40	0..1	Postboks
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Protected Address	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / protectedAddress	Boolean	0..1	Angiver om der er registreret navne- og adressebeskyttelse (hemmelig adresse) på et målepunkt. Hemmelig adresse = true. Protected Name anvendes for kundenavne Protected Address anvendes for hver kontakt adresse
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / name	An..132	1	Navn på kontaktperson

Danish attribute	Card.	CIM attribute ⁴	Længde	Card.	Remark
Point Party Characteristic / Administrative Party MP Administrative Party / Name 1					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Attention	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / Attn_Names / name	An..40	0..1	Attention. Dette er et supplementsfelt til Navn. Det kan anvendes til attention eller c/o.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party /phone	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ituPhone/ phone1	An..15	1	Telefonnummer på kontakten. Angives med cifre og tegnet '+'.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Mobile	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ituPhone/ phone2	An..15	0..1	Mobilnummer på kontakten. Angives med cifre og tegnet '+'.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Email	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / electronicAddress	An..60	0..1	Angiver en e-mail til kontakten. Ved flere e- mails adskilles de med semikolon.

Table 37 Mapping of RSM 027 Request Customer characteristics

6.22.2 CIM based RSM 027 – Confirm request change Customer characteristics

6.22.2.1 Confirm request change Customer characteristics Contextual model

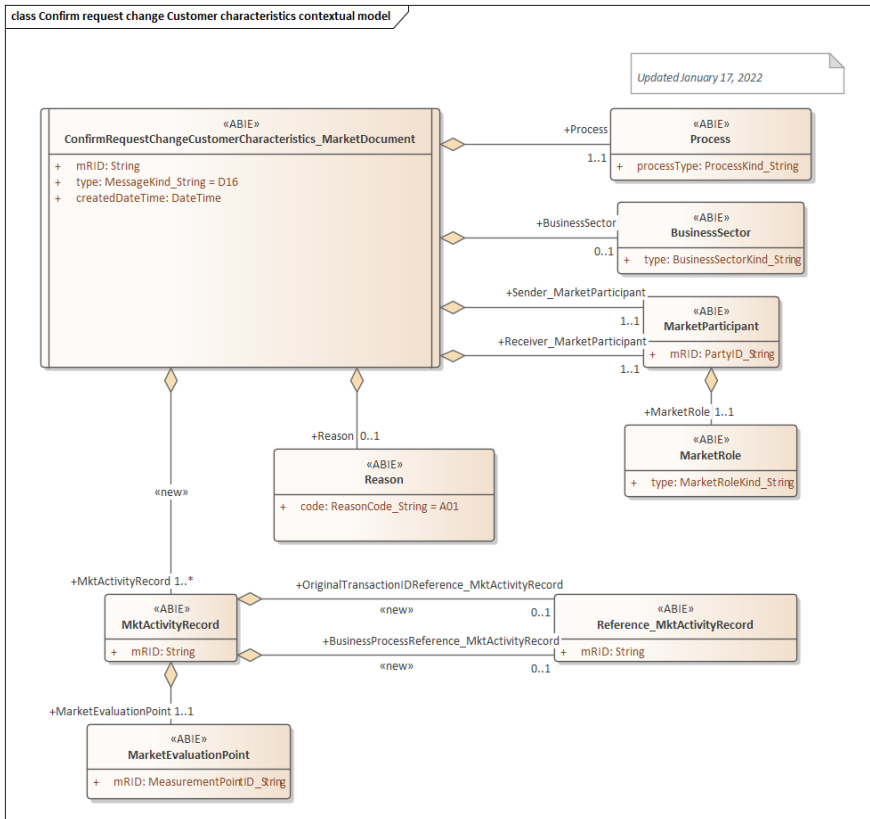


Figure 77: Class diagram: Confirm request change Customer characteristics Contextual model

6.22.2.2 Confirm request change Customer characteristics Assembly model

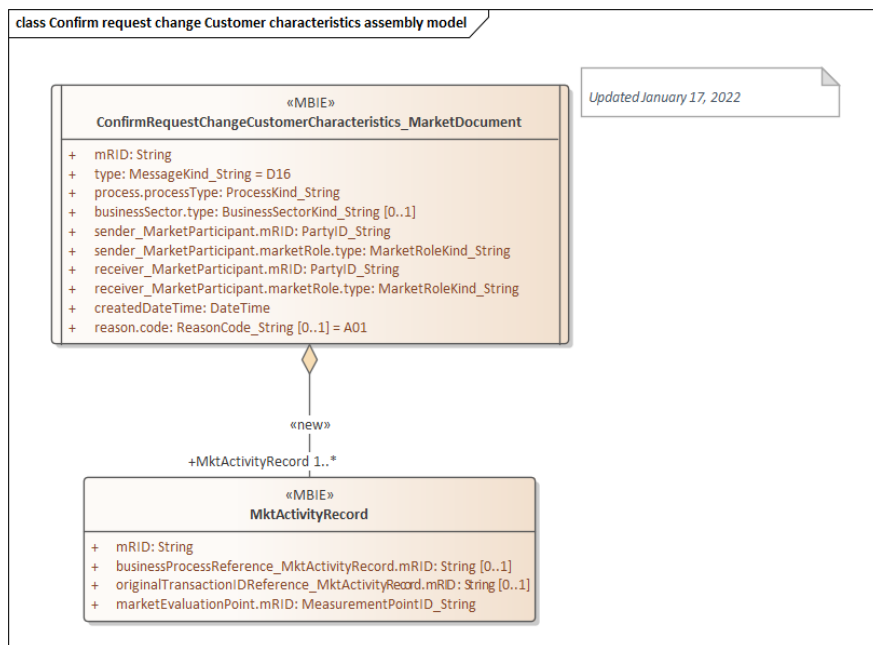


Figure 78: Class diagram: Confirm request change Customer characteristics Assembly model

6.22.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D16	Response update Metering Point party
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D20	Electrical heating
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	E34	Update master data consumer
MarketDocument /Process / ProcessType	E65	Customer move-in

6.22.2.4 Mapping from today's Danish documents to CIM document for Confirm request change Customer characteristics

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 38 RSM-027: Mapping of Confirm request change Customer characteristics

6.22.3 CIM based RSM 027 – Reject request change Customer characteristics

6.22.3.1 Reject request change Customer characteristics Contextual model

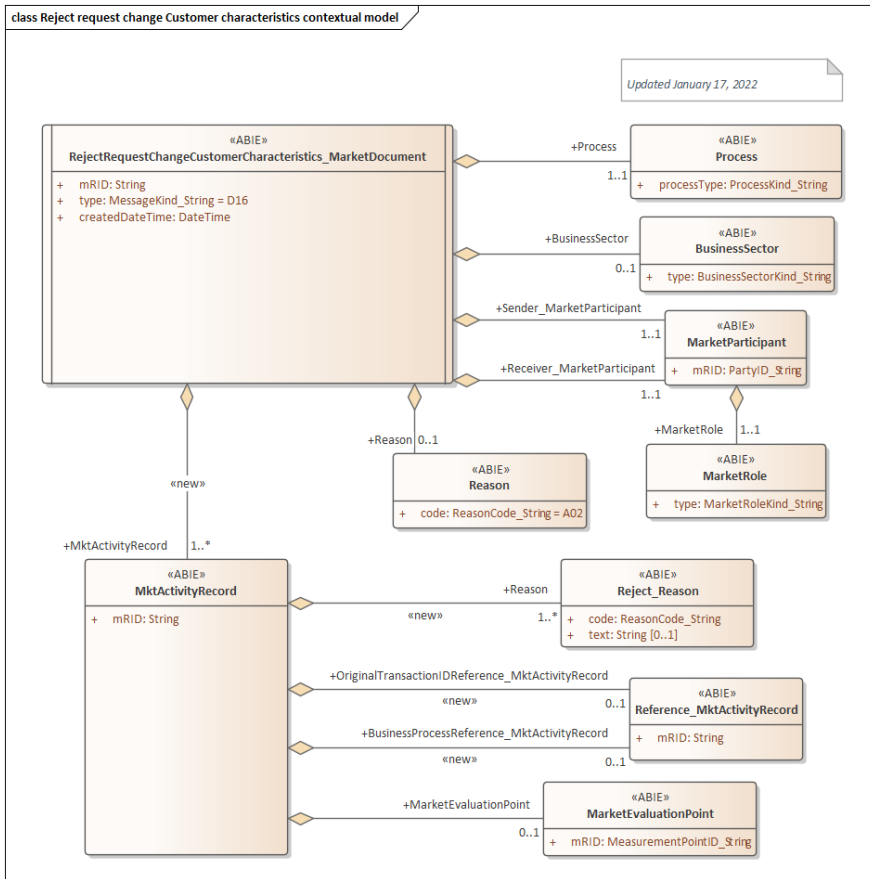


Figure 79: Class diagram: Reject request change Customer characteristics Contextual model

6.22.3.2 Reject request change Customer characteristics Assembly model

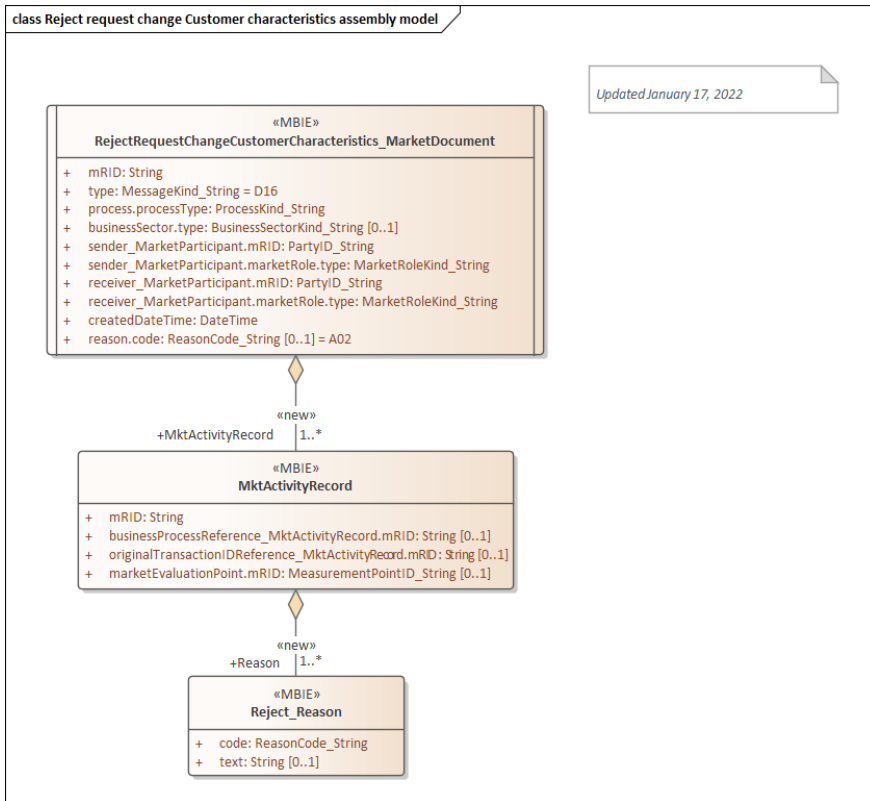


Figure 80: Class diagram: Reject request change Customer characteristics Assembly model

6.22.3.4 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D16	Response update Metering Point party
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D20	Electrical heating
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	E34	Update master data consumer
MarketDocument /Process / ProcessType	E65	Customer move-in

6.22.3.5 Mapping from today's Danish documents to CIM document for Reject request change Customer characteristics

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 39 RSM-027: Mapping of Reject request change Customer characteristics

6.23 CIM based RSM 028 Characteristics of a Customer at an AP

6.23.1 Characteristics of a Customer at an AP Contextual model

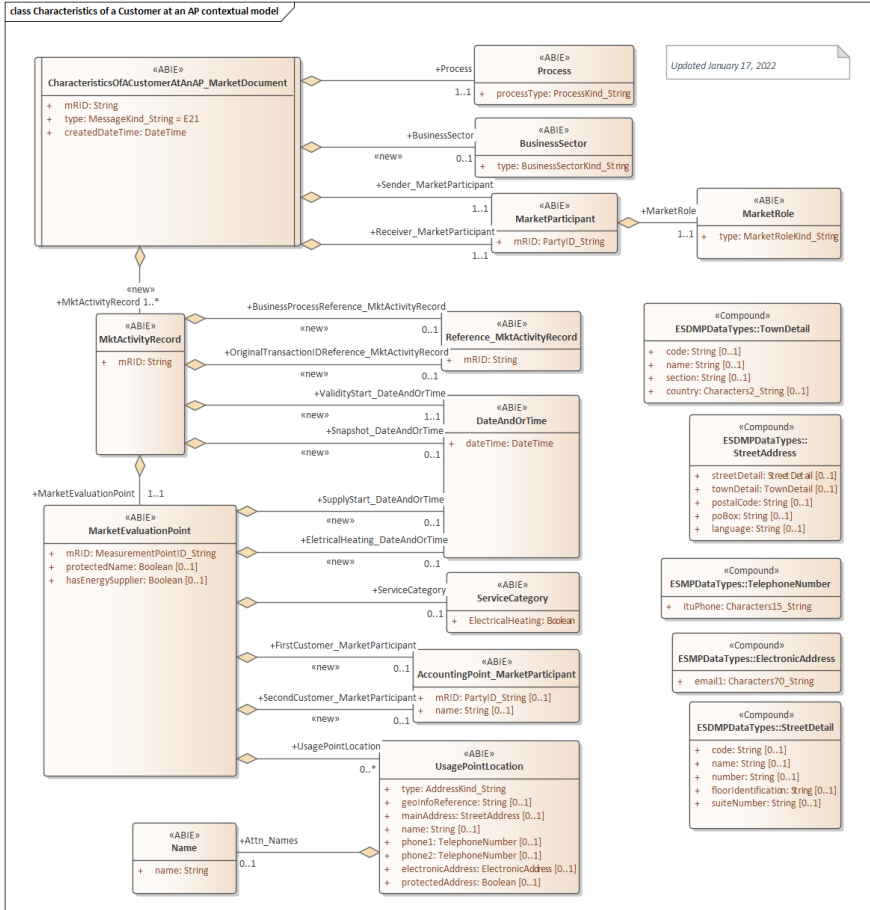


Figure 81 Characteristics of a Customer at an AP contextual model

6.23.2 Characteristics of a Customer at an AP Assembly model

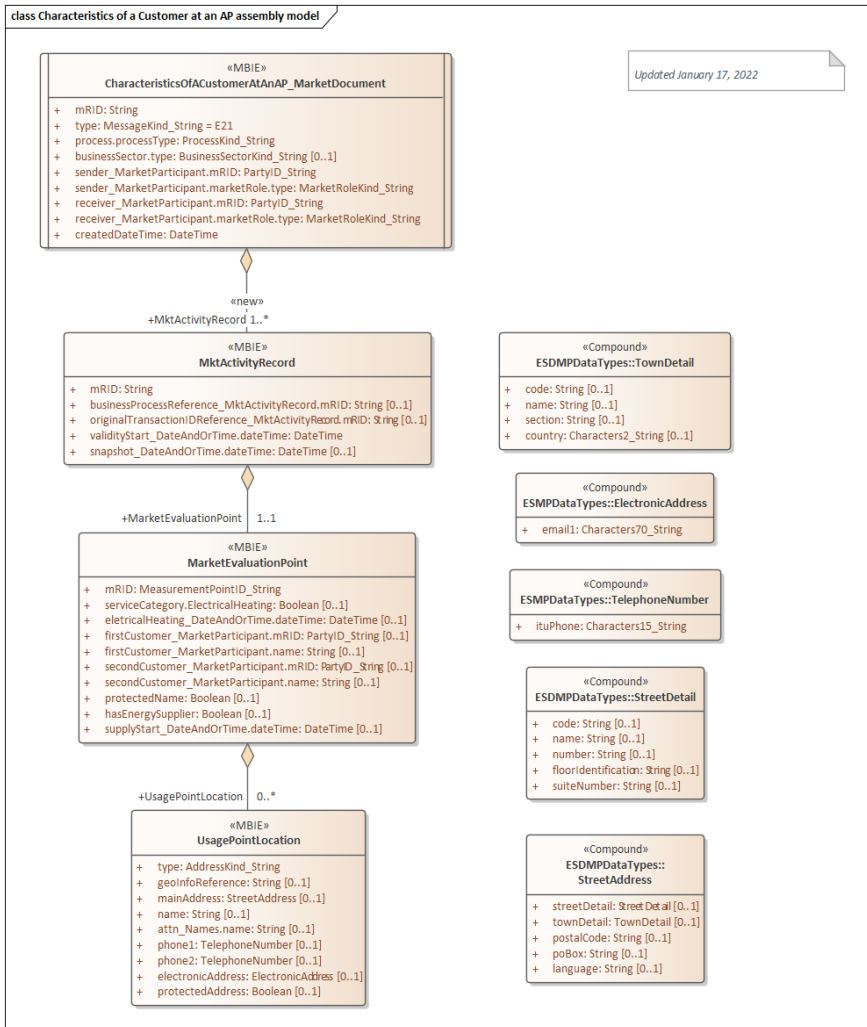


Figure 82 Characteristics of a Customer at an AP assembly model

6.23.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	E21	Master data, Consumer
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D20	Electrical heating
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument /Process / ProcessType	D33	Incorrect move
MarketDocument /Process / ProcessType	E03	Change of balance supplier
MarketDocument /Process / ProcessType	E0G	Data alignment for master data metering point
MarketDocument /Process / ProcessType	E20	End of supply
MarketDocument /Process / ProcessType	E34	Update master data consumer
MarketDocument /Process / ProcessType	E65	Customer move-in
MarketDocument /Process / ProcessType	E66	Customer move-out

6.23.4 Mapping from today's Danish documents to CIM document Characteristics of a Customer at an AP

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Master Data Metering Point Party Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Master Data Metering Point Party Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Bruges kun, som svar til en forespørgsel (request RSM-006)
Payload Master Data Metering Point Party Event / Occurrence	1	MktActivityRecord / ValidityStart_DateAndOrTime / dateTime	Date-Time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
		MktActivityRecord / Snapshot_DateAndOrTime / dateTime		0..1	Currently Bruges ikke i DataHub 3.0,
Payload Master Data Metering Point Party Event / Metering Point Domain Location / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

⁵ Since NotifyMeteringpointmasterdata_MarketDocument is the root class, it is omitted in the table.

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Domain Location / Electrical Heating	0..1	MktActivityRecord / MarketEvaluationPoint / ServiceCategory / electricalHeating	Boolean	0..1	Angiver om elleverandøren eventuelt skal korrigere elafgiften. true = elvarme
Payload Master Data Metering Point Party Event / Metering Point Domain Location / Electrical Heating Date	0..1	MktActivityRecord / MarketEvaluationPoint / EletricalHeating_DateAndOrTime / dateTime	Date-Time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver start-tidspunkt (skærings-dato) for start af beregning. Ved beregning tages udgangspunkt i sidste DDMM.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Charateristic / First Consumer Consumer Party / Name	0..1	MktActivityRecord / _MarketEvaluationPoint / FirstCustomer_MarketParticipant / name	An..132	0..1	Navn på person eller virksomhed
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Charateristic / First Consumer Consumer Party / CPR	0..1	MktActivityRecord / MarketEvaluationPoint / FirstCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = ARR (Social Security Number)	An..10	0..1	Denmark: 10 cifre Kundes personnummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Charateristic / First Consumer Consumer Party / CVR	0..1	MktActivityRecord / MarketEvaluationPoint / FirstCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = VA (VAT number)	An..8	0..1	Denmark: 8 cifre Virksomhedens CVR nummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / Name	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / name	An..132	0..1	Navn på person Hvis virksomhed må navn ikke udfyldes
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / CPR	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = ARR (Social Security Number)	An..10	0..1	Denmark: 10 cifre Kundes personnummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Second Consumer Consumer Party / CVR	0..1	MktActivityRecord / MarketEvaluationPoint / SecondCustomer_MarketParticipant / mRID, where attribute PartyID_String:: coding-Scheme = VA (VAT number)	An..8	0..1	8 cifre Virksomhedens CVR nummer Indhold af felt slettes ved at indsende felt blankt med angivelse af ARR i CodingScheme
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Protected Name	0..1	MktActivityRecord / MarketEvaluationPoint / protectedName	Boolean	0..1	Angiver om der er registreret navne- og adressebeskyttelse (hemmelig adresse) på et målepunkt. Hemmelig adresse = true. Protected Name anvendes for kundenavne Protected Address anvendes for hver kontakt adresse
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering	0..1	MktActivityRecord / MarketEvaluationPoint / hasEnergySupplier	Boolean	0..1	Angiver om der er en aktiv elleverandør på målepunkt

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Point Party Characteristic / Has Energy Supplier					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Supply Start	0..1	MktActivityRecord / MarketEvaluationPoint / SupplyStart_DateAndOrTime / dateTime	Date-time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ Dato for elleverandørens start af leverance
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / MP Relation Type	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / type	An..3 Kode	0..1	Denmark: Typen af kontaktadresse. Teknisk adresse og Juridisk adresse D01 Technical address D04 Juridical address
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / DAR Reference	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / geoInfoReference	An..36	0..1	Udgives af de danske myndigheder

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Street Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : name	An..40	0..1	Vejnavn
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Street Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : code	An..4	0..1	Kode for vej
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Building Number	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : number	An..4 DK An..6 Udenlandsk	0..1	Husnummer
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party /	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : floorIdentification	An..4	0..1	Etag

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Administrative Party Address Location Address / Floor Identification					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Room Identification	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / StreetDetail : suiteNumber	An..4	0..1	Dørnummer
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / City Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : name	An..25	0..1	Bynavn
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Municipality Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : code	An..3	0..1	Kommunekode

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / City Sub Division Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : section	An..34	0..1	Supplerende bynavn fx Erritsø
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Country Name	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / TownDetail : country	An..2	0..1	Der udveksles forkortelser - ikke navne. Tjekkes mod ISO 3166 2-Alpha kode.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Administrative Party Address Location Address / Post Code	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / postalCode	An..4 DK An..10 kontakt	0..1	Postnummer for Danmark <= 4 tegn, foranstillede nuller anvendes. For udenlandske kontaktadresser: <= 10 tegn
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party /	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / mainAddress : StreetAddress / poBox	An..40	0..1	Postboks

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Administrative Party Address Location Address / Post Office Box					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Name 1	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / name	An..132	1	Navn på kontaktperson
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Attention	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / Attn_Names / name	An..40	0..1	Attention. Dette er et supplementsfelt til Navn. Det kan anvendes til attention eller c/o.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / phone	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ituPhone/ phone1	An..15	1	Telefonnummer på kontakten. Angives med cifre og tegnet '+'.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Mobile	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / ituPhone/ phone2	An..15	0..1	Mobilnummer på kontakten. Angives med cifre og tegnet '+'.
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / electronicAddress	An..60	0..1	Attention. Dette er et supplementsfelt til Navn. Det kan anvendes til attention eller c/o.

Danish attribute	Card.	CIM attribute ⁵	Længde	Card.	Remark
Point Party Characteristic / Administrative Party MP Administrative Party / Email					
Payload Master Data Metering Point Party Event / Metering Point Party Detail Metering Point Party Characteristic / Administrative Party MP Administrative Party / Protected Address	0..1	MktActivityRecord / MarketEvaluationPoint / UsagePointLocation / protectedAddress	Boolean	0..1	Angiver om der er registreret navne- og adressebeskyttelse (hemmelig adresse) på et målepunkt. Hemmelig adresse = true. Protected Name anvendes for kundenavne Protected Address anvendes for hver kontakt adresse

Table 40 Mapping of RSM 028 Characteristics of a Customer at an AP

6.24 CIM based RSM 029 Confirm request Customer characteristics

Denne besked er beskrevet i afsnit 6.23 CIM based RSM 028 Characteristics of a Customer at an AP.

6.25 CIM based RSM 030 Request change billing master data

6.25.1 Request change billing master data

6.25.1.1 Request change billing master data Contextual model

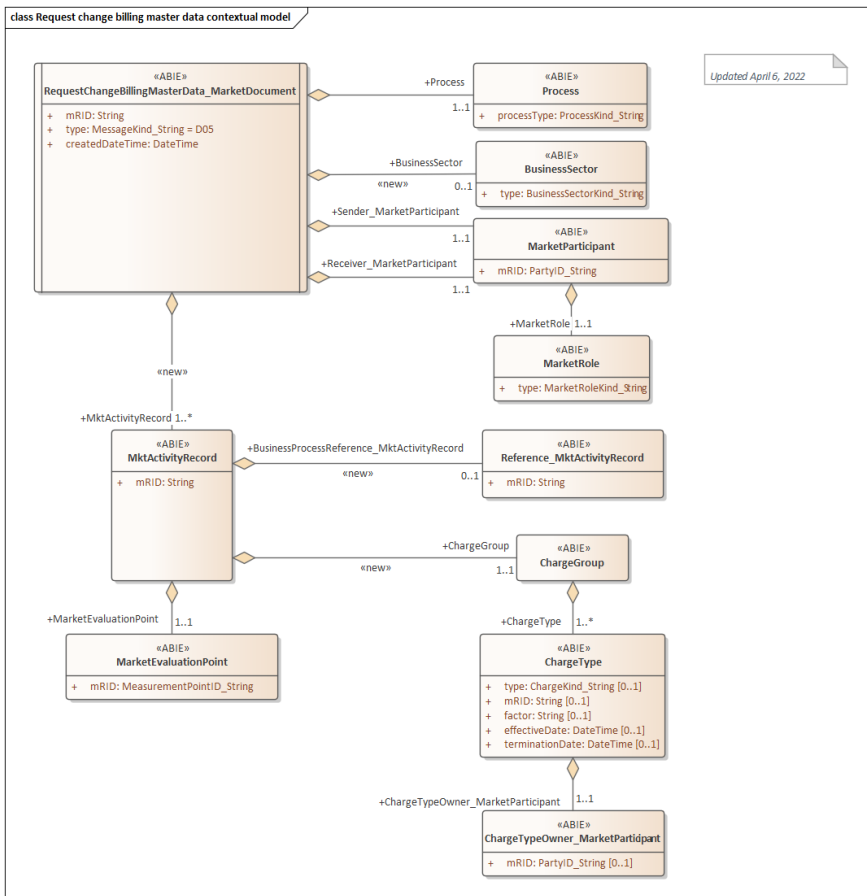


Figure 83 Request change billing master data contextual model

6.25.1.2 Request change billing master data Assembly mode

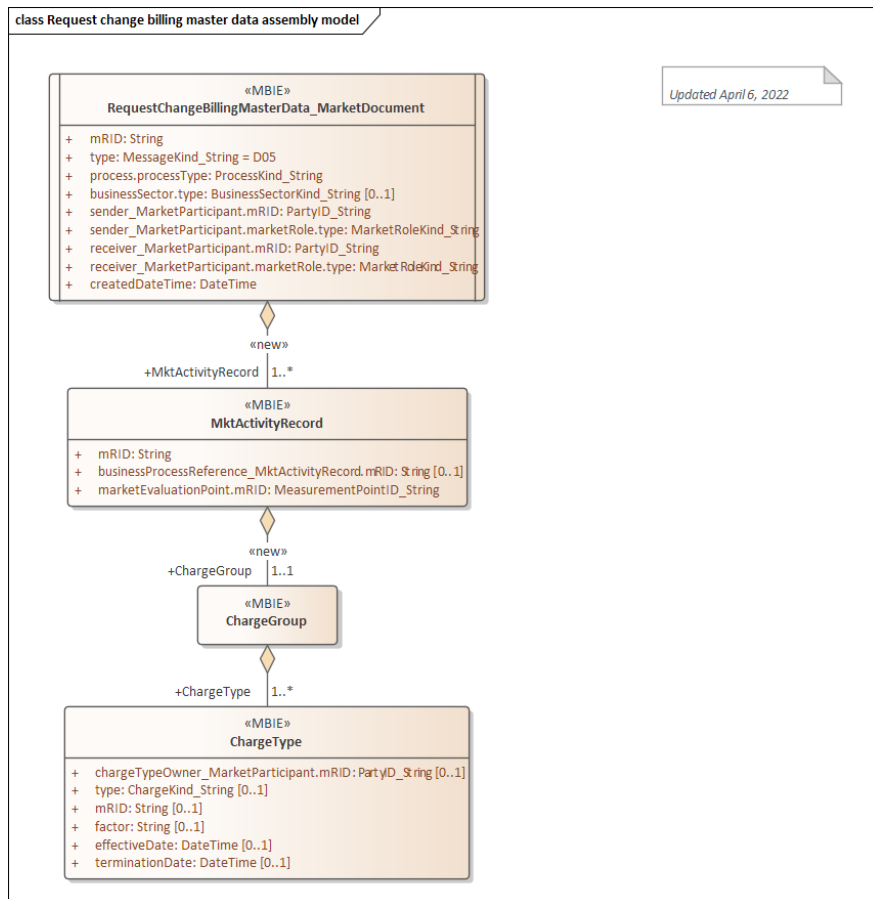


Figure 84 Request change billing master data assembly model

6.25.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D05	Request Update Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	D17	Update masterdata settlement

6.25.1.4 Mapping from today's Danish documents to CIM document Request change billing master data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Charge Event / Business Process ID		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Metering Point Domain Location / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	An..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Charge Event / Related Charge Information / Occurrence	1	MktActivityRecord / ChargeGroup / ChargeType / effectiveDate	Date-Time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt
Payload Charge Event / Related Charge Information / Occurrence		MktActivityRecord / ChargeGroup / ChargeType / terminationDate	Date-Time	0..1	(skæringsdato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Related Charge Information / Charge Type Owner Energy Party / Identification	1	MktActivityRecord / ChargeGroup / ChargeType / ChargeTypeOwner_MarketParticipant / mRID	An..16	1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Related Charge Information / Charge Type	1	MktActivityRecord / ChargeGroup / Charge-Type / type	An..3	1	Prislistetype: Gebyr, Tarif eller abonnement
Payload Charge Event / Related Charge Information / Party Charge Type ID	1	MktActivityRecord / ChargeGroup / Charge-Type / mRID	An..10	1	Aktørens eget ID
Payload Charge Event / Related Charge Information / Charge Occurrence	1	MktActivityRecord / ChargeGroup / Charge-Type / factor	AN..9	1	Antal af gange det samme abonnement eller gebyr skal opkræves. (1-999.999.999)

Table 41 Mapping of RSM 030 Request billing master data

6.25.2 CIM based RSM 030 – Confirm request change billing master data

6.25.2.1 Confirm request change billing master data Contextual model

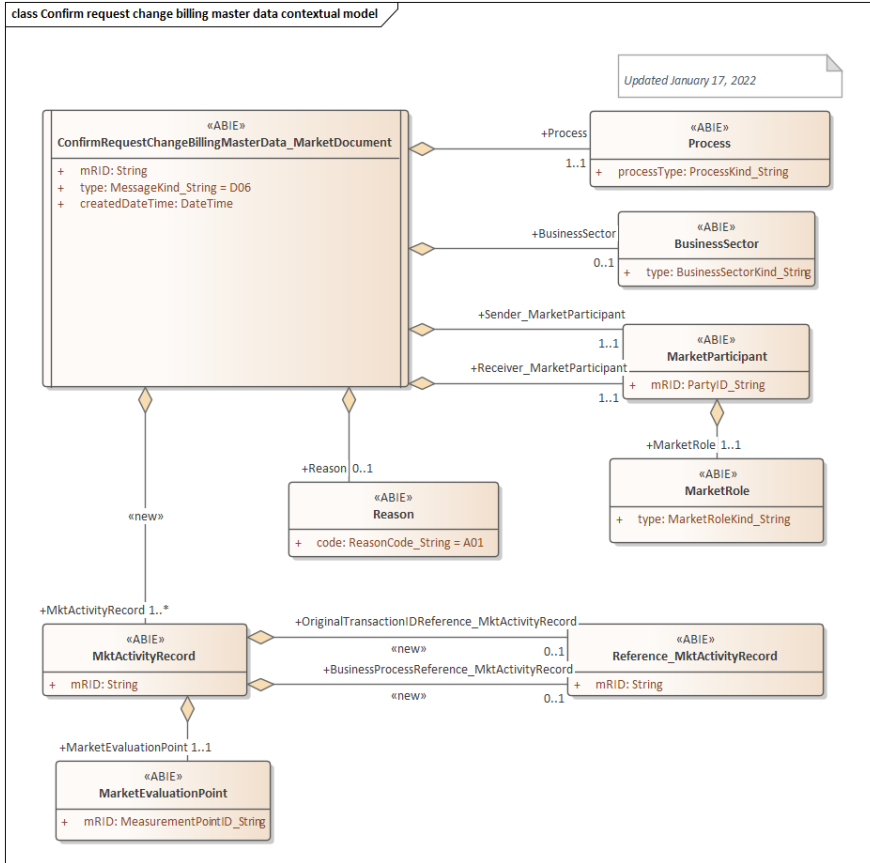


Figure 85: Class diagram: Confirm request change billing master data Contextual model

6.25.2.2 Confirm request change billing master data Assembly model

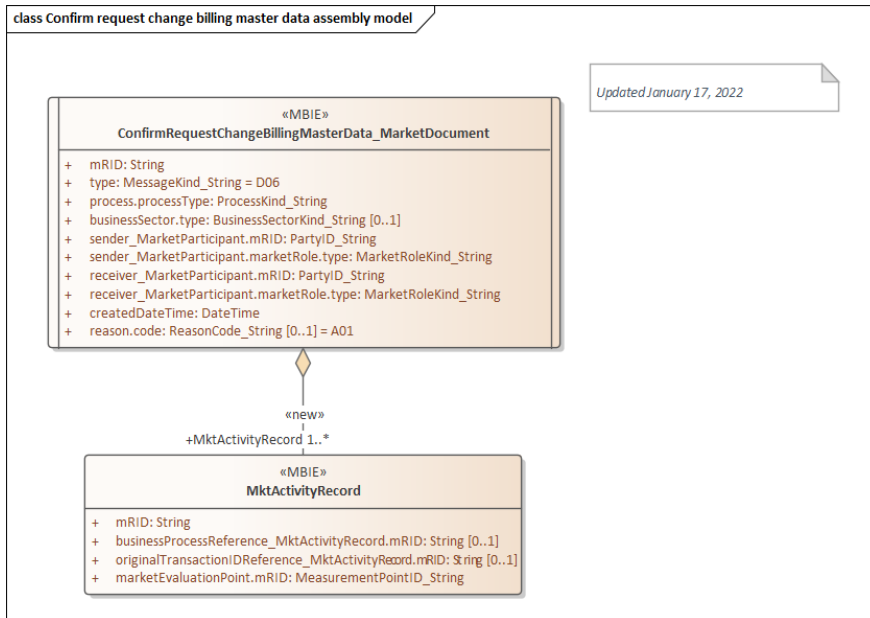


Figure 86: Class diagram: Confirm request change billing master data Assembly model

6.25.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D06	Response Update Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Process / ProcessType	D17	Update masterdata settlement

6.25.2.4 Mapping from today's Danish documents to CIM document for Confirm request change billing master data

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfSupplier_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse Mandatory
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10

Table 42 RSM-030: Mapping of Confirm request change billing master data

6.25.3.2 Reject request change billing master data Assembly model

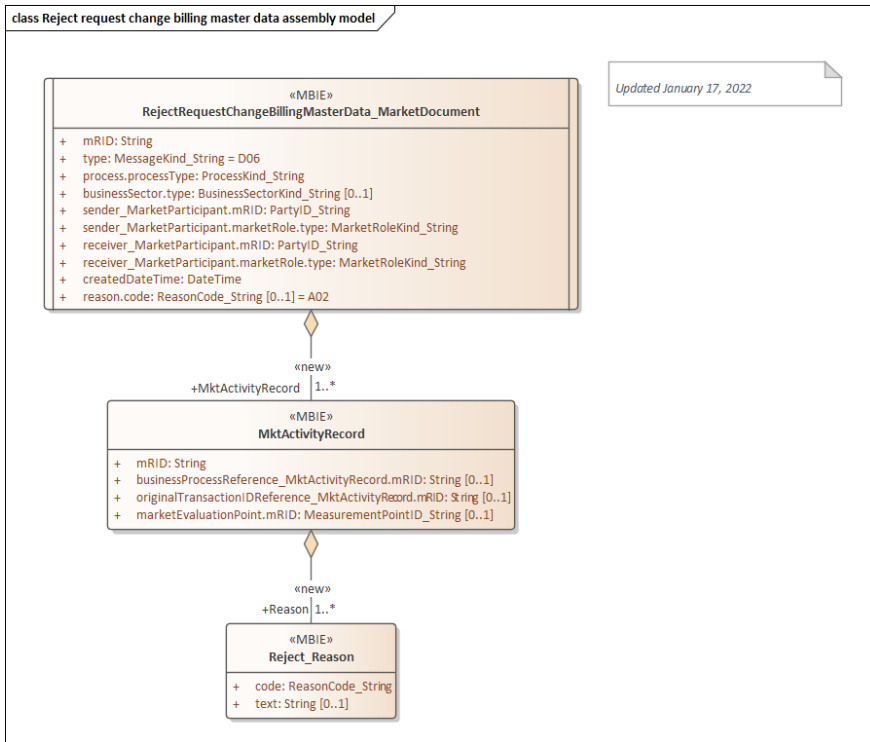


Figure 88: Class diagram: Reject request change billing master data Assembly model

6.25.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D06	Response Update Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Process / ProcessType	D17	Update masterdata settlement

6.25.3.4 Mapping from today's Danish documents to CIM document for Reject request change billing master data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 43 RSM-030: Mapping of Reject request change billing master data

6.26 CIM based RSM-031 – Notify billing master data

6.26.1 Notify billing master data contextual model

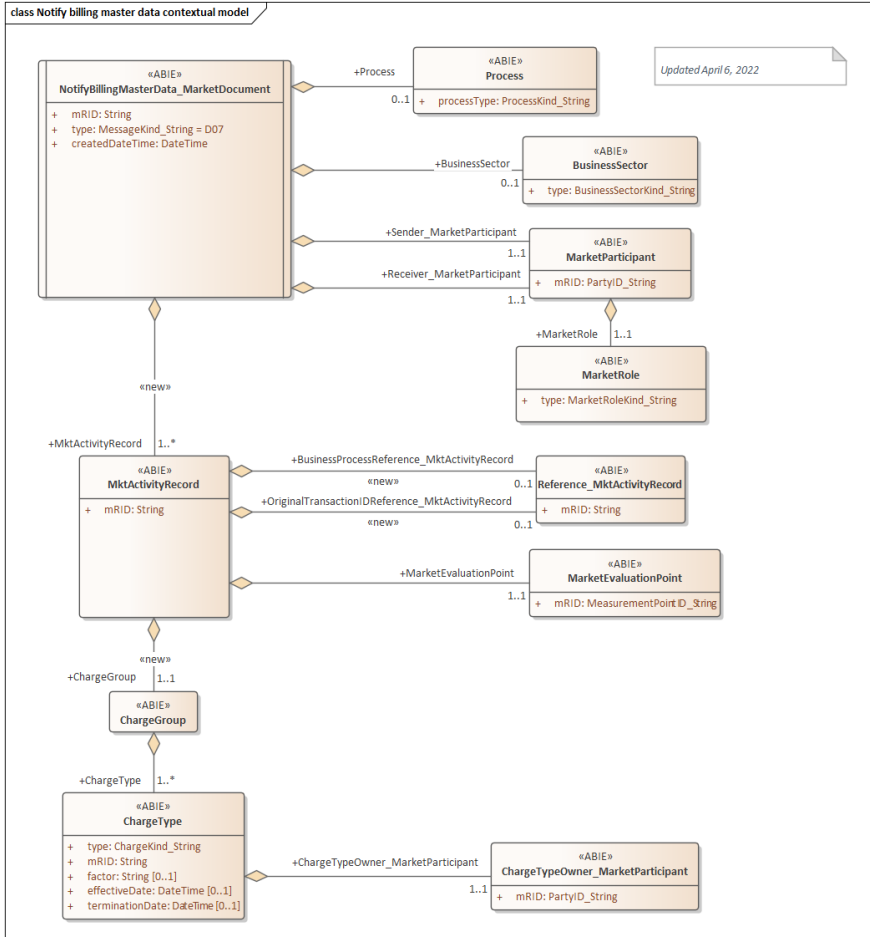


Figure 89: Class diagram: Notify billing master data contextual model

6.26.2 Notify billing master data assembly model

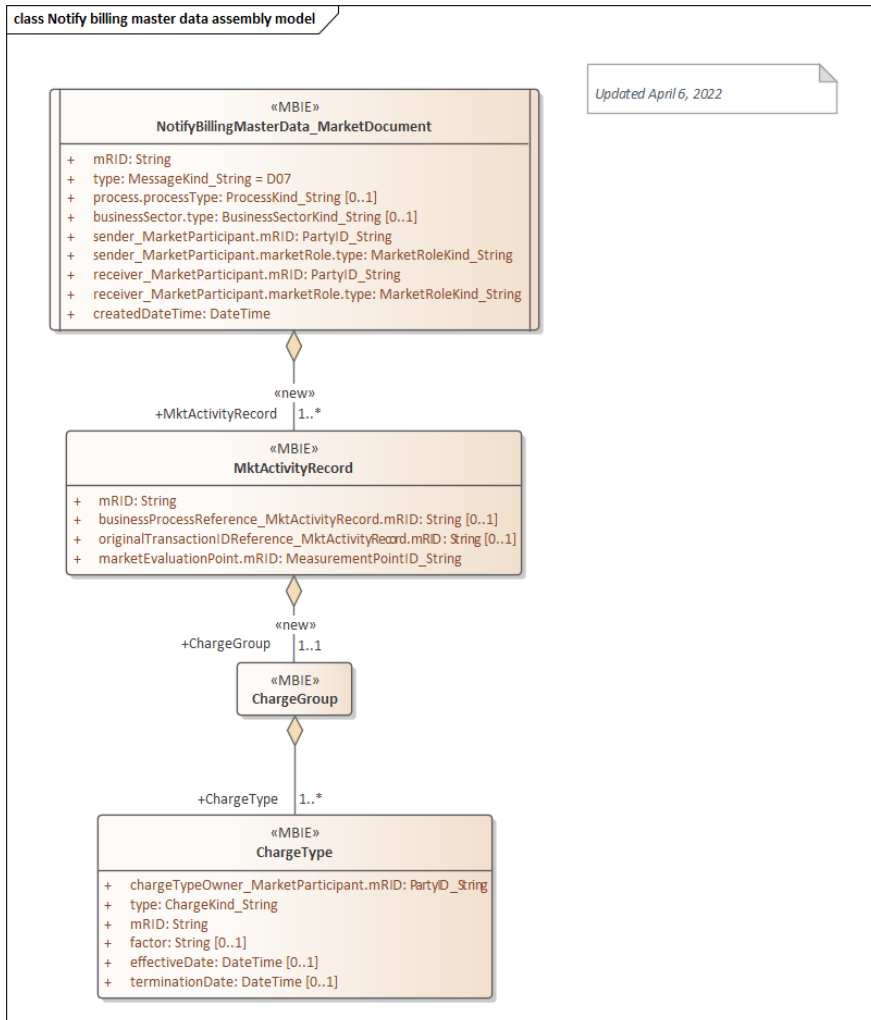


Figure 90: Class diagram: Notify billing master data assembly model

6.26.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D07	Notify Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid Access Provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument /Process / ProcessType	D07	Rollback Change-of-supplier
MarketDocument /Process / ProcessType	D17	Update masterdata settlement
MarketDocument /Process / ProcessType	D21	Move-in due to other reason
MarketDocument /Process / ProcessType	D29	Secondary move-in
MarketDocument /Process / ProcessType	D30	Switch with short notice
MarketDocument /Process / ProcessType	D31	Transfer metering point
MarketDocument /Process / ProcessType	D33	Incorrect move
MarketDocument /Process / ProcessType	D36	Continue supply of customer
MarketDocument /Process / ProcessType	E02	New metering point
MarketDocument /Process / ProcessType	E06	Unrequested change of balance supplier
MarketDocument /Process / ProcessType	E32	Update master data metering point
MarketDocument /Process / ProcessType	E65	Customer move-in

6.26.4 Mapping from today's Danish documents to CIM based Notify billing master data assembly model

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Charge Event / Business Process ID		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Only used in a response to a request (RSM 032)
Payload Charge Event / Metering Point Domain Location / Metering Point Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Charge Event / Related Charge Information / Datetime	1	MktActivityRecord / ChargeGroup / ChargeType / effectiveDate	Date-Time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) og sluttidspunkt for proces.
Payload Charge Event / Related Charge Information / Datetime		MktActivityRecord / ChargeGroup / ChargeType / terminationDate	Date-Time	0..1	Format: YYYY-MM-DDThh:mm:ssZ
Payload Charge Event / Related Charge Information / Charge Type Owner Energy Party / Identification	1	MktActivityRecord / ChargeGroup / ChargeType / ChargeTypeOwner_MarketParticipant / mRID	An..16	1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN.

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
					CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Charge Event / Related Charge Information / Charge Type	1	MktActivityRecord / ChargeGroup / Charge-Type / type	An..3 Kode	1	Prislistetype: Gebyr, Tarif eller abonnement
Payload Charge Event / Related Charge Information / Party Charge Type ID	1	MktActivityRecord / ChargeGroup / Charge-Type / mRID	An..10	1	Aktørens eget ID
Payload Charge Event / Related Charge Information / Charge Occurrence	1	MktActivityRecord / ChargeGroup / Charge-Type / factor	An..9	1	Antal af gange det samme abonnement eller gebyr skal opkræves. (1-999.999.999)

Table 44 Mapping of RSM-031: Notify billing master data assembly model

6.27 CIM based RSM 032 – Request billing master data

6.27.1 Request billing master data

6.27.1.1 Request billing master data Contextual model

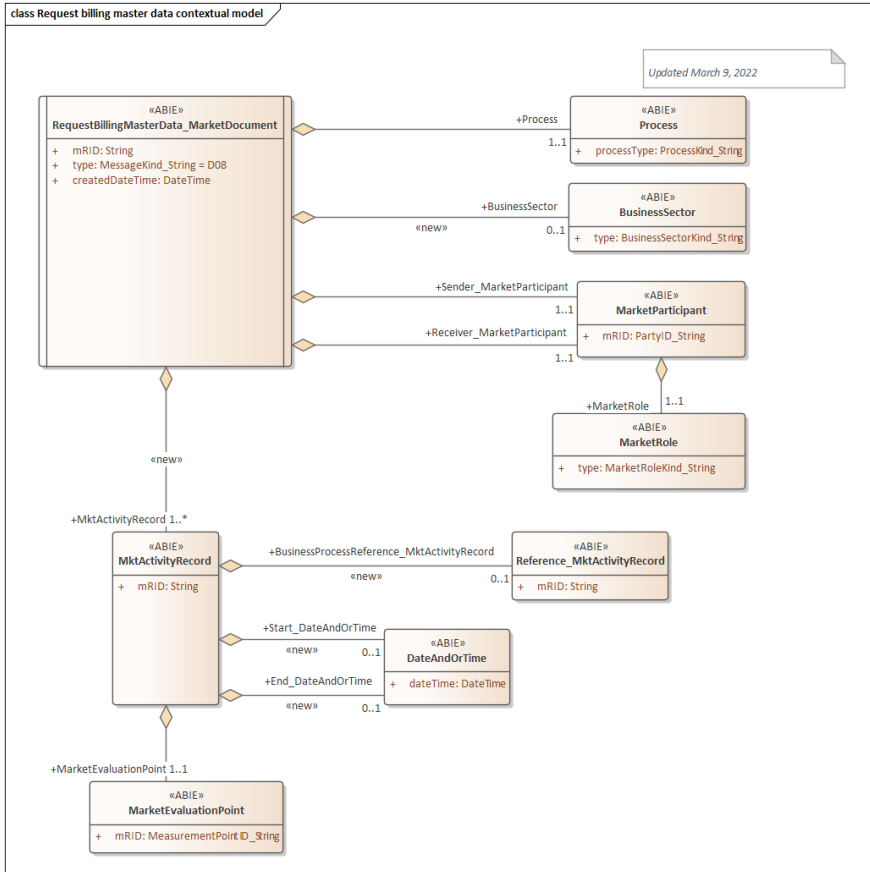


Figure 91: Class diagram: Request billing master data Contextual model

6.27.1.2 Request billing master data Assembly model

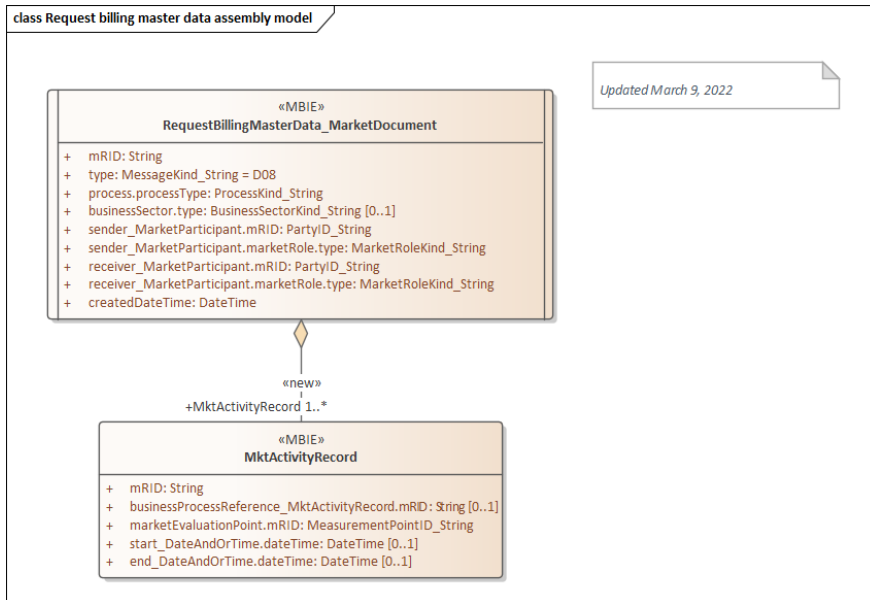


Figure 92: Class diagram: Request billing master data Assembly model

6.27.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D08	Query Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	EOG	Data alignment for master data metering point

6.27.1.4 Mapping from today's Danish documents to CIM document for Request billing master data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload MP Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
		MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload MP Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	En..18	1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload MP Event / Related Charge Charge Information / Start	1	MktActivityRecord / Start_DateAndOrTime / date- Time	Date- time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skærings- dato) for proces.
Payload MP Event / Related Charge Charge Information / End	0..1	MktActivityRecord / End_DateAndOrTime / date- Time	Date- time	0..1	Format: YYYY-MM-DDThh:mm:ssZ Hvis udeladt stamdata pr. dags dato. Hvis start angives uden slut, så øjebliksbillede af stamdata på en bestemt dag

Table 45 RSM-032: Mapping of Request billing master data

6.27.2 Confirm request billing master data

6.28 Denne besked er beskrevet i afsnit 6.26,

CIM based RSM-031 – Notify billing master data.

6.28.1 CIM based RSM 032 – Reject request billing master data

6.28.1.1 Reject request billing master data Contextual model

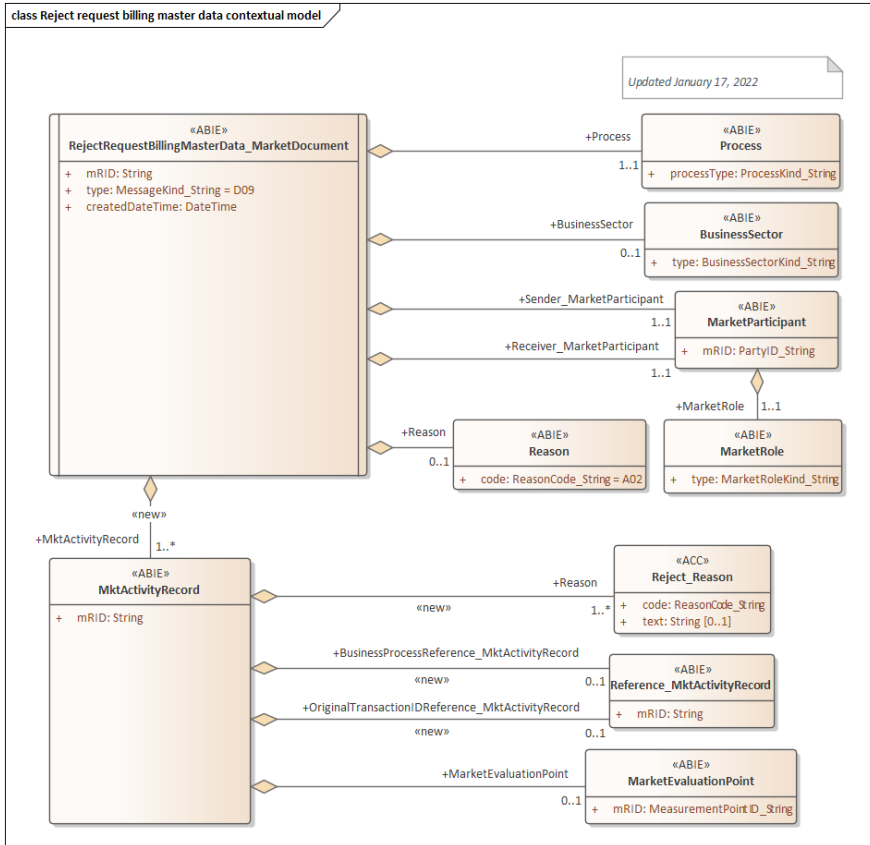


Figure 93: Class diagram: Reject request billing master data Contextual model

6.28.1.2 Reject request billing master data Assembly model

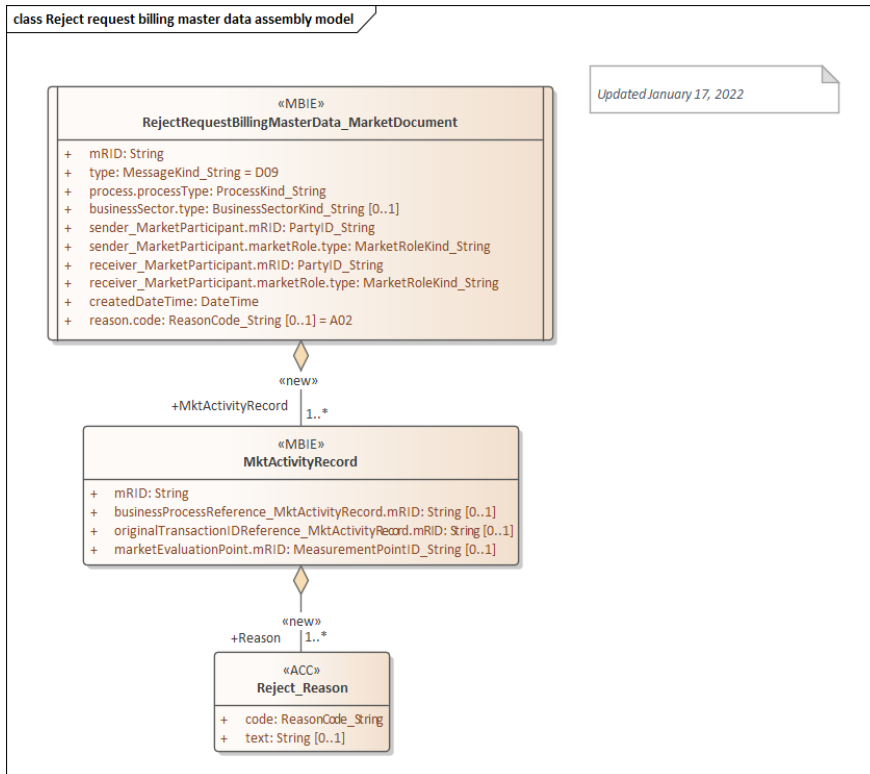


Figure 94: Class diagram: Reject request billing master data Assembly model

6.28.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D09	Response Master Data Charge
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid Access Provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Process / ProcessType	EOG	Data alignment for master data metering point

6.28.1.4 Mapping from today's Danish documents to CIM document for Reject request billing master data

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code	An..3 kode	0..1	A02 Message fully rejected
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen. Transaktion ID er mandatory
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Response Event / Metering Point Domain Location / Identification	1	MktActivityRecord / MarketEvaluationPoint / mRID	AN..18	0..1	Entydig identifikation af et målepunkt. GSRN = 18 cifre. CodingScheme = A10
Payload Response Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Response Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 46 RSM-032: Mapping of Reject request billing master data

6.29 CIM based RSM-033 – Price List

6.29.1 Request change of Price List

6.29.1.1 Request change of Price List contextual model

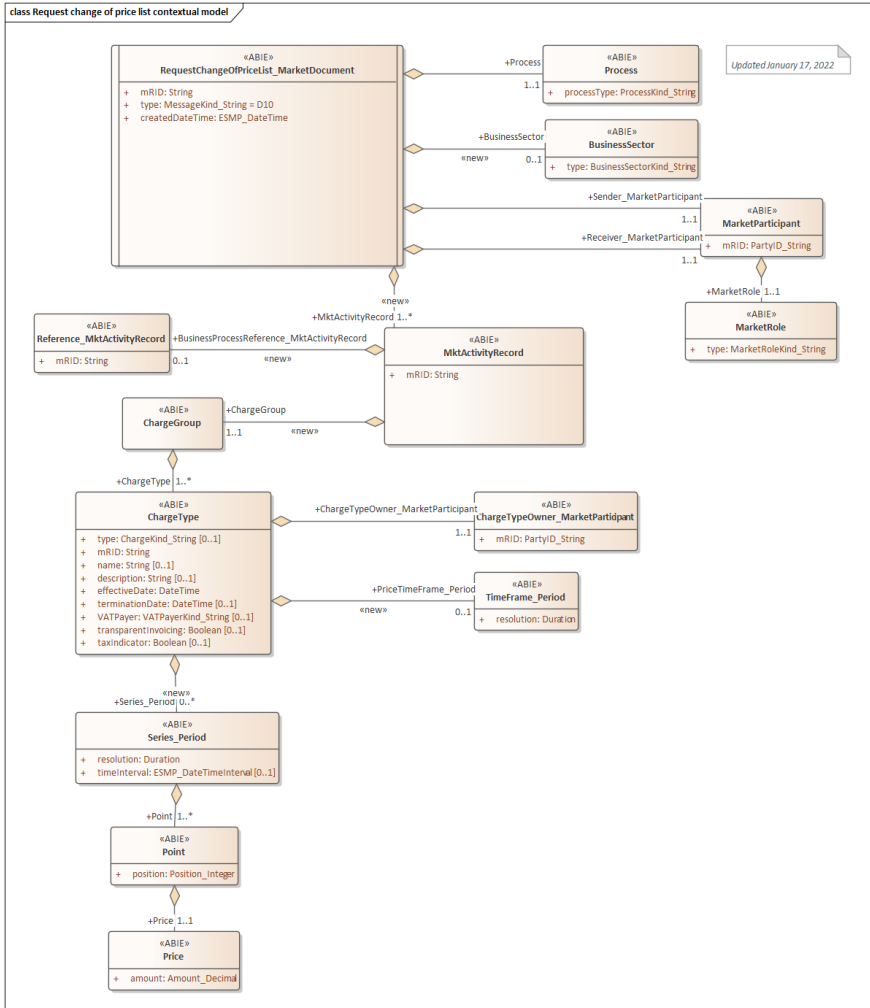


Figure 95: Class diagram: Request change of Price List contextual model

6.29.1.2 Request change of Price List assembly model

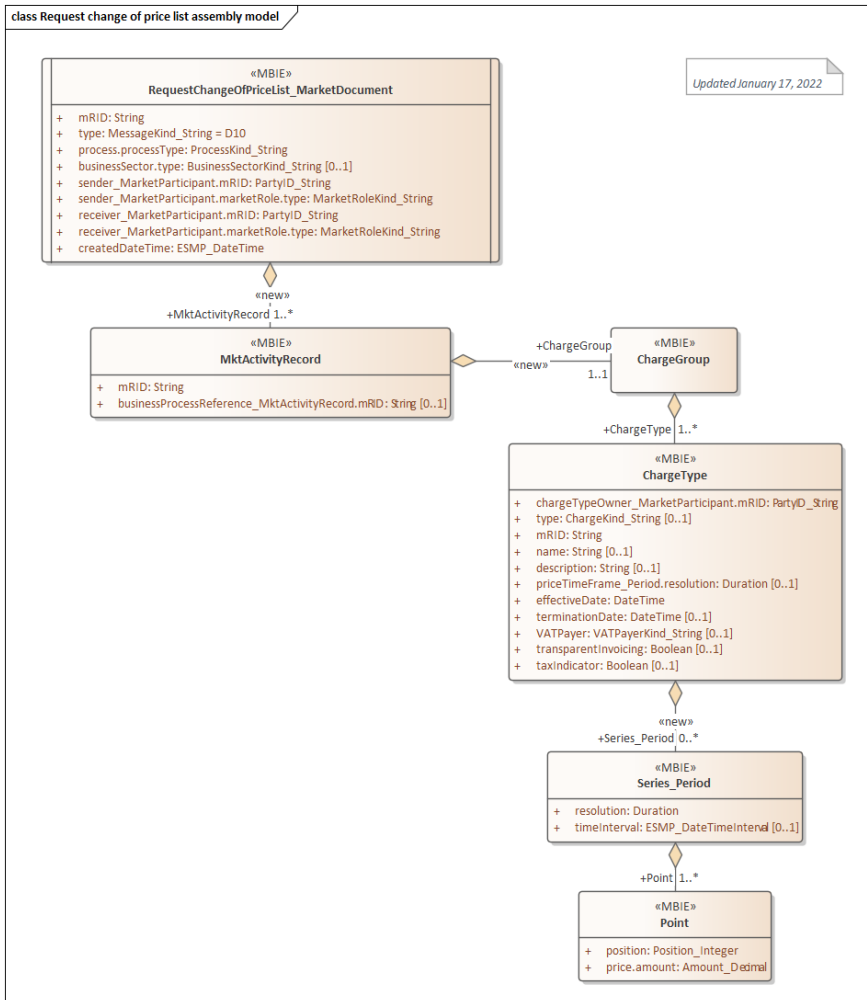


Figure 96: Class diagram: Request change of Price List assembly model

6.29.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D10	Request update charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	D08	Update Charge Prices
MarketDocument / Process / ProcessType	D18	Update Charge Masterdata

6.29.1.4 Mapping from today's Danish documents to CIM based Request change of Price List

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Identification	1	MktActivityRecord / mRID	AN..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Charge Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	AN..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Related Charge Charge Information / Charge Type Owner Energy Party / Identification	1	MktActivityRecord / ChargeGroup / ChargeType / ChargeTypeOwner_Market-Participant / mRID	An..16	0..1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Charge Event / Related Charge Charge Information / Charge Type	1	MktActivityRecord / ChargeGroup / ChargeType / type	An..3 Kode	0..1	Prislistetype: Fee, Tariff or Subscription
Payload Charge Event / Related Charge Charge Information / Party Charge Type ID	1	MktActivityRecord / ChargeGroup / ChargeType / mRID	An..10	1	Aktørens eget ID
Payload Charge Event / Related Charge Charge Information / Description	1	MktActivityRecord / ChargeGroup / ChargeType / name	An..132	0..1	Navnet på priselementet. Skal eventuelt angives på regningen.
Payload Charge Event / Related Charge Charge Information / Long Description	1	MktActivityRecord / ChargeGroup / ChargeType / description	An..2048	0..1	En forklarende tekst om priselementet

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
		MktActivityRecord / ChargeGroup / ChargeType / effectiveDate	Date-Time	1	Implemented according to ebIX® principles as Start date [1] and End date [0..1]
		MktActivityRecord / ChargeGroup / ChargeType / terminationDate	Date-Time	0..1	
Payload Charge Event / Related Charge Charge Information / VAT Payer	1	MktActivityRecord / ChargeGroup / ChargeType / VATPayer	An..3 kode	0..1	Angiver om der er moms medtaget.
Payload Charge Event / Related Charge Charge Information / Transparent Invoicing	1	MktActivityRecord / ChargeGroup / ChargeType / transparentInvoicing	Boolean	0..1	Angiver om elleverandøren skal synliggøre priselementet på kundefakturaen. true = Viderefakturering
Payload Charge Event / Related Charge Charge Information / Tax Indicator	1	MktActivityRecord / ChargeGroup / ChargeType / taxIndicator	Boolean	0..1	Angiver om en tarif er en afgift eller ej. true = priselement er en afgift
		MktActivityRecord / ChargeGroup / ChargeType / PriceTimeFrame_Period / resolution	String	0..1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time
Payload Charge Event / Related Charge Charge Information / Observation Time Series Period / Time Interval	0..1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / timeInterval : start	Date-time	0..1	Timeinterval er af typen ESMP_ DateTime-Interval, som har to attributter: Start og End
Payload Charge Event / Related Charge Charge Information / Observation Time Series Period / Time Interval	0..1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / timeInterval : end	Date-time	0..1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mmZ

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Related Charge Charge Information / Observation Time Series Period / Resolution Duration	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / resolution	String	1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time
RelatedChargeChargeInformation / Interval Energy Observation / Position	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / Point / position	An..2	1	Den relative position for en periode i et interval. Positionen er angivet ved et numerisk heltal startende med 1
RelatedChargeChargeInformation / Interval Energy Observation / Energy Price	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / Point / Price / amount	Amount_Decimal	1	Dkk pr. kvantum med op til og med seks decimalers nøjagtighed

Table 47 Mapping of RSM-033: Request change of Price List

6.29.2 Confirm request change of Price List

6.29.2.1 Confirm request change of Price List contextual model

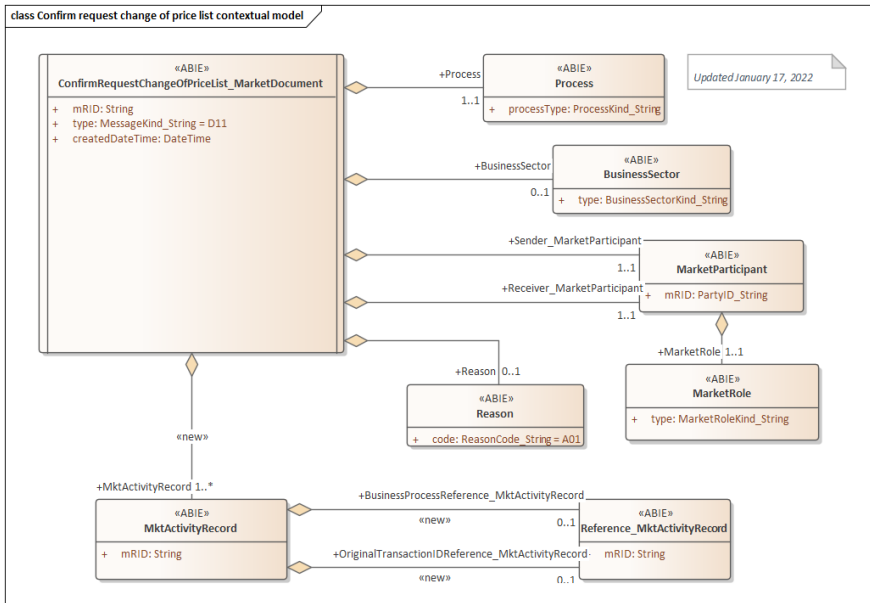


Figure 97: Class diagram: Confirm request change of Price List contextual model

6.29.2.2 Confirm request change of Price List assembly model

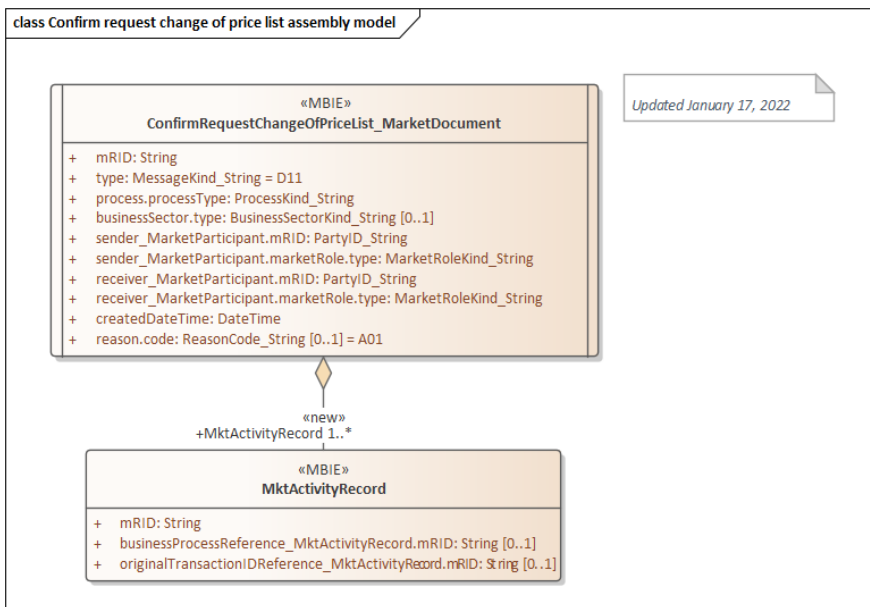


Figure 98: Class diagram: Confirm request change of Price List assembly model

6.29.2.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D11	Response update charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument /Process / ProcessType	D08	Update Charge Prices
MarketDocument /Process / ProcessType	D18	Update Charge Masterdata

6.29.2.4 Mapping from today's Danish documents to CIM based Confirm request change of Price List

Danish attribute	Card	CIM attribute	Længde	Card.	Remark
Payload Response Event / Status Type	1	ConfirmRequestChangeOfPricelist_ Market-Document / Reason /code	AN..3 Kode	1	A01 Message fully accepted
Payload Response Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen
Payload Response Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Response Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse

Table 48 Mapping of RSM-033: Confirm request change of Price List

6.29.3 Reject request change of Price List

6.29.3.1 Reject request change of Price List contextual model

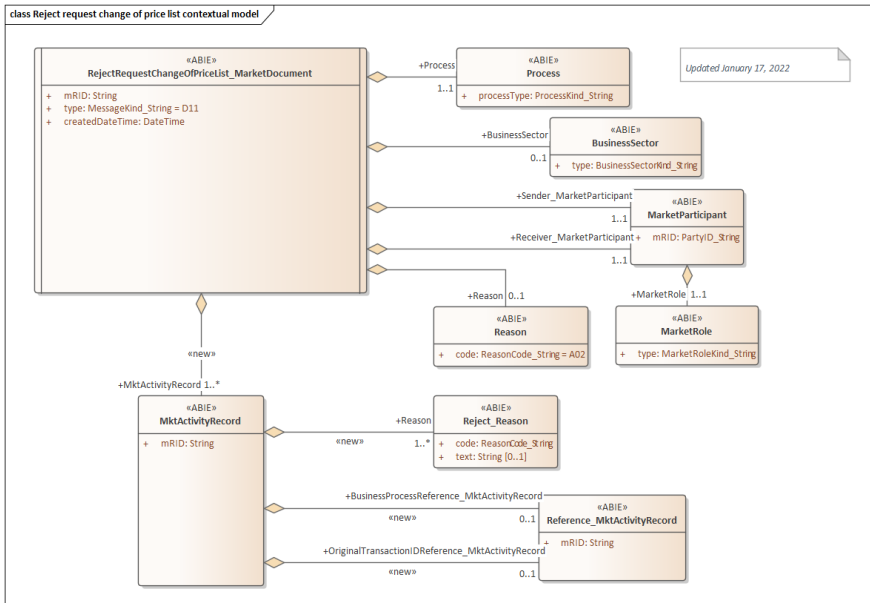


Figure 99: Class diagram: Reject request change of Price List contextual model

6.29.3.2 Reject request change of Price List assembly model

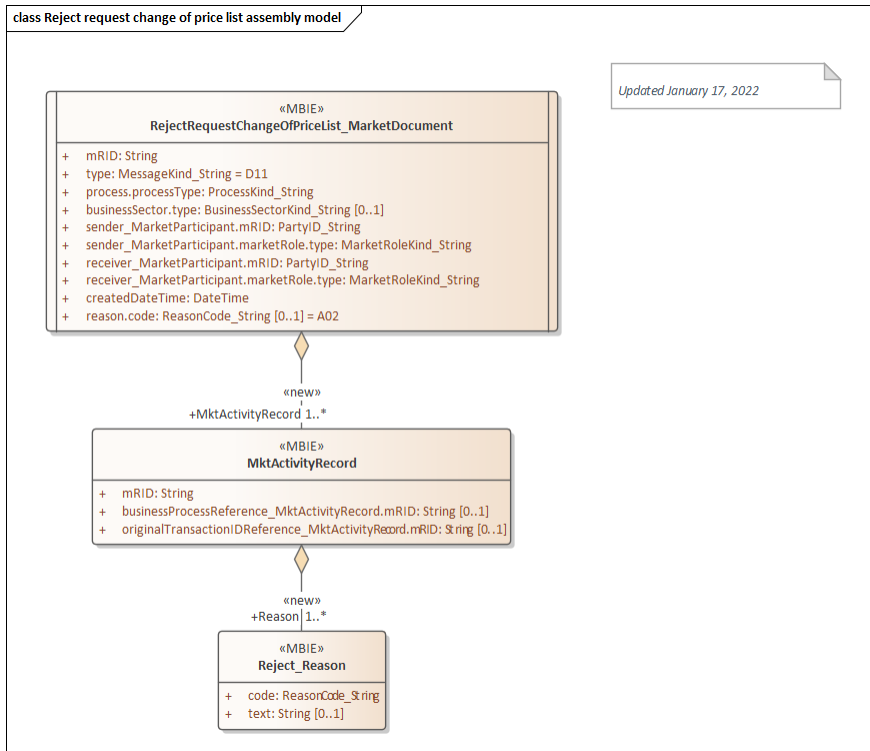


Figure 100: Class diagram: Reject request change of Price List assembly model

6.29.3.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D11	Response update charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid access provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Process / ProcessType	D08	Update Charge Prices
MarketDocument / Process / ProcessType	D18	Update Charge Masterdata

6.29.3.4 Mapping from today's Danish documents to CIM based Reject request change of Price List

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Status Type	1	RejectRequestChangeOfPriceList_ MarketDocument / Reason /code (ReasonCodeTypeList: A02 Message fully rejected)	An..3 kode	0..1	A02 Message fully rejected
Payload Charge Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen
Payload Charge Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Entydig reference til oprindelig meddelelse
Payload Charge Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Charge Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	STRING	0..1	Fejltekst

Table 49 Mapping of RSM-033: Reject request change of Price List

6.30 CIM based RSM-034 – Notify price list

6.30.1 Notify price list contextual model

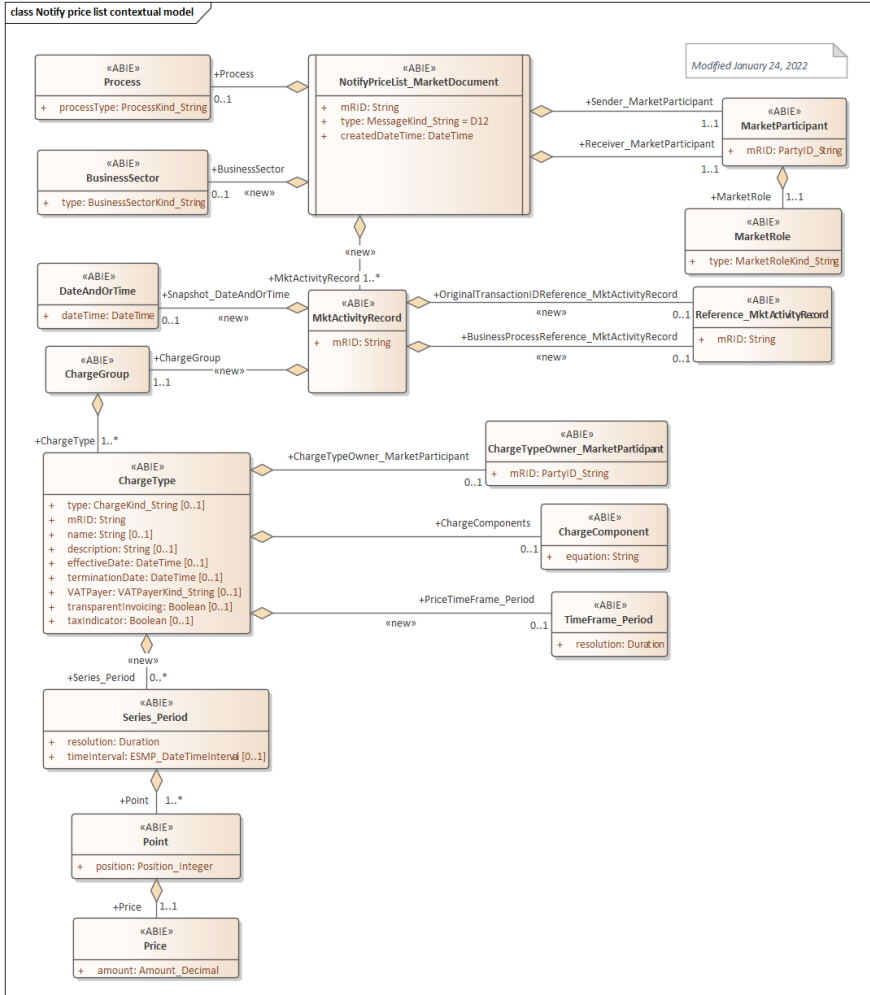


Figure 101: Class diagram: Notify price list contextual model

6.30.2 Notify price list assembly model

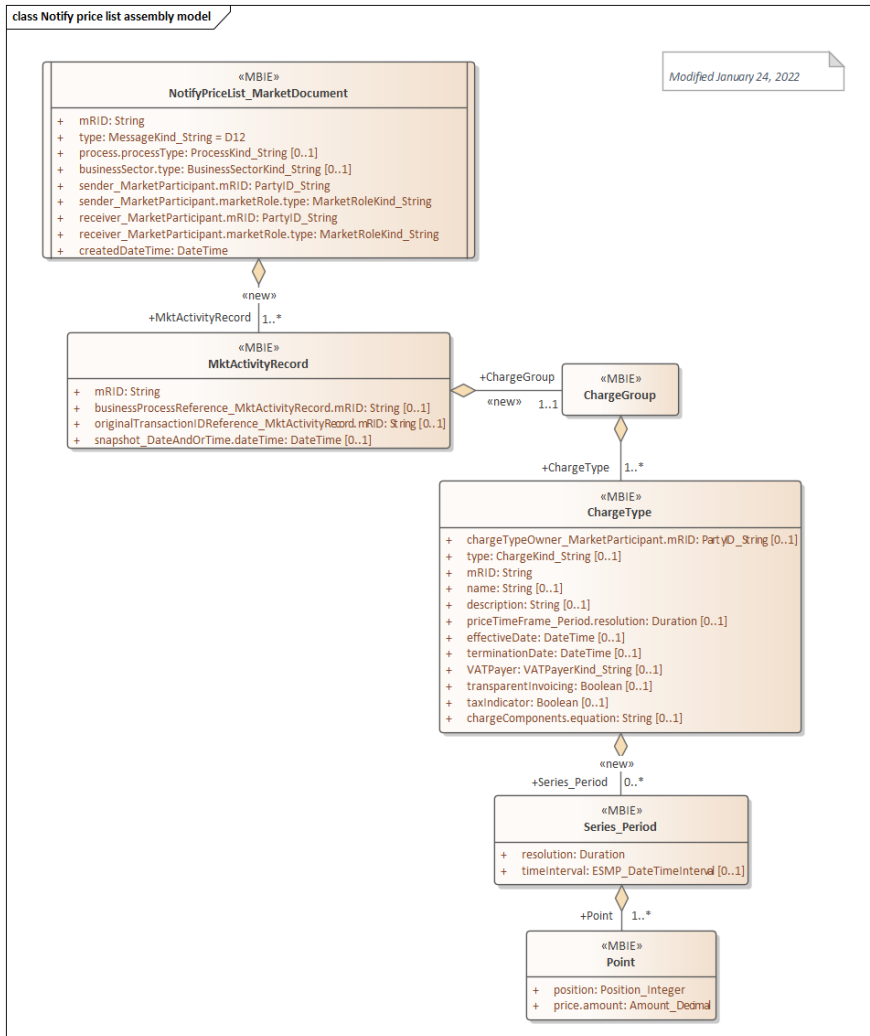


Figure 102: Class diagram: Notify price list assembly model

6.30.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D12	Notify charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid Access Provider
MarketDocument / Process / ProcessType	DO8	Update Charge Prices
MarketDocument / Process / ProcessType	D18	Update Charge Masterdata

6.30.4 Mapping from today's Danish documents to CIM based Notify price list

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Identification	1	MktActivityRecord / mRID	An..36	0..1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Charge Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36		Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Original Business Document	0..1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Only used if response to a request (RSM-035)
		MktActivityRecord / Snapshot_DateAndOrTime / dateTime		0..1	Bruges ikke i DataHub 3.0
Payload Charge Event / Related Charge Charge Information / Charge Type Owner Energy Party / Identification	1	MktActivityRecord / ChargeGroup / ChargeType / ChargeTypeOwner_MarketParticipant / mRID	An..16	1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Charge Event / Related Charge Charge Information / Charge Type	1	MktActivityRecord / ChargeGroup / ChargeType / type	An..3 kode	1	Fee, Tariff or Subscription

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Related Charge Charge Information / Party Charge Type ID	1	MktActivityRecord / ChargeGroup / ChargeType / mRID	An..10	1	Aktørens eget ID
Payload Charge Event / Related Charge Charge Information / Description	1	MktActivityRecord / ChargeGroup / ChargeType / name		1	Navnet på priselementet. Skal eventuelt angives på regningen.
Payload Charge Event / Related Charge Charge Information / Long Description	1	MktActivityRecord / ChargeGroup / ChargeType / description		1	En forklarende tekst om priselementet
		MktActivityRecord / ChargeGroup / ChargeType / effectiveDate		1	Implemented according to ebIX® principles as Start date [1] and End date [0..1]
		MktActivityRecord / ChargeGroup / ChargeType / terminationDate		0..1	
Payload Charge Event / Related Charge Charge Information / VAT Class	1	MktActivityRecord / ChargeGroup / ChargeType / VATPayer		1	Angiver om der er moms medtaget.
Payload Charge Event / Related Charge Charge Information / Transparent Invoicing	1	MktActivityRecord / ChargeGroup / ChargeType / transparentInvoicing		1	Angiver om elleverandøren skal synliggøre priselementet på kundefakturaen. true = Vide-refakturering
Payload Charge Event / Related Charge Charge Information / Tax Indicator	1	MktActivityRecord / ChargeGroup / ChargeType / taxIndicator		1	Angiver om en tarif er en afgift eller ej. true = priselement er en afgift

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
		MktActivityRecord / ChargeGroup / ChargeType / ChargeComponents.equation		0..1	Bruges ikke i Danmark
Payload Charge Event / Related Charge Charge Information / resolution		MktActivityRecord / ChargeGroup / ChargeType / PriceTimeFrame_Period / resolution		1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time
Payload Charge Event / Related Charge Charge Information / Time Interval	0..1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / timeInterval : start	Date time	0..1	Timenterval er af typen ESMP_ DateTime-Interval, som har to attributter: Start og End ISO-8601 standard anvendes.
Payload Charge Event / Related Charge Charge Information / Time Interval	0..1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / timeInterval : end	Date time	0..1	Dato og tid i UTC+0. Angiver starttidspunkt (skæringsdato) for proces. Format: YYYY-MM-DDThh:mmZ
Payload Charge Event / Observation Time Series Period / Resolution Duration	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / resolution		1	Resolution definerer den præcision, som tidsinterval er opdelt i. Resolution udtrykkes med ISO 8601. Resolution PT1H udtrykker således en opløsning på 1 time

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Interval Energy Observation / Position	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / Point / position		1	Den relative position for en periode i et interval. Positionen er angivet ved et numerisk heltal startende med 1
Payload Charge Event / Interval Energy Observation / Energy Price	1	MktActivityRecord / ChargeGroup / ChargeType / Series_Period / Point / Price / amount	Amount_Decimal	1	Dkk pr. kvantum med op til og med seks decimalers nøjagtighed

Table 50 Mapping of RSM-033: Request change of price list

6.31 CIM based RSM-035 – Request Price List

6.31.1 Request Price List

6.31.1.1 Request Price List contextual model

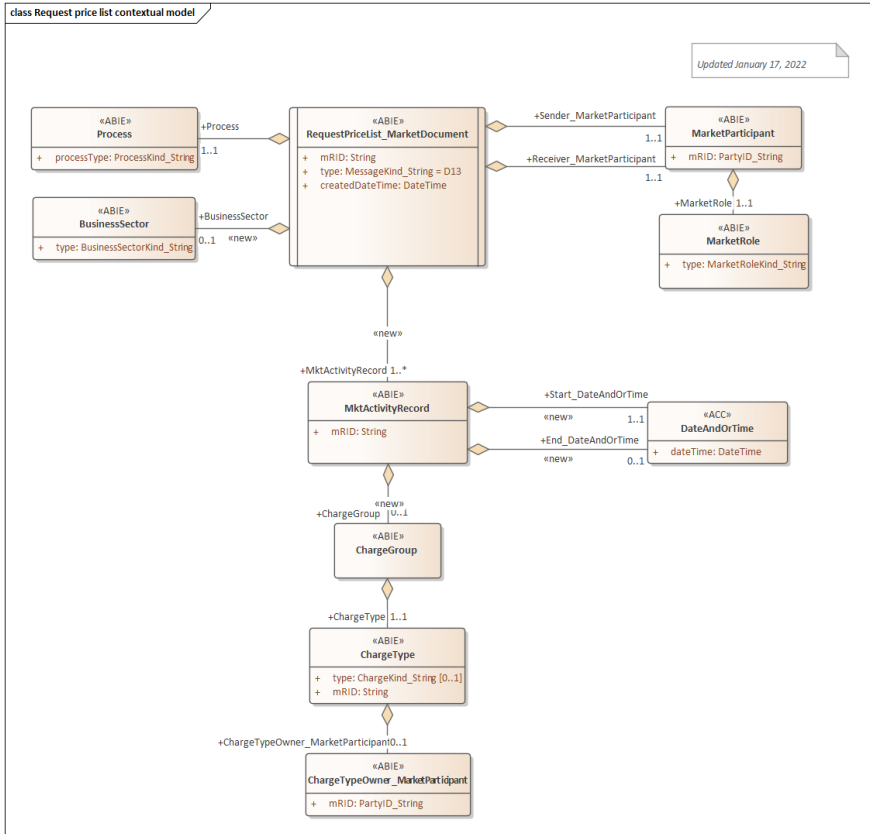


Figure 103: Class diagram: Request Price List contextual model

6.31.1.2 Request Price List assembly model

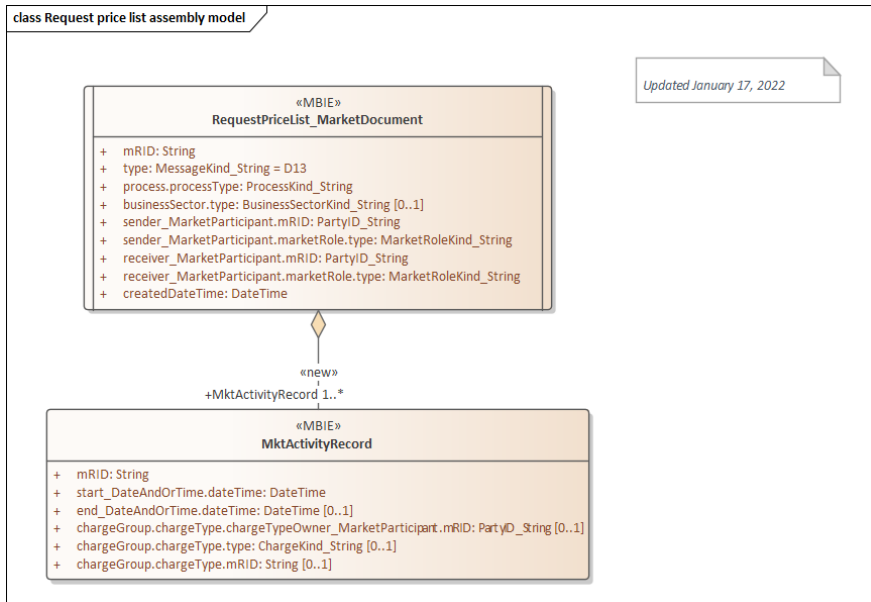


Figure 104: Class diagram: Request Price List assembly model

6.31.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D13	Query charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDM	Grid Access Provider
MarketDocument / Sender_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Process / ProcessType	E0G	Data alignment for master data metering point
MarketDocument / Process / ProcessType	D48	Request Charge Prices

6.31.1.4 Mapping from today's Danish documents to CIM based Request Price List

Danish attribute	Card.	CIM attribute	længde	Card.	Remark
Payload Request Charge Information / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Request Charge Information / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Request Charge Information / Observation Time Series Period / Start	1	MktActivityRecord / Start_DateAndOrTime / dateTime	Date- time	1	ISO-8601 standard anvendes. Dato og tid i UTC+0. Angiver starttidspunkt (skærings-
Payload Request Charge Information / Observation Time Series Period / End	0..1	MktActivityRecord / End_DateAndOrTime / dateTime	Date- time	0..1	dato) for proces. Format: YYYY-MM-DDThh:mm:ssZ
Payload Request Charge Information / Party Responsible For Charge Energy Party / Identification	0..1	MktActivityRecord / ChargeGroup / ChargeType / ChargeTypeOwner_MarketParticipant / mRID	An..16	0..1	Entydig identifikation af Charge Owner. Aktøren er identificeret af et GLN-nummer eller en EIC-kode. CodingScheme = A10 angives for 13 cifret GLN. CodingScheme = A01 angives for 16 tegns EIC-kode
Payload Request Charge Information / Charge Type	0..1	MktActivityRecord / ChargeGroup / ChargeType /mRID	An..3 kode	0..1	
Payload Request Charge Information / Party Charge Type ID	0..1	MktActivityRecord / Party_ChargeGroup / ChargeType /mRID	An..10	0..1	Aktørens eget ID for prisen

Kommenterede [JT15]: Skal være 0..1; så det muligt at få dags dato priser

Table 51 Mapping of RSM-035: Request Price List

6.31.2 Confirm Request Price List

6.32 Denne besked er beskrevet i afsnit 6.30,

CIM based RSM-034 – Notify price list.

6.32.1 Reject Request Price List

6.32.1.1 Reject Request Price List contextual model

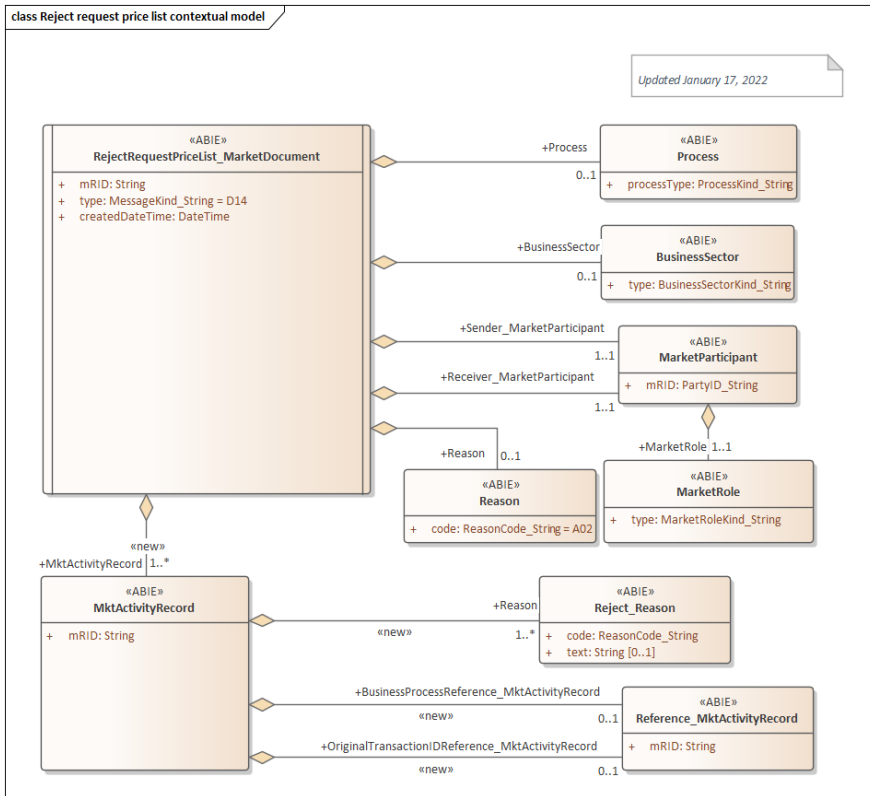


Figure 105: Class diagram: Reject Request Price List contextual model

6.32.1.2 Reject Request Price List assembly model

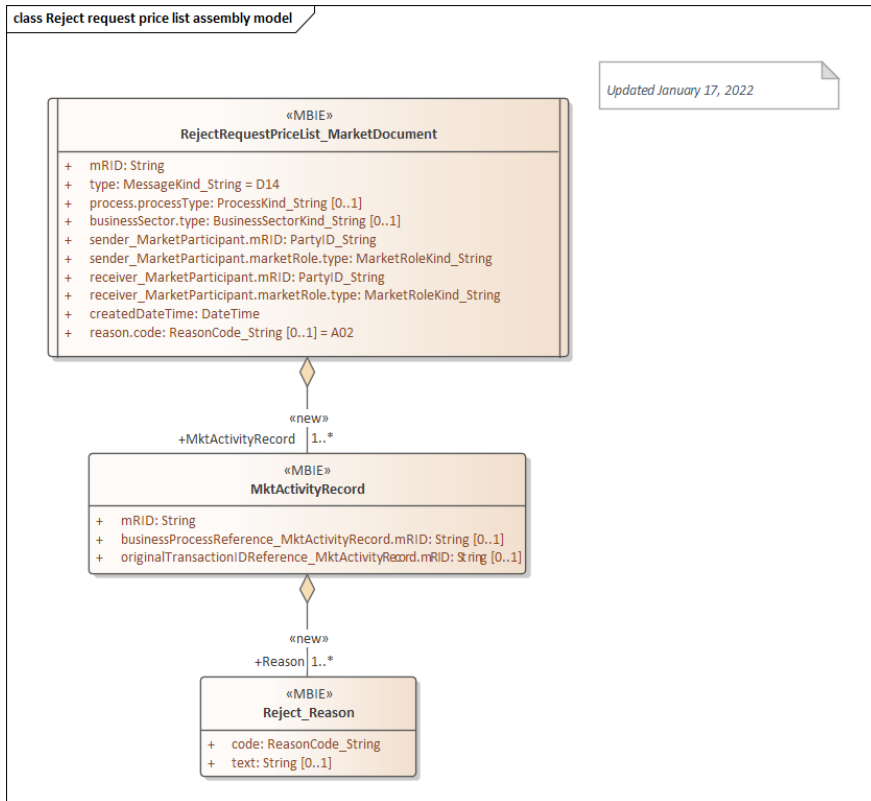


Figure 106: Class diagram: Reject Request Price List assembly model

6.32.1.3 Header Information

Navn	Kode	Beskrivelse
MarketDocument / type	D14	Response charge information
MarketDocument / Sender_MarketParticipant / MarketRole / type	DDZ	DataHub
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDM	Grid Access Provider
MarketDocument / Receiver_MarketParticipant / MarketRole / type	EZ	System Operator
MarketDocument / Receiver_MarketParticipant / MarketRole / type	DDQ	Energy Supplier
MarketDocument / Process / ProcessType	EOG	Data alignment for master data metering point
MarketDocument / Process / ProcessType	D48	Request Charge Prices

6.32.1.4 Mapping from today's Danish documents to CIM based Reject Request Price List

Danish attribute	Card.	CIM attribute	Længde	Card.	Remark
Payload Charge Event / Status Type	1	RejectRequestChangeOfPriceList_ Market-Document / Reason /code	An..3 kode	1	ReasonCodeTypeList: A02 Message fully rejected
Payload Charge Event / Identification	1	MktActivityRecord / mRID	An..36	1	Afsenders unikke identifikation af transaktionen Transaktion ID
Payload Charge Event / Business Process ID	0..1	MktActivityRecord / BusinessProcessReference_ MktActivityRecord / mRID	An..36	0..1	Bruges ikke i Danmark på nuværende tidspunkt.
Payload Charge Event / Original Business Document	1	MktActivityRecord / OriginalTransactionIDReference_ MktActivityRecord / mRID	An..36	0..1	Currently not used in Denmark
Payload Charge Event / Response Reason Type	1	MktActivityRecord / Reason / code	An..3 Kode	1..*	Anvendes hvis status lig afvist til at beskrive årsag for afvisning.
Payload Charge Event / Response Reason Description	0..1	MktActivityRecord / Reason / text	String	0..1	Bruges ikke i Danmark på nuværende tidspunkt.

Table 52 Mapping of RSM-035: Reject Request Price List

7 Kodelister

Koder til attributter, som bruges i forbindelse med de enkelte RSM-beskeder vil ikke blive vist i dette dokument. De vil i stedet kunne findes i excel arket "kodelister DH3". Tilladte værdisæt af en kodeliste kan være begrænset i hver enkelt meddelelse ud fra et forretningsmæssigt perspektiv. I excel arket vil det være muligt at bruge filtre til at kunne vise, hvilke attributter og koder der kan bruges i den enkelte meddelelse. Arket findes på energinets hjemmeside.

7.1.1 Væsentlige ændringer fra DH2 til DH3

Reject/confirm

I DH3 benyttes A01 og A02 frem for 39 og 41

Kode	Beskrivelse	Benyttes i
39	Approved	DH2
41	Rejected	DH2
A01	Message fully accepted	DH3
A02	Message fully rejected	DH3

Quality

Missing Quantity har nu fået en kode i Quality fremfor at have sin egen attribut(A02), derudover er tilføjet en ny kode (A06) til status beregnet.

Kode	Beskrivelse
A01	Adjusted
A02	Not available
A03	Estimated
A04	As provided
A05	Incomplete
A06	Calculated

Identifikation af GLN/EIC

Her skiftes til koderne fra ENTSO-E

Kode	Beskrivelse
A01	EIC
A10	GS1

8.1.2 Dependency Matrix for attributter for tilladte kundestamdata

Nedenstående tabel viser, hvilke felter de forskellige målepunktstyper kan indeholde

		Forbrug	Produktion
Kundestamdata	Consumer Master Data	E17	E18
Målepunkts ID	MeteringPoint ID	Green	Green
Forretningsårsag	BusinessreasonCode	Green	Green
Gyldighedsdato	Occurrence	Green	Green
Elvarme	ElectricalHeating	Green	Red
Elvarmeafgiftsdato	ElectricalHeatingDate	Green	Red
Kundenavn1	FirstConsumerPartyName	Green	Green
CPR 1	CPR 1	Green	Green
KundeCVR	CVR	Green	Green
Kundenavn2	SecondConsumerPartyName	Green	Green
CPR 2	CPR 2	Green	Green
DataadgangsCVR	DataAccessCVR	Green	Green
Hemmelig adresse	Protected Name	Green	Green
LeverandørStatus	HasBalanceSupplier	Green	Green
Start af Leverance	SupplyStart	Green	Green
		Green	Green
AdresseType	MPRelationType	Green	Green
DAR Reference	DAR Reference	Green	Green
Vejnavn	Streetname	Green	Green
Vejkode	StreetCode	Green	Green
Husnummer	BuildingNumber	Green	Green
Etage	FloorID	Green	Green
Dør	RoomID	Green	Green
Postdistrikt	CityName	Green	Green
Kommunekode	MunicipalityCode	Green	Green
Supplerende bynavn	CitySubDivisionName	Green	Green
Landekode	CountryCode	Green	Green

Postnummer	PostCode	<input type="checkbox"/>	<input type="checkbox"/>
Postboks	Postofficebox	<input type="checkbox"/>	<input type="checkbox"/>
Hemmelig adresse	Protected Address	<input type="checkbox"/>	<input type="checkbox"/>
Navn	Name	<input type="checkbox"/>	<input type="checkbox"/>
Attention	Attention	<input type="checkbox"/>	<input type="checkbox"/>
Telefonnr	Phonenumber	<input type="checkbox"/>	<input type="checkbox"/>
Mobil	Mobile	<input type="checkbox"/>	<input type="checkbox"/>
Email	Email	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Må aldrig medsendes / Ignoreres	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Må medsendes	<input type="checkbox"/>	<input type="checkbox"/>

8.1.4 Dependency Matrix for relevante attributter for indsendte kundestamdata.

Nedenstående tabel viser for de forskellige BRS'er som netvirksomheden og elleverandren indsender kundestamdata for følgende:

- For elleverandører:
 - Hvilke attributter der kan opdateres i processen.

Tabellen skal sammenholdes med hvilke attributter, der er tilladt for den enkelte målepunktstype.

		Elleverandør E17	Elleverandør E18	Elleverandør Elvarme E17
Kundestamdata	Consumer Master Data	E17	E18	E17
Forretningsårsag	BusinessreasonCode	X	X	X
Transaktions ID	Transaction ID			
Gyldighedsdato	Occurrence	X	X	X
Målepunkts ID	MeteringPoint ID	X	X	X
Elvarme	ElectricalHeating	X		X
Elvarmeafgiftsdato	ElectricalHeatingDate			
CPR 1	CPR 1	X2)	X2)	
KundeCVR	CVR	X2)	X2)	
Kundenavn1	FirstConsumerPartyName	X	X	
CPR 2	CPR 2	X2)	X2)	
DataadgangsCVR	DataAccessCVR	X2)	X2)	
Kundenavn2	SecondConsumerPartyName	X	X	
Hemmelig adresse	Protected Name			
AdresseType	MPRelationType	X	x	
DAR Reference	DAR Reference	X	X	
Vejnavn	Streetname	X	X	
Vejkode	StreetCode	X	X	
Husnummer	BuildingNumber	X	X	
Etage	FloorID	X	X	
Dør	RoomID	X	X	
Postdistrikt	CityName	X	X	
Kommunekode	MunicipalityCode	X	X	
Supplerende bynavn	CitySubDivisionName	X	X	
Landekode	CountryCode	X	X	
Postnummer	PostCode	X	X	
Postboks	Postofficebox	X	X	
Hemmelig adresse	Protected Address	X	X	
Navn	Name	X	X	
Attention	Attention	X	X	
Telefonnr	Phonenumber	X	X	
Mobil	Mobile	X	X	
Email	Email	X	X	
X = Valideres ved indsendelse fra elleverandør jf. regler som beskrevet i BRS				
2) hvis CPR angivet så skal CVR være blank og omvendt, hvis CPR ikke opdateres skal det ikke medsendes			Medsendes jævnfør regler	
			Må medsendes	
			Ignorerer	

8.1.5 Dependency Matrix for attributes in meter point data sent from DataHub.

Ved fremsendelse af stamdata fra DataHub til aktøren sendes altid det fulde sæt stamdata som er gældende for aktøren for den specifikke målepunktstype og tilladte attributter.

Medsendte attributter fra DataHub pr. målepunktstype																						
Navn	Name	E17	E18	E20	D01	D02	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14	D15	D17	D18	D20	D99
Transaktions ID	Transaction ID																					
Reference	OriginalBusinessDocument	3	3	3	3	3	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3
Gyldighedsdato	Occurrence																					
Målepunkts ID	MeteringPoint ID																					
Målepunkts ansvarlig	TypeOfMeteringPoint																					
Målepunkts type	Settlement Method																					
Afregningsform	SubTypeOfMeteringPoint																					
Målepunkts art	PhysicalStatusOfMeteringPoint																					
Tilslutningsstatus	Meter Reading Occurrence																					
Aflæsningsfrekvens	NetSettlementGroup																					
Nettoaflæsningsgruppe	ScheduledMeter ReadingDate	5																				
Nominel aflæsningsdag	MeteringGridArea																					
Netområde	To Grid																					
Til net	From Grid																					
Fra net	Power Plant																					
VærksGSRN	MPCapacity																					
Anlægs kapacitet	MPConnectionType	5	5																			
Tilslutningstype	DisconnectionType																					
Afbyrdesart	Asset Type																					
Anlægsteknologi	Production Obligation																					
Aftagepligt	Maximum Current																					
Effektgrænse Ampere	Maximum Power																					
Effektgrænse kW	Meter Identification	2	2	2	2	2	2	2	2	2	2	2	2	2	2					2	2	2
Målernummer	Product Type																					
Produkt	UnitType																					
Energienhed	LocationDescription																					
Målepunktskommentar	BalanceSupplierID	1	1																			
Elleverandør ID	SupplyStart	1	1																			
Start af leverance	MPAddressWashInstruction			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Faktisk Adresse	DAR Reference			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
DAR Reference	Streetname			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Vejnavn	Street Code			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Vejkode	Building Number			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Husnummer	Floor ID			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Etage	Room ID			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Dør	City Name			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Postdistrikt	Municipality Code			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Kommunekode	City Sub Div Name			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Supplerende bynavn	Country Code			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Landekode	Post Code			4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
Postnummer	Parent MeteringPoint																					
Parent målepunkts ID	ChildMeteringPoint	6	6																			
Child målepunkt																						

1) aldrig til netvirksomhed, potentiel leverandør, fremtidig kun for egen periode
2) kun for målepunktsart lig fysisk
3) Kun ved svar på forespørgsel (RSM-023 eller IEC RSM-022)
4) alle felter sendes, hvis adresse angivet
5) Medsendes efter beskrevne regler i BRS eller RSM
6) Kun ved svar på forespørgsel, hvis child målepunkt findes

Sendes under bestemte betingelser
Medsendes ikke
Medsendes
Medsendes kun IEC/CIM

9 Data definitioner

Henvis til RSM guide for eBIX og for cim til de enkelte RSM beskrivelser

10 Generelle meddelelsesregler

10.1.1 Tids-, dato- og periodeformater

Begreber og anvendelse:

- UTC: Universal Time Coordinated. I praksis er UTC det samme som GMT (Greenwich Mean Time).
- Lokal tid: Den lokale tid.

Ved udveksling af EDI-meddelelser (XML) i Danmark anvendes UTC+0 (der anvendes ikke lokal tid). Aktørernes egne it-systemer skal være i stand til at håndtere modtagelse af forskellige offsets til UTC.

10.1.2 Normaltid / sommertid

I EDI-meddelelserne anvendes det samme offset fra UTC året rundt.

UTC+0	Normaltid i Danmark	El	Døgnet går fra kl. 23:00 til næste dag kl. 23:00.
	Sommertid i Danmark	El	Døgnet går fra kl. 22:00 til næste dag kl. 22:00.

Skiftet til sommertid sker sidste søndag i marts, mens skiftet tilbage til normaltid gennemføres sidste søndag i oktober. Døgnet med skift til sommertid indeholder 23 timer. Døgnet med skift til normaltid indeholder 25 timer.

10.1.3 Notation og perioder

Alle dato / tidsformater angives på følgende måde:

Format	Syntaks	Note	Eksempel
XML	YYYY-MM-DDTHH:MMZ	Forklaring til format. "-", ":" og "T" er separatorer, og "Z" angiver ingen offset til UTC tid (UTC-0)	2007-02-24T23:00Z

10.1.4 Tidssynkronisering

Det er et krav, at it-systemer, der danner og behandler meddelelser, ikke afviger mere end +/- 1 minut fra lokal tid.

10.1.5 Regler for afrunding, tal og decimaler

Afrundingsregler

Der anvendes de almindeligt gældende regler for afrunding. Værdier under 5 rundes ned, og værdier på 5 og derover rundes op. Restværdi som følge af afrundingen ignoreres.

10.1.6 Separatorer og tal

- Punktum (.) benyttes som decimalseparator. Indgår der decimalseparator i en værdi, skal der som minimum være ét tal foran og ét tal efter separatore. Fx er det ikke tilladt at sende (.5), det skal sendes som (0.5).
- Decimalseparator må kun benyttes som angivet i de pågældende markedsforskrifter.
- Tusindtals separator må ikke anvendes.
- En numerisk værdi må ikke indeholde specieltegn.

10.1.7 Karakterer

- Hvis en værdi har foranstillede nuller (0), sendes disse ikke.

Foran- og efterstillede blanktegn sendes ikke. Fx hvis et felt har 20 karakterer til rådighed, men kun 5 karakterer bliver brugt, sendes kun de 5 karakterer.

10.2 Håndtering af delegering

Generelt kan aktører ikke delegerer kommunikation til DataHub, dvs. tillade en anden aktør at indsende data til DataHub på vegne af den pågældende aktør selv.

En undtagelse findes for indsendelse af måledata. En aktør kan selv kommunikere måledata med DataHub eller overlade dette til en anden aktør.

10.2.1 Kommunikation til DataHub

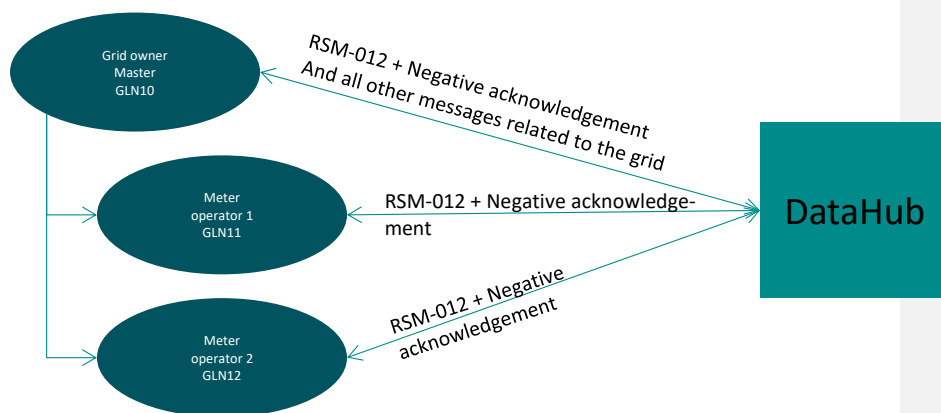
En netvirksomhed kan have flere måleoperatører tilknyttet et netområde.

At autorisationen bliver udført på netområde niveau, betyder at en måleoperatør kan indsende målinger for alle målepunkter i et netområde, hvor måleoperatøren er delegeret myndighed.

Netvirksomheden skal angive, om den ønsker at anvende måleoperatør ved indsendelse af meddelelser. Aktøren skal i så fald angive navn og GLN nummer for den eller de måleoperatører, der ønskes anvendt pr. netområde. En netvirksomhed kan have flere måleoperatører tilknyttet et netområde. Delegeringen sker pr. netområde, hvilket betyder, at en måleoperatør kan indsende målinger for alle målepunkter i dette netområde.

Det er kun følgende RSM'er, der kan uddelegeres til indsendelser til DataHub'en:

- RSM-010: Fremsend diverse forbrugsopgørelser
- RSM-011: Forbrug for skabelonafregnet målepunkt samt tællerstand
- RSM-012: Fremsendelse af måledata for et målepunkt



Enhver måleoperatør kan kommunikere med DataHub, hvis de er delegeret myndighed.

Efter at have sendt en meddelelse vil afsenderen (måleoperatøren) modtage et direkte svar fra Webservice (godkendt/afvist). Ud over dette svar er den eneste meddelelse, en måleoperatør kan modtage, en afvisningsbesked for RSM'n eller en negativ acknowledgement (RSM-009).

DataHub vil altid sende en RSM-009 meddelelse til den fysiske afsender.

Hver aktør i markedet har sin egen kø, som er identificeret via aktørens GLN-nummer. Dette betyder, at hvis en måleoperatør indsender på vegne af flere netvirksomheder, vil alle meddelelser til måleoperatøren blive placeret i én kø.

Hvis en aktør har flere forskellige systemer til indsendelse af meddelelser, er det aktørens eget ansvar at distribuere disse meddelelser internt.

10.2.2 Kommunikation fra DataHub

Aktører kan delvist delegerere kommunikation fra DataHub, dvs. tillade en anden aktør eller måleoperatør at modtage data fra DataHub på vegne af den pågældende aktør selv. Delegeringen sker pr. RSM, men det er kun muligt at vælge én modtager for udvalgte RSM meddelelser.

Delegering sker gennem en opdatering af aktørens oplysninger i stamdataregistret og der skal angives navn og GLN-nummer <https://www.msn.com/da-dk/feed> på modtageren af de RSM'er, som aktøren ikke selv ønsker at modtage. Der kan kun være en modtager pr. RSM.

Der vil være følgende muligheder for at uddelegere modtagelsen jævnfør tabel:

RSM	Navn	Årsag	Ansvarlig aktør
RSM-012	Fremsend måledata for et målepunkt	E30	EL
RSM-012	Fremsend måledata for et målepunkt	E23	EL/NV
RSM-014	Fremsend beregnede tidsserier	D03	NV/EL/BA

RSM-014	Fremsend beregnede tidsserier	D04	NV/EL/BA
RSM-014	Fremsend beregnede tidsserier	D05	NV/EL/BA
RSM-014	Fremsend beregnede tidsserier	D09	NV/EL/BA
RSM-014	Fremsend beregnede tidsserier	D32	NV/EL/BA
RSM-018	Fremsend hullerlog	D25	NV
RSM-018	Fremsend hullerlog	D26	NV
RSM-019	Fremsend beregnede engrosydelser	D04	NV/EL
RSM-019	Fremsend beregnede engrosydelser	D05	NV/EL
RSM-019	Fremsend beregnede engrosydelser	D09	NV/EL
RSM-019	Fremsend beregnede engrosydelser	D32	NV/EL

Anvendte forkortelser:

- EL: elleverandør
- BA: Balanceansvarlig aktør
- NV: Netvirksomhed
- MO: Måleoperatør

Funktionalitet for udveksling af RSM-014 sker gennem opdatering af aktørens oplysninger, hvor der skal angives navn og GLN-nummer på de RSM'er, som aktøren ikke selv ønsker at modtage. Der kan kun være en modtager pr. RSM pr. forretningsårsagskode.

Anmodninger om data:

- RSM-015: Anmod om måledata
- RSM-016: Anmod om aggregerede måledata
- RSM-017: Anmod om engrosydelser

Disse RSM'er anvendes når en aktør (netvirksomhed, elleverandør, måleoperatør, balanceansvarlig aktør) ønsker at anmode om måledata. Anmodningen kan anvendes af både aktøren i de situationer, hvor RSM er uddelegeret til en anden aktør og af måleoperatøren, som RSM er delegeret til. Modtageren findes ud fra anmodning og ikke via RSM.