Joint Work Group Task Force 3 Data
Interoperability Modelling

PROCEDURES FOR CUSTOMER SWITCHING

VERSION: 0.9

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The force of the following words is modified by the requirement level of the document in which they are used.

- SHALL: This word, or the terms “REQUIRED” or “MUST”, means that the definition is an absolute requirement of the specification.
- SHALL NOT: This phrase, or the phrase “MUST NOT”, means that the definition is an absolute prohibition of the specification.
- SHOULD: This word, or the adjective “RECOMMENDED”, means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
- SHOULD NOT: This phrase, or the phrase “NOT RECOMMENDED”, means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.
- MAY: This word, or the adjective “OPTIONAL”, means that an item is truly optional.

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Revision History

Version	Date	Published by	Comments
0.9	2026-07-06	JWG/TF3	First published version

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1 Scope

The scope of this implementation guide is to describe how to implement the data exchanges related to the Implementing regulations on interoperability requirements and non-discriminatory and transparent procedures for Customer Switching, from:

https://ec.europa.eu/transparency/comitology-register/screen/documents/109780/2 **Error! Reference source not found.**.

2 References

2.1 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[1] IEC 62325-301:2018, Framework for energy market communications - Part 301: Common information model (CIM) extensions for markets

[2] IEC 62325-351:2016, Framework for energy market communications – Part 351: CIM European market model exchange profile;

[3] IEC 62325-450:2013, Framework for energy market communications – Part 450: Profile and context modelling rules;

[4] IEC 62325-451-1:2017, Framework for energy market communications – Part 451-1: Acknowledgement business process and contextual model for CIM European market;

[5] COMMISSION IMPLEMENTING REGULATION (EU) 2023/1162 of 6 June 2023 on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data;

[6] Commission Implementing Regulation on interoperability requirements and non-discriminatory and transparent procedures for access to data required for customer switching

2.2 Other references

[7] The Harmonised Electricity Market Role Model version 2025-01;

[8] UML Profile for UN/CEFACT's Modelling Methodology (UMM), Base Module, 2.0. (UN/CEFACT Modelling Methodology (UMM)).

3 Terms and definitions

3.1 Terms used in this document

HEMRM	Harmonised Electricity Market Role Model
IR	Implementing Regulation
IG	Implementation Guide

3.1.1 Basic principles and assumptions

The following principles have been used when drafting this document:

- This IG is based on the Business Requirements View from the UN/CEFACT Modelling Methodology version 2 (UMM-2), see [8]. The Business Requirements View consist of the three sub views: Business Domain View, Business Partner View and Business Entity View.
- Each of the two procedures described in this Implementation Guide starts with a Business Process UseCase and a related UseCase description. Thereafter an overview activity diagram with a related sequence diagram is show, the latter showing the information flows that are a part of the procedure. Finally a table shows which of the dataflows that are candidates for standardised CIM documents. The following principles have been used when deciding which documents that are candidates for mapping to CIM:
    - Not all dataflows are detailed in the Implementing Regulation (IR) that is the basis for this Implementation Guide, e.g. simple signals, such as information of a failed authentication, see **Error! Reference source not found.**. These are not seen as candidates for mapping to CIM, hence only data flows described as “info items” in the IR have been considered relevant as candidates for mapping to CIM **Error! Reference source not found.**. These are not seen as candidates for mapping to CIM, hence only data flows described as “info items” in the IR have been considered relevant as candidates for mapping to CIM.**Error! Reference source not found.**.
    - It is assumed that dataflows to and from the Final Customer normally will be handled using webservices through a web-browser, hence not expedient as a CIM document, except for time series that are exchanged on a regular, e.g. daily or hourly basis.
- This IG uses the term Accounting Point mapped to the Metering Point from HEMRM.
- UseCase descriptions are only elaborated for UseCases describing data exchange in the IR (Implementing Regulation) **Error! Reference source not found.**.
- Text directly taken from the IR [6] is shown in *italic*.
- Classes and attributes marked as «CIMExtensions» are new proposed elements in CIM and a maintenance request to CIM will be handled.
- Classes and attributes marked as «ESMPExtensions» are new proposed elements in ESMP and a maintenance request to CIM will be handled.
- It is made CIM profiles for the info items that will be exchanged between the actors in the energy market, i.e. all info items except for info item A, B, J, N and O. In addition info item D and H are merged in to one CIM profile; Accounting Point Characteristics Market Document, see A.2
- Procedure names are based on IR text, while the text in the model is based on modelling methodology (imperative mood, verb and noun).

3.1.2 Colours usage in artefacts and text

UseCases:



The default colour of use cases are blue, which is used for elaborated UseCases with data exchange between parties.



The yellow UseCases are used for elaborated UseCases without data exchange between parties.

4 Business Domain View: Customer switching (Business Process UseCase)

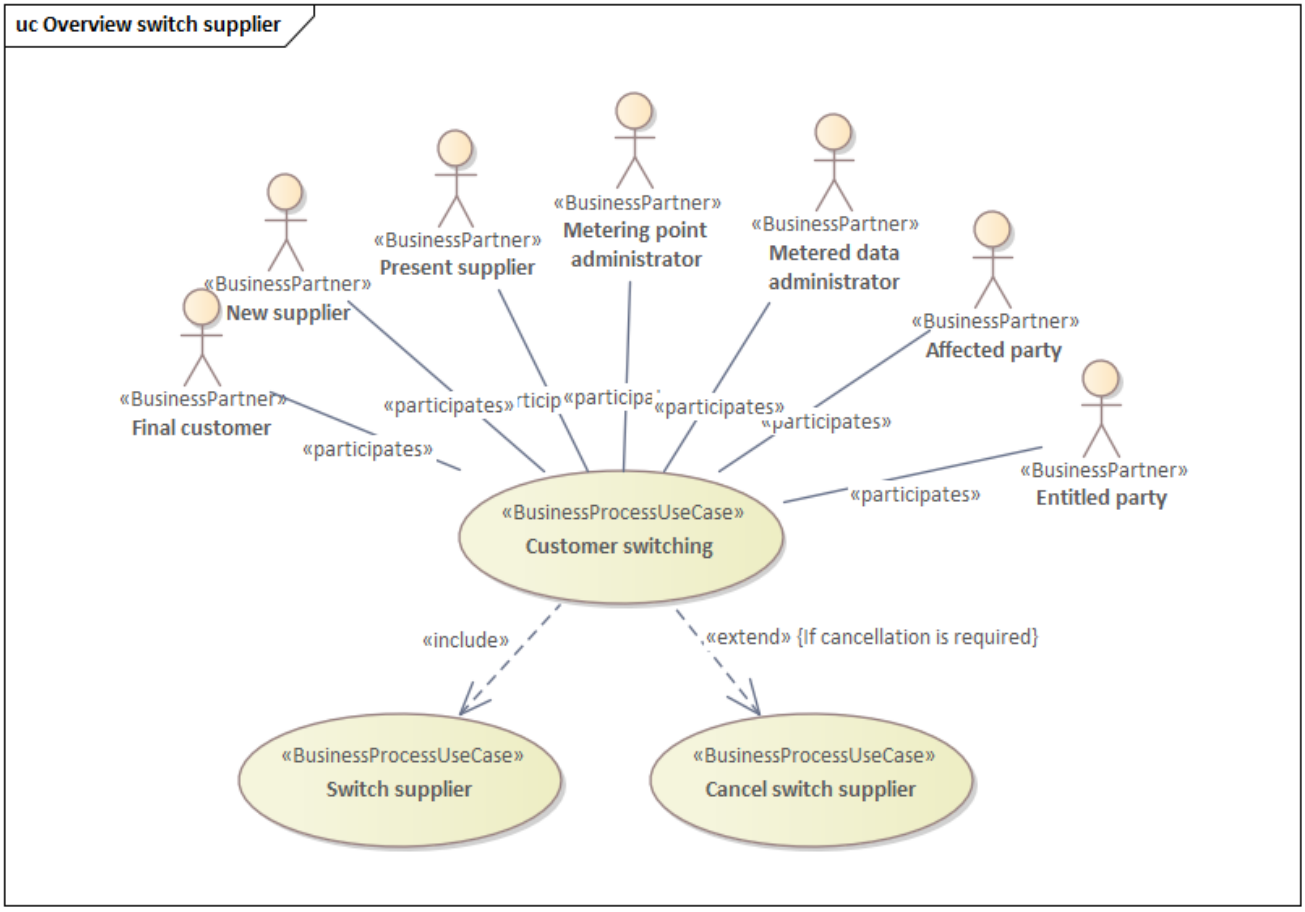


Figure 1: Business Process UseCase Customer switching

UseCase description: Customer switching	
definition	General UseCase for the customer switching as described in the IR **Error! Reference source not found.**.
beginsWhen	When a final customer and an energy supplier want to make a new contract.
preCondition	The accounting point is available for switching.
endsWhen	The switch of supplier is finalised and all entitled parties and affected parties are notified about the switch.
postCondition	The final customer has a new supplier.
exceptions	The switch is cancelled.
actions	Not applicable at this level.

Table 1: UseCase description: Customer switching

4.1 Procedure 1: Switching supplier (Business Process UseCase)

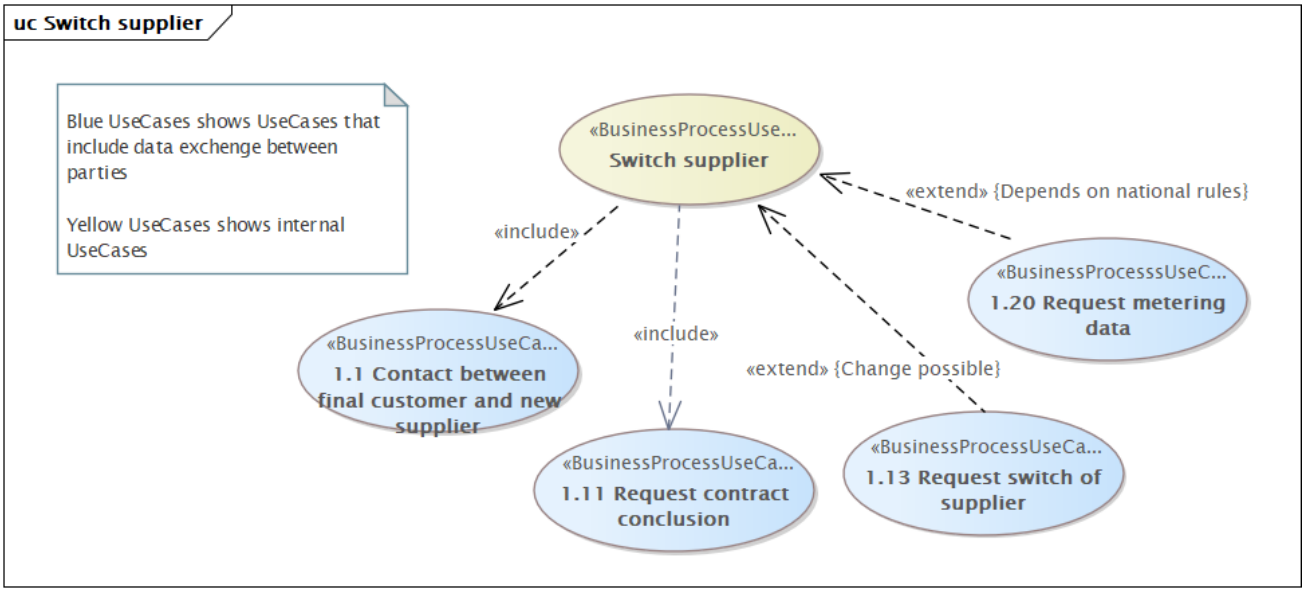


Figure 2: Business Process UseCase: Switch supplier

4.1.1 Description

UseCase description: Switch supplier	
definition	This is an overview UseCase. The procedure '*switching supplier*' includes the registration of the new supplier at the accounting point according to the date specified in the supply contract. The actual registration of the new electricity supplier, initiated in the procedural step 1.13, after the conclusion of the contract, and performed as set out in procedural step 1.19, is carried out by the metering point administrator, or the delegated entity where Member States have so provided, in the metering point register. That step is followed by notifying the change to all entitled and affected parties.
beginsWhen	When the final customer contacts a potential new supplier in order to obtain an offer which may lead to a new contract for the supply of energy and the possible ending of the contract with the current supplier.
preCondition	The new supplier is registered as energy supplier by the relevant authority.
endsWhen	When the request switch of supplier is confirmed, and all eligible parties are informed about the switch of supplier, and the accounting point characteristics have been distributed to eligible parties. Based on national rules, a meter read has been determined.
postCondition	The final customer has changed the supplier for the accounting point, and all eligible parties have been informed and all linked parties (parties linked to the metering point register) received accounting point characteristics, including - based on national rules - determination and exchange of a meter read related to the supplier switch.
exceptions	The contracting phase was aborted, or the request switch of supplier is rejected, and the supplier switch process is aborted.
actions	Not applicable at this level.

444 **Table 2:** UseCase description: Switch supplier
445

4.1.2 Overview of «Business Process» Switch supplier

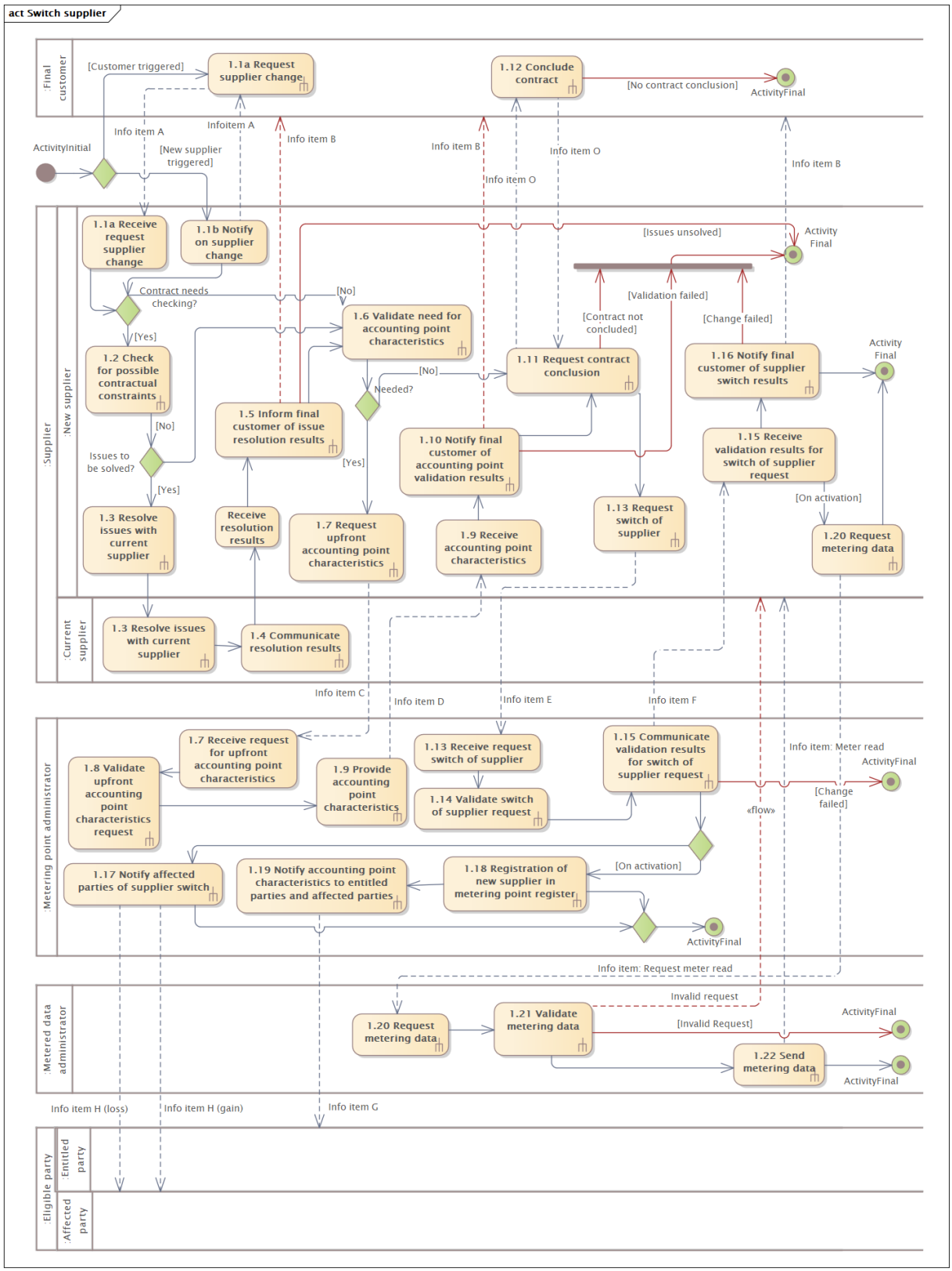


Figure 3: Business Process: Switch supplier

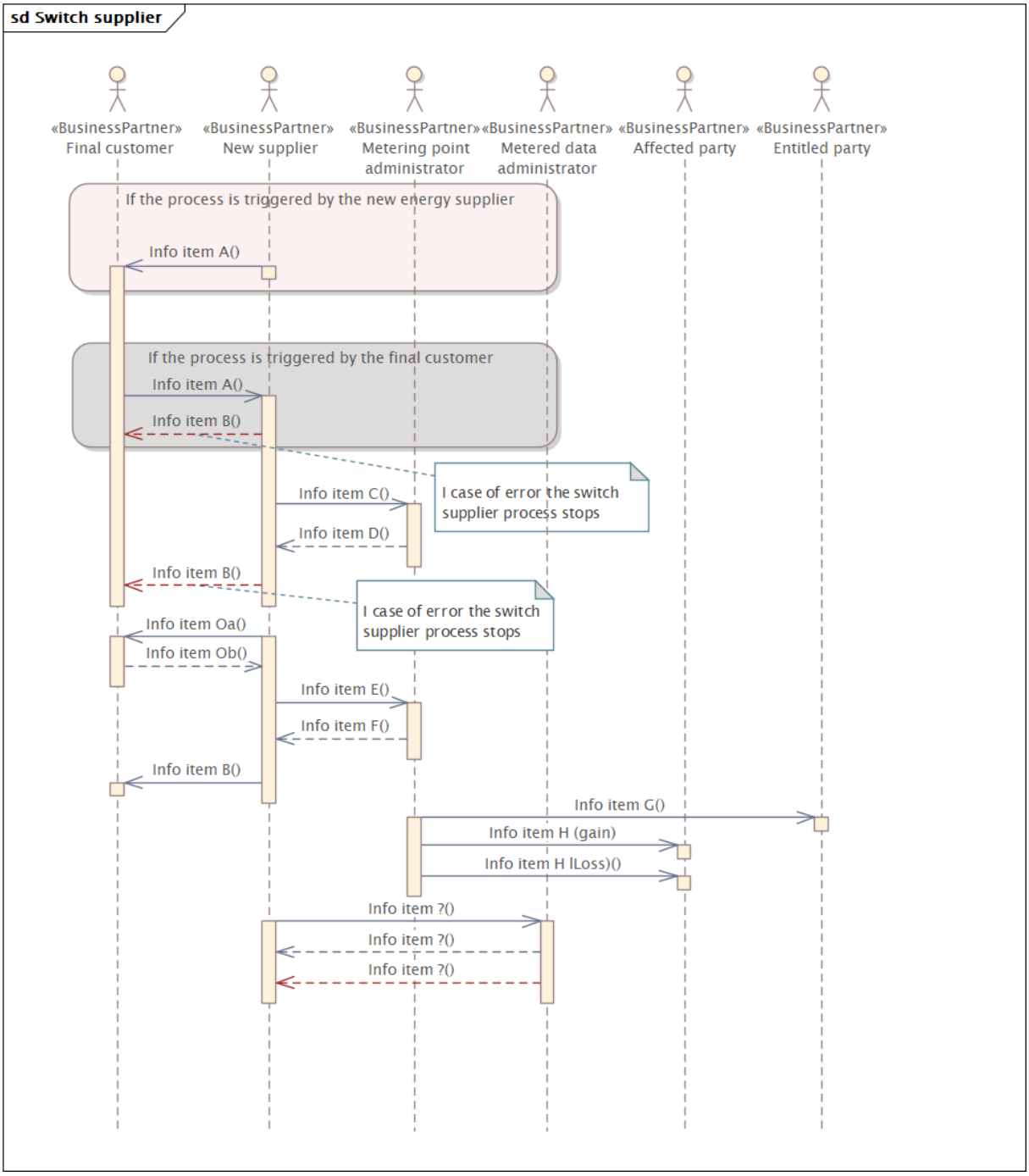


Figure 4: Sequence diagram: Switch supplier

Figure 4 shows the exchange of Info items described in the IR, hence the information flow between the new supplier and the current supplier are omitted.

Procedure 1: Candidates for mapping to CIM	Mapping to CIM
Info item A Contact new supplier	No
Info item B Inform customer on validation result	No
Info Item C Upfront accounting point characteristics request	Yes
Info item D Upfront accounting point characteristics	Yes
Info item O Confirm contract	No
Info item E Request switch of supplier	Yes
Info item F Switch of supplier results	Yes
Info item G Notify accounting point characteristics to entitled parties	Yes
Info item H (gain) Notification switch of supplier to affected party	Yes
Info item H (loss) Notification switch of supplier to affected party	Yes
Info item ? Request meter read	Yes
Info item ? Meter read	Yes
Info item ? Reject meter read request	Yes

Table 3: Procedure 1: Switch supplier: Candidates for mapping to CIM

4.1.3 Contact new supplier (Business Process UseCase) [IR Activity 1.1]

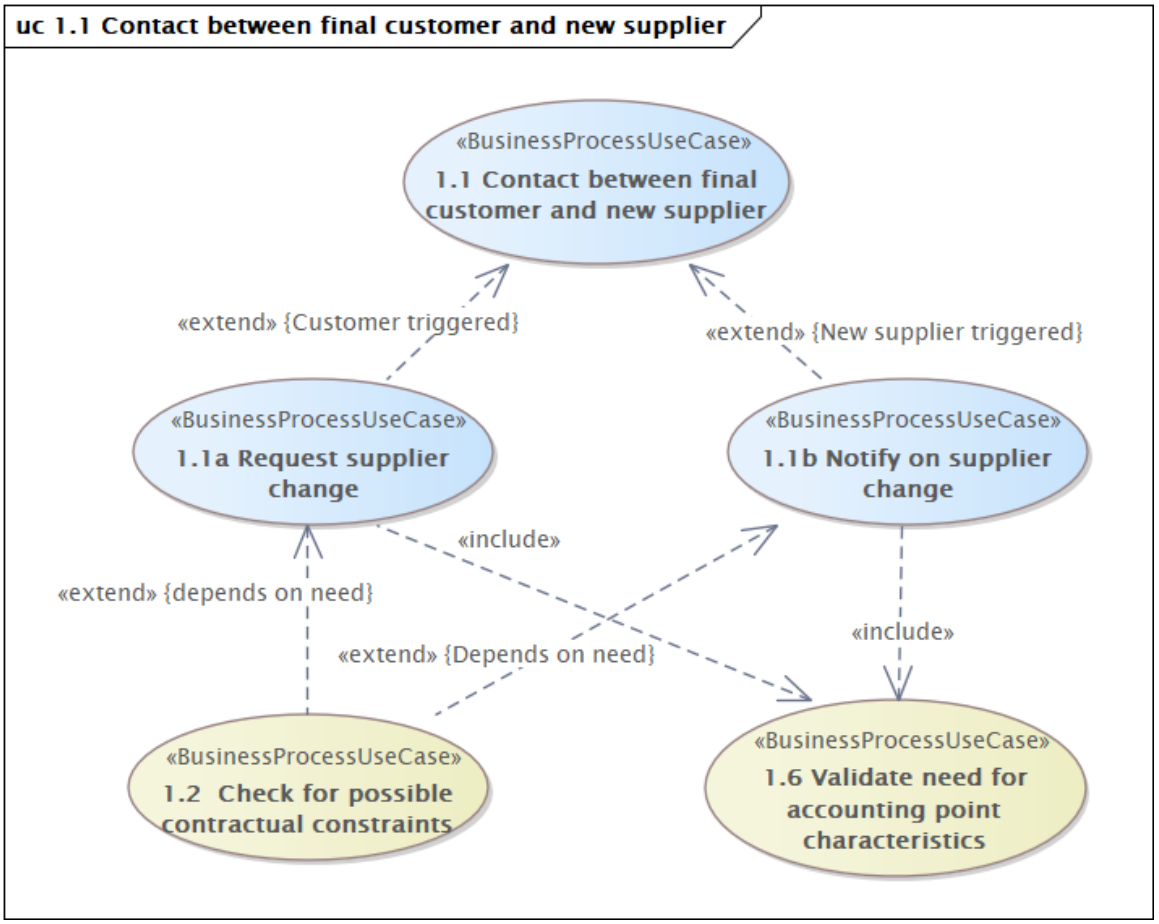


Figure 5: Business Process UseCase: [IR Activity 1.1] Contact new supplier

4.1.3.1 Description

UseCase description: [IR Activity 1.1] Contact new supplier	
definition	The final customer (or the potential new supplier) makes contact to request (or provide) an offer, which may lead to a new electricity supply contract and the ending of the existing contract with the current supplier.
beginsWhen	When a final customer and a new supplier intend to close a contract and initiate a make supply contract process as part of a switch supplier process. Either initiated by the final customer (1.1a) or the new supplier (1.1b).
preCondition	The new supplier can identify the final customer.
endsWhen	The new supplier and the final customer are ready to conclude a contract.
postCondition	When all requisites for making the supply-contract are fulfilled and a contract between the new supplier and the final customer can be settled.
exceptions	The final customer and the new supplier already have a contract and the process is aborted.
actions	See 4.1.3.2

Table 4: UseCase: [IR Activity 1.1] Contact new supplier

4.1.3.2 Business process

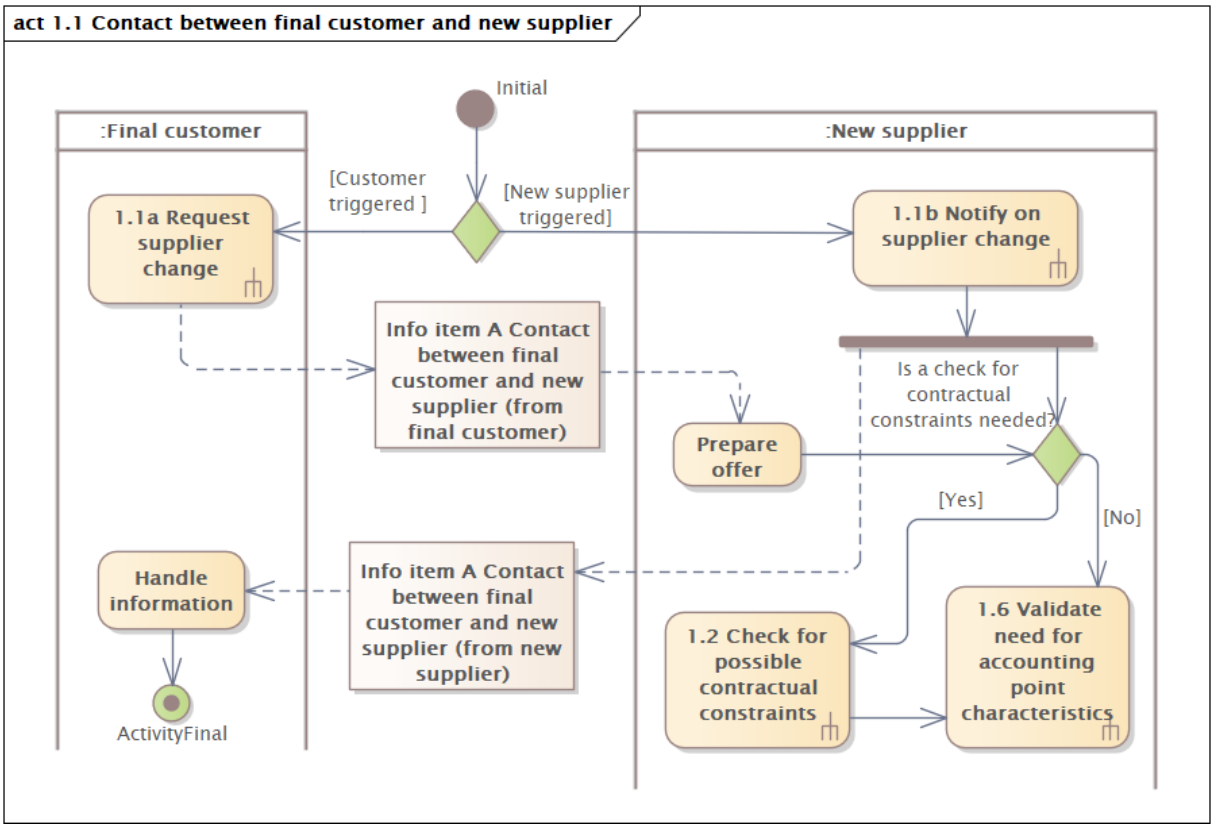


Figure 6: Business Process [IR Activity 1.1] Contact new supplier

4.1.3.3 Check for possible contractual constraints (Business Process UseCase) [IR Activity 1.2]

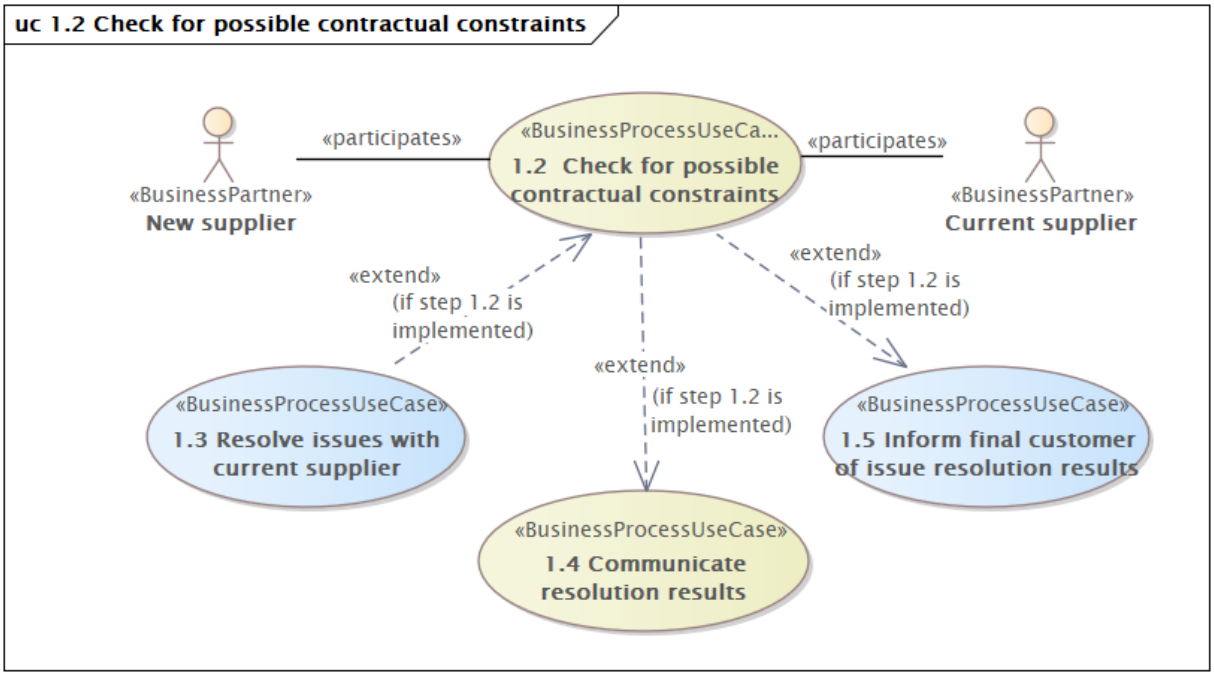


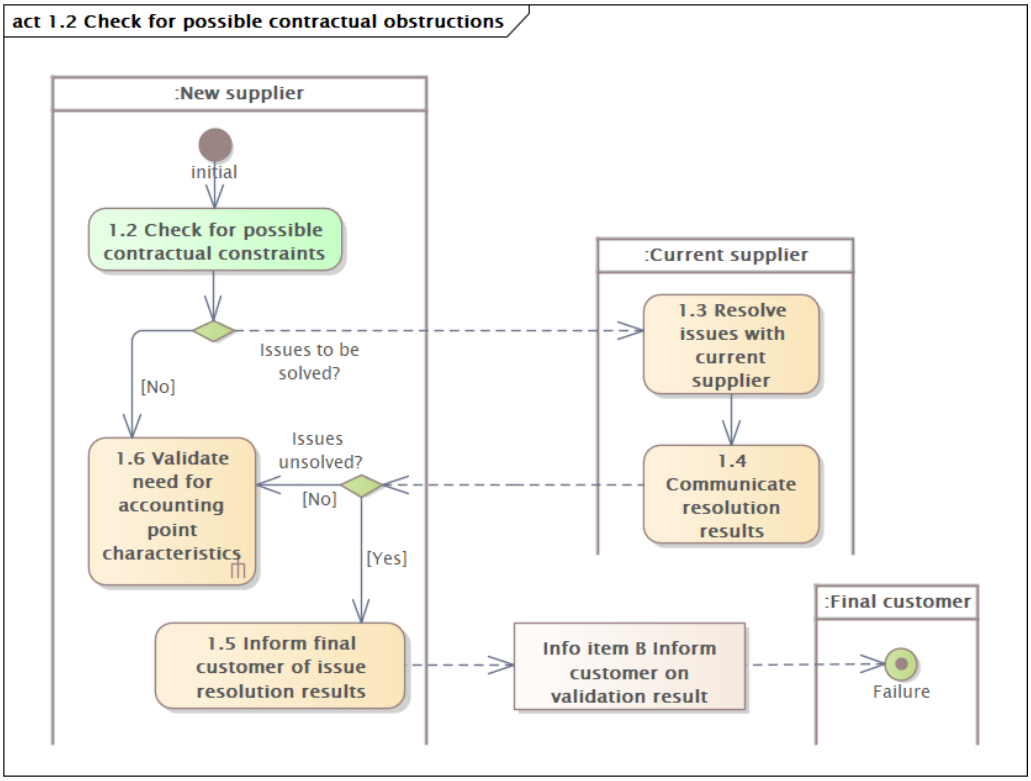
Figure 7: Business Process UseCase [IR Activity 1.2] Check for possible contractual constraints

4.1.3.3.1 Description

UseCase description: [IR Activity 1.2] Check for possible contractual constraints	
definition	Depending on national rules, the new supplier will check for possible contractual constraints with the current supply contract that could occur when the new supply contract is activated.
beginsWhen	When the new supplier has a need to identify and obtain critical supplier switch information.
preCondition	The accounting point id is available. The final customer has given relevant permissions to the new supplier.
endsWhen	When the critical information is obtained by the new supplier.
postCondition	The critical information is obtained.
exceptions	The process is feasible according to national rules.
actions	See 4.1.3.3.2

Table 5: UseCase description: [IR Activity 1.2] Check for possible contractual constraints

480 **4.1.3.3.2 Business process**



481

482 **Figure 8:** Business Process: 1.2 [IR Activity 1.2] Check for possible contractual constraints
483

4.1.3.3.3 Resolve issues with current supplier (Business Process UseCase) [IR Activity 1.3]

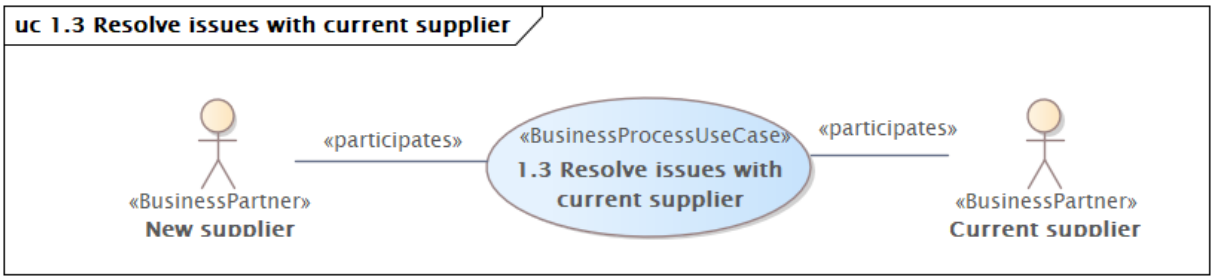


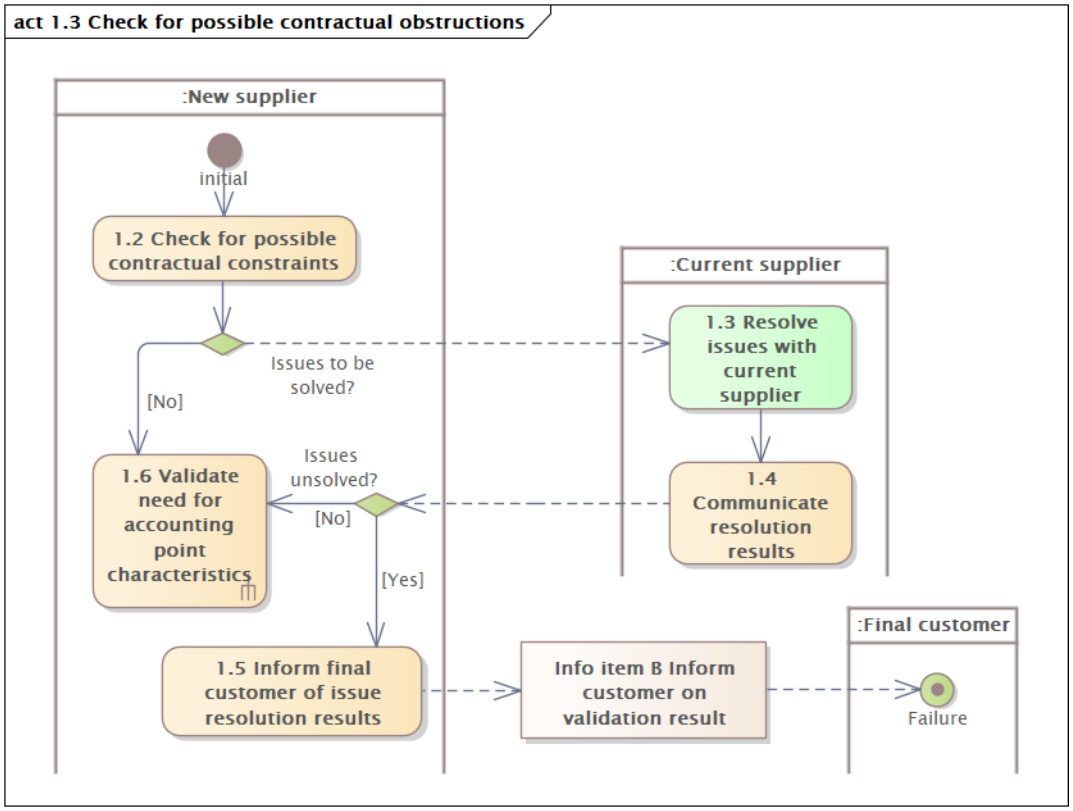
Figure 9: Business Process UseCase: [IR Activity 1.3] Resolve issues with current supplier

4.1.3.3.3.1 Description

UseCase description: [IR Activity 1.3] Resolve issues with current supplier	
definition	The new supplier distributes – on authorisation of the final customer – the needed information to solve issues with the current supplier for activation of the new supply contract.
beginsWhen	When the new supplier has a need to communicate with the current supplier about the contractual constraints.
preCondition	The final customer has given the relevant permissions.
endsWhen	When the current supplier is ready to send the solved issues to the new supplier.
postCondition	The current supplier has solved the possible issues.
exceptions	The issues couldn't be resolved, e.g. the current supplier disagree in the switch.
actions	See 4.1.3.3.3.2

Table 6: UseCase description: [IR Activity 1.3] Resolve issues with **current** Supplier

493 4.1.3.3.3.2 **Business process**



494
495
496 **Figure 10:** Business Process: [IR Activity 1.3] Resolve issues with current Supplier
497
498

4.1.3.3.4 Exchange issues result (Business Process UseCase) [IR Activity 1.4]

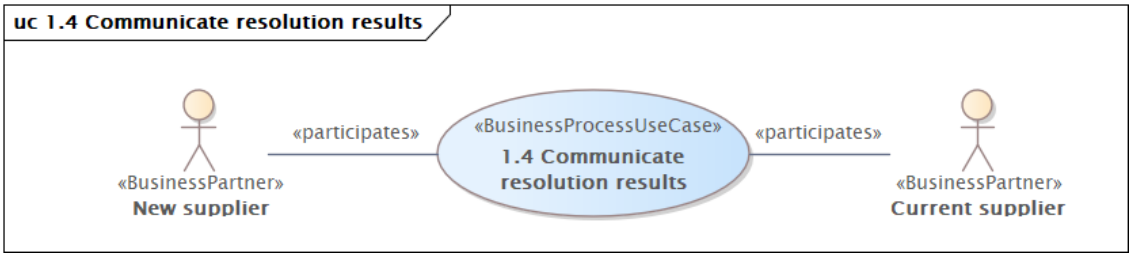


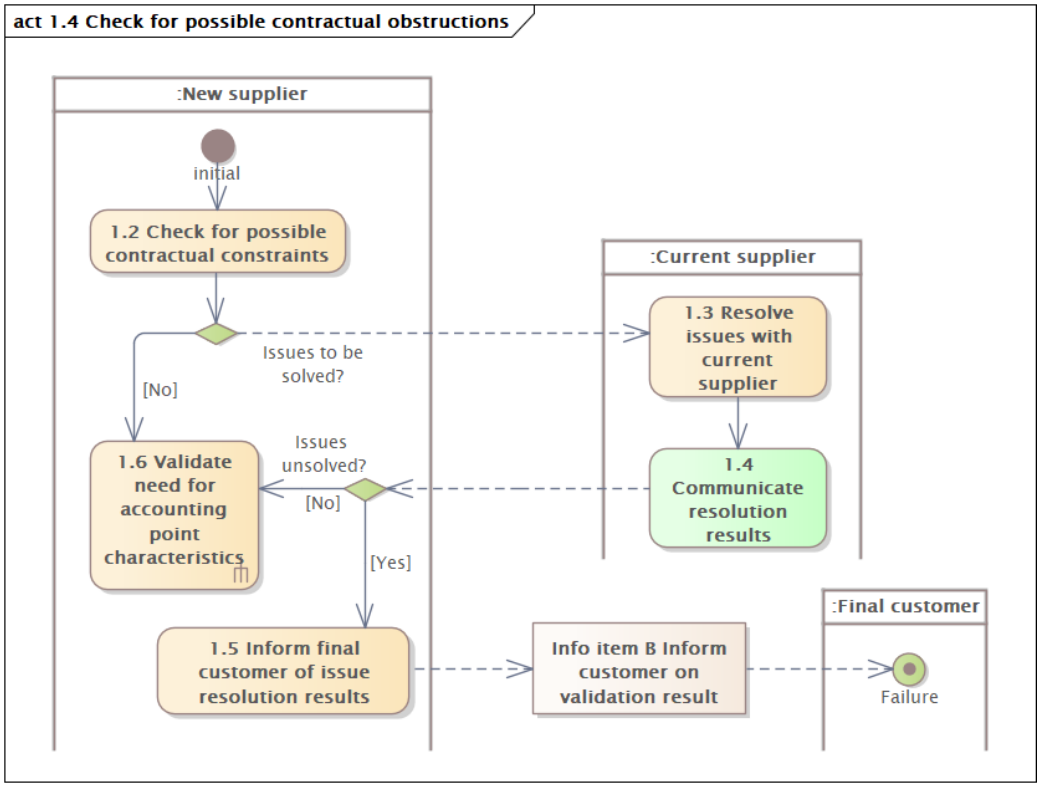
Figure 11: Business Process UseCase: [IR Activity 1.4] Communicate resolution results

4.1.3.3.4.1 Description

UseCase description: [IR Activity 1.4] Communicate resolution results	
definition	The current supplier informs the new supplier of the resolution results.
beginsWhen	When the current supplier has solved the relevant issues.
preCondition	The current supplier has solved the issues.
endsWhen	When the new supplier has received the resolution results.
postCondition	The contractual constraints are solved.
exceptions	The issues couldn't be solved, see "4.1.3.3.5 Inform final customer of issue resolution results (Business Process UseCase)"
actions	See 4.1.3.3.4.2

Table 7: UseCase description: [IR Activity 1.4] Communicate resolution results

506 4.1.3.3.4.2 **Business process**



507
508
509 **Figure 12:** Business Process: [IR Activity 1.4] Communicate resolution results

4.1.3.3.5 Inform final customer of issue resolution results (Business Process UseCase) [IR Activity 1.5]

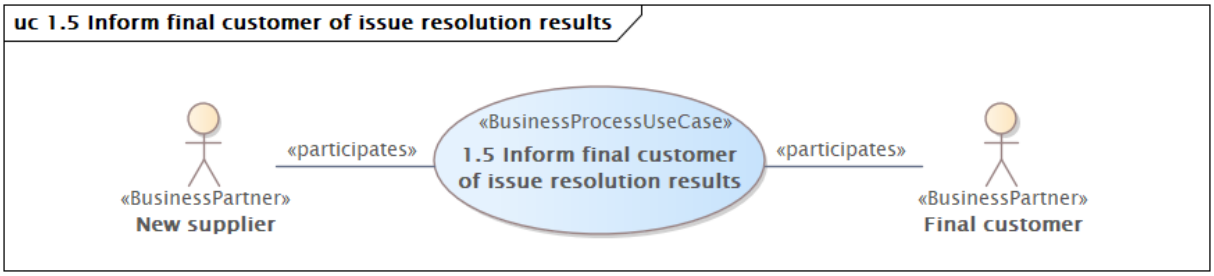


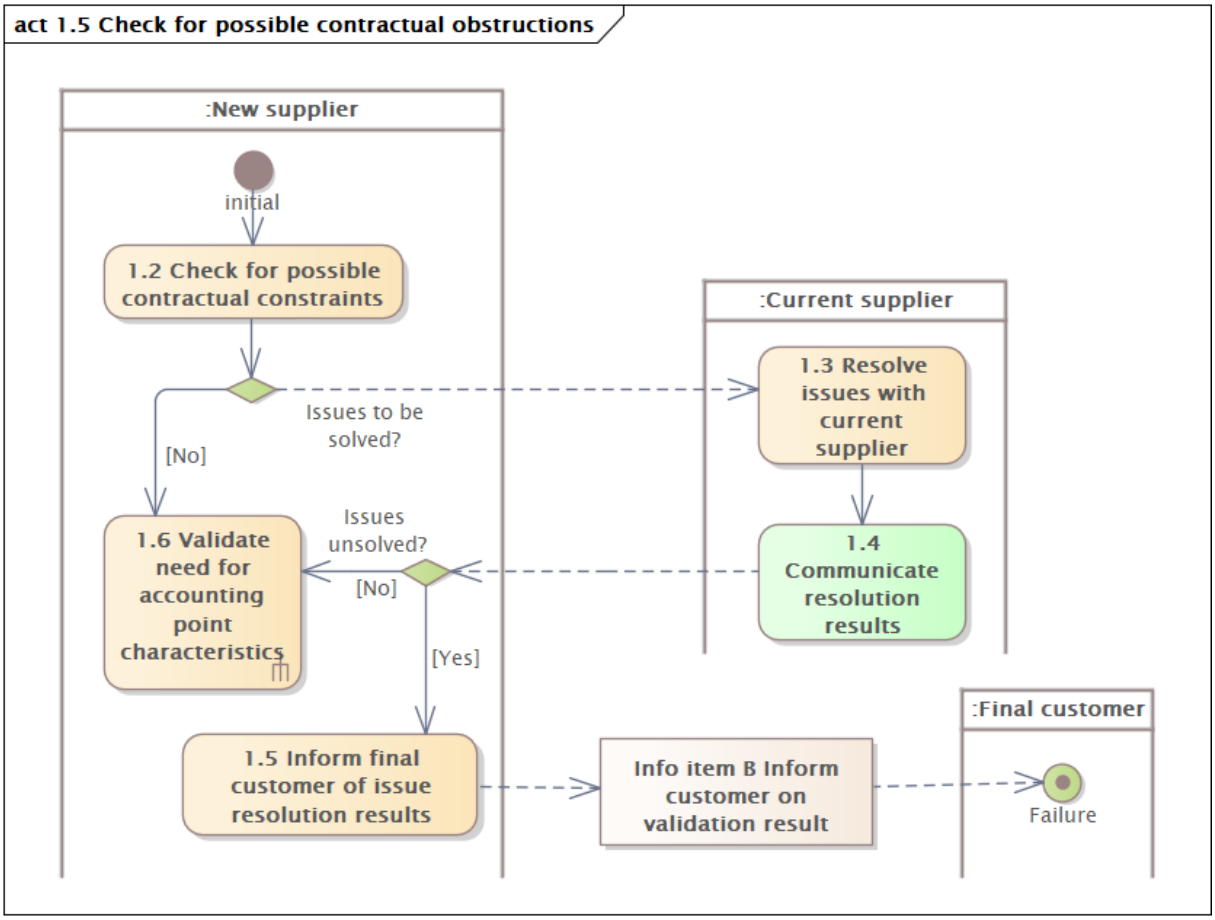
Figure 13: Business Process UseCase: [IR Activity 1.5] Inform final customer of issue resolution results

4.1.3.3.5.1 Description

UseCase description: [IR Activity 1.5] Inform final customer of issue resolution results	
definition	The new supplier informs the final customer of the result.
beginsWhen	When the new supplier has received a negative result from the current supplier, i.e. the issues couldn't be solved.
preCondition	The new supplier has received a negative result from the current supplier.
endsWhen	When the new supplier has informed the final customer about the negative result.
postCondition	The switch process has stopped.
exceptions	None.
actions	See 4.1.3.3.5.2

Table 8: UseCase description: [IR Activity 1.5] Inform final customer of issue resolution results

520 4.1.3.3.5.2 **Business process**



521
522
523 **Figure 14:** Business Process: [IR Activity 1.5] Inform final customer of issue resolution results
524
525

4.1.3.4 Validate need for accounting point characteristics (Business Process UseCase) [IR Activity 1.6]

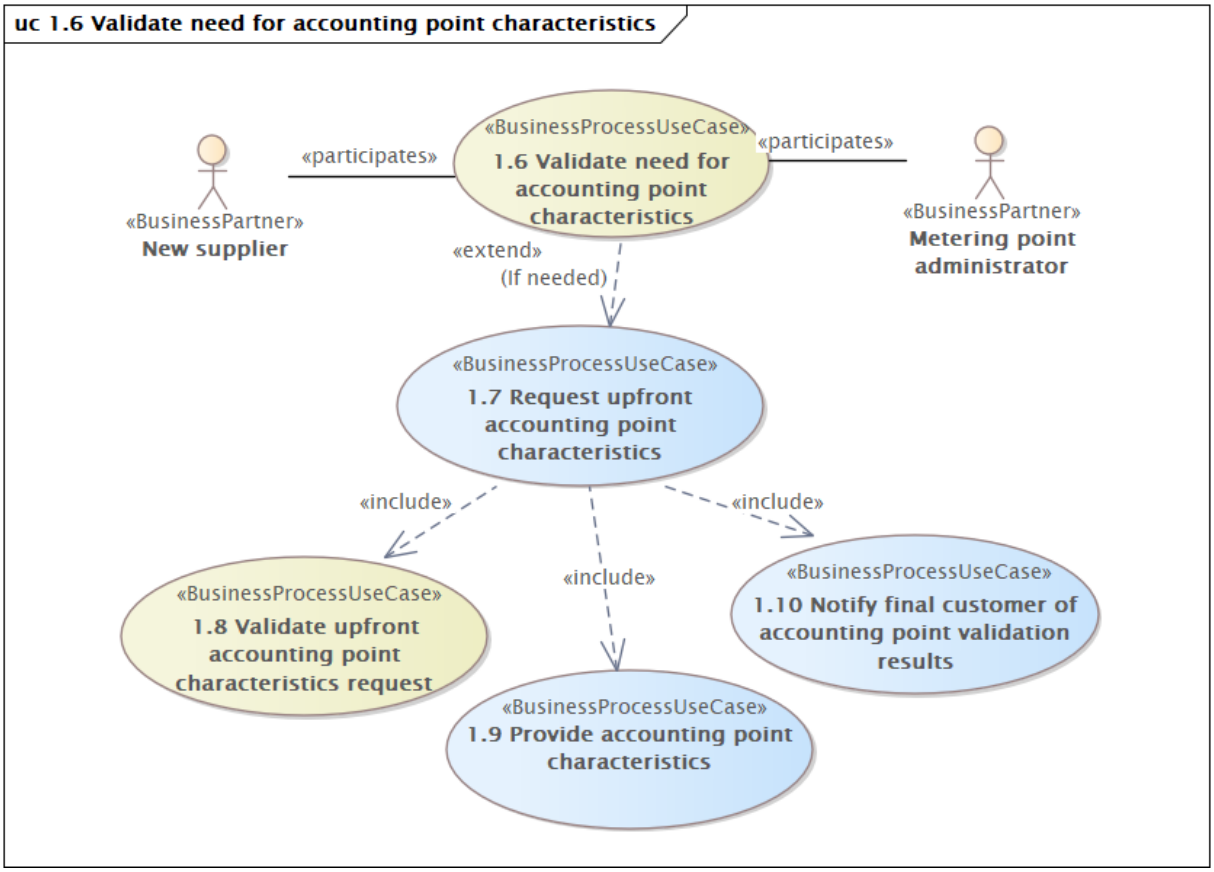


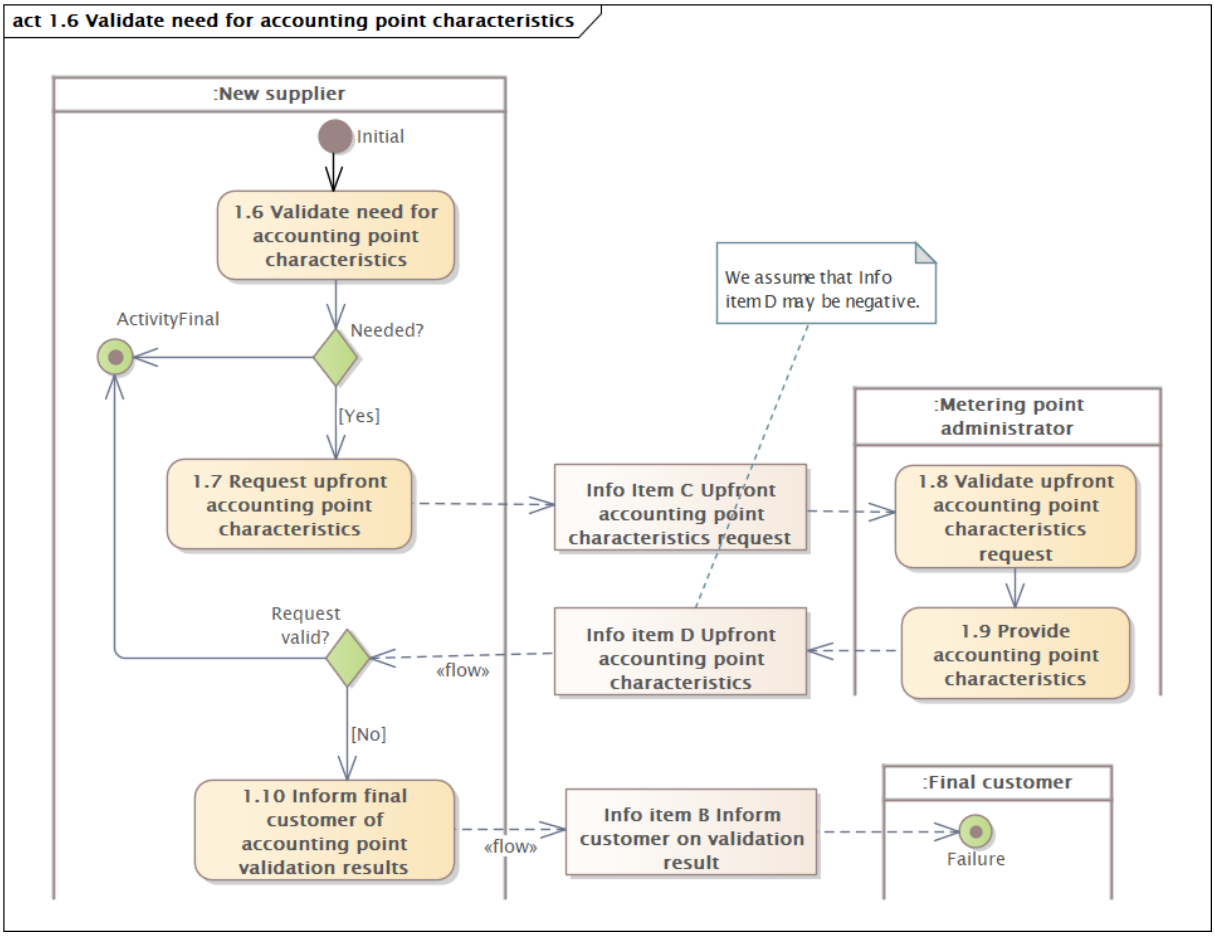
Figure 15: Business Process UseCase: [IR Activity 1.6] Validate need for accounting point characteristics

4.1.3.4.1 Description

UseCase description: [IR Activity 1.6] Validate need for accounting point characteristics	
definition	The new supplier decides whether he needs upfront accounting point characteristics. If needed, the upfront accounting point characteristics are requested, verified and handled by the new supplier and finally the final customer is informed of the accounting point validation result.
beginsWhen	When the new supplier has received a supplier switch request from the customer and, if the there was a need to check for contractual constraints, these have been positively solved.
preCondition	The accounting point id is available. The final customer has given relevant permissions to the new supplier.
endsWhen	The new supplier and the final customer are ready to sign a contract or the process is stopped.
postCondition	The accounting point characteristics are validated.
exceptions	The process is feasible according to national rules.
actions	See 4.1.3.4.2

533 **Table 9:** UseCase description: [IR Activity 1.6] Validate need for accounting point
534 characteristics
535

536 #### 4.1.3.4.2 Business process



537

538 **Figure 16:** Business Process: [IR Activity 1.6] Validate need for accounting point
539 characteristics
540

4.1.4 Request contract signing (Business Process UseCase) [IR Activity 1.11]

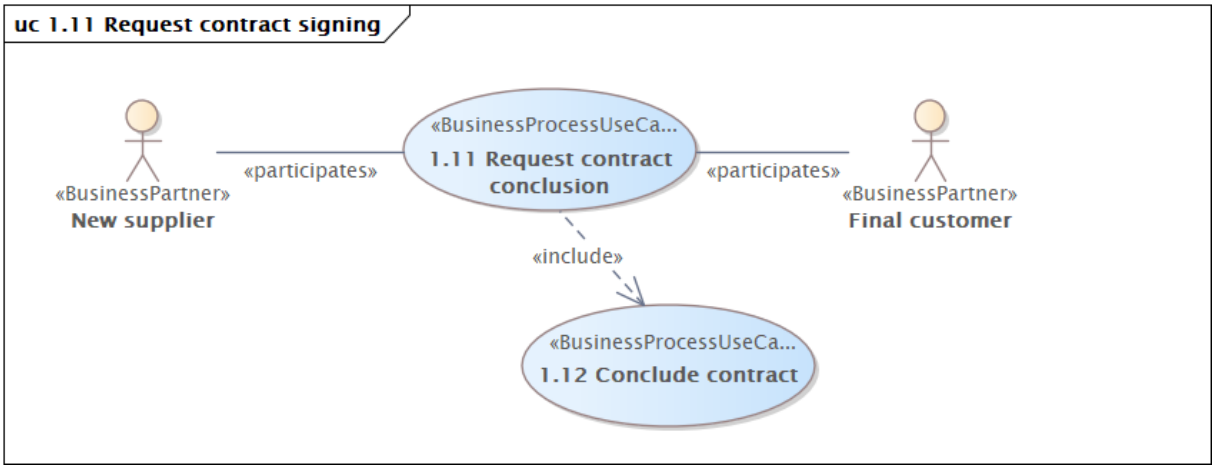


Figure 17: Business Process UseCase: [IR Activity 1.11] Request contract signing

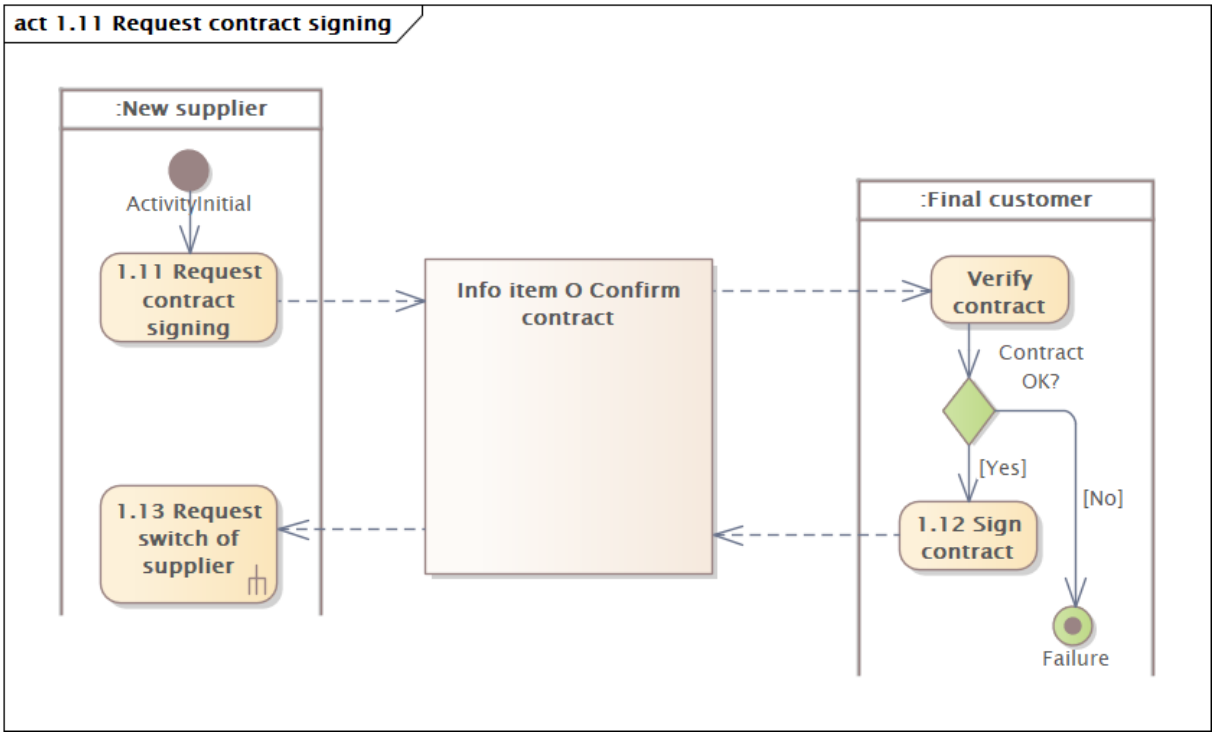
4.1.4.1 Description

UseCase description: [IR Activity 1.11] Request contract signing	
definition	The new supplier requests the contract to be signed by the final customer. Thereafter the final customer signs the contract and returns it to the new supplier.
beginsWhen	When the new supplier has all needed information to set up a new contract with the final customer.
preCondition	All possible constraints are solved and, if needed, upfront accounting point characteristics have been received.
endsWhen	When the final customer has signed the contract with the new supplier.
postCondition	The contract has been signed.
exceptions	The contract wasn't signed.
actions	See 4.1.4.2

Table 10: UseCase description: [IR Activity 1.11] Request contract signing

548 #### 4.1.4.2 Business process

549



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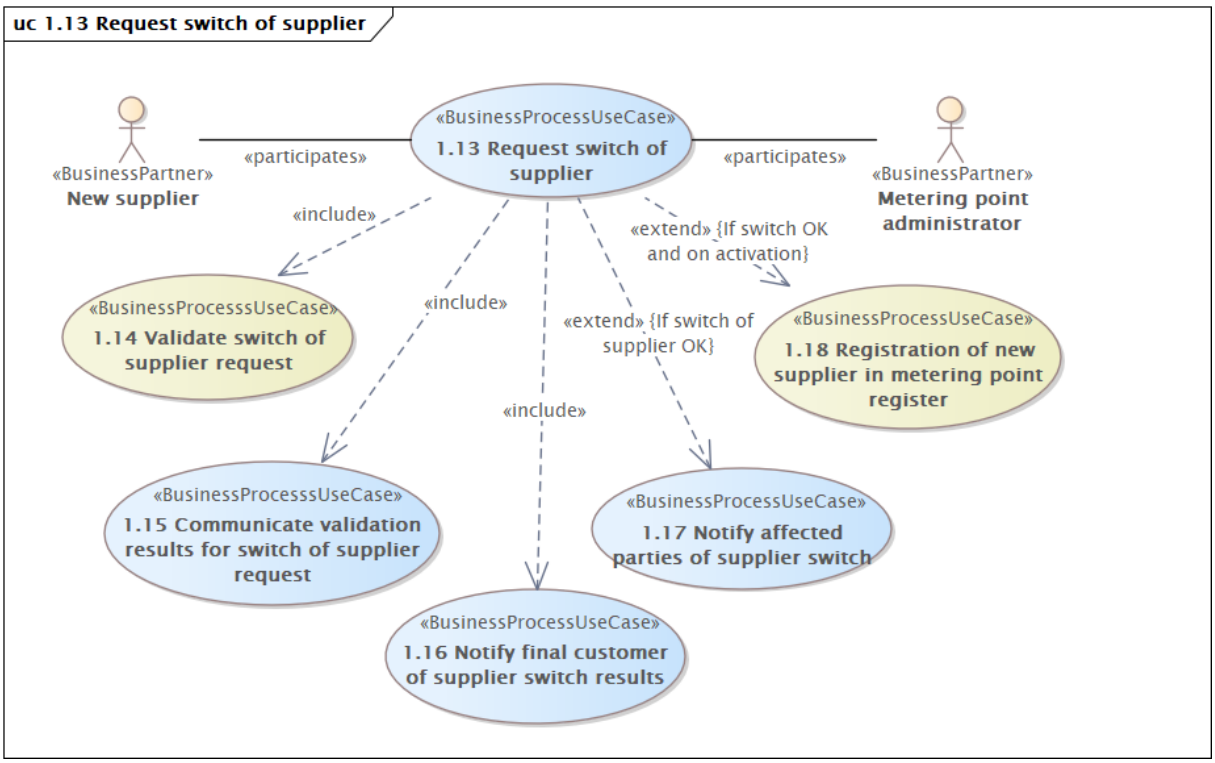
551 **Figure 18:** Business Process: [IR Activity 1.11] Request contract signing

552

553

554 ### 4.1.5 Request switch supplier (Business Process UseCase) [IR Activity 1.13]

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557 **Figure 19:** Business Process UseCase: [IR Activity 1.13] Request switch supplier
558

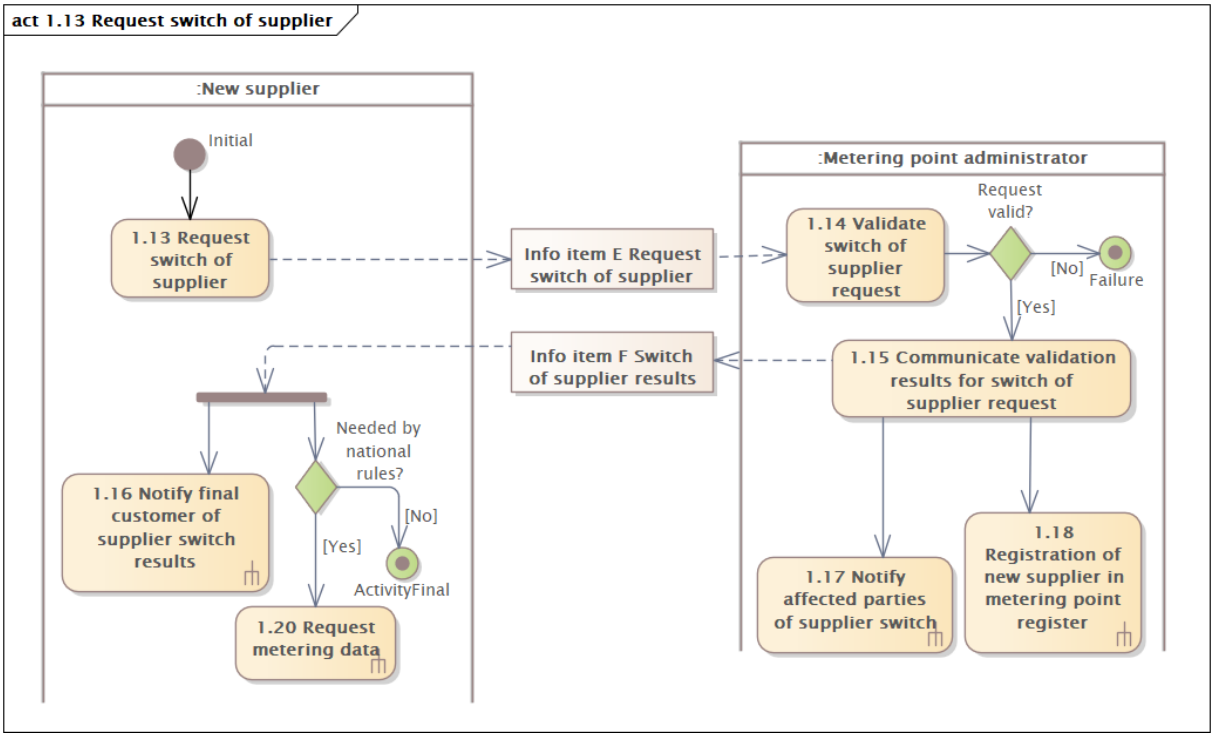
559 #### 4.1.5.1 Description

UseCase description: [IR Activity 1.13] Request switch supplier	
definition	The new supplier requests to be registered in the metering point register as the new supplier (together with its balance responsible party) for the accounting point per requested date.
beginsWhen	When the new supplier sends in the request for switch supplier.
preCondition	The final customer and the new supplier have signed a contract.
endsWhen	The new supplier is registered as the supplier in the metering point register and the affected parties are notified.
postCondition	The final customer has a new supplier.
exceptions	The metering point administrator couldn't do the switch.
actions	See 4.1.5.2

560 **Table 11:** UseCase description: [IR Activity 1.13] Request switch supplier
561

562 #### 4.1.5.2 Business process

563



564

565 **Figure 20:** Business Process: [IR Activity 1.13] Request switch supplier
566

4.1.5.3 Inform final customer of supplier switch results (Business Process UseCase) [IR Activity 1.16]

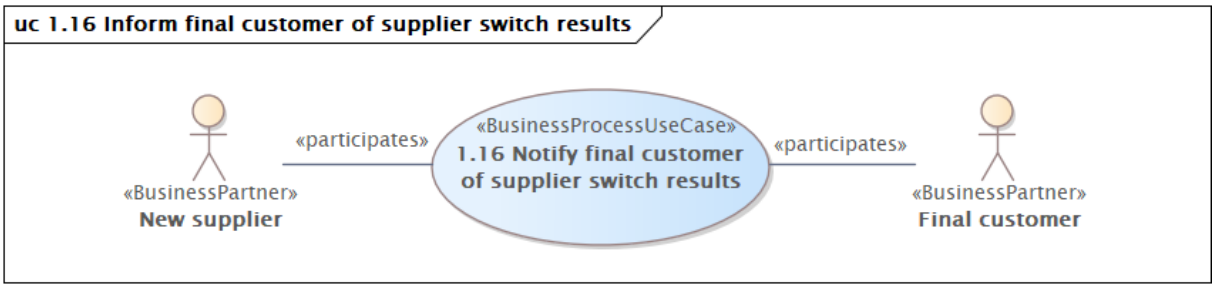


Figure 21: Business Process UseCase: [IR Activity 1.16] Inform final customer of supplier switch results

4.1.5.3.1 Description

UseCase description: [IR Activity 1.16] Inform final customer of supplier switch results	
definition	The new supplier informs the final customer of the supplier switch result.
beginsWhen	When the new supplier is registered as the supplier in the metering point register or when the switch has been rejected by the metering point administrator and the switch process stops.
preCondition	The request switch supplier has been processed by the metering point administrator.
endsWhen	When the new supplier has informed the final customer about the result of the supplier switch.
postCondition	The final customer has been informed of the switch supplier result.
exceptions	None.
actions	See 4.1.5.3.2

Table 12: UseCase description: [IR Activity 1.16] Inform final customer of supplier switch results

4.1.5.3.2 Business process

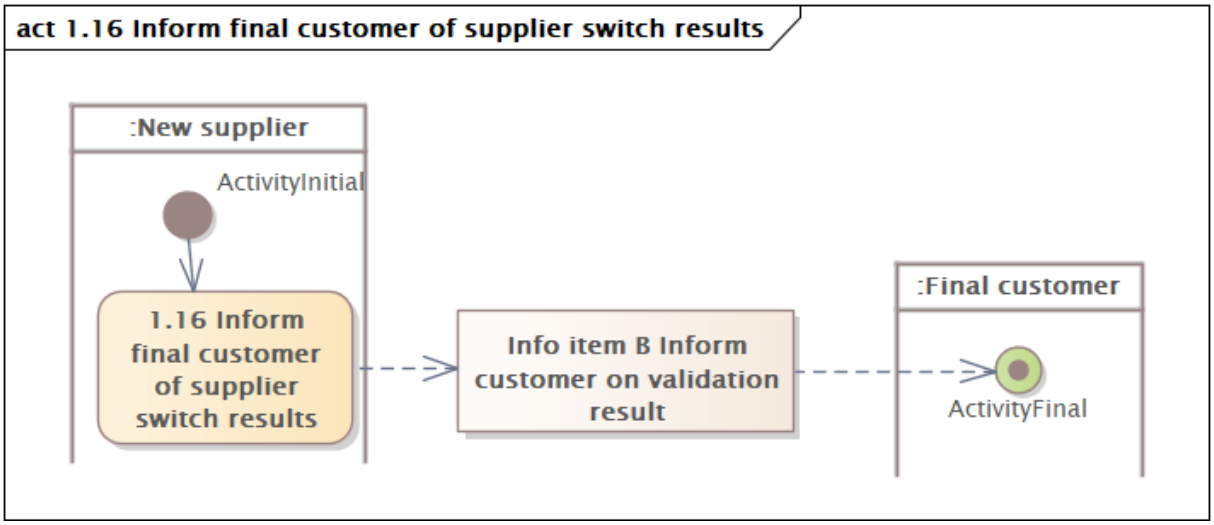


Figure 22: Business Process: [IR Activity 1.16] Inform final customer of supplier switch results

4.1.5.4 Notify affected parties of supplier switch (Business Process UseCase) [IR Activity 1.17]

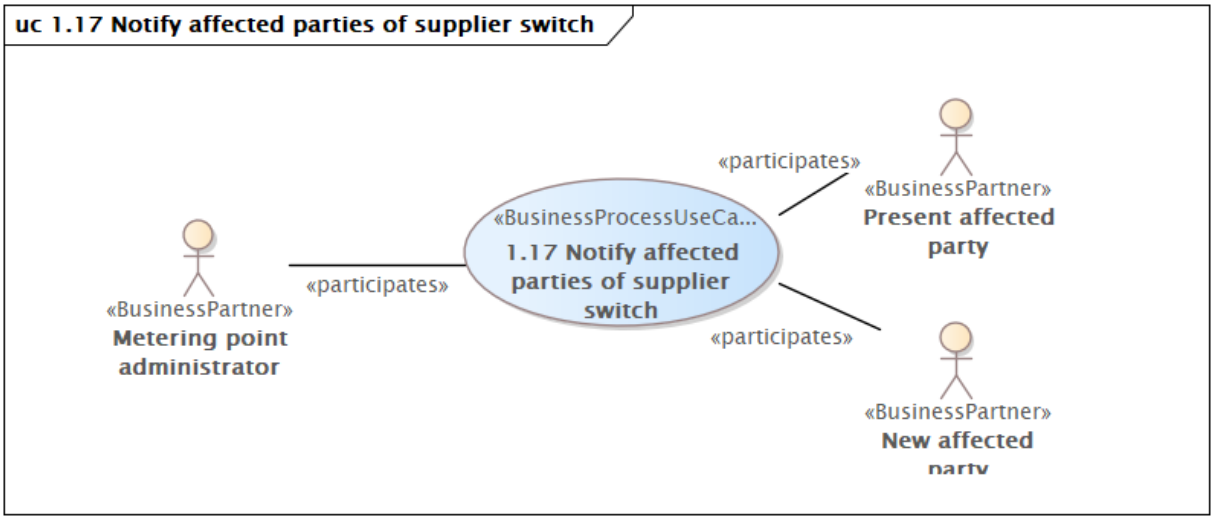


Figure 23: Business Process UseCase: [IR Activity 1.17] Notify affected parties of supplier switch

4.1.5.4.1 Description

UseCase description: [IR Activity 1.17] Notify affected parties of supplier switch	
definition	The metering point administrator notifies all affected parties directly after positive validation of the switch of supplier request
beginsWhen	When the new supplier is registered as the supplier in the metering point register.
preCondition	The request switch supplier has been processed by the metering point administrator.
endsWhen	When the metering point administrator has informed all affected parties about the supplier switch.
postCondition	All affected parties have been informed about the supplier switch.
exceptions	None.
actions	See 4.1.5.4.2

Table 13: UseCase description: [IR Activity 1.17] Notify affected parties of supplier switch

4.1.5.4.2 Business process

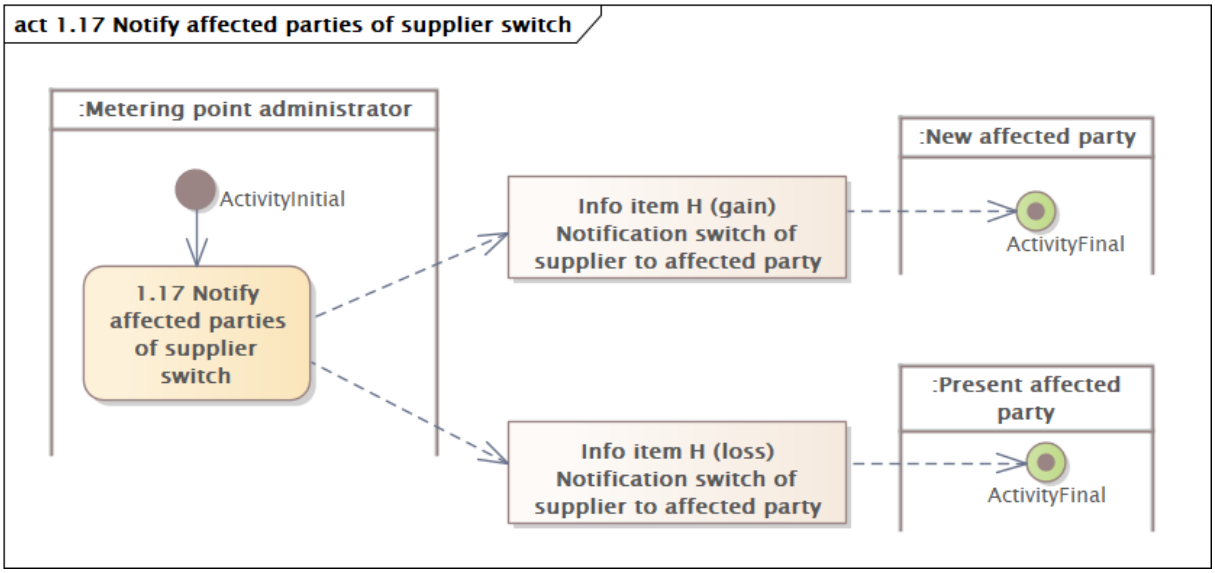


Figure 24: Business Process: [IR Activity 1.17] Notify affected parties of supplier switch

4.1.5.5 Registration of new supplier in Metering Point register (Business Process UseCase) [IR Activity 1.18]

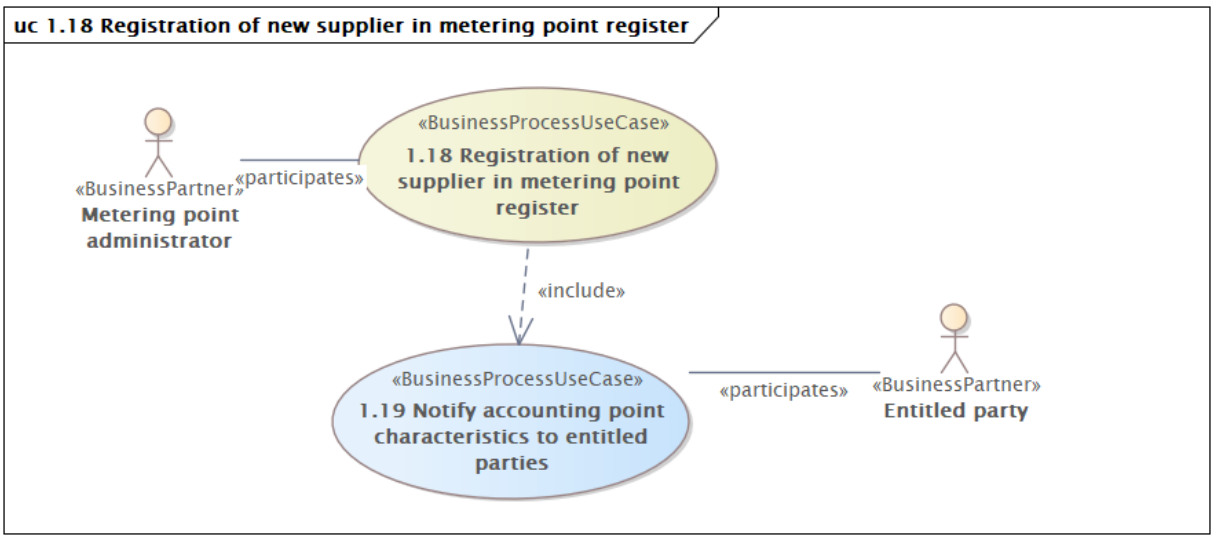


Figure 25: Business Process UseCase: [IR Activity 1.18] Registration of new supplier in Metering Point register

4.1.5.5.1 Description

UseCase description: [IR Activity 1.18] Registration of new supplier in Metering Point register	
definition	The metering point administrator registers the new supplier (along with the balance responsible party) in the metering point register as the supplier for the accounting point, effective as of the specified date. The metering point administrator also makes all necessary updates to complete the switch of supplier.
beginsWhen	When the metering point administrator has confirmed a successful switch of supplier to the new supplier.
preCondition	The metering point administrator has confirmed the request switch of supplier to the new supplier.
endsWhen	When the metering point administrator has informed all entitled parties about the supplier switch.
postCondition	All entitled parties have been informed about the supplier switch.
exceptions	The switch of supplier failed.
actions	See 4.1.5.5.2

Table 14: UseCase description: [IR Activity 1.18] Registration of new supplier in Metering Point register

4.1.5.5.2 Business process

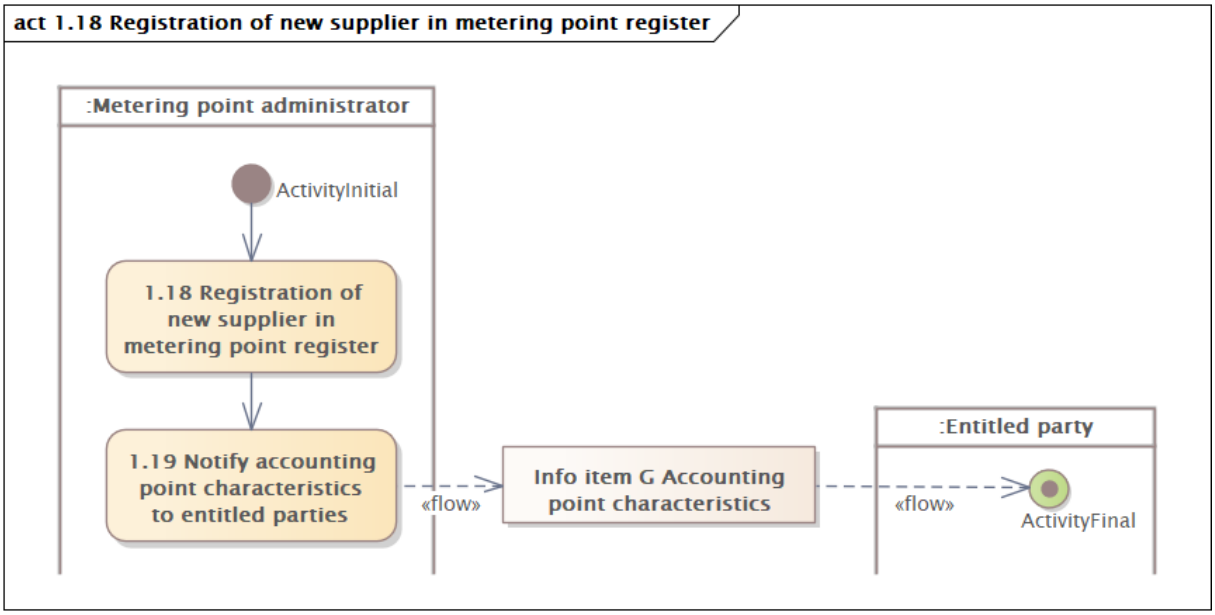


Figure 26: Business Process: [IR Activity 1.18] Registration of new supplier in Metering Point register

4.1.6 Request meter read (Business Process UseCase) [IR Activity 1.20]

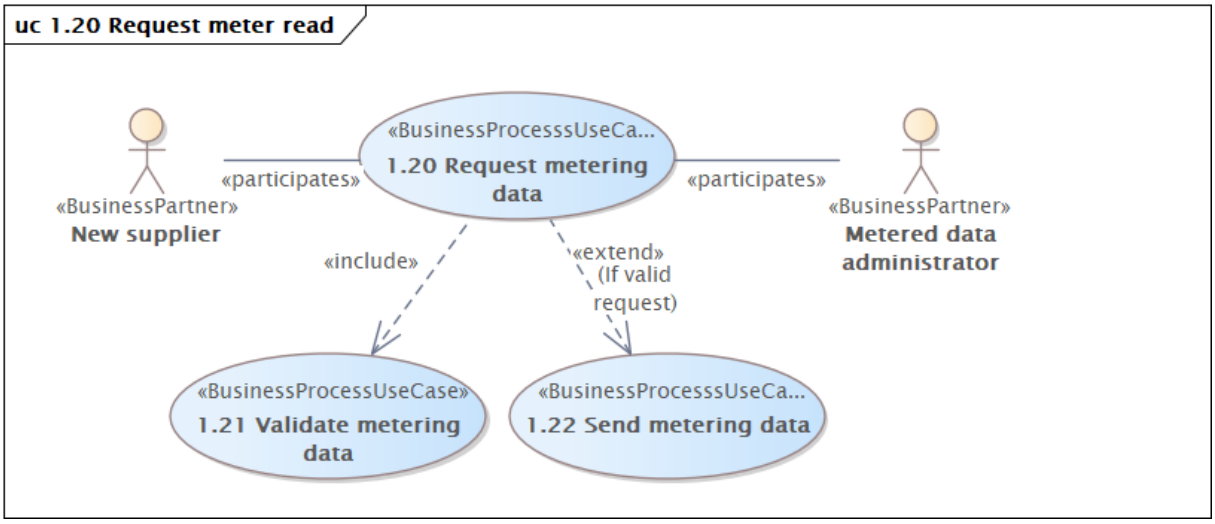


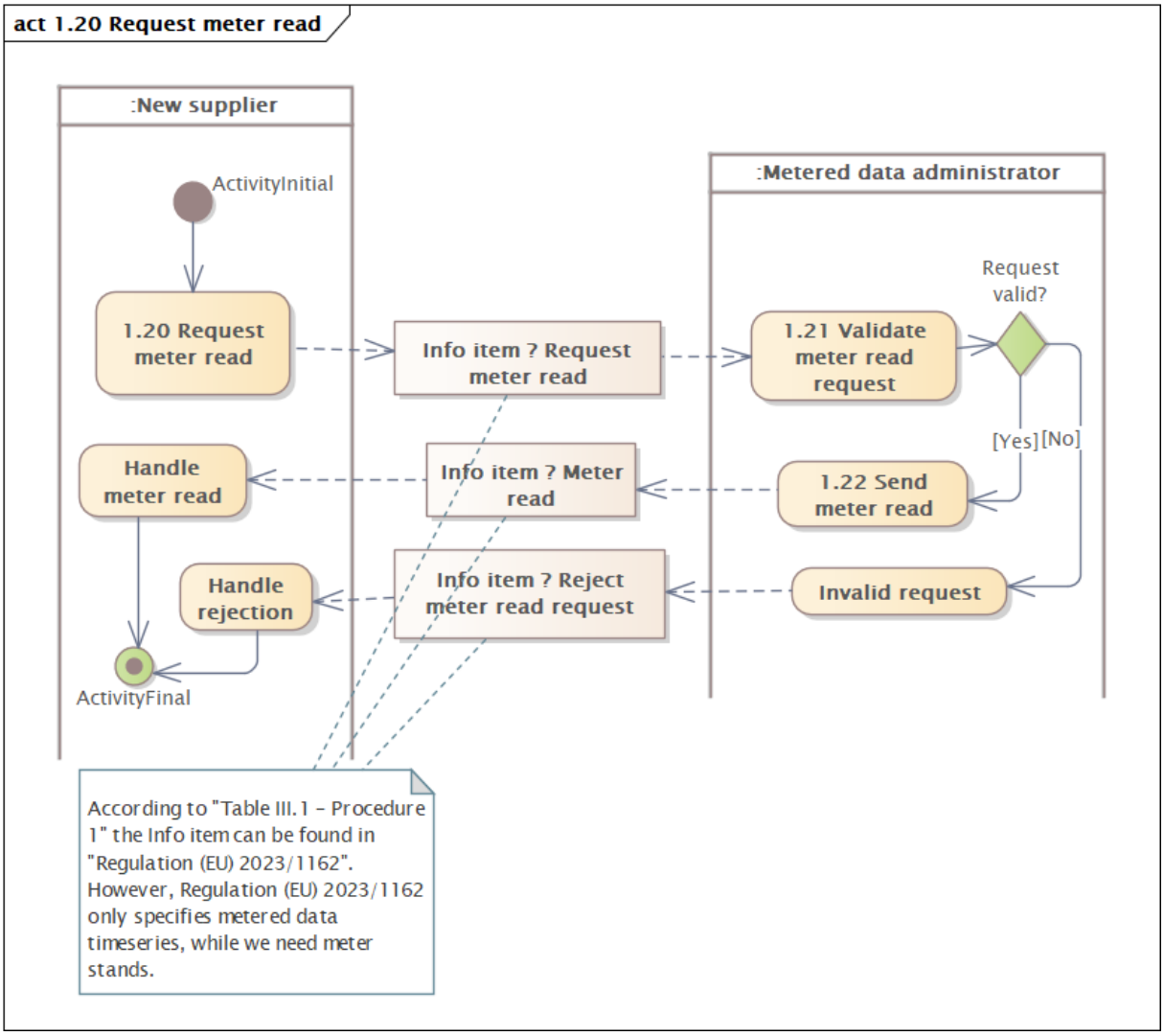
Figure 27: Business Process UseCase: [IR Activity 1.20] Request meter read

4.1.6.1 Description

UseCase description: [IR Activity 1.20] Request meter read	
definition	The new supplier requests a meter read for the effective date of the switch of supplier at the accounting point to ensure accurate billing.
beginsWhen	When the new supplier sends in the request for meter read.
preCondition	The switch has been activated.
endsWhen	The metered data administrator has sent the meter read.
postCondition	The new supplier has received the meter read.
exceptions	The request for metering read was rejected.
actions	See 4.1.6.2

Table 15: UseCase description: [IR Activity 1.20] Request meter read

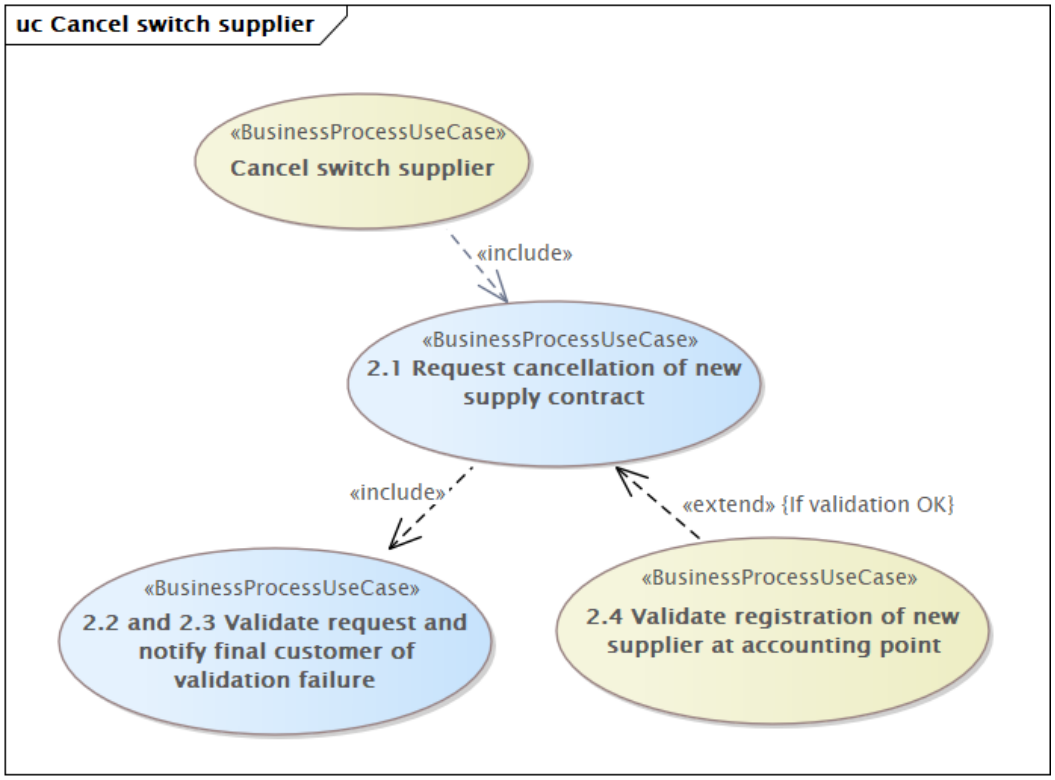
622 **4.1.6.2 Business process**



623

624 **Figure 28:** Business Process: [IR Activity 1.20] Request meter read
625

626 ## 4.2 Procedure 2: Cancellation of switching supplier (Business Process UseCase)



627

628 **Figure 29:** Business Process UseCase: Cancel switch supplier
629
630

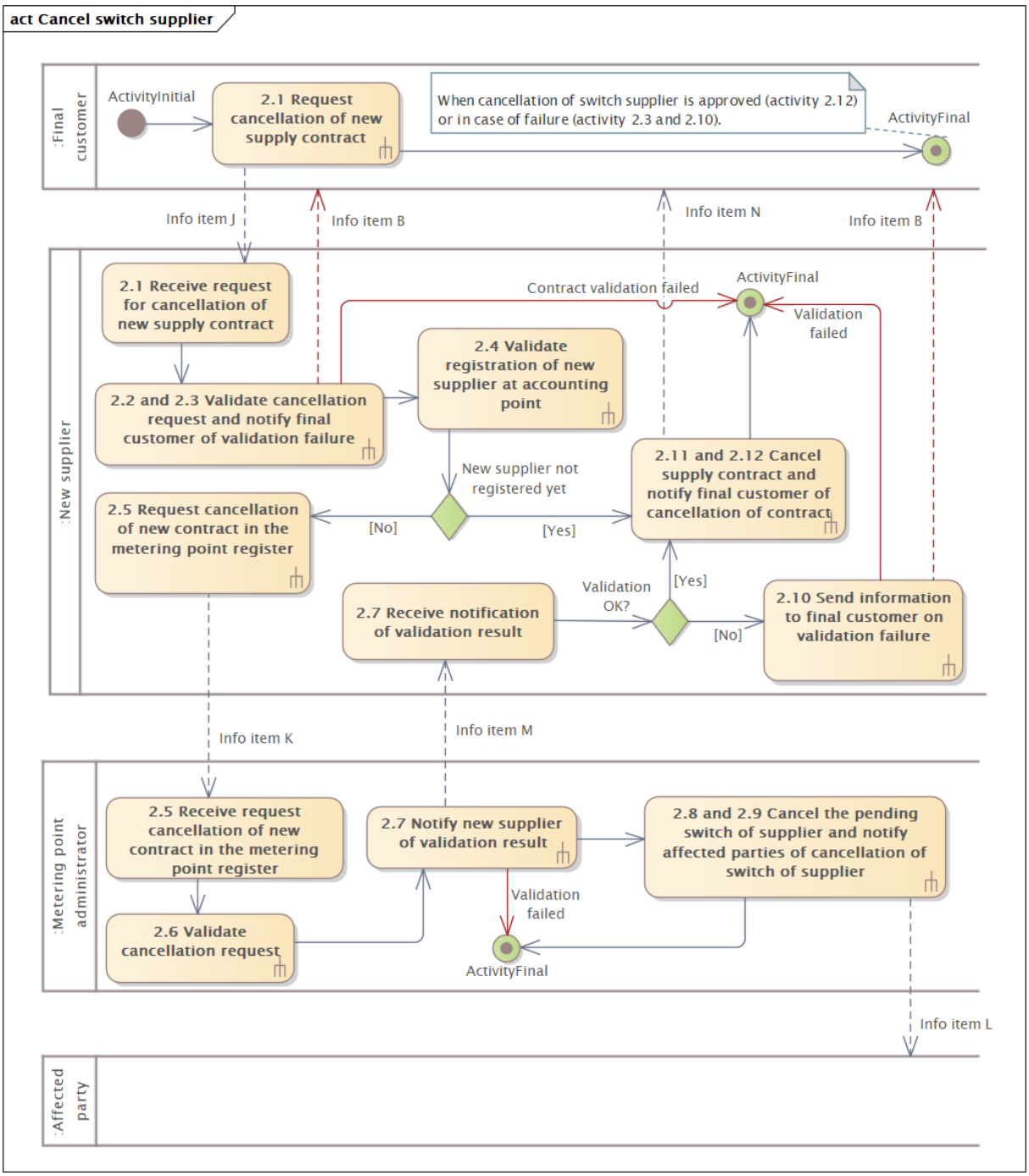
631 ### 4.2.1 Description

UseCase description: Cancel switch supplier	
definition	This is an overview UseCase. The procedure *'cancellation of switching supplier'* allows for the revocation of a supplier switch notification initiated through the *'switching supplier'* procedure. The implementation of that procedure is to a certain extent dependent on national rules governing the application of final customer's right to cancel the new supply contract within the allowed withdrawal period. In national settings, a standard sub-procedure based on contractual law, and linked to the withdrawal period, may be used, which is applicable across all sectors, including the electricity sector, as well as for all services and goods. As a result, steps of the *'cancellation of switching supplier'* procedure are to be understood and implemented without affecting the national rules and procedures for handling the allowed withdrawal period.
beginsWhen	When the final customer submits a request to cancel the new supply contract to the newly contracted supplier.
preCondition	The final customer has a supply contract with the new supplier. The supply of electricity based on the new contract has not yet started.
endsWhen	When the request for cancellation of switch supplier is confirmed, and all eligible parties are informed about the cancellation of switch of supplier.
postCondition	The final customer still has the current supplier at the accounting point, and all eligible parties have been informed.
exceptions	The request for cancellation of switch supplier is rejected, and the cancellation process is aborted.
actions	Not applicable at this level.

632 **Table 16:** UseCase description: Cancel switch supplier
633

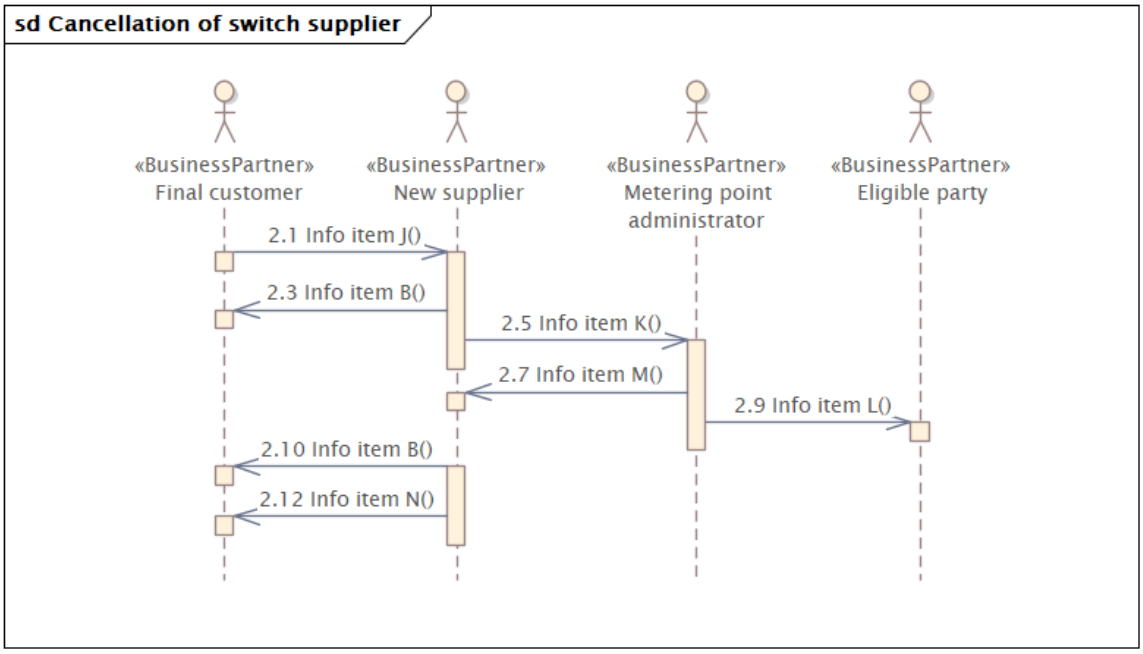
634 ### 4.2.2 Overview of «Business Process» Cancel switch supplier

635



636

637 **Figure 30:** Business Process: Cancel switch supplier



638

639 **Figure 31:** Sequence diagram: Cancel switch supplier
640

Procedure 1: Candidates for mapping to CIM	Mapping to CIM
Info item J Request cancellation of contract	No
Info item B Inform customer on validation result	No
Info Item K Request cancel switch of supplier in metering point register	Yes
Info item L Notification on cancellation switch of supplier in metering point register to affected parties	Yes
Info item M Notification on cancellation to supplier	Yes
Info item N Notification of cancellation of switch of supplier to final customer	No

641
642 **Table 17:** Procedure 1: Cancel switch supplier - Candidates for mapping to CIM
643
644
645

4.2.3 Request cancellation of new supply contract, validate request and if failure notify final customer of the validation failure (Business Process UseCase) [IR Activity 2.1]

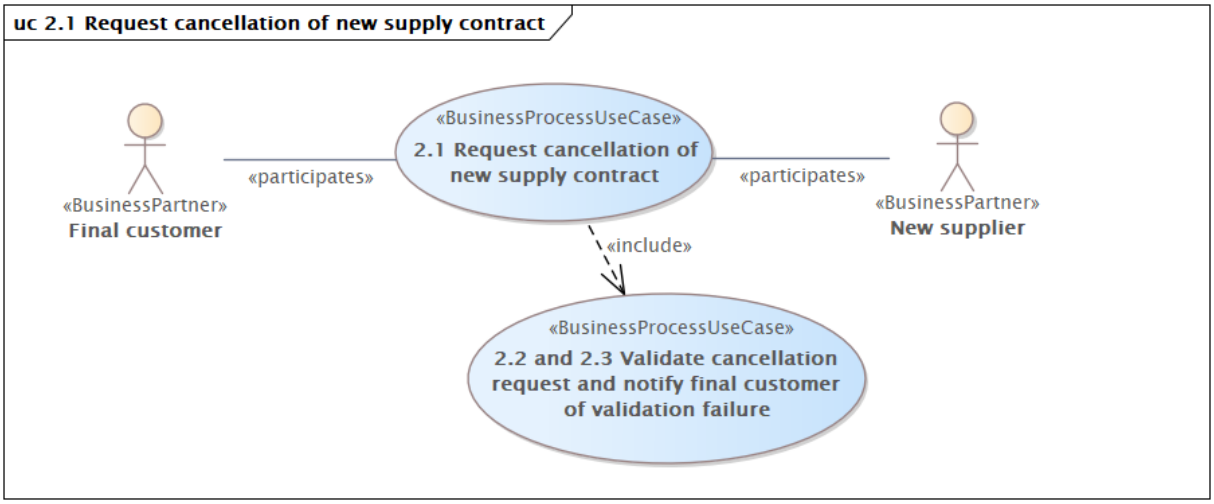


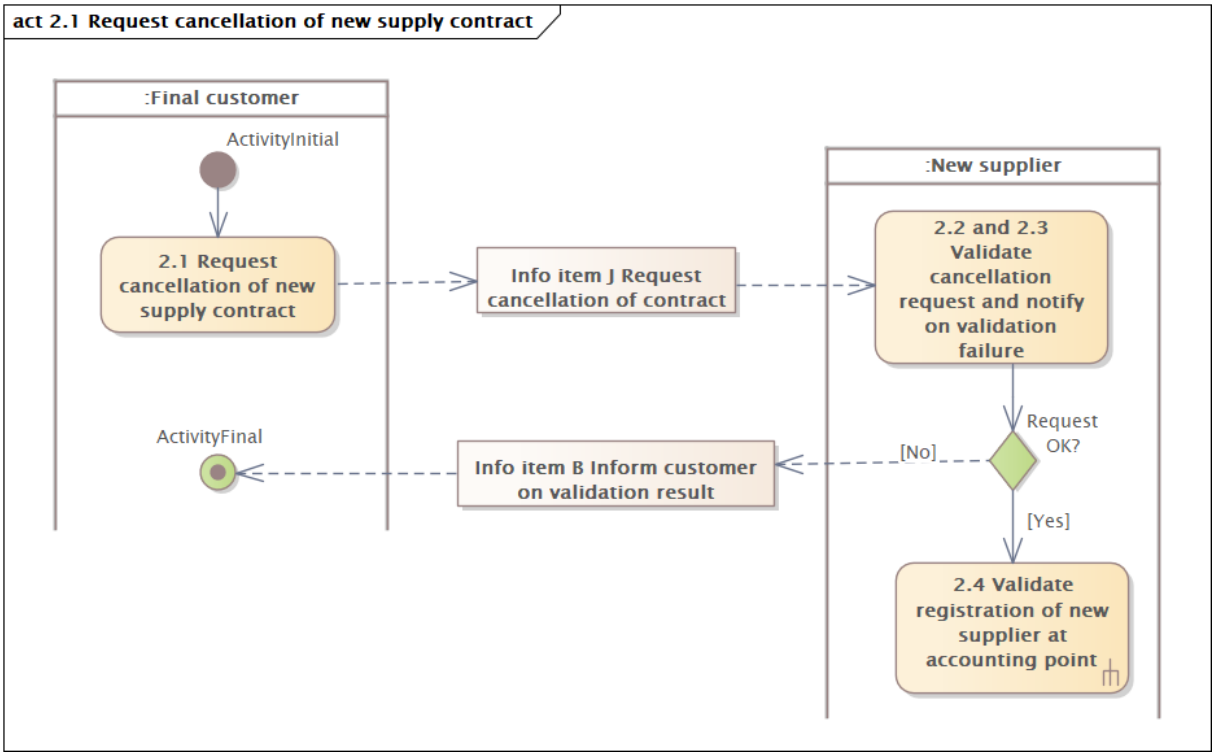
Figure 32: Business Process UseCase: [IR Activity 2.1, 2.2 and 2.3] Request cancellation of new supply contract, validate request and if failure notify final customer of the validation failure

4.2.3.1 Description

UseCase description: [IR Activity 2.1, 2.2 and 2.3] Request cancellation of new supply contract, validate request and if failure notify final customer of the validation failure	
definition	The final customer submits a request to cancel the new supply contract to the newly contracted supplier.
beginsWhen	When the final customer submits the request.
preCondition	The final customer has a supply contract with the new supplier. The supply of electricity based on the new contract has not yet started.
endsWhen	When the new supplier has verified the request to cancel the new supply contract and either sends a rejection to the final customer or start verifying if the metering point administrator is informed of the switch.
postCondition	The request for cancellation is validated, and the cancellation is either rejected, or the new supplier validates if the switch already is forwarded to the metering point administrator.
exceptions	None.
actions	See 4.2.4.2

Table 18: UseCase description: [IR Activity 2.1, 2.2 and 2.3] Request cancellation of new supply contract, validate request and if failure notify final customer of the validation failure

660 #### 4.2.3.2 Business process



661
662
663 **Figure 33:** Business Process: [IR Activity 2.1, 2.2 and 2.3] Request cancellation of new
664 supply contract, validate request and if failure notify final customer of the validation failure
665
666
667
668

4.2.4 Validate registration of new supplier at accounting point (Business Process UseCase) [IR Activity 2.4]

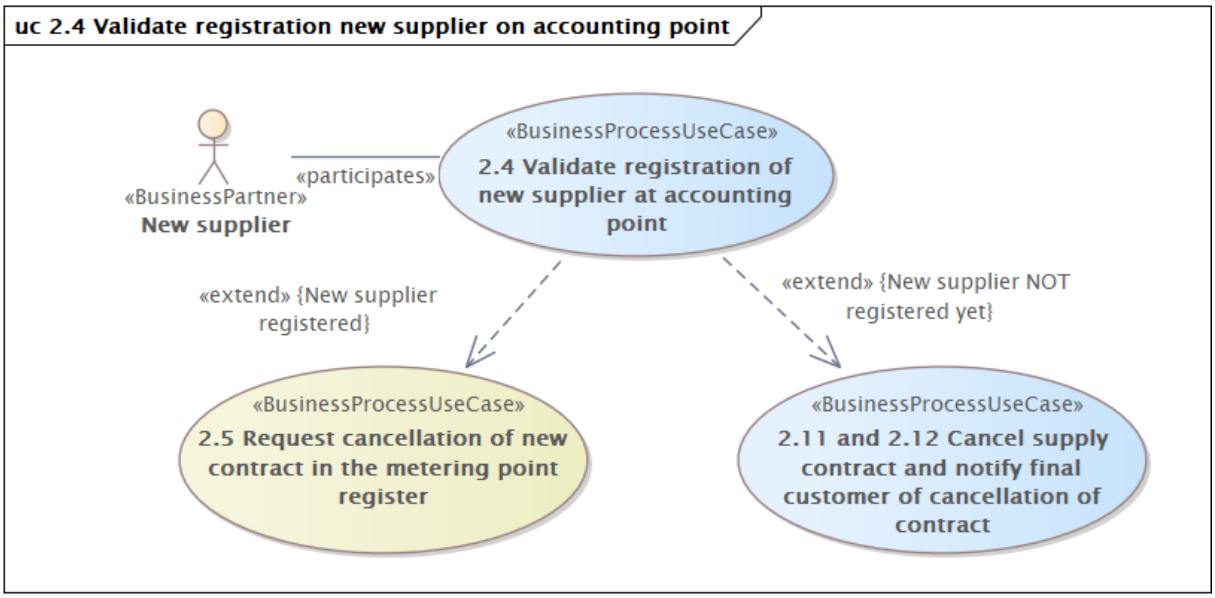


Figure 34: Business Process UseCase: [IR Activity 2.4] Validate registration of new supplier at accounting point

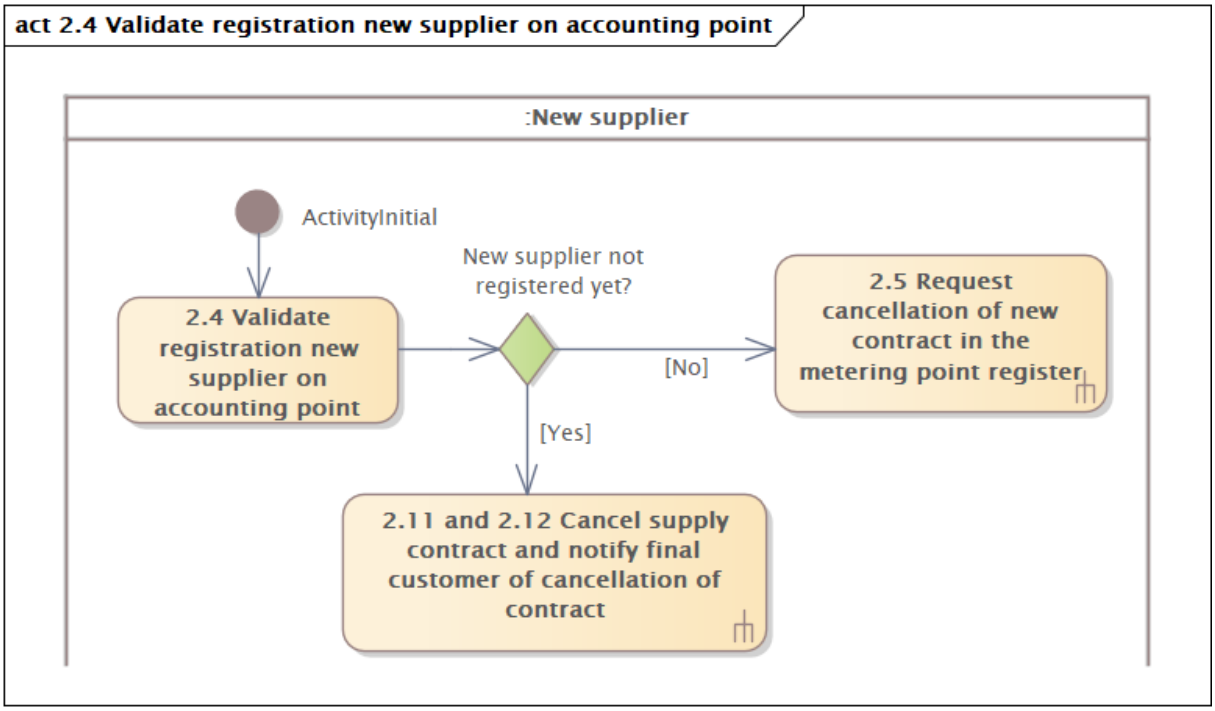
4.2.4.1 Description

UseCase description: [IR Activity 2.4] Validate registration of new supplier at accounting point	
definition	The new supplier validates the registration of the switch of supplier request in the metering point register in accordance with the new contract, and dependent on the outcome either requests cancellation in the metering point register or cancel the contract and notify final customer of cancellation of contract.
beginsWhen	When the new supplier has accepted the cancellation of the new supply contract.
preCondition	The new supplier has verified the cancellation of the new supply contract.
endsWhen	The request for cancellation is processed by the new supplier.
postCondition	If the metering point administrator is NOT informed about the switch; the new supplier has confirmed the cancellation to the final customer. If the metering point administrator is informed about the switch; the new supplier has forwarded the cancellation to the metering point administrator.
exceptions	None.
actions	See 4.2.4.2

Table 19: UseCase description: [IR Activity 2.4] Validate registration of new supplier at accounting point

680 #### 4.2.4.2 Business process

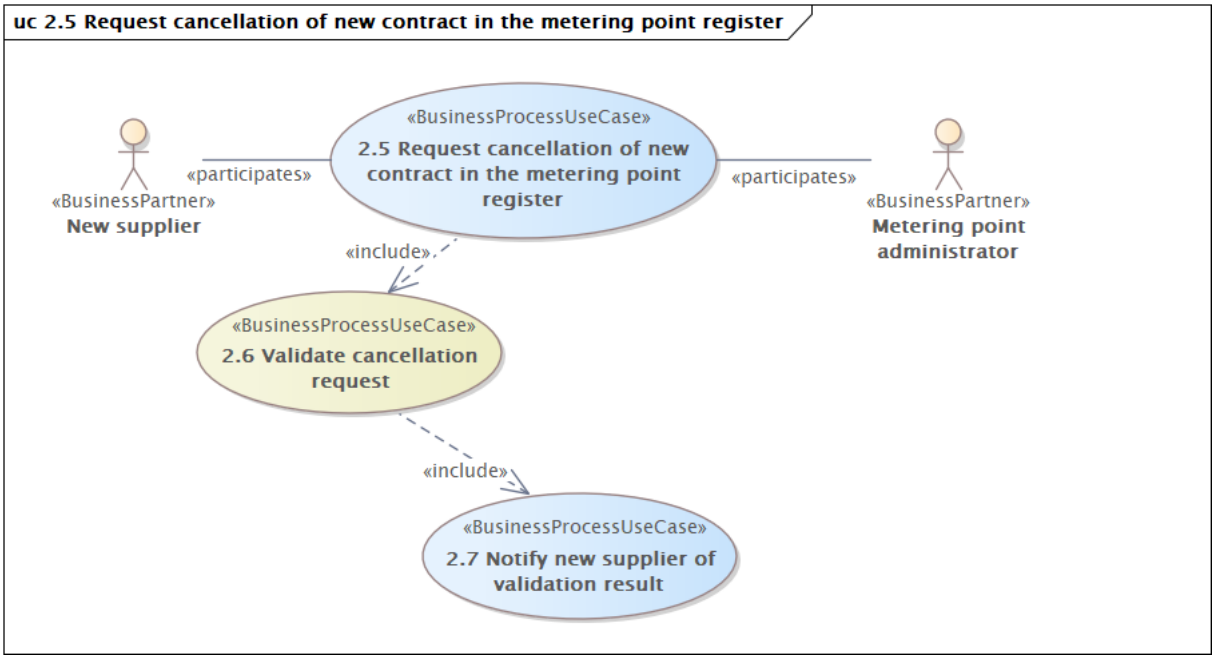
681



682
683 **Figure 35:** Business Process: [IR Activity 2.4] Validate registration of new supplier at
684 accounting point
685

686 ### 4.2.5 Request cancellation of new contract in the metering point register (Business
687 Process UseCase) [IR Activity 2.5]

688



689

690 **Figure 36:** Business Process UseCase: [IR Activity 2.5] Request cancellation of new contract
691 in the metering point register
692

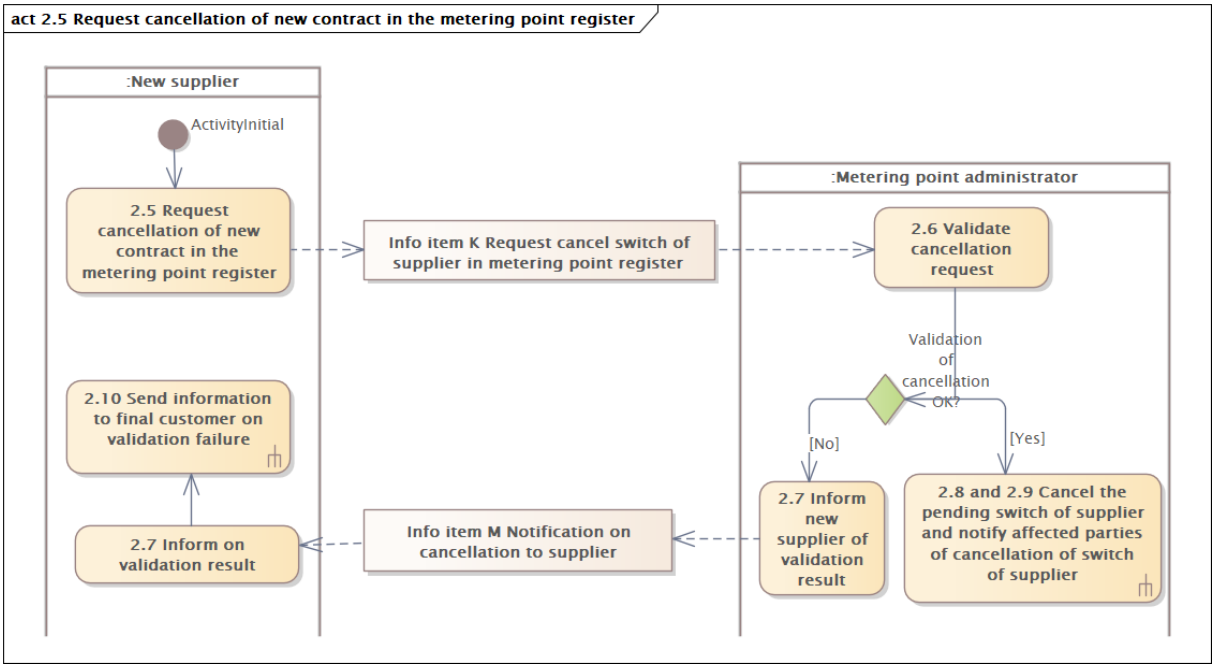
693 #### 4.2.5.1 Description

UseCase description: [IR Activity 2.5] Request cancellation of new contract in the metering point register	
definition	The supplier requests to cancel the pending switch of supplier in the metering point register due to cancellation of the new supply contract to the metering point administrator, who validates the request and inform the new supplier of the validation result.
beginsWhen	When the new supplier has validated the request for cancellation of the new supply contract and need to forward the request to cancel the pending switch of supplier to the metering point administrator.
preCondition	The new supplier has already informed the metering point administrator of the new supply contract. The supply of electricity based on the new contract has not yet started.
endsWhen	When the new supplier has received validation results from the metering point administrator.
postCondition	The request for cancellation is validated by the metering point administrator, and the cancellation is either rejected, or approved.
exceptions	None.
actions	See 4.2.5.2

694 **Table 20:** UseCase description:[IR Activity 2.5] Request cancellation of new contract in the
695 metering point register
696

697 #### 4.2.5.2 Business process

698



699

700 **Figure 37:** Business Process: [IR Activity 2.5] Request cancellation of new contract in the
701 metering point register
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4.2.6 Cancel the pending switch of supplier and notify cancellation of switch of supplier to affected parties (Business Process UseCase) [IR Activity 2.8 and 2.9]

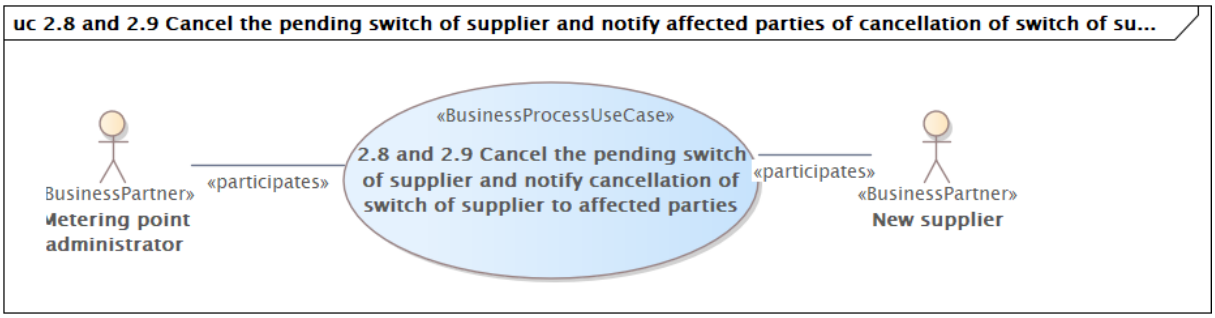


Figure 38: Business Process UseCase: [IR Activity 2.8 and 2.9] Cancel the pending switch of supplier and notify cancellation of switch of supplier to affected parties

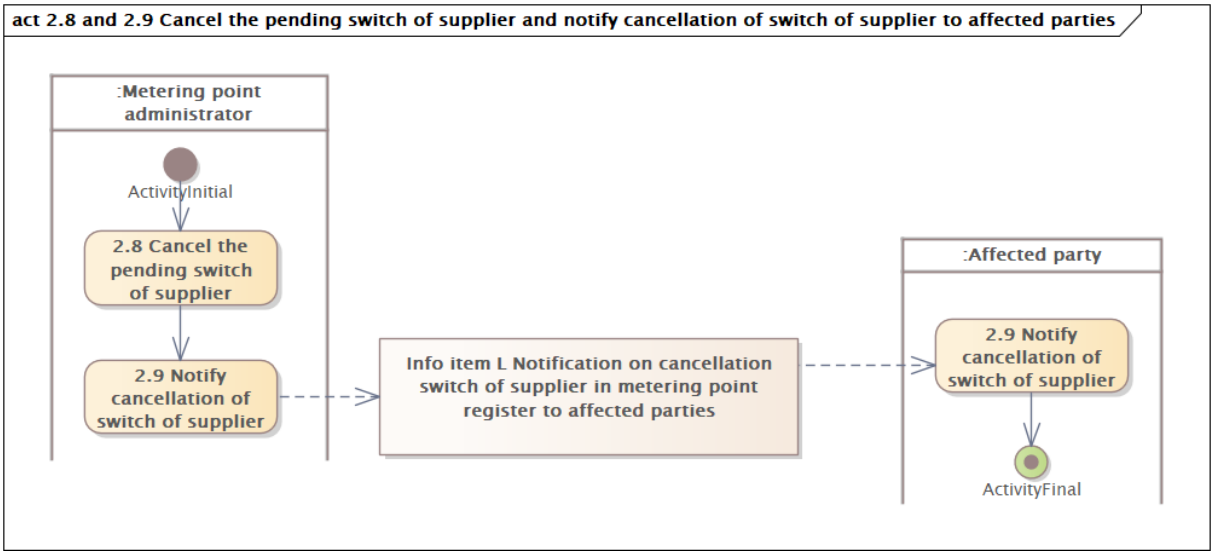
4.2.6.1 Description

UseCase description: [IR Activity 2.8 and 2.9] Cancel the pending switch of supplier and notify cancellation of switch of supplier to affected parties	
definition	The metering point administrator cancels the new supply contract in the metering point register and informs affected parties of the cancellation.
beginsWhen	When the metering point administrator has validated the request for cancellation of the new supply contract and must inform the affected parties of the cancellation.
preCondition	The cancellation of the new supply contract is valid.
endsWhen	When the metering point administrator has informed the affected parties of the cancellation of the new supply contract.
postCondition	The affected parties have been informed of the cancellation of the new supply contract.
exceptions	None.
actions	See 4.2.6.2

Table 21: UseCase description: [IR Activity 2.8 and 2.9] Cancel the pending switch of supplier and notify cancellation of switch of supplier to affected parties

715 #### 4.2.6.2 Business process

716



717

718 **Figure 39:** Business Process: [IR Activity 2.8 and 2.9] Cancel the pending switch of supplier
719 and notify cancellation of switch of supplier to affected parties
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4.2.7 Send information to final customer on validation failure (Business Process UseCase) [IR Activity 2.10]

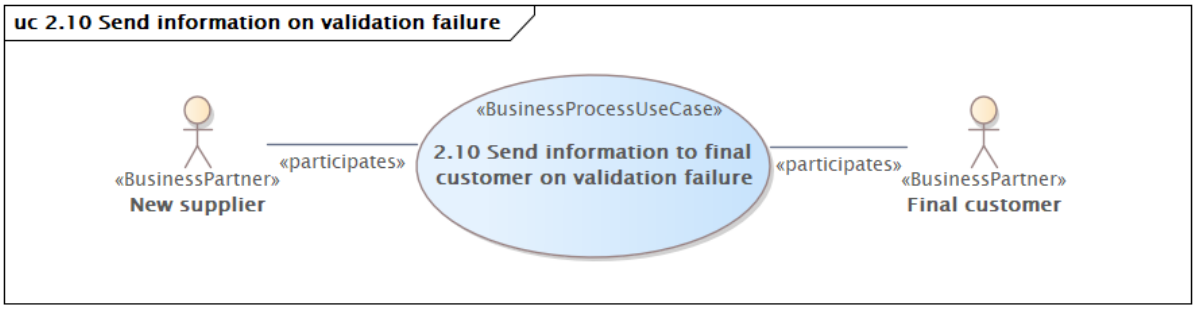


Figure 40: Business Process UseCase: [IR Activity 2.10] Send information to final customer on validation failure

4.2.7.1 Description

UseCase description: [IR Activity 2.10] Send information to final customer on validation failure	
definition	The new supplier sends information to final customer on validation failure.
beginsWhen	The new supplier has received information from the metering point administrator that the validation for the cancellation of switch supplier has failed.
preCondition	The new supplier has sent the request for cancellation of switch supplier to the metering point administrator, who has validated the request with failure.
endsWhen	When the new supplier has informed the final customer about the failure of the request for cancellation of the supplier switch.
postCondition	The final customer has received the information of failure of the request for cancellation of the supplier switch, and the switch will take place.
exceptions	None.
actions	See 4.2.7.2

Table 22: UseCase description: [IR Activity 2.10] Send information to final customer on validation failure

4.2.7.2 Business process

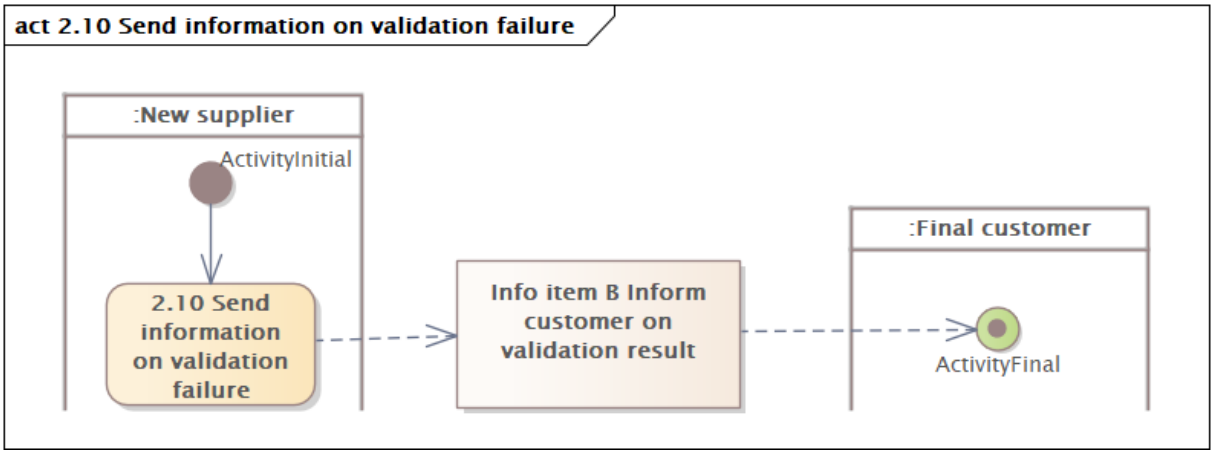


Figure 41: Business Process: [IR Activity 2.10] Send information to final customer on validation failure

4.2.8 Cancel contract and notify final customer of cancellation of contract (Business Process UseCase) [IR Activity 2.11 and 2.12]

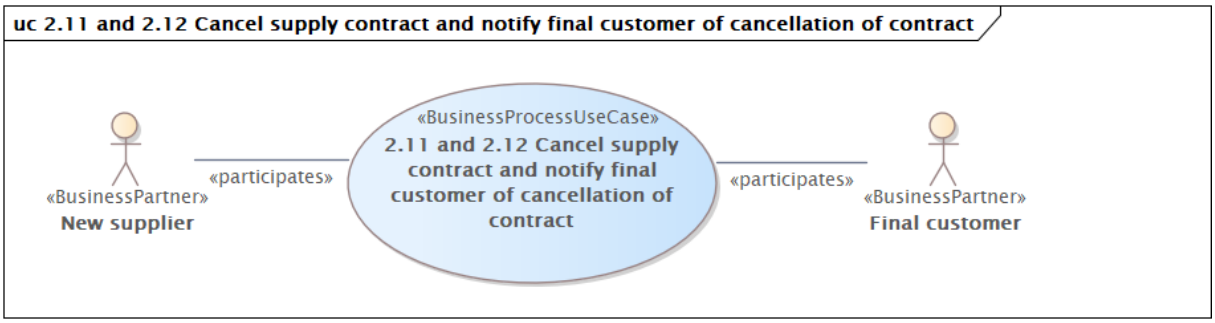


Figure 42: Business Process UseCase: [IR Activity 2.11 and 2.12] Cancel contract and notify final customer of cancellation of contract

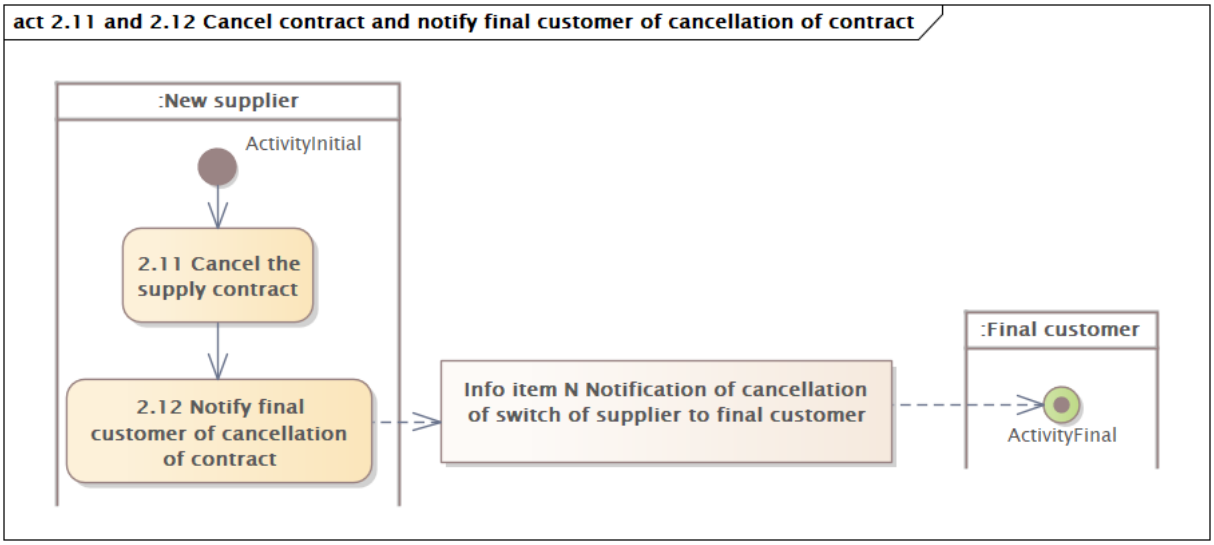
4.2.8.1 Description

UseCase description: [IR Activity 2.11 and 2.12] Cancel contract and notify final customer of cancellation of contract	
definition	The new supplier cancels the supply contract with the final customer and notifies the final customer that the new supply contract has been cancelled.
beginsWhen	When the new supplier, and if needed also the metering point administrator, have validated and accepted the cancellation of switch of supplier.
preCondition	The cancellation of the new supply contract has been validated by the new supplier, and if needed also by the metering point administrator, and found OK.
endsWhen	When the new supplier has informed the final customer of the cancellation of the new supply contract.
postCondition	The final customer stays with the current (before the switch) supplier.
exceptions	None.
actions	See 4.2.8.2

Table 23: UseCase description: [IR Activity 2.11 and 2.12] Cancel contract and notify final customer of cancellation of contract

751 #### 4.2.8.2 Business process

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753

754 **Figure 43:** Business Process: [IR Activity 2.11 and 2.12] Cancel contract and notify final
755 customer of cancellation of contract
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758

5 Business Partner View

5.1 Business Partners for customer switching

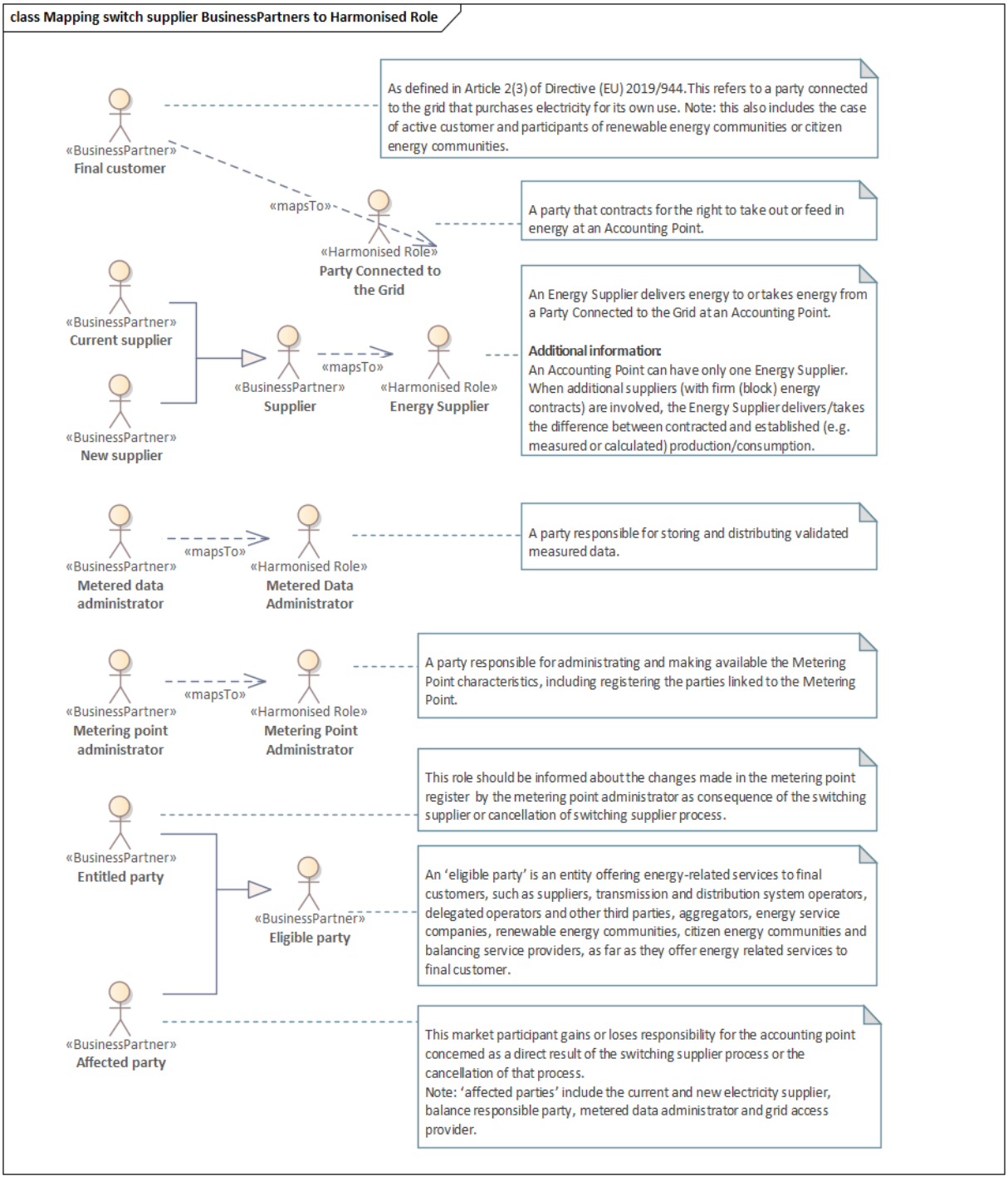


Figure 44: Business Partners for customer switching

6 Business Entity View

6.1 Info item A - Contact new supplier (class diagram)



Figure 45: Class diagram: Info item A - Contact new supplier

6.1.1 Info item A - Contact new supplier (element definitions)

Attribute	Definition
«Business entity» Info item A - Contact new supplier	
Accounting Point identifier	Information set to identify the accounting point.
Final customer	Information that identifies the final customer and information used to authenticate the identity.
Requested start date	Date requested by the final customer for start of supply.

Table 24: Info item A - Contact new supplier (element definitions)

6.2 Info item B - Inform customer on validation result (class diagram)

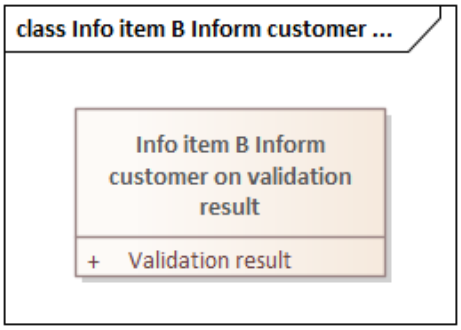


Figure 46: Class diagram: Info item B - Inform customer on validation **result**

6.2.1 Info item B - Inform customer on validation result (element definitions)

Attribute	Definition
«Business entity» Info item B - Inform customer on validation result	
Validation result	Information about the outcome of the validation step.

Table 25: Info item B - Inform customer on validation result (element definitions)

6.3 Info item C – Upfront accounting point characteristics request (Class Diagram)

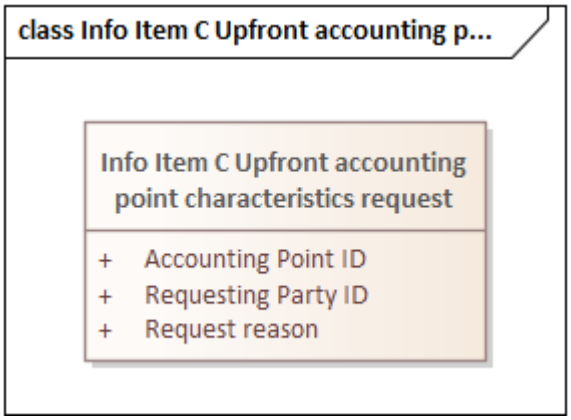


Figure 47: Class diagram: Info item C - Upfront accounting point characteristics request

6.3.1 Element definitions: Info item C - Upfront accounting point characteristics request

Attribute	Definition
«Business entity» Info item C - Upfront accounting point characteristics request	
Accounting Point ID	The unique identification of the accounting point for which the switch of supplier is requested.
Requesting Party ID	The unique identification of the requesting party (= new supplier) that intends to supply the accounting point.
Request reason [1]	A code specifying the reason (that is switch of supplier) for the request. **Note:** The code values for specific attributes in the relevant information objects are not defined within this this Regulation. They will be detailed in the corresponding business standardisation documentation.

Table 26: Info item C - Upfront accounting point characteristics request (element definitions)

[1] In the CIM document the reason is mapped to the business process attribute in the market document class.

6.3.2 Mapping of info item C to CIM profile A.1 Request Accounting Point Characteristics Market Document

CIM Class / Attribute	Card.	Message content
RequestAPCharacteristics_MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Accounting Point Characteristics Request
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**0..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
accountingPoint.mRID	1	Unique identification of the Accounting Point
validity_DateAndOrTime.date	0..1	The date for when the requested Accounting Point characteristics shall be valid.
requesting_MarketParticipant.mRID	1	Unique identification of the requesting energy supplier.
requesting_MarketParticipant.marketRole.type	1	**A12** Energy Supplier

Table 27: Info item C – Mapping to CIM: Upfront accounting point characteristics request

6.4 Info item D - Upfront accounting point characteristics (Class Diagram)

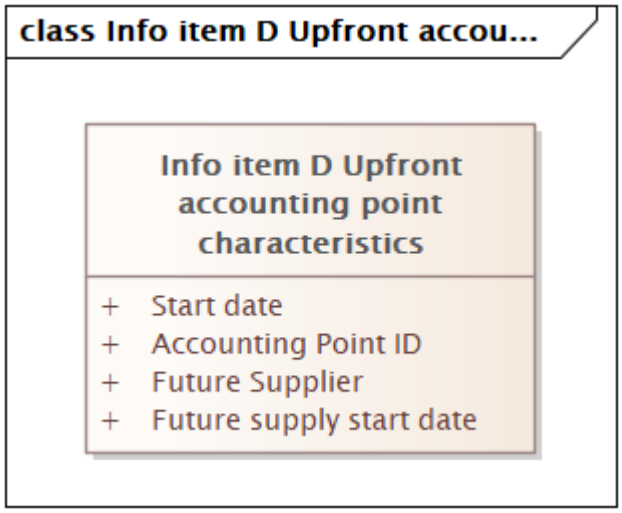


Figure 48: Class diagram: Info item D - Upfront accounting point characteristics

6.4.1 Info item D - Upfront accounting point characteristics (element definitions)

Attribute	Definition
«Business entity» Info item D - Upfront accounting point characteristics	**Note:** This information object aims to provide – with the relevant permission – additional accounting point characteristics for the electricity supplier to be able to provide tailor-made supply contract proposals for the final customer. **Note:** Only a minimal set of attributes is defined; further specification of this information object is left to national implementation.
Start date	The date when the content of this set of information becomes or became valid.
Accounting point ID	The unique identification of the accounting point that this request targets.
Future Supplier	Indicates if there is a contract for a future supplier at this accounting point. (The element is Boolean - yes or no). **Note:** For example, a supplier can be registered for a future period, such as the following year, while a new supplier, following the request of the respective final customer, may ask for a switch for the period leading up to that point. In that scenario, the new supplier is informed, through this information object, that a 'future supplier' is already registered for the period starting the following year.
Future supply start date	Date on which future supply will start.

Table 28: Info item D - Upfront accounting point characteristics

Note: Only a minimal set of attributes is defined; further specification of this information object is left to national implementation.

6.4.2 Mapping of info item D to CIM profile A.2 Accounting Point Characteristics Market Document

CIM Class / Attribute	Card.	Message content
APCharacteristics_MarketDocument		
mRID	1	Unique identification of the Request Accounting Point Characteristics Market Document
type	1	**Axy** Upfront accounting point characteristics
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
AccountingPoint	1	
mRID	1	Unique identification of the Accounting Point
start_DateAndOrTime.date	0..1	The date when the content of this set of information becomes or became valid.
futureSupplyStart_DateAndOrTime.date	0..1	Date on which future supply will start.
futureSupplierContract «CIMExtension»	0..1	Indicates if there is a contract for a future supplier at this accounting point. (The element is Boolean - yes or no).

Table 29: Info item C – Mapping to CIM: Upfront accounting point characteristics

6.5 Info item E - Request switch of supplier (Class Diagram)

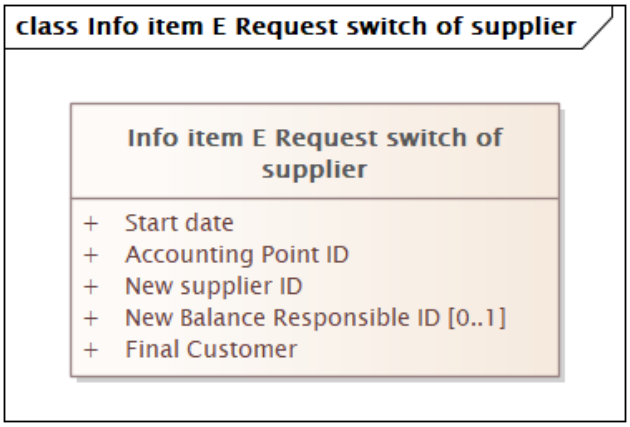


Figure 49: Class diagram: Info item E - Request switch of supplier

6.5.1 Info item E - Request switch of supplier (element definitions)

Attribute	Definition
«Business entity» Info item E - Request switch of supplier	
Start date	The date requested by the new supplier to take over the electricity supply for this accounting point. This date must be in the future.
Accounting point ID	The unique identification of the accounting point that this request targets.
New supplier ID	The unique identification of the requesting supplier.
New balance responsible party ID (optional)	The unique identification of the balance responsible party for this accounting point, as requested by the new supplier. **Note:** The exchange of this information is optional and not required where it is already contained in the national data exchange model.
Final customer	Information set to identify final customer.

Table 30: Info item E - Request switch of supplier

6.5.2 Mapping of info item E to CIM profile A.3 Request switch of market participant market document

CIM Class / Attribute	Card.	Message content
RequestSwitchOfMarketParticipant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Request switch of market participant

CIM Class / Attribute	Card.	Message content
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesese nder_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	1	The date requested by the requesting energy supplier to switch one or more market participants for related accounting point(s).
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this request targets.
AccountingPoint_MarketParticipant (first repetition)	1	1st repetition
mRID	1	Unique identification of new supplier
marketRole.type	1	Role type: **A12** Energy supplier
AccountingPoint_MarketParticipant (second repetition)	0..1	2nd repetition
mRID	1	Unique identification of new balance responsible party
marketRole.type	1	Role type: **A08** Balance responsible party
CustomerAgreement	0..*	
mRID	0..1	The identification of the final customer agreement.
type	0..1	The type of customer agreement
signDate	0..1	The date when the final customer agreement was signed
Customer	1	**Note:** Either an organisation or one or more persons must be identified

CIM Class / Attribute	Card.	Message content
		Which attributes to use for identification of the organisation or person(s) are dependent on national rules.
organisation.mRID	0..1	The identification of the final customer **Note:** Only used if the final customer is an organisation.
organisation.name	0..1	The name of the final customer **Note:** Only used if the final customer is an organisation.
Person	0..*	**Note:** Only used if the final customer is one of more person(s).
mRID	0..1	The identification of the final customer
name	0..1	The name of the final customer
firstName	0..1	The first name of the final customer
middleName	0..1	The middle name of the final customer
lastName	0..1	The last name of the final customer
prefix	0..1	A prefix or title for the person's name, such as Miss, Mister, Doctor, etc.
birthDate	0..1	The date of birth of the final customer

823 **Table 31:** Info item E – Mapping to CIM: Upfront accounting point characteristics

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6.6 Info item F - Switch of supplier results (Class Diagram)

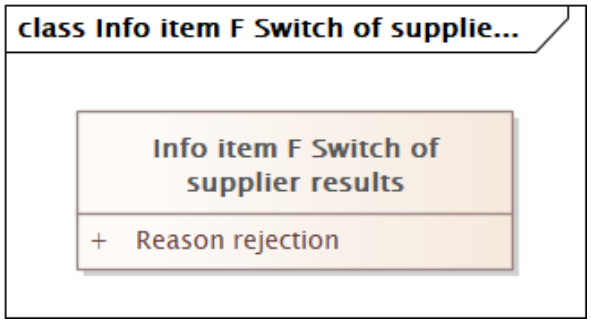


Figure 50: Class diagram: Info item F - Switch of supplier results

6.6.1 Info item F - Switch of supplier results (element definitions)

Attribute	Definition
«Business entity» Info item F - Switch of supplier results	
Reason rejection	{if rejected} A code specifying the reason(s) for the rejection of the requested switch of supplier. **Note:** The code values for specific attributes in the relevant information objects are not defined within this this Regulation. They will be detailed in the corresponding business standardisation documentation.

Table 32: Info item F - Switch of supplier results

6.6.2 Mapping of info item F to CIM profile A.4, Response request switch of market participant market document

Below is shown the subset of classes and attributes used in the context of notifying switch of supplier results to the requesting market participant (energy supplier), see appendix “A.4, Response request switch of market participant market document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
ResponseToSwitchOfMarketParticipant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Response to request switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.

CIM Class / Attribute	Card.	Message content
sender_MarketParticipant.marketRole.typesese nder_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
originalTransactionIDReference_ MktActivityRecord.mRID	1	The Transaction ID from the request given by the requesting Energy Supplier.
reason	1	Response reason: **A01** Message fully accepted **A02** Message fully rejected
start_DateAndOrTime.date	1	The date requested by the requesting party to switch one or more market participants for related accounting point(s).
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this request targets.
AccountingPoint_MarketParticipant	1..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole. type	1	**A12** Energy supplier
Reject_Reason	0..*	**Note:** Shall be used if rejection
code	1	A code specifying the reason for a rejection, such as: **999** Errors not specifically identified **A23** Area invalid **A53** Receiving party incorrect **A59** Not compliant to local market rules
text	0..1	A textual explanation of the reason for rejection.

Table 33: Info item F - Switch of supplier results

6.7 Info item G - Notify accounting point characteristics to entitled parties and affected parties (Class Diagram)

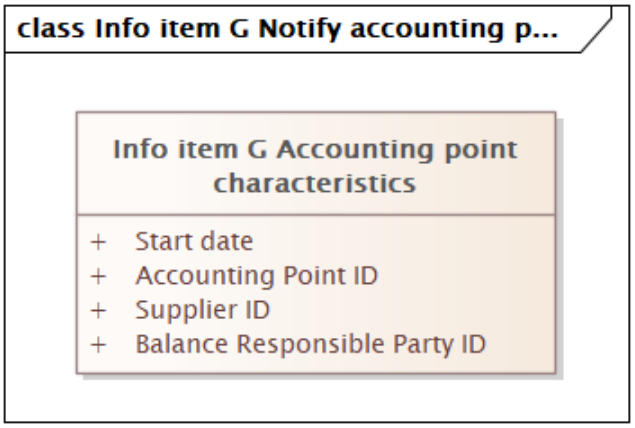


Figure 51: Class diagram: Info item G - Notify accounting point characteristics to entitled parties and affected parties

6.7.1 Info item G - Notify accounting point characteristics to entitled parties and affected parties (element definitions)

Attribute	
«Business entity» Info item G - Notify accounting point characteristics to entitled parties and affected parties	**Note:** Only a minimal set of attributes is defined; further specification of this information object is left to national implementation.
Start date	The date from when the new supplier and balance responsible party assume their roles (i.e. start the supply or balance responsibility, respectively) for this accounting point.
Accounting Point ID	The unique identification of the accounting point for which the switch of supplier is confirmed.
Supplier ID	The unique identification of the supplier that is supplying the accounting point from the start date.
Balance responsible party ID	The unique identification of the balance responsible party that assumes balance responsibility from the start date for this accounting point.

Table 34: Info item G - Notify accounting point characteristics to entitled parties and affected parties

6.7.2 Mapping of info item G to CIM profile A.2 Accounting Point Characteristics Market Document

Below is shown the subset of classes and attributes used in the context of notifying accounting point characteristics to entitled parties and affected parties, see appendix “A.2 Accounting Point Characteristics Market Document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
APCharacteristics_MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Accounting point characteristics
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	The receiver can be any entitled or affected party, such as: **A08** Balance responsible party **A12** Energy supplier **A17** Grid access provider **A25** Metered data responsible **A45** Energy Service Company (ESCO)
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
AccountingPoint	1	
mRID	1	Unique identification of the Accounting Point
start_DateAndOrTime.date	0..1	The date when the content of this set of information becomes or became valid.
AccountingPoint_MarketParticipant	0..*	
mRID	1	Unique identification of the market participant in question.
marketRole.type	1	Role type: **A08** Balance responsible party **A12** Energy supplier

Table 35: Info item G - Notify accounting point characteristics to entitled parties and affected parties

6.8 Info item H – Notification switch of supplier to affected party (Class Diagram)

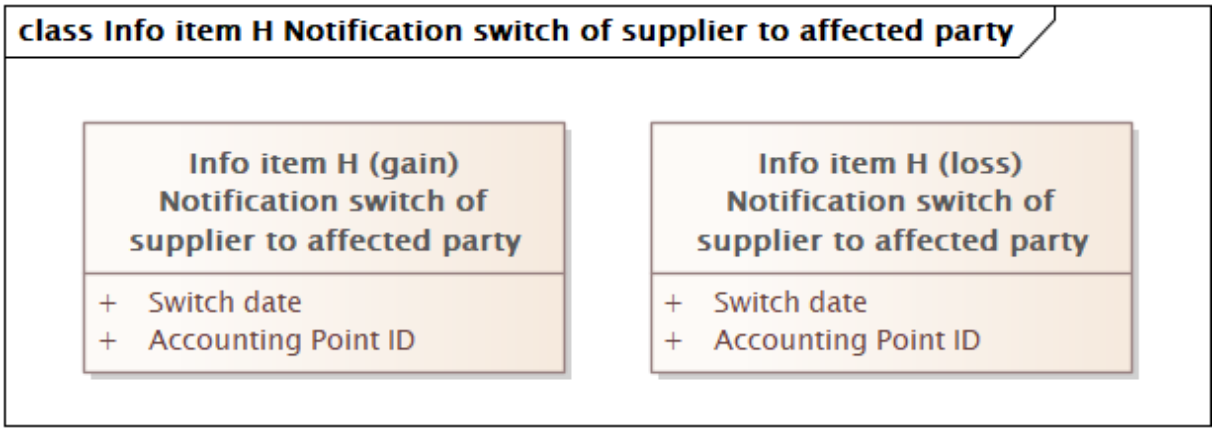


Figure 52: Class diagram: Info item H - Notification switch of supplier to affected party

6.8.1 Info item H - Notification switch of supplier to affected party (element definitions)

Attribute	
«Business entity» Info item H - Notification switch of supplier to affected party	Two versions (LOSS/ GAIN) of this information object exist based on the role of the receiving party (current/ new affected party).
Switch date	The date when the present affected party relinquishes supply or balance responsibility (LOSS) for this accounting point, or the date when the new affected party assumes responsibility (GAIN) for this accounting point.
Accounting point ID	The unique identification of the accounting point for which the switch of supplier is notified.

Table 36: Info item H - Notification switch of supplier to affected party

6.8.2 Mapping of info item H to CIM profile A.5 Notify switch of market participant to affected party market document

Below is shown the subset of classes and attributes used in the context of notifying switch of supplier to affected party, see appendix “A.5 Notify switch of market participant to affected party market document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
ResponseSwitchSwitchOfMarketParticipant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Notify switch of supplier to affected party
process.processType	1	Type of process: **Axx** Switch of supplier

CIM Class / Attribute	Card.	Message content
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier **A08** Balance responsible party **A25** Metered data responsible **A45** Energy Service Company (ESCO)
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
reason	1	Reason, such as: **Axx** Gain of registration at accounting point **Axy** Loss of registration at accounting point
start_DateAndOrTime.date	0..1	The date when the new supplier is linked to the accounting point. Required for gain of registration at accounting point
end_DateAndOrTime.date	0..1	The date when the present energy supplier no longer is linked to this accounting point. Required for loss of registration at accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.

875

876 **Table 37:** Info item H - **Notification switch of supplier to affected party**
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6.9 Info item K – Request cancel switch of supplier in metering point register (Class Diagram)

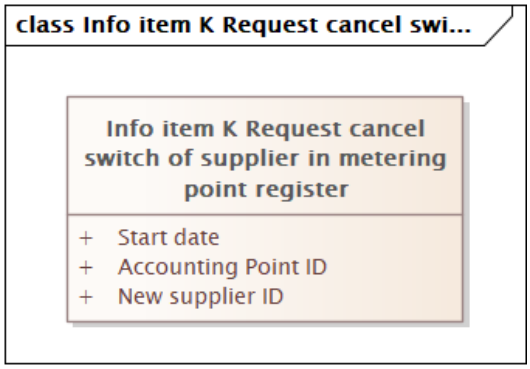


Figure 53: Class diagram: Info item K - Request cancel switch of supplier in metering point register

6.9.1 Info item K - Request cancel switch of supplier in metering point register (element definitions)

Attribute	
«Business entity» Info item K - Request cancel switch of supplier in metering point register	
Start date	The date when the new supplier was to take over the electricity supply for this accounting point. This date must be in the future.
Accounting point ID	The unique identification of the accounting point that the request switch of supplier targets.
New supplier ID	The unique identification of the requesting supplier.

Table 38: Info item K - Request cancel switch of supplier in metering point register

6.9.2 Mapping of info item K to CIM profile A.6 Request cancel switch of market participant market document

Below is shown the subset of classes and attributes used in the context of requesting cancellation of switch of supplier, see appendix “A.6 Request cancel switch of market participant market document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
RequestCancelSwitchOfMarketParticipant _ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Request cancel switch of market participant

CIM Class / Attribute	Card.	Message content
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	0..1	The date when the new supplier is assumed to be linked to this accounting point. **Note:** This date must be in the future.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.

Table 39: Info item K – Request cancel switch of supplier market document

6.10 Info item L – Notification on cancellation switch of supplier in metering point register to affected parties (Class Diagram)

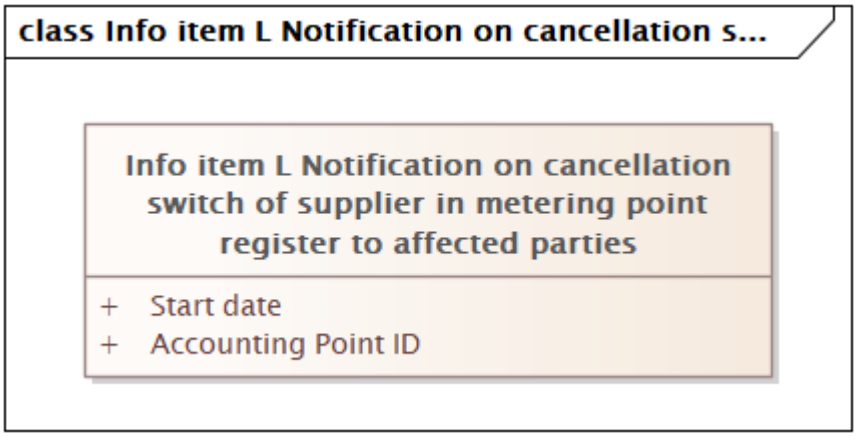


Figure 54: Class diagram: Info item L – Notification on cancellation switch of supplier in metering point register to affected parties

6.10.1 Info item L – Notification on cancellation switch of supplier in metering point register to affected parties (element definitions)

Attribute	
«Business entity» Info item L – Notification on cancellation switch of supplier in metering point register to affected parties	Two versions (LOSS/ GAIN) of this information object exist based on the role of the receiving party (current/new affected party).
Start date	The date when the new supplier was to assume supply for the accounting point.
Accounting point ID	The unique identification of the accounting point for which the switch of supplier is notified.

Table 40: Info item L – Notification on cancellation switch of supplier in metering point register to affected parties

6.10.2 Mapping of info item L to CIM profile A.7 Notify cancel switch of market participant to affected party market document

Below is shown the subset of classes and attributes used in the context of notifying a cancellation of a switch of supplier to affected party, see appendix “A.7 Notify cancel switch of market participant to affected party market document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
NotifyCancelSwitchOfMarketParticipantToAffectedParty_ MarketDocument		
mRID	1	Unique identification of the market document

CIM Class / Attribute	Card.	Message content
type	1	**Axx** Notify cancellation of switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier **A08** Balance responsible party **A25** Metered data responsible **A45** Energy Service Company (ESCO)
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	0..1	The date when the new supplier was assumed to be linked to the accounting point.
end_DateAndOrTime.date	0..1	The date when the present energy supplier was assumed no longer to be linked (LOSS) to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.

Table 41: Info item L – Notification on cancellation switch of supplier in metering point register to affected parties

6.11 Info item M – Response request cancel switch of supplier in metering point register (Class Diagram)

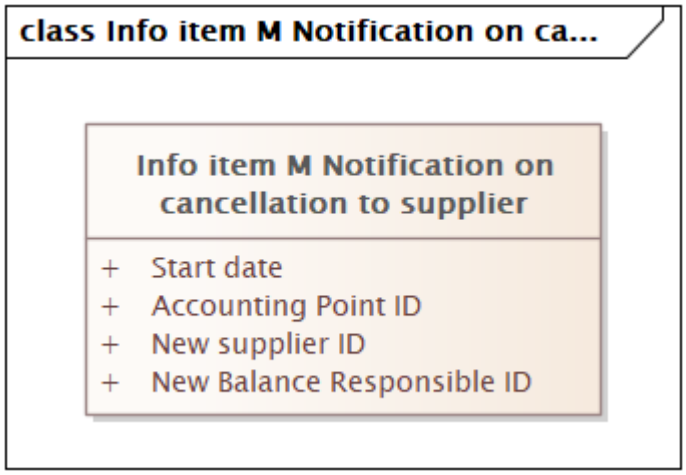


Figure 55: Class diagram: Info item M – Response request cancel switch of supplier in metering point register

6.11.1 Info item M – Response request cancel switch of supplier in metering point register (element definitions)

Attribute	
«Business entity» Info item M – Response request cancel switch of supplier in metering point register	
Start date	The date when the new supplier was to assume supply for this accounting point. **Note:** This date must be in the future.
Accounting point ID	The unique identification of the accounting point that this request switch of supplier targets.
New supplier ID	The unique identification of the requesting supplier.
New balance responsible party ID (optional)	The unique identification of the balance responsible party for this accounting point, as requested by the new supplier. **Note:** The exchange of this information is optional and not required where it is already contained in the national data exchange model.

Table 42: Info item M – Response request cancel switch of supplier in metering point register

6.11.2 Mapping of info item M to CIM profile A.8 Response request cancel switch of market participant market document

Below is shown the subset of classes and attributes used in the context of sending a response to a requesting for cancellation of switch of supplier, see appendix “A.8, Response request cancel switch of market participant market document” for the complete description of the document.

CIM Class / Attribute	Card.	Message content
ResponseRequestCancelSwitchOfMarket Participant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Response to request for cancelling a switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.typesender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
reason	0..1	Response reason: **A01** Message fully accepted **A02** Message fully rejected
start_DateAndOrTime.date	0..1	The date when the new market new supplier was assumed to be linked (GAIN) to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	1	First repetition.
mRID	1	Unique identification new supplier.
marketRole.type	0..*	**A12** Energy supplier
AccountingPoint_MarketParticipant	0..1	Second repetition
mRID	1	Unique identification of the new balance responsible party.
marketRole.type	0..*	**A08** Balance responsible party

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936 **Table 43:** Info item M – Response request cancel switch of supplier market document

Annex A CIM Profiles

A.1 Request Accounting Point Characteristics Market Document

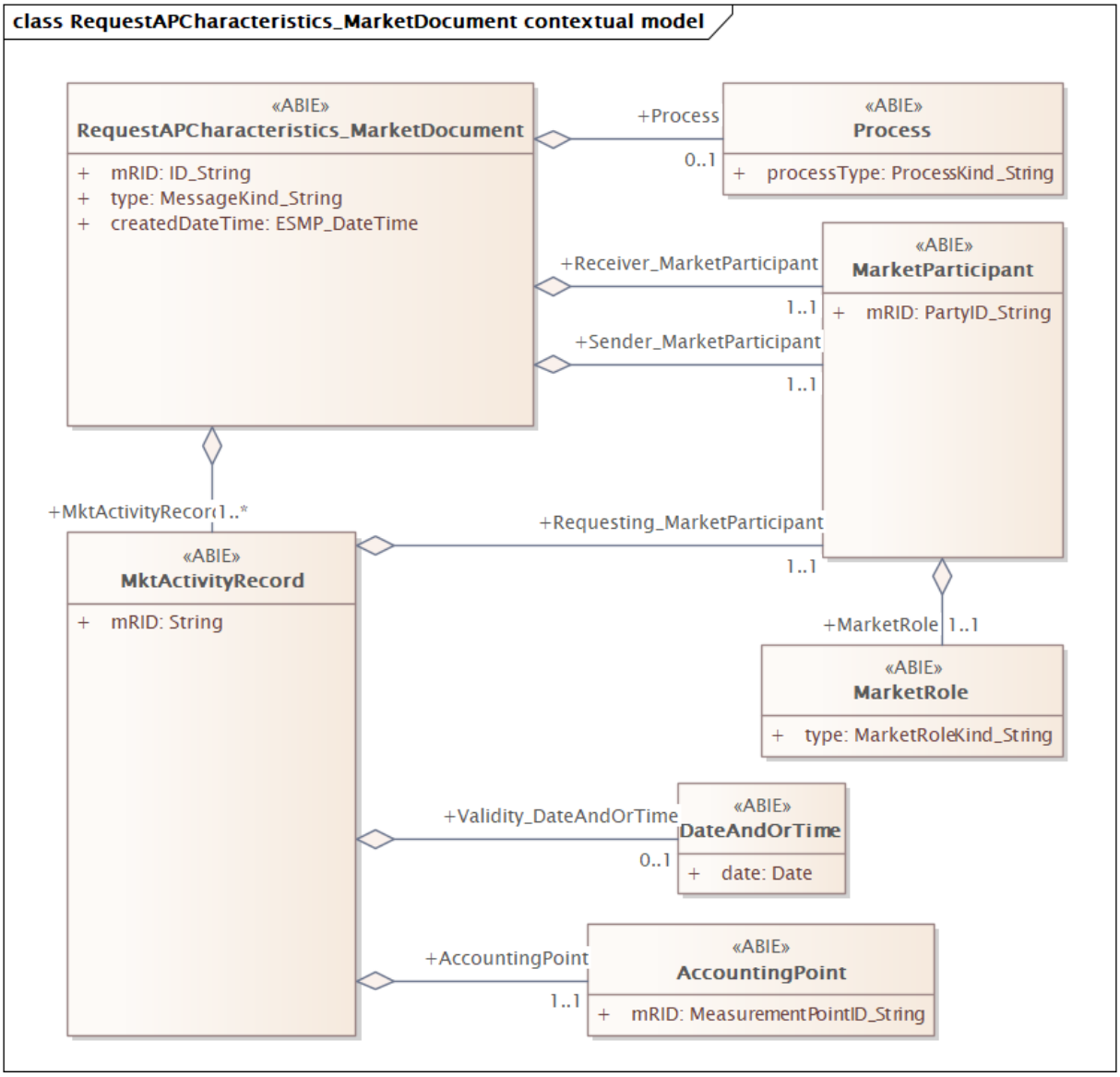


Figure 56: Class diagram: Request Accounting Point Characteristics Market Document contextual model

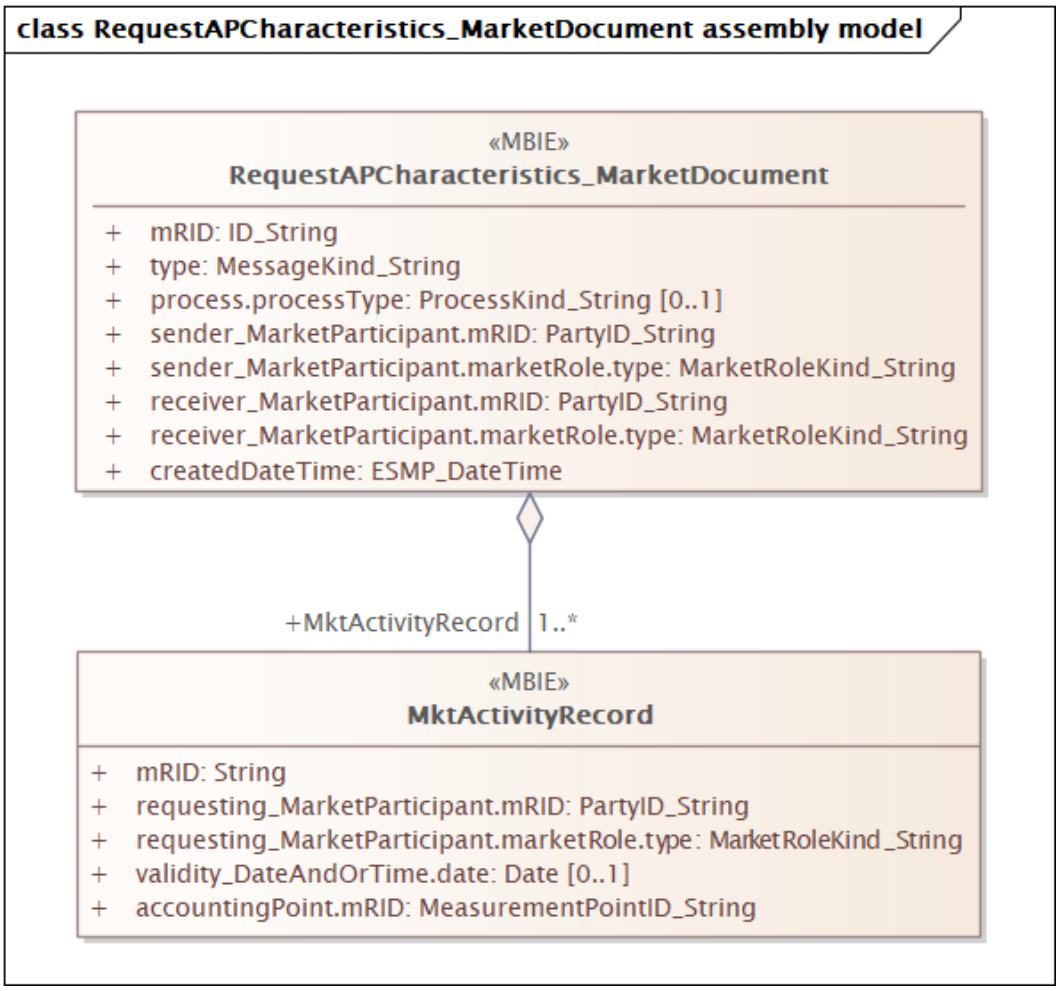


Figure 57: Class diagram: Request Accounting Point Characteristics Market Document assembly model

CIM Class / Attribute	Card.	Message content
RequestAPCharacteristics_MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Accounting Point Characteristics Request
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator

CIM Class / Attribute	Card.	Message content
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
accountingPoint.mRID	1	Unique identification of the Accounting Point
validity_DateAndOrTime.date	0..1	The date for when the requested Accounting Point characteristics shall be valid.
requesting_MarketParticipant.mRID	1	Unique identification of the requesting market participant.
requesting_MarketParticipant.marketRole.type	1	**A12** Energy Supplier

Table 44: Request Accounting Point Characteristics Market Document

A.2 Accounting Point Characteristics Market Document

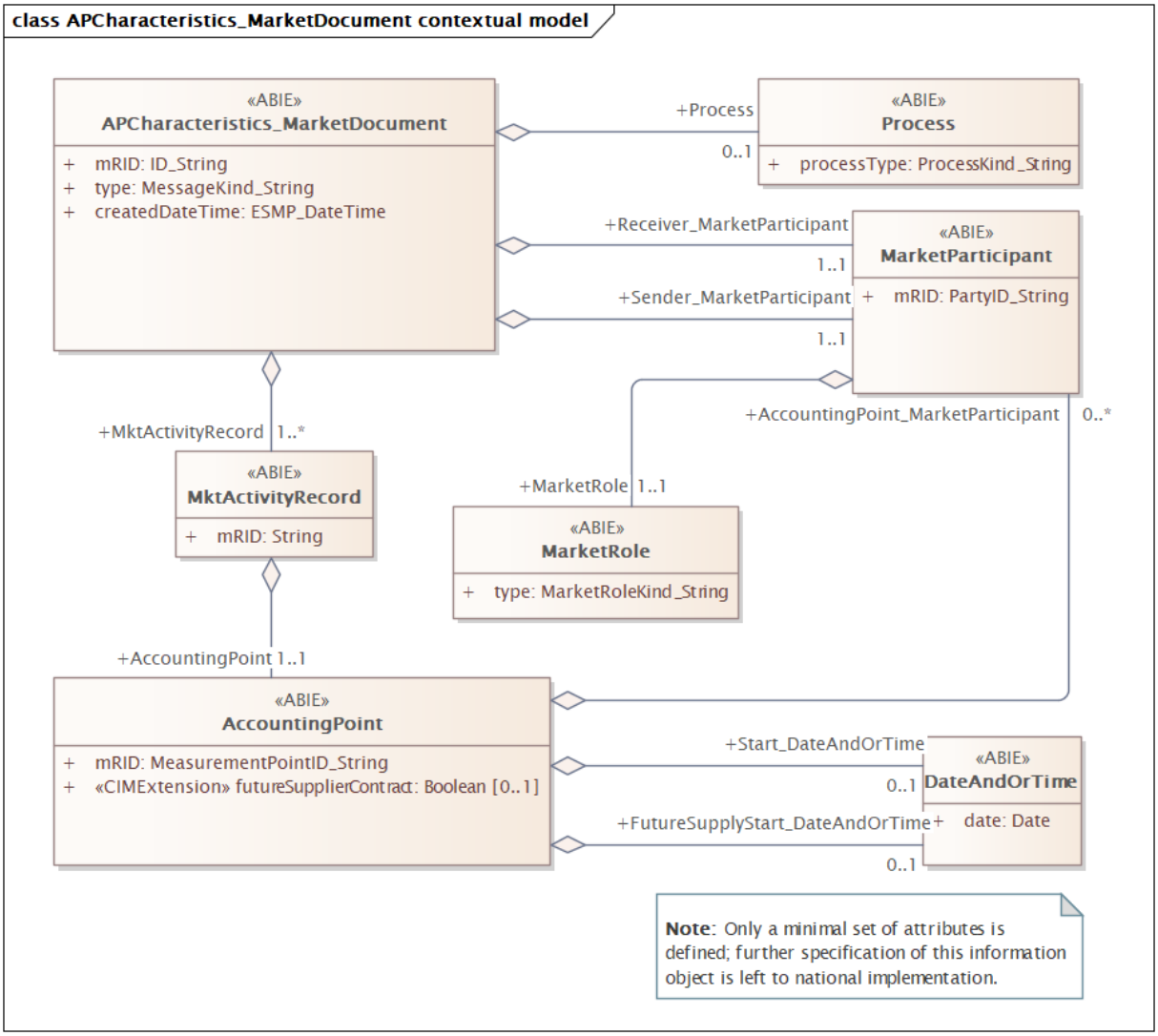
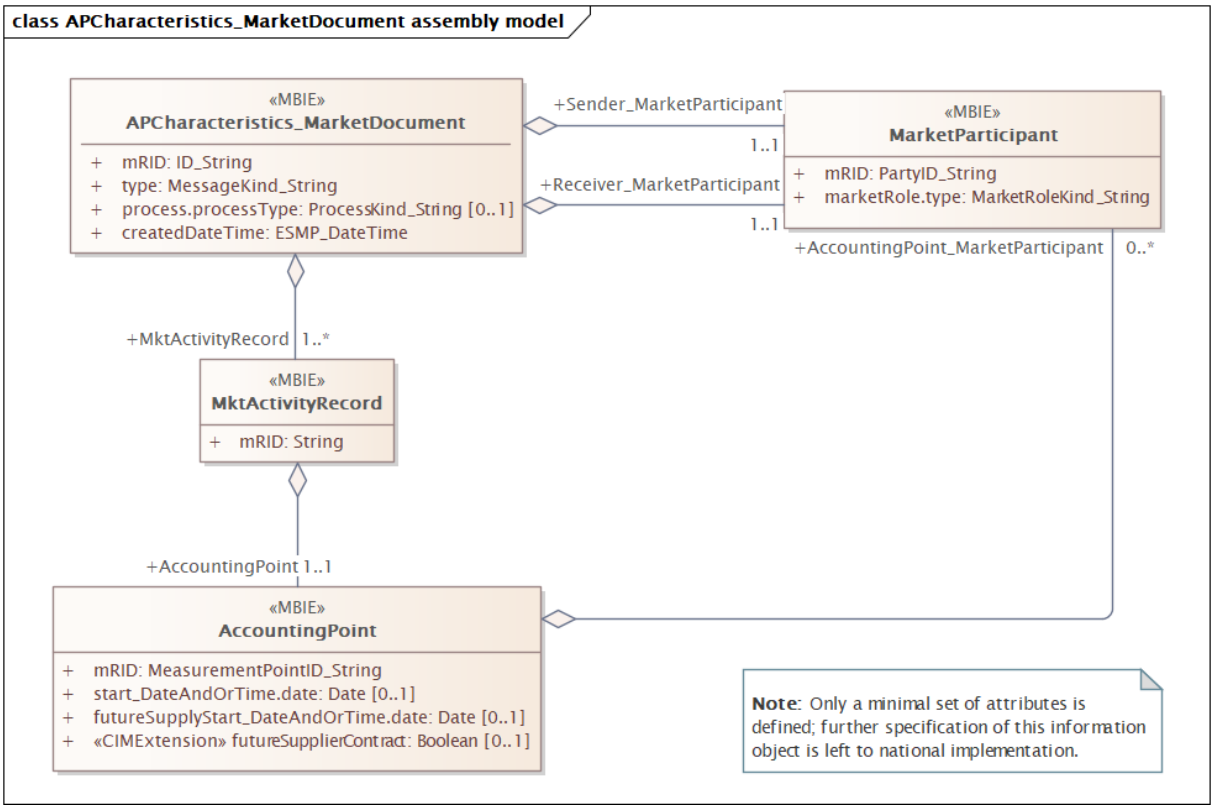


Figure 58 Class diagram: Accounting Point Characteristics Market Document contextual model

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959 **Figure 59** Class diagram: Accounting Point Characteristics Market Document assembly model
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CIM Class / Attribute	Card.	Message content
APCharacteristics_MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Accounting point characteristics **Axy** Upfront accounting point characteristics
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	

CIM Class / Attribute	Card.	Message content
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
AccountingPoint	1	
mRID	1	Unique identification of the Accounting Point
start_DateAndOrTime.date	0..1	The date when the content of this set of information becomes or became valid.
futureSupplyStart_DateAndOrTime.date	0..1	Date on which future supply will start.
futureSupplierContract «CIMExtension»	0..1	Indicates if there is a contract for a future supplier at this accounting point. (The element is Boolean - yes or no).
AccountingPoint_MarketParticipant	1..*	
mRID	1	Unique identification of the market participant in question.
marketRole.type	1	Role type: **A08** Balance responsible party **A12** Energy supplier

Table 45: Accounting Point Characteristics Market Document

A.3 Request switch of market participant market document

This is a generic document to be used for
all kind of switch of market participant processes, such as switch of Balance Responsible Party, Metered Data Collector or Metered Data Responsible, in the European energy industry.

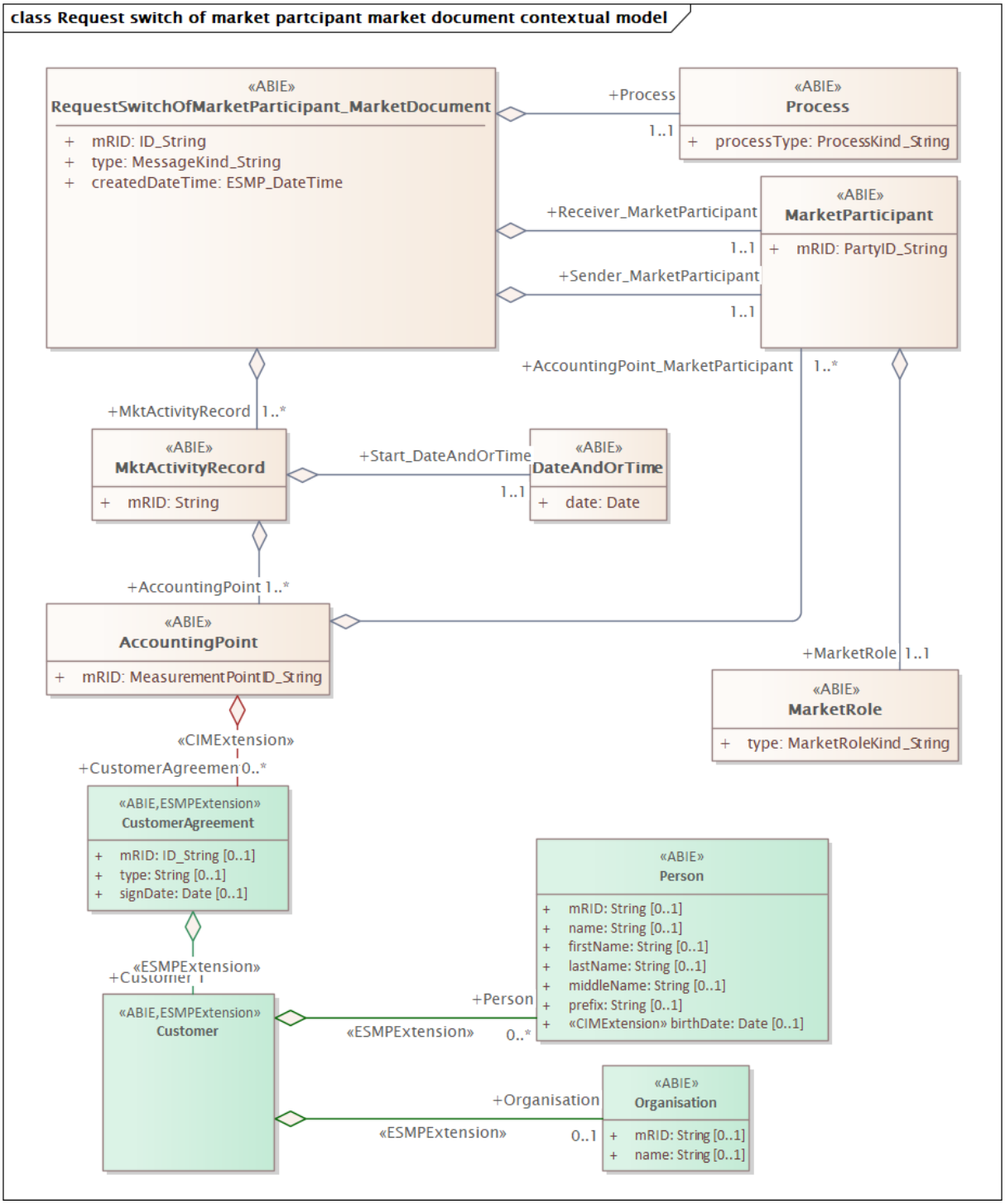
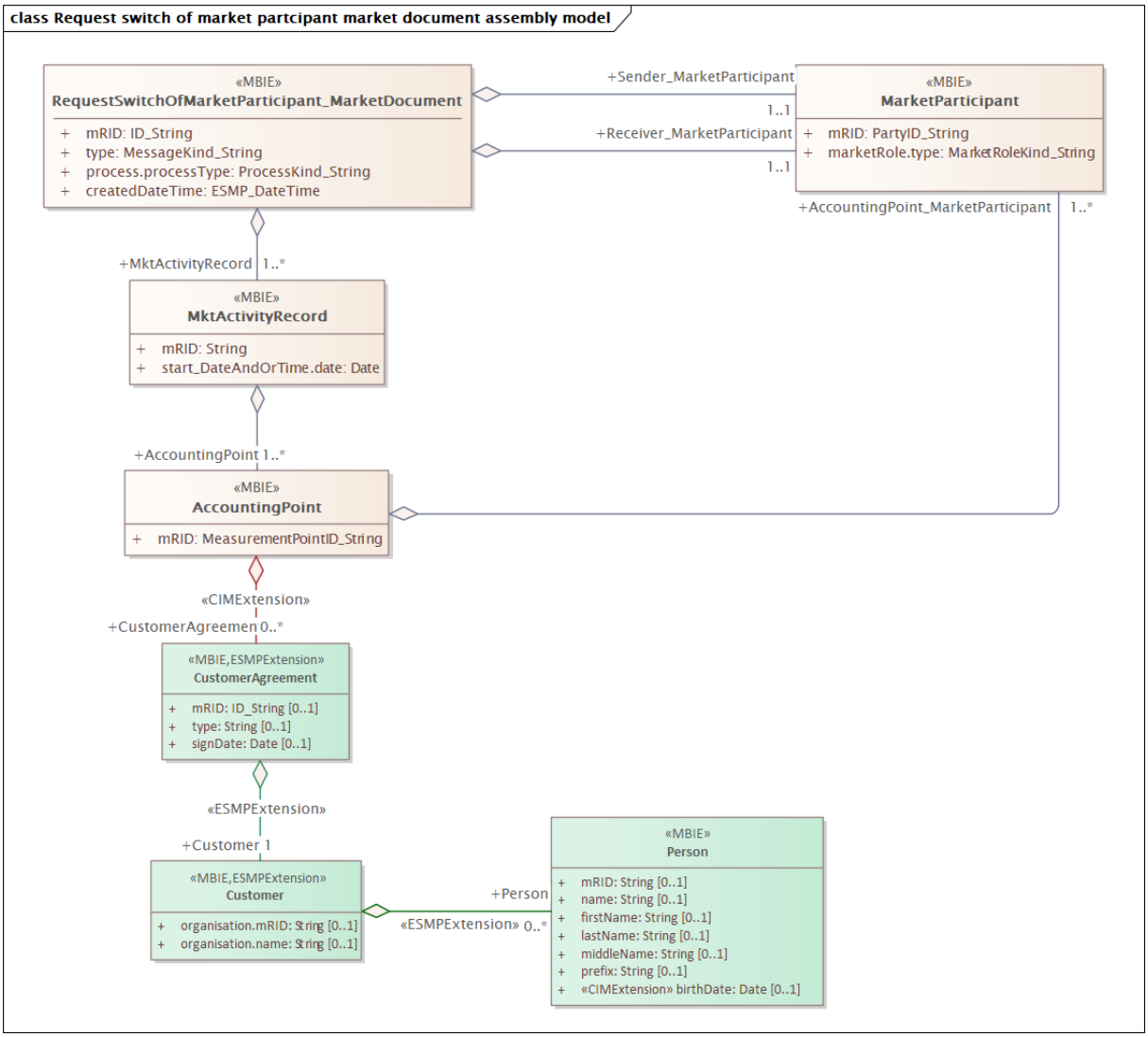


Figure 60 Class diagram: Request switch of market participant market document contextual model

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975 **Figure 61** Class diagram: Request switch of market participant market document assembly
976 model
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CIM Class / Attribute	Card.	Message content
RequestSwitchOfMarketParticipant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Request switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.

CIM Class / Attribute	Card.	Message content
sender_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	1	The date requested by the requesting market party (new market party) to be linked to the accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this request targets.
AccountingPoint_MarketParticipant	1..*	
mRID	1	Unique identification of relevant market participants linked to the accounting point
type	1	Role type: **A08** Balance responsible party **A12** Energy supplier
CustomerAgreement	0..*	
mRID	0..1	The identification of the final customer agreement.
type	0..1	The type of customer agreement
signDate	0..1	The date when the final customer agreement was signed
Customer	1	
organisation.mRID	0..1	The identification of the final customer **Note:** Only used if the final customer is an organisation.
organisation.name	0..1	The name of the final customer **Note:** Only used if the final customer is an organisation.
Person	0..*	**Note:** Only used if the final customer is one of more person(s).
mRID	0..1	The identification of the final customer
name	0..1	The name of the final customer

CIM Class / Attribute	Card.	Message content
firstName	0..1	The first name of the final customer
middleName	0..1	The middle name of the final customer
lastName	0..1	The last name of the final customer
birthDate	0..1	The date of birth of the final customer

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979 **Table 46:** Request swich of market participant market document
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A.4 Response request switch of market participant market document

This is a generic document to be used for response to all kind of request for switch of market participant processes, such as switch of Balance Responsible Party, switch of Metered Data Collector or switch of Metered Data Responsible, in the European energy industry.

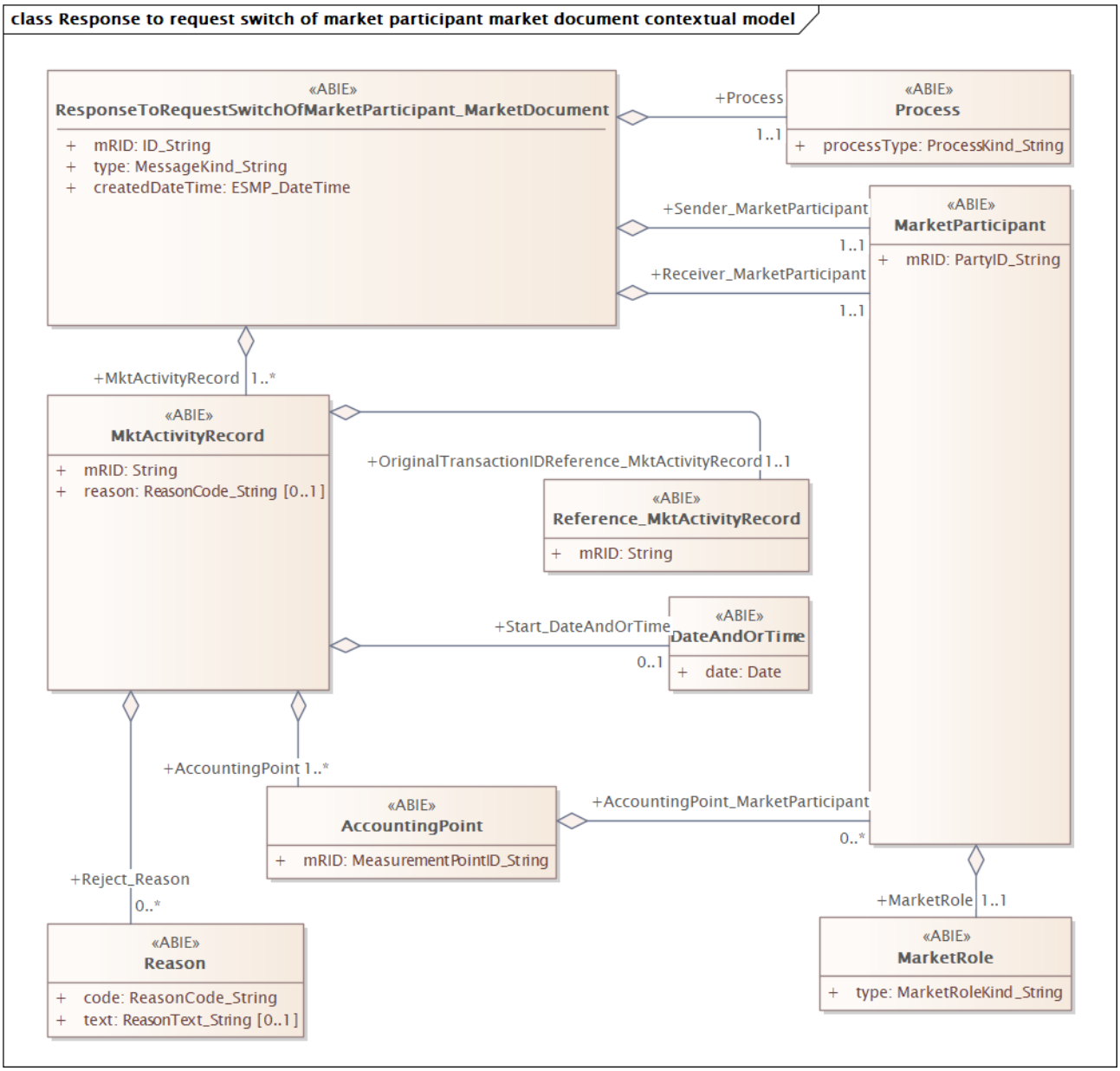


Figure 62 Class diagram: Response request switch of market participant market document contextual model

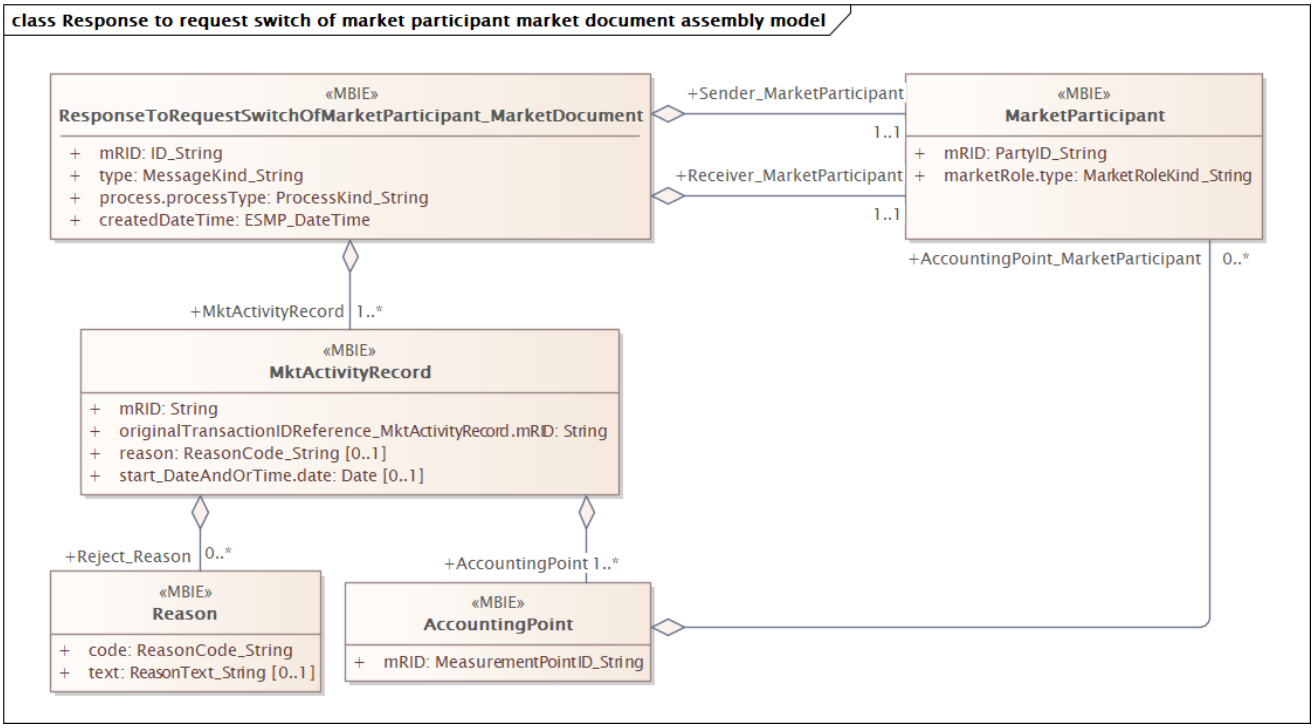


Figure 63 Class diagram: Response to request switch of market participant market document assembly model

CIM Class / Attribute	Card.	Message content
ResponseSwitchSwitchOfMarketParticipant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Response to request switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)

CIM Class / Attribute	Card.	Message content
originalTransactionIDReference_ MktActivityRecord.mRID	1	The Transaction ID from the request given by the requesting market participant,
reason	0..1	Response reason: **A01** Message fully accepted **A02** Message fully rejected
start_DateAndOrTime.date	0..1	The date when the requesting market party (new market party) is linked to the accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	1..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole.type	0..*	Use role code from the ESMP code list, such as: **A08** Balance responsible party **A12** Energy supplier **A26** Metering point administrator
Reject_Reason	0..*	**Note:** Shall be used if rejection
code	1	A code specifying the reason for a rejection, such as: **999** Errors not specifically identified **A23** Area invalid **A53** Receiving party incorrect **A59** Not compliant to local market rules
text	0..1	A textual explanation of the reason for rejection.

Table 47: Response to request switch of market participant Market Document

A.5 Notify switch of market participant to affected party market document

This document is used to notify affected parties, such as the old energy supplier, the balance responsible party and/or the grid access provider, of a switch of market participant linked to an accounting point in the European energy industry.

The notification may be used both to inform of gain or loss of a link to an accounting point. If gain, the attribute “Start_DateAndOrTime” will be used and if loss, the attribute “End_DateAndOrTime” will be used.

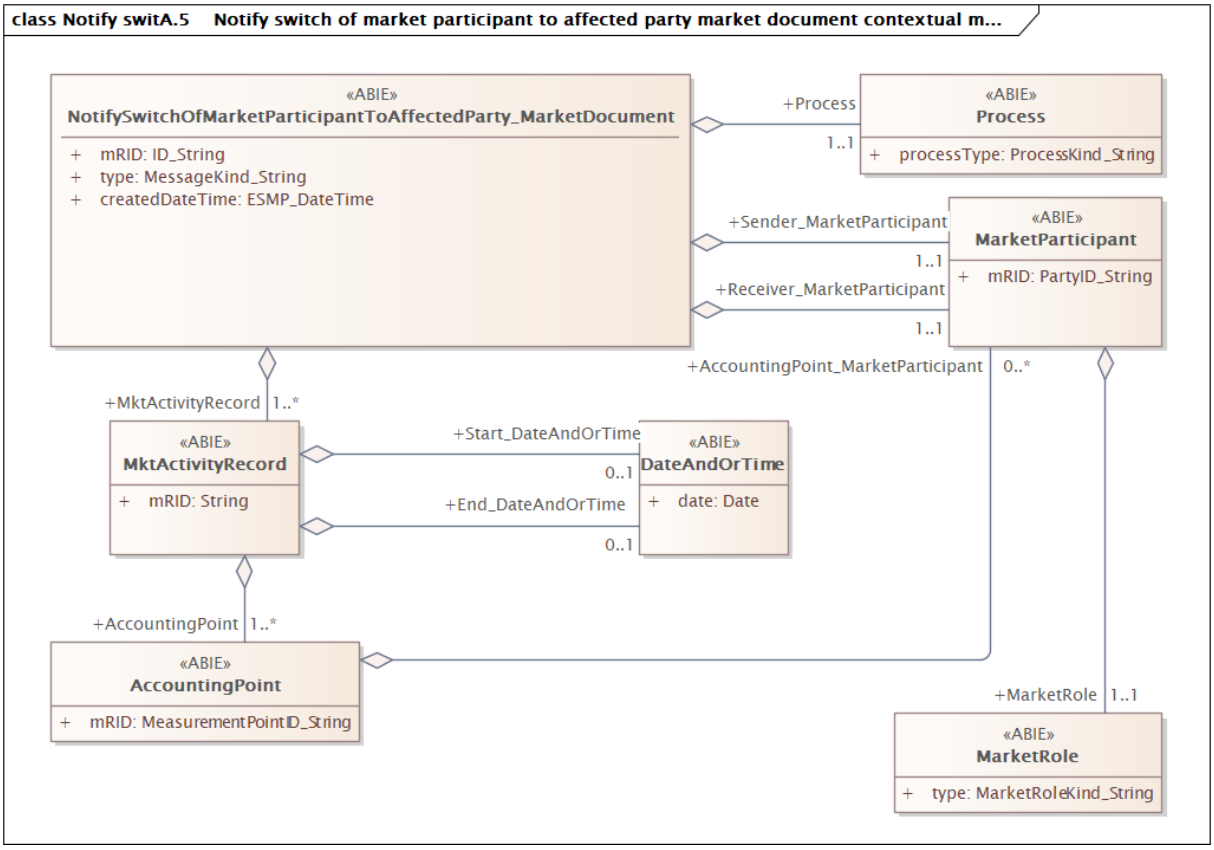


Figure 64 Class diagram: Notify switch of market participant to affected party market document contextual model

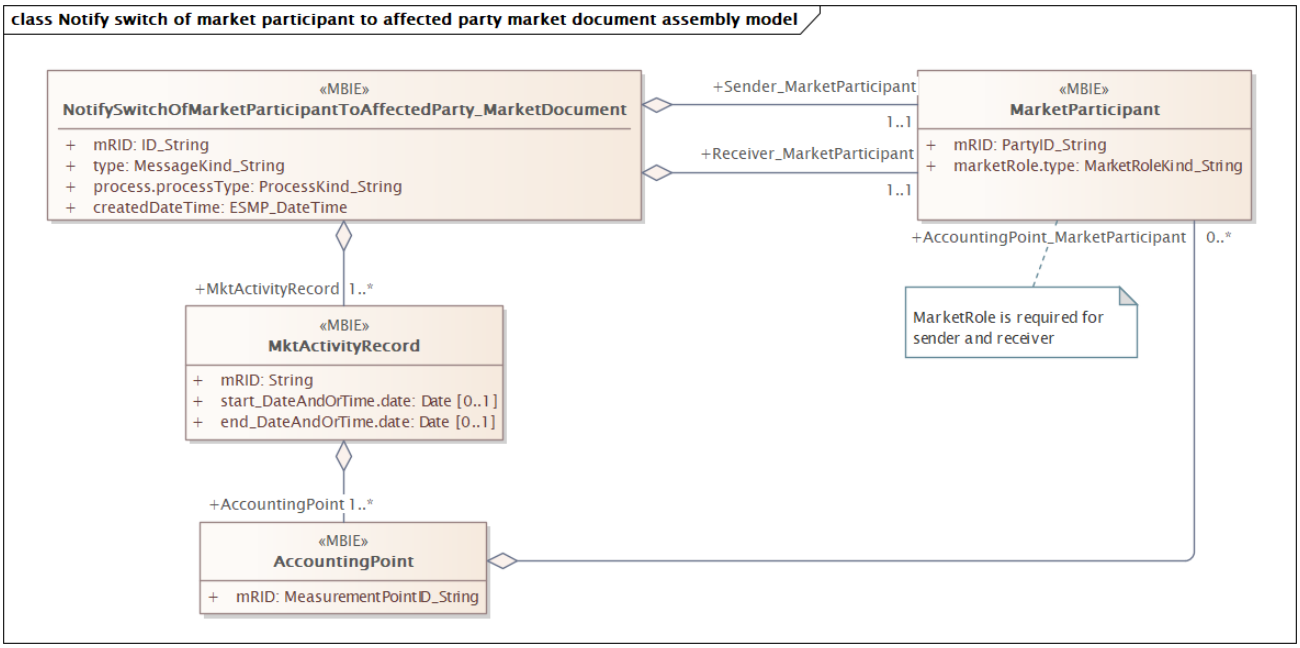


Figure 65 Class diagram: Notify switch of market participant to affected party market document assembly model

CIM Class / Attribute	Card.	Message content
NotifySwitchOfMarketParticipantToAffected Party_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Notify switch of market participant to affected party
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A08** Balance responsible party **A12** Energy supplier **A25** Metered data responsible **A45** Energy Service Company (ESCO)
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	

CIM Class / Attribute	Card.	Message content
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	0..1	The date when the new market participant is linked to the accounting point.
end_DateAndOrTime.date	0..1	The date when the present market participant no longer is linked (LOSS) to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	0..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole.type	0..*	**A08** Balance responsible party **A12** Energy supplier **A25** Metered data responsible **A45** Energy Service Company (ESCO)

Table 48: Notify switch of supplier to affected party Market Document

A.6 Request cancel switch of market participant market document

This document is used to request cancellation of a request for switch of a market participant linked to an accounting point.

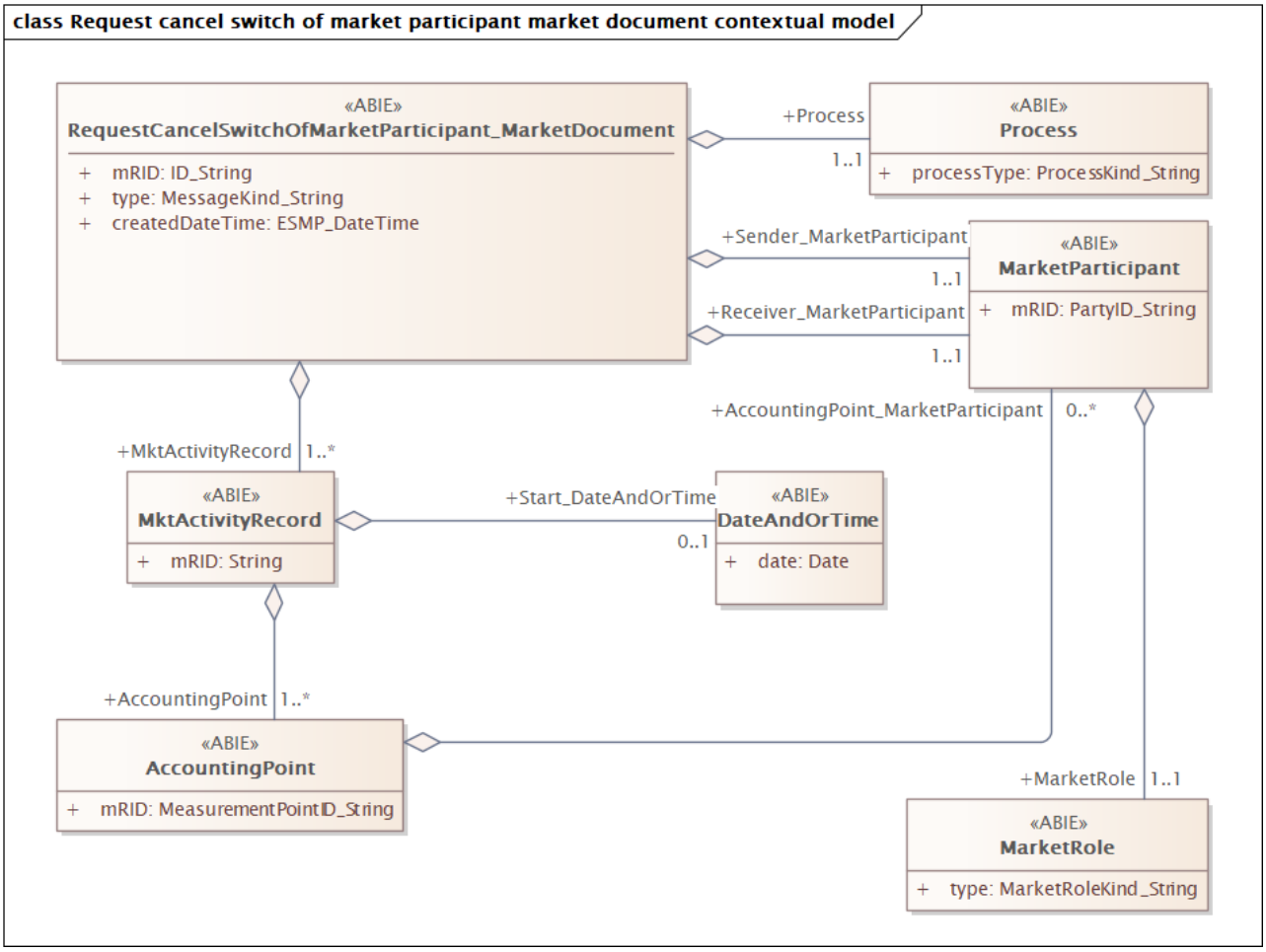


Figure 66 Class diagram: Request cancel switch of market participant market document contextual model

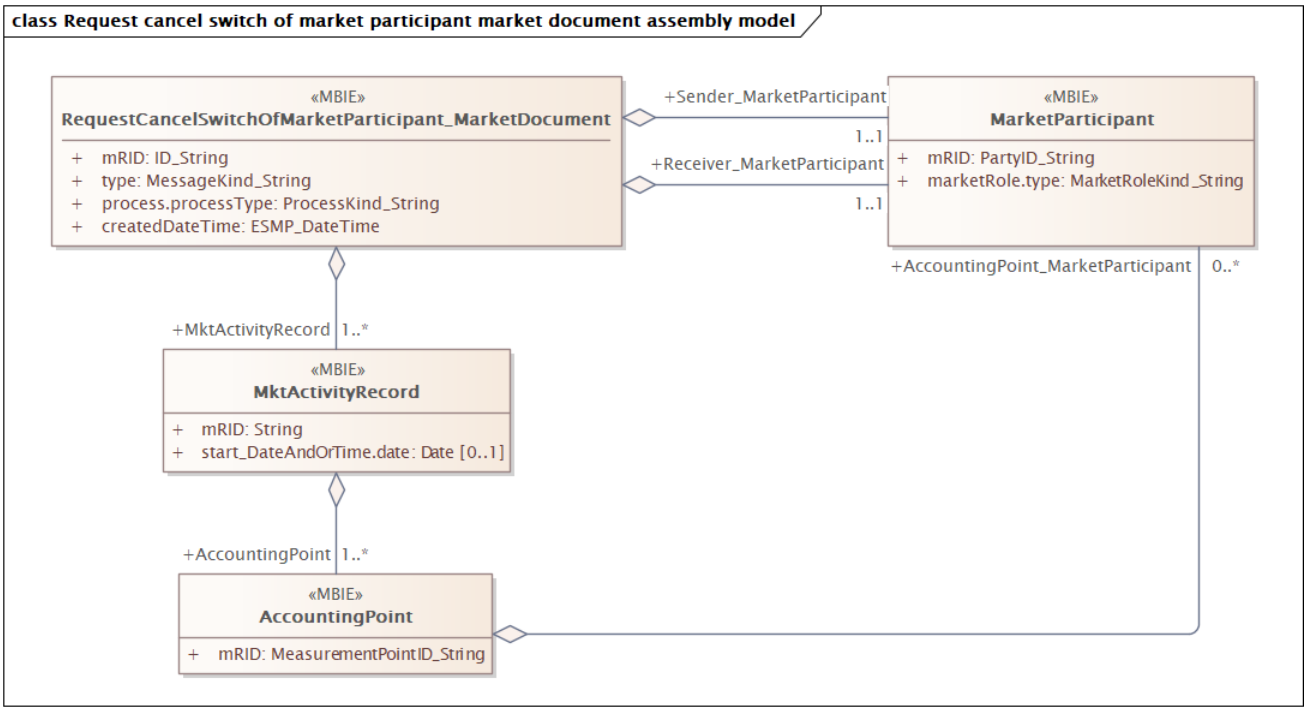


Figure 67 Class diagram: Request cancel switch of market participant market document assembly model

CIM Class / Attribute	Card.	Message content
RequestCancelSwitchOfMarketParticipant _ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Request cancel switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A12** Energy supplier
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)

CIM Class / Attribute	Card.	Message content
start_DateAndOrTime.date	0..1	The date when the requesting party (e.g. new supplier) is assumed to be linked to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	0..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole.type	0..*	**A12** Energy supplier

Table 49: Request cancel switch of market participant market document

A.7 Notify cancel switch of market participant to affected party market document

This document is used to notify affected parties, such as the old energy supplier, the balance responsible party and/or the grid access provider, of a cancellation of a switch of market participant linked to an accounting point in the European energy industry.

The notification may be used both to inform of cancellation of a gain or a loss of a link to an accounting point. If gain, the attribute “Start_DateAndOrTime” will be used and if loss, the attribute “End_DateAndOrTime” will be used.

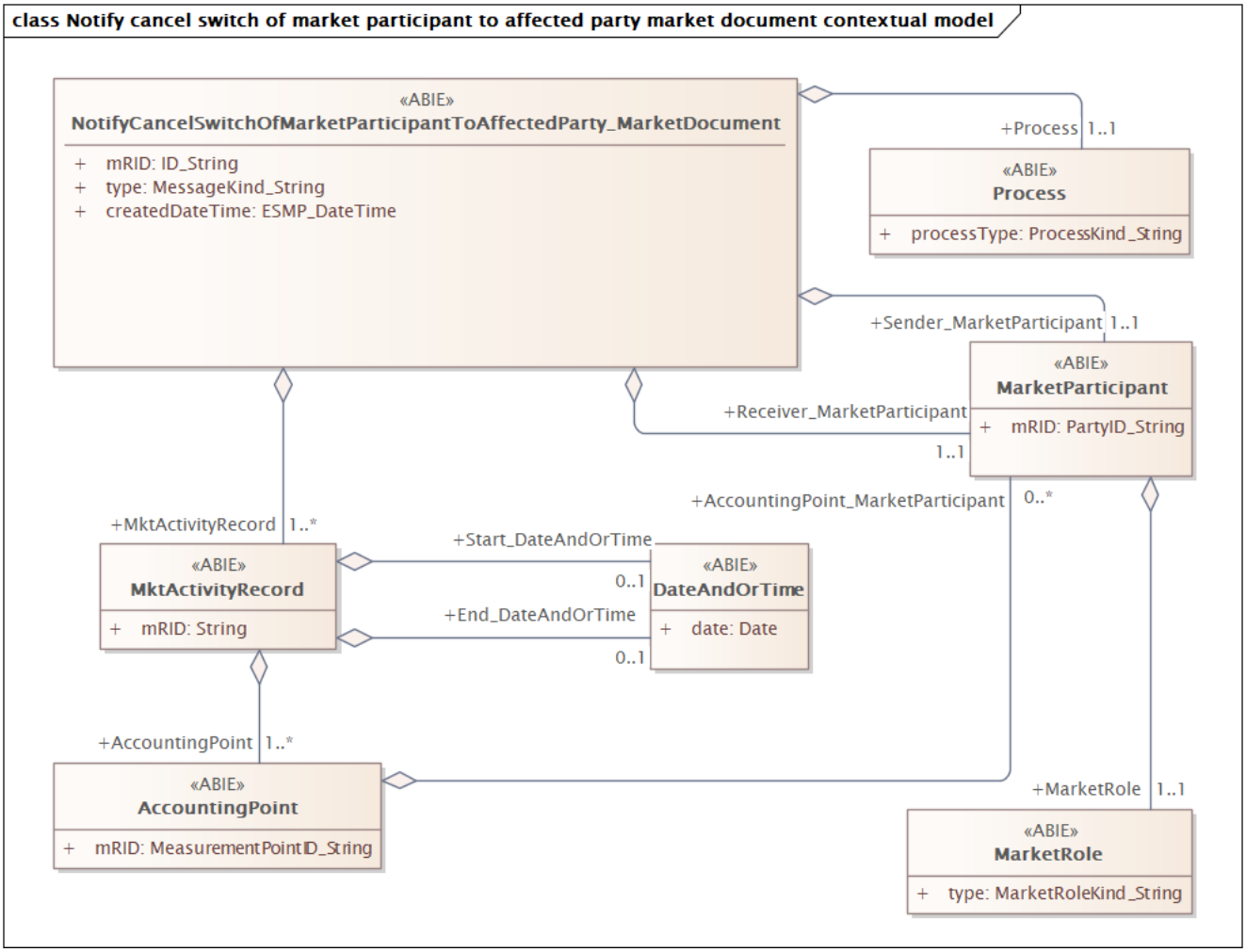


Figure 68 Class diagram: Notify cancel switch of market participant to affected party market document contextual model

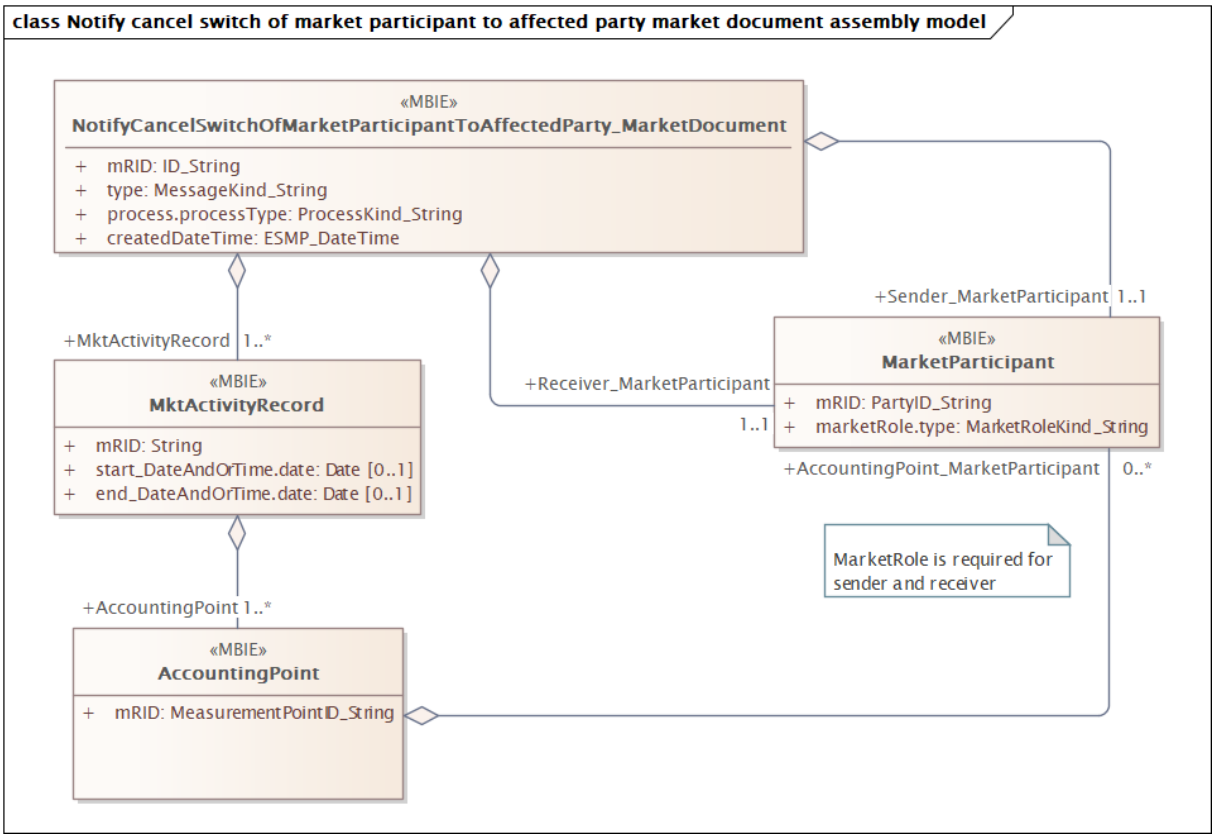


Figure 69 Class diagram: Notify cancel switch of market participant to affected party market document assembly model

CIM Class / Attribute	Card.	Message content
NotifyCancel SwitchOfMarketParticipantTo AffectedParty_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Notify cancellation of switch of market participant to affected party
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A08** Balance responsible party **A12** Energy supplier **A25** Metered data responsible

CIM Class / Attribute	Card.	Message content
		A45 Energy Service Company (ESCO)
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)
start_DateAndOrTime.date	0..1	The date when the recipient market participant was assumed to be linked to the accounting point.
end_DateAndOrTime.date	0..1	The date when the recipient market participant was assumed to lose his link (LOSS) to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	0..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole.type	0..*	**A08** Balance responsible party **A12** Energy supplier **A25** Metered data responsible **A45** Energy Service Company (ESCO)

Table 50: Notify switch of supplier to affected party Market Document

A.8 Response request cancel switch of market participant market document

This is a response to all kind of requests for cancellation of switch of market participant processes, such as switch of Balance Responsible Party, switch of Metered Data Collector or switch of Metered Data Responsible, in the European energy industry.

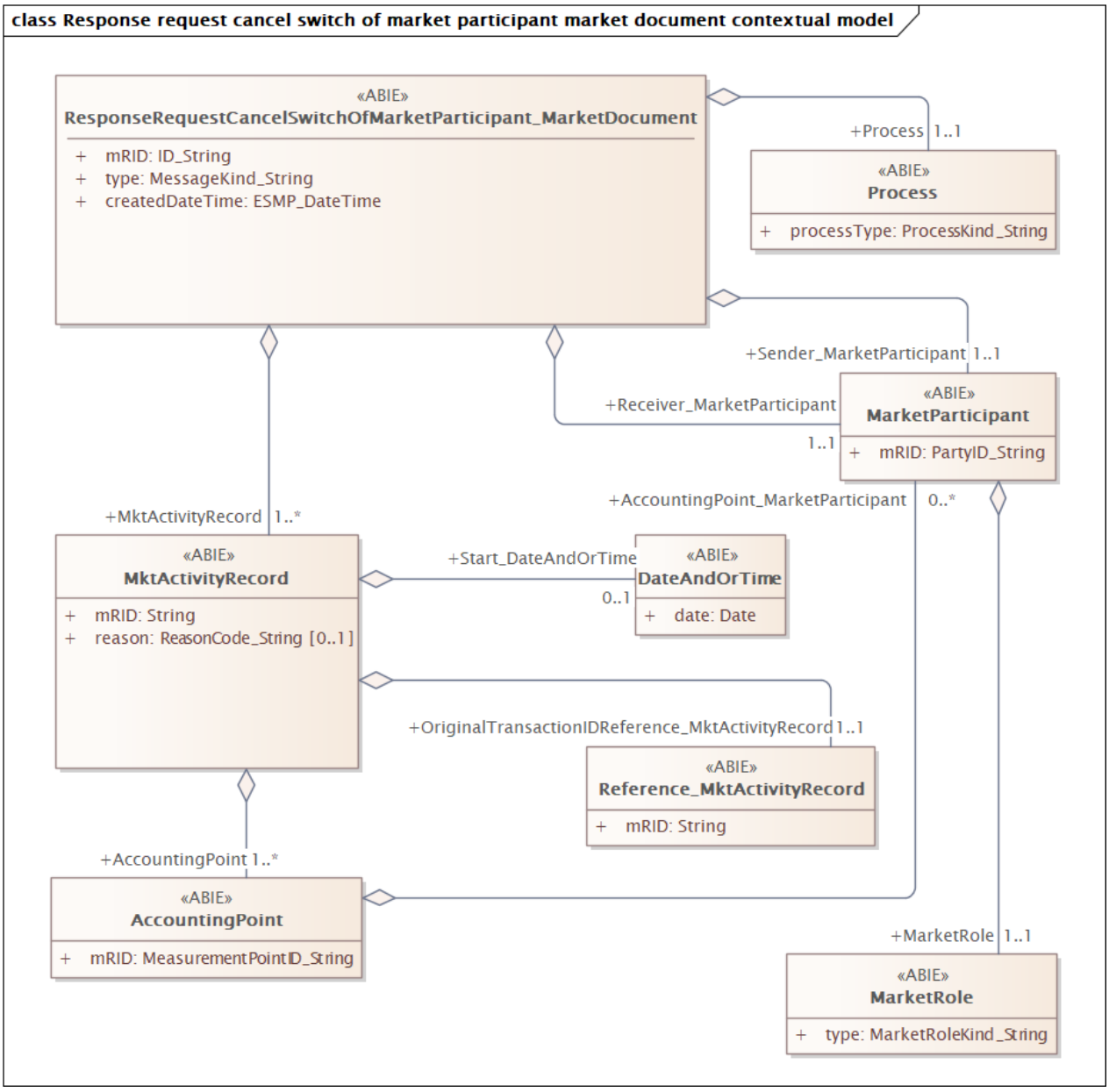


Figure 70 Class diagram: Response request cancel switch of market participant market document contextual model

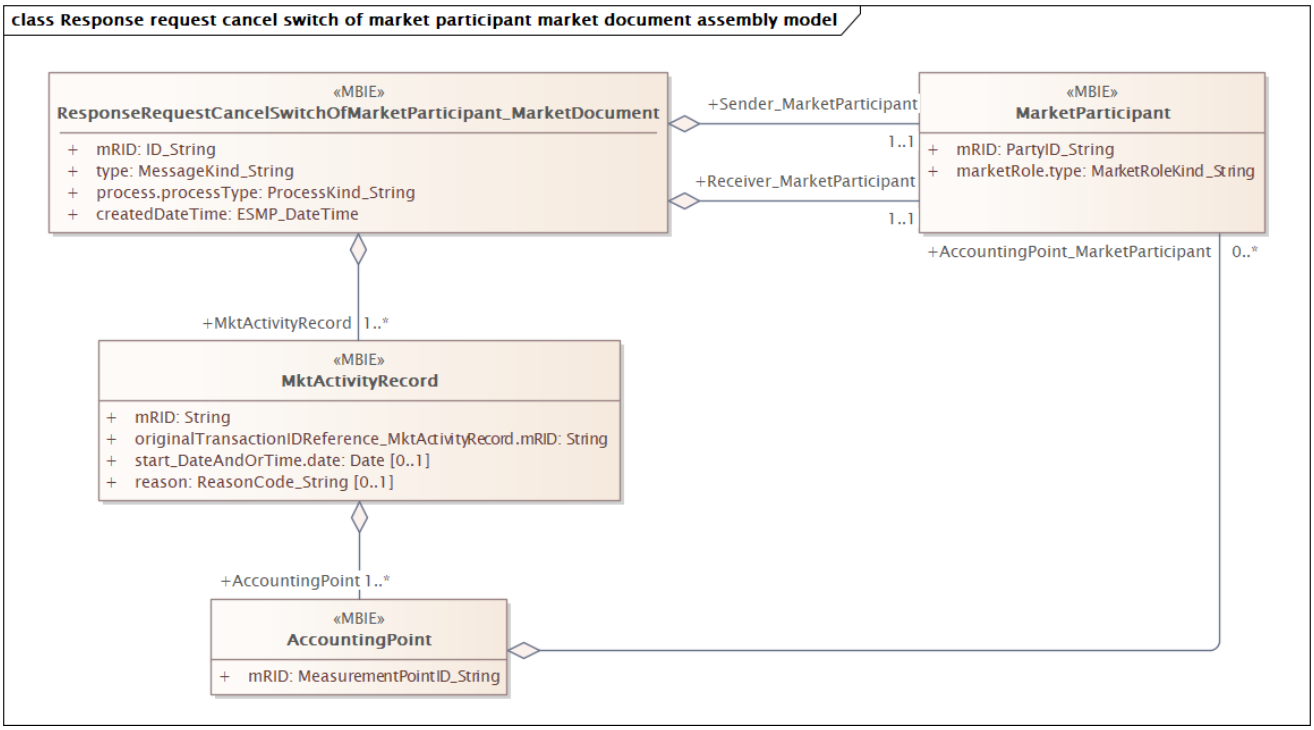


Figure 71 Class diagram: Response request cancel switch of market participant market document assembly model

CIM Class / Attribute	Card.	Message content
ResponseRequestCancelSwitchOfMarket Participant_ MarketDocument		
mRID	1	Unique identification of the market document
type	1	**Axx** Response to request for cancelling a switch of market participant
process.processType	1	Type of process: **Axx** Switch of supplier
sender_MarketParticipant.mRID	1	Unique identification of the sender of the document.
sender_MarketParticipant.marketRole.type	1	**A26** Metering point administrator
receiver_MarketParticipant.mRID	1	Unique identification of the receiver of the document.
receiver_MarketParticipant.marketRole.type	1	**A12** Energy supplier
createdDateTime	1	Date and time for the creation of this market document.
MktActivityRecord	**1..***	
mRID	1	Unique ID for this transaction (unique over time for the sender in question)

CIM Class / Attribute	Card.	Message content
originalTransactionIDReference_ MktActivityRecord.mRID	1	The Transaction ID from the cancellation request given by the requesting market participant.
reason	0..1	Type of event, such as: **A01** Message fully accepted **A02** Message fully rejected
start_DateAndOrTime.date	0..1	The date when the new market participant (e.g. new supplier) was assumed to be linked (GAIN) to this accounting point.
AccountingPoint	**1..***	
mRID	1..*	The unique identification of the accounting point that this response targets.
AccountingPoint_MarketParticipant	0..*	
mRID	1	Unique identification of a market participant linked to this accounting point.
marketRole.type	0..*	**A08** Balance responsible party **A12** Energy supplier

Table 51: Response request cancel switch of market participant market document