



Business Requirements for
for
Upfront Request for
Metering Point
Characteristics

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A. About this document

This document is a business requirements specification for the Upfront Request for Metering Point Characteristics process within the structuring process of the European energy market.

The Upfront Request for Metering Point Characteristics is a process that can be used as a preparation for other processes, such as Change of Supplier, to make these processes more efficient. A Balance Supplier may for instance run the Upfront Request for Metering Point Characteristics to get needed information related to a Metering Point when a Customer requests a new supply contract, such as the correct Metering point ID. The technical implementation may for instance be done by implementing message exchanges or by a direct look-up in centralised or local database. Contrary to the Request Metering Point Characteristics process, the Upfront Request for Metering Point Characteristics process should only returns a limited number of Metering Point Characteristics elements, i.e. the elements needed for identification of a Metering Point.

As a general introduction ebIX® has published a separate document “Introduction to ebIX® Business Requirements and Business Information Models” [4]. The introduction also includes the generic model elements that are not specific for a particular business process.

In line with UN/CEFACT Modelling Methodology version 2 (UMM-2) ebIX® defines the business requirements before starting the actual modelling. These requirements have been specified by the ebIX® work group “Customer Switching (CuS)” and are the basis for the Business Information Model which is published in a separate document.

The Business Information Model is in turn the basis for the creation of XML schema’s and is expected to be the basis for the specification of web services in a next version of the model document. Since ebIX® supports both EDIFACT and XML the model will also serve as the basis for the creation of Message Implementation Guides for the mapping to EDIFACT UNSM’s. The Business Information Model and the syntax specific structures are specified by the ebIX® “Technical Committee” (ETC).

A.1. Comments to the ebIX® model

If you have comments or suggestions to the requirements please contact any member of the project group or directly to Ove Nesvik, ove.nesvik@edisys.no.

A.2. References

A.2.1. Standards

- [1] UML Profile for UN/CEFACT’s Modelling Methodology (UMM), Base Module 2.0., 2.0. (http://www.unece.org/cefact/umm/umm_index.html)
- [2] The Harmonized Role Model (for the Electricity Market) by ebIX®, ENTSO-E, and EFET (www.ebix.org)
- [3] ebIX® code lists (www.ebix.org)

A.2.2. ebIX® Documents

- [4] Introduction to ebIX® Business Requirements and Business Information Models(
www.ebix.org)
- [5] Recommended Identification Schemes for the European Energy Market (www.ebix.org)
- [6] ebIX® Business Requirements for Notify Metering Point Characteristics (www.ebix.org)
- [7] ebIX® code lists (www.ebix.org)

A.3. Participants in the project

These Business Requirements as part of the ebIX® Model for the European Energy Market (*see [4]*) are made in a project with the members of CuS. For a list of members of CuS see www.ebix.org .

A.4. Main changes since last version

Old	New	Clarification	Date
Version 3.2.A			
	Addition of data element definitions	Update of references and textual corrections	20110621
	Data element definitions and introduction	Updated after CuS meeting August 2012	20121012
	General corrections, e.g. text alignment between CuS BRVs	Updated after CuS meeting December 2012	20130121
	General corrections, e.g. text alignment between CuS BRVs	Updated after CuS meeting February 2013	20130604
	General corrections, e.g. text alignment between CuS BRVs	<ul style="list-style-type: none"> • Added a reference to “ebIX® Code lists • Added page shift for level one and two. • Removed actors from the top level UseCase • Renamed Grid User to Grid Customer • Renamed Initiating Role and Requesting Role to Initiator • Renamed Linked Role to Linked Party • Added stereotypes to enumerations • Add separate chapters for UseCases described in external BRV’s • Document names in Upper Camel Case 	20130923

		<ul style="list-style-type: none"> • Rephrased endsWhen and beginsWhen in UseCase Descriptions • Updated links to UN/CEFACT documents • Rephrased post condition text in the top level UseCases • Responding document states are made explicit • State machines are update • In the “Business processes” (Activity diagrams), the end (“Success”) is moved to the recipients swimlane • Customer, Grid Customer and Supply Customer are used consistent • Reference links are shown in brackets • «Business entity» is added where missing <p>New classes are added for generic entities, such as MP and Meter</p>	
	General corrections, e.g. spelling errors		20140223
Version 3.1.A			
	Layout of document	Updated according to a common ebIX® layout	20110525
	Class diagrams	Updated according to new ebIX® modelling principles	20110525
	Complete review and update	Updated with comments after CuS meeting September 2011	20120131
	Review and update	Updated after CuS meeting March 2012	20120404

1. Business Requirements View: Upfront Request for Metering Point Characteristics

1.1. Upfront Request for Metering Point Characteristics (Business Process UseCase)

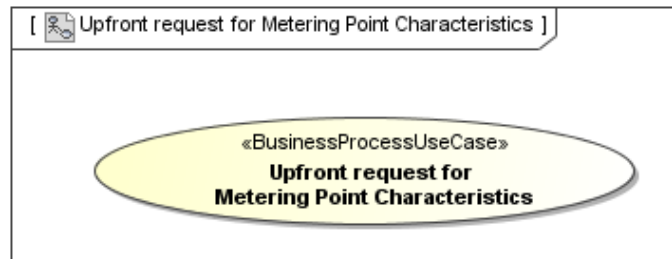


Figure 1 Upfront Request for Metering Point Characteristics

1.1.1. Description

UseCase description: Upfront Request for Metering Point Characteristics	
definition	<p>The <i>Initiator</i>, i.e.:</p> <ul style="list-style-type: none"> • Balance Responsible Party • Balance Supplier • Metered Data Responsible • Transport Capacity Responsible Party <p>queries the <i>Metering Point Administrator</i> for characteristic of a certain Metering Point.</p> <p>This process can be used as a preparation for other processes, such as Change of Supplier, to make these more efficient.</p>
beginsWhen	When the <i>Initiator</i> has a need for characteristics of a <i>Metering Point</i> .
preCondition	<p>The <i>Initiator</i> has a mandate from the Customer.</p> <p>The <i>Initiator</i> is authorised in its role.</p>
endsWhen	When the <i>Initiator</i> has received a confirmation or rejection to the Upfront Request for Metering Point Characteristics.
postCondition	The <i>Initiator</i> has received the Upfront Metering Point Characteristics or the query failed to produce a result.
exceptions	The technical implementation may be done in various ways. The Balance Supplier may send a query to the <i>Metering Point Administrator</i> to verify the Metering Point data to be used for identification, or may look-up the Metering Point identification in a centralised or local database.
actions	See 1.1.2

1.1.2. Business Process

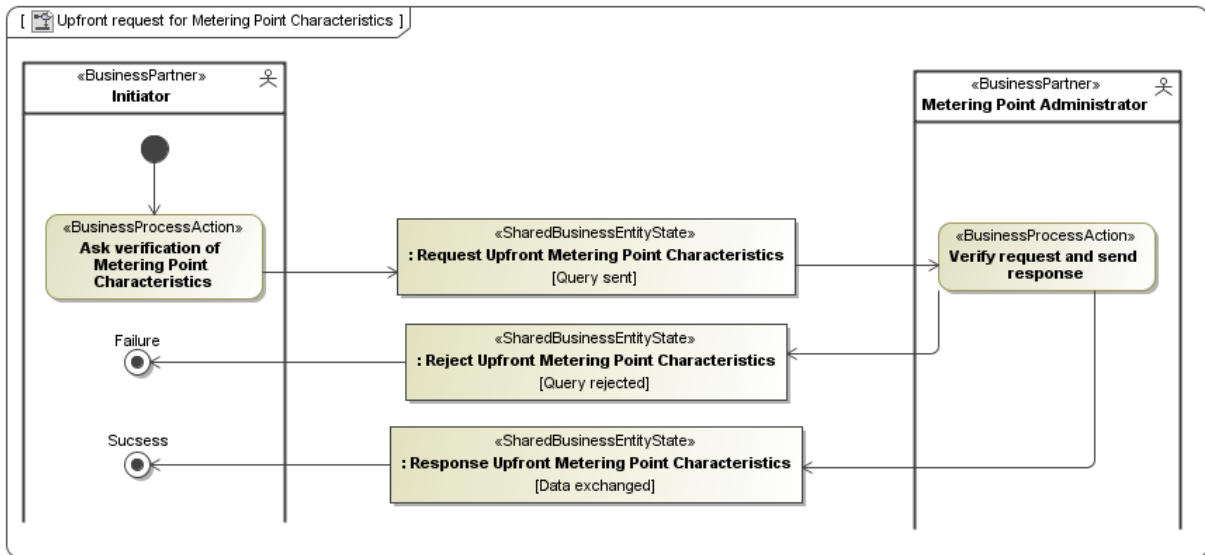


Figure 2 Business Process Upfront Request for Metering Point Characteristics

1.2. Business Partner View

1.2.1. Business Partners Upfront Request for Metering Point Characteristics

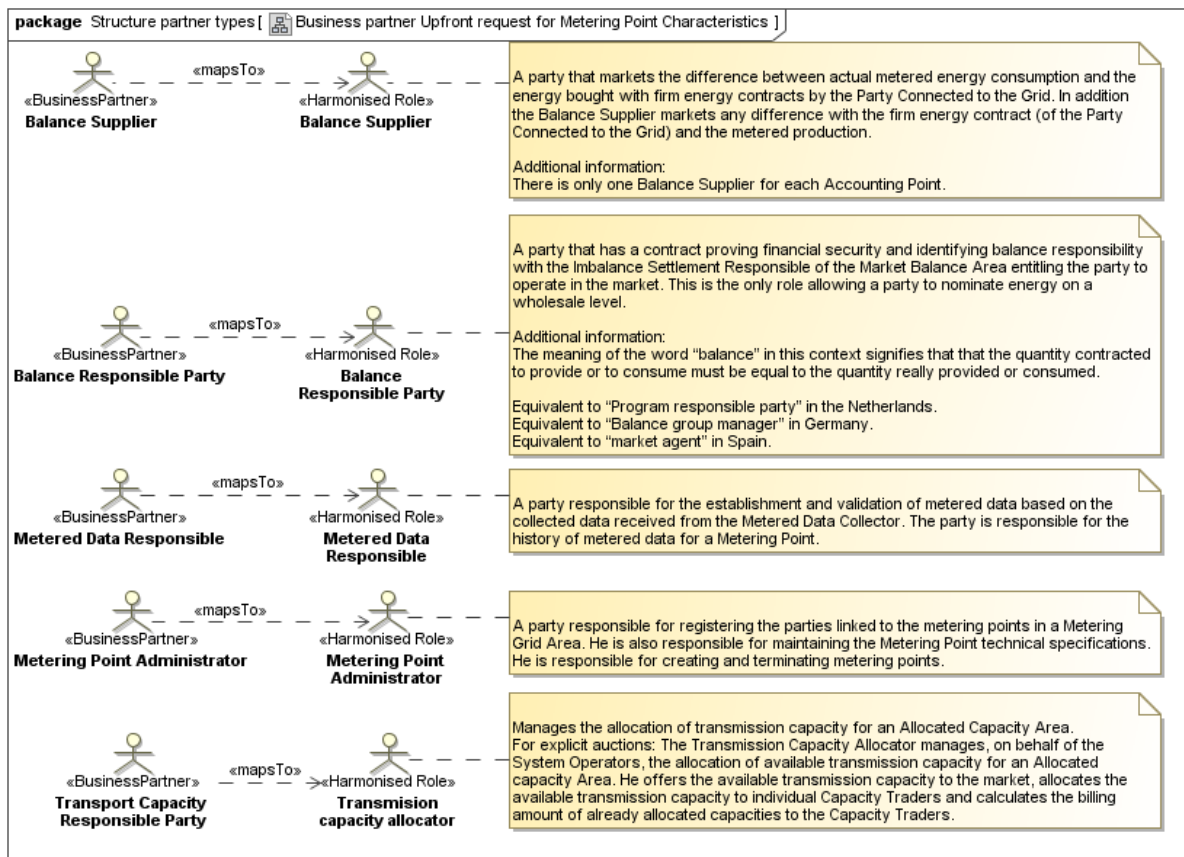


Figure 3 Business Partners Upfront Request for Metering Point Characteristics

1.3. Business Entity View

1.3.1. Short introduction

In these business requirements the ebIX® work group CuS has for the first time used the principle of specifying the core data set as business requirements. This core data set is defined as the set of information that is required when using synchronous web services as the exchange mechanism.

The information required for asynchronous web services is added as an option.

Finally, optional information needed to meet national requirements is specified.

For exchange of the core data set additional information elements must be added to conform to technical exchange standards. But this is not regarded as a business requirement when defining the core data set, but as a requirement for technical implementation or mapping to syntax. Header and context information are added in the ebIX® Business Information Model.

It is important to note that it is assumed for defining the core data set, that Metering Points are uniquely dedicated to either electricity or to gas. As a consequence the specification of the business sector is not part of core data set anymore.

1.3.2. Upfront Request for Metering Point Characteristics (Class Diagram)

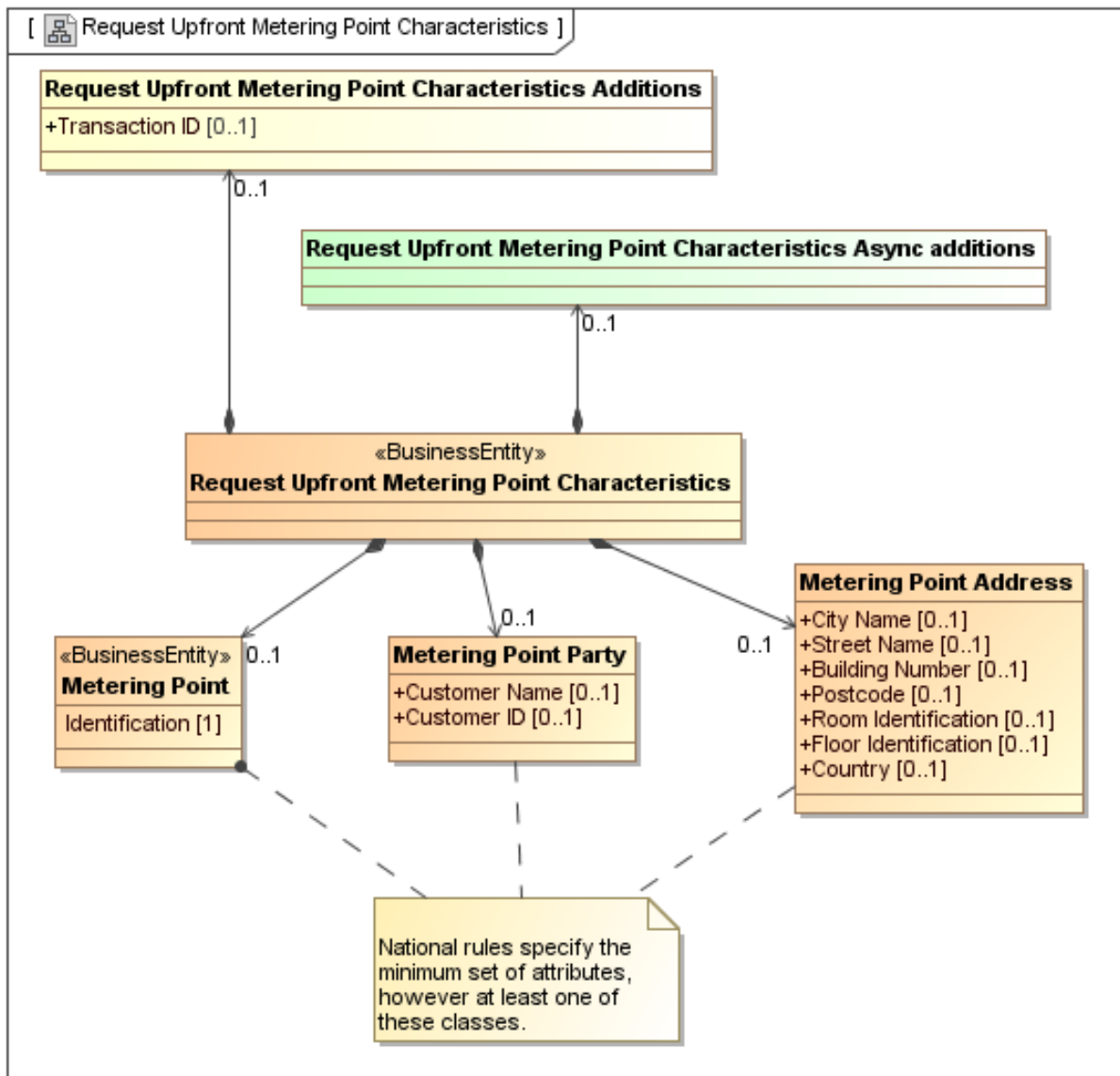


Figure 4 Upfront Request for Metering Point Characteristics

Comment to the diagram:

- National rules specify the minimum set of attributes to identify a Metering Point used in an Upfront Request for Metering Point Characteristics.
- The number of attributes to identify a Metering Point can be extended on a national basis.

Element definitions, Upfront Request for Metering Point Characteristics	
«Business entity» Upfront Request for Metering Point Characteristics	The information set to be sent by an Initiator, i.e.: <ul style="list-style-type: none"> • Balance Responsible Party • Balance Supplier • Metered Data Responsible • Transport Capacity Responsible Party to the Metering Point Administrator when requesting Upfront Metering Point Characteristics.
«Business entity» Metering Point	An entity where energy products are measured or computed.
Metering Point ID	The unique identification of the Metering Point the Request Upfront Metering Point Characteristics is intended for.
Metering Point Party	A class identifying a party connected to a Metering Point, such as a person or an organisation.
Customer name	The name of the Customer at this Metering Point.
Customer ID	The unique identification of the Customer in this Metering Point.
Metering Point Address	The address of a Metering Point.
City Name	The name, expressed as text, of the city, town or village of this address.
Street Name	The name, expressed as text, of this street or thoroughfare of this address.
Building Number	The code specifying the postcode of this address.
Postcode	The identification, expressed as text, of the room, suite, office or apartment as part of this address.
Room Identification	The identification by name or number, expressed as text, of the floor in the building as part of this address.
Floor Identification	The unique identifier of the country for this address (Reference ISO 3166 and UN/ECE Rec 3).
Country	The name, expressed as text, of the city, town or village of this address.
Upfront Request for Metering Point Characteristics Additions	Additional information related to Upfront Request for Metering Point Characteristics, to be agreed on a national level.
Transaction ID	The unique identification of this set of information, given by the Initiator.
Upfront Request for Metering Point Characteristics Async Additions	Additional information related to Upfront Request for Metering Point Characteristics, needed when using asynchronous communication, however not used in this request.

1.3.3. Upfront Request for Metering Point Characteristics (State Diagram)

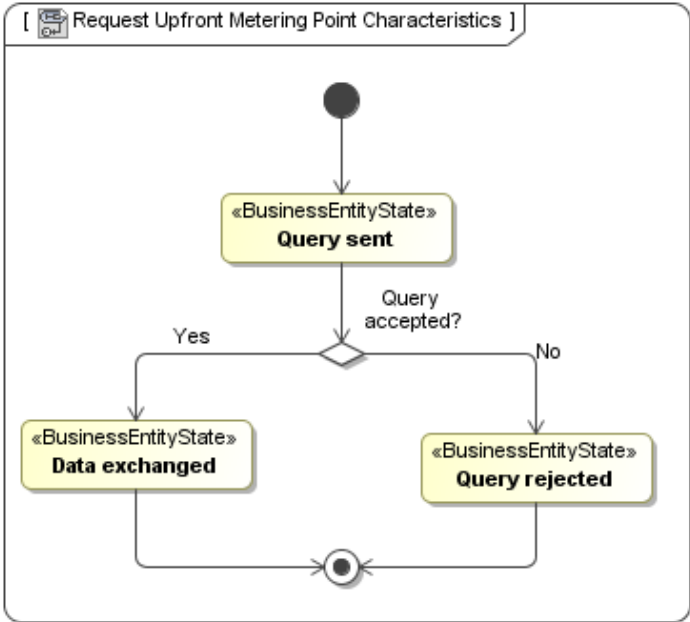


Figure 5 Upfront Request for Metering Point Characteristics

1.3.4. Response Upfront Request for Metering Point Characteristics (Class Diagram)

The Response Upfront Request for Metering Point Characteristics class diagram must be specified on national basis. The set of attributes can be a subset, or the complete set, of Metering Point Characteristics specified in the Business Requirements Specification for Notify Metering Point Characteristics [6].

1.3.5. Reject Upfront Request for Metering Point Characteristics (Class Diagram)

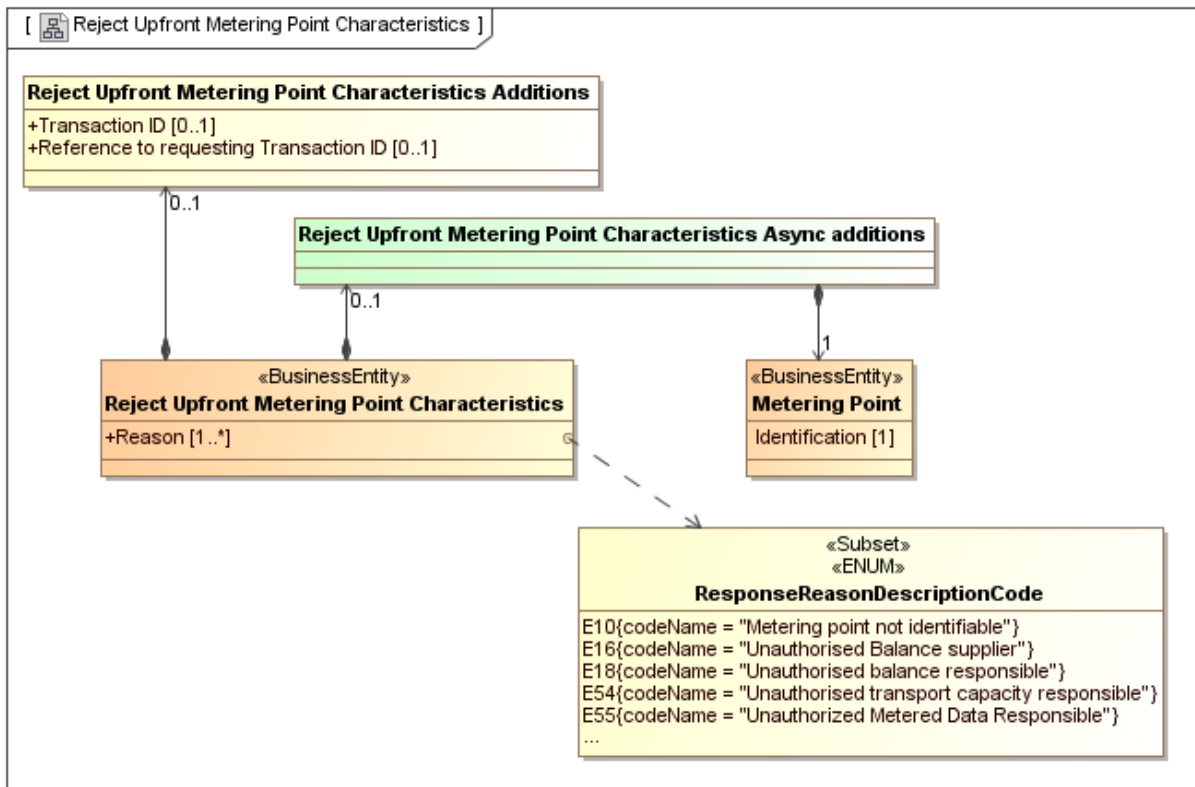


Figure 6 Reject Upfront Request for Metering Point Characteristics

Element definitions, Reject Upfront Request for Metering Point Characteristics	
<p>«Business entity» Reject Upfront Request for Metering Point Characteristics</p>	<p>The information set sent from the Metering Point Administrator to the Initiator, i.e.:</p> <ul style="list-style-type: none"> • Balance Responsible Party • Balance Supplier • Metered Data Responsible • Transport Capacity Responsible Party <p>when rejecting a Request for Upfront Metering Point Characteristics.</p>
Reason	One or more codes specifying the reason for the rejection of the Requested Upfront Metering Point Characteristics.
<p>«Business entity» Metering Point</p>	An entity where energy products are measured or computed.
Metering Point ID	The unique identification of the Metering Point the request for Upfront Metering Point Characteristics was intended for.

Reject Upfront Request for Metering Point Characteristics Additions	Information, related to rejection of the Requested Upfront Metering Point Characteristics, to be agreed on a national level.
Transaction ID	The unique identification of this set of information given by the Metering Point Administrator.
Reference to requesting Transaction ID	The Transaction ID from the request, where this is the response for, given by the Initiator.
Reject Upfront Request for Metering Point Characteristics Async Additions	Additional information, related to the rejection of the Upfront Request for Metering Point Characteristics, needed when using asynchronous communication.