

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

General - Load Forecast Process

Model Documentation



The European message format for the gas market

*Version 6.1
(to be deprecated)*

***Document Version: 2
Schema Version: 1***

22

23

24 **1 Model Detail.....3**

25 **2 Document usage decision tables4**

26 2.1 Load Forecast Document.....4

27 2.2 Load Forecast Confirmation Document6

28 **3 Load Forecast Process8**

29 3.1 Business Process8

30 3.1.1 Establish Load Forecast.....8

31 3.1.2 Load Forecast Sequence.....9

32 3.2 Load Forecast Document (PRODOC).....10

33 3.2.1 Load Forecast Document Contextual Model.....10

34 3.2.2 Load Forecast Document Assembly Model11

35 3.2.2.1 LoadForecast_Document.....12

36 3.2.2.1.1 Attributes.....12

37 3.2.2.2 ConnectionPoint.....12

38 3.2.2.2.1 Attributes.....12

39 3.2.2.3 Account12

40 3.2.2.3.1 Attributes.....12

41 3.2.2.4 Period13

42 3.2.2.4.1 Attributes.....13

43 3.3 Load Forecast Confirmation Document (PROCON)14

44 3.3.1 Load Forecast Confirmation Document Contextual Model14

45 3.3.2 Load Forecast Confirmation Document Assembly Model15

46 3.3.2.1 LoadForecastConfirmation_Document16

47 3.3.2.1.1 Attributes.....16

48 3.3.2.2 ConnectionPoint.....17

49 3.3.2.2.1 Attributes.....17

50 3.3.2.3 Account17

51 3.3.2.3.1 Attributes.....17

52 3.3.2.4 Period17

53 3.3.2.4.1 Attributes.....17

54 3.3.2.5 Reason17

55 3.3.2.5.1 Attributes.....17

56 **4 Document Change Log.....18**

57 4.1 Version18

58 4.1.1 Attributes.....18

59

60

61 1 Model Detail

62 COPYRIGHT & LIABILITY

63 The Edig@s Workgroup (EASEE-Gas Message and Workflow Design Working Group) disclaims and excludes, and
64 any user of the Edig@s Workgroup Implementation Guidelines acknowledges and agrees to the Edig@s Workgroup
65 disclaimer of, any and all warranties, conditions or representations, express or implied, oral or written, with respect to
66 the guidelines or any part thereof, including any and all implied warranties or conditions of title, non-infringement,
67 merchantability, or fitness or suitability for any particular purpose (whether or not the Edig@s Workgroup knows, has
68 reason to know, has been advised, or is otherwise in fact aware of any such purpose), whether alleged to arise by law,
69 by reason of custom or usage in the trade, or by course of dealing. Each user of the guidelines also agrees that under
70 no circumstances will the Edig@s Workgroup be liable for any special, incidental, exemplary, punitive or
71 consequential damages arising out of any use of, or errors or omissions in, the guidelines.

72 **2 Document usage decision tables**

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

74 **2.1 Load Forecast Document**

75

Load Forecast Document	Trade Program (ALH)	Entry Program (ALI)	Exit Program (ALJ)
identification	Mandatory.		
version	Mandatory.		
documentCode	ALH = Trade Program (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	ALI = Entry Program (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	ALJ = Exit Program (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).
creationDateTime	Mandatory.		
ValidityPeriod	Mandatory.		
contractReference.identification	Mandatory.		
contractReference.referenceCode	May be used. (Refer to Edig@s ReferenceCodeType for the list of valid codes).		
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)		
issuer_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).		
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)		
recipient_MarketParticipant.marketRole.roleCode	ZSO = System Operator (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).		
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.		
ConnectionPoint.measureUnit	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) (Refer to Edig@s UnitTypeCodeList for the list of valid codes).		

Load Forecast Document	Trade Program (ALH)	Entry Program (ALI)	Exit Program (ALJ)
Account.identification	Mandatory; codingScheme=305 (EIC Party X code) or ZSO		
Account.accountCode	ZOC = Internal Party Account ZUD = Virtual Account (Refer to Edig@s AccountCodeTypeCodeList for the list of valid codes)		
Account.accountTSO	May be used		
Period.timeInterval	Mandatory		
Period.direction.gasDirectionCode	Z02 = Input quantity. Z03 = Output quantity.		
Period.Quantity	Mandatory		

76
77

78 **2.2 Load Forecast Confirmation Document**

79

Load Forecast Confirmation Document	Trade Confirmation (ALK)	Entry Confirmation (ALL)	Exit Confirmation (ALM)
identification	Mandatory.		
version	Mandatory.		
documentCode	ALK = Trade Confirmation (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	ALL = Entry Confirmation (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).	ALM = Exit Confirmation (Refer to Edig@s DocumentCodeTypeCodeList for the list of valid codes).
creationDateTime	Mandatory.		
ValidityPeriod	Mandatory.		
contractReference.identification	Mandatory.		
contractReference.referenceCode	May be used. (Refer to Edig@s ReferenceCodeType for the list of valid codes).		
issuer_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)		
issuer_MarketParticipant.marketRole.roleCode	ZSO = System Operator (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).		
recipient_MarketParticipant.identification	Mandatory; codingScheme = 305 (EIC Party X code)		
recipient_MarketParticipant.marketRole.roleCode	ZSH = Balance Responsible Party (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes).		
proDoc_Document.identification	Mandatory		
proDoc_Document.version	Mandatory		
ConnectionPoint.identification	Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.		
ConnectionPoint.measureUnit	KW1 = Kilowatt-hour per hour (kWh/h) KW2 = Kilowatt-hour per day (kWh/d) (Refer to Edig@s UnitTypeCodeList for the list of valid codes).		

Load Forecast Confirmation Document	Trade Confirmation (ALK)	Entry Confirmation (ALL)	Exit Confirmation (ALM)
Account.identification	Mandatory; codingScheme=305 (EIC Party X code) or ZSO		
Account.accountCode	ZTX = Differences account ZOC = Internal Party Account ZUD = Virtual Account (Refer to Edig@s AccountCodeTypeCodeList for the list of valid codes).		
Account.accountTSO	May be used		
Period.timeInterval	Mandatory		
Period.direction.gasDirectionCode	Z02 = Input quantity. Z03 = Output quantity.		
Period.Quantity	Mandatory		
Reason.reasonCode	Mandatory (Refer to Edig@s ReasonCodeTypeCodeList for the list of valid codes).		
Reason.text	May be used		

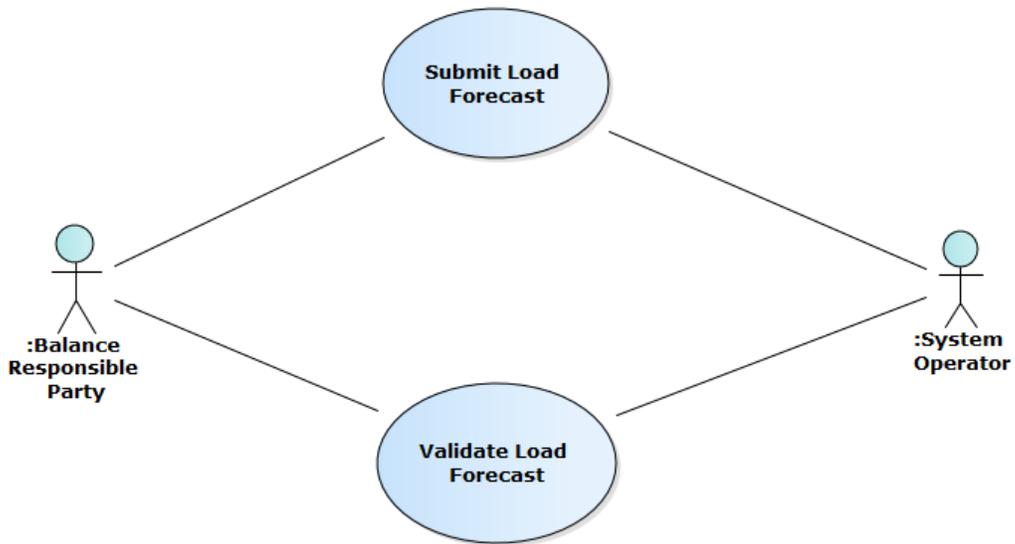
80

81 3 Load Forecast Process

82 3.1 Business Process

83 3.1.1 Establish Load Forecast

84 Before the beginning of a gas day the Balance Responsible Parties are obliged to submit to the System Operator their
 85 load forecast for the day ahead. The load forecast is validated and approved by the System Operator.
 86



87 Figure: 1 Establish Load Forecast
 88
 89

3.1.2 Load Forecast Sequence

91 This phase of the balance area management process necessitates the submission of the Load Forecast Document
92 (PRODOC) by the Balance Responsible Party to the System Operator. All Load Forecast Documents submitted are
93 acknowledged after successful reception by the System Operator through the use of a standard Acknowledgement
94 Document.

95
96 This load forecast is verified and validated and the results of this process are provided to the Balance Responsible
97 Party in the form of a Load Forecast Confirmation Document (PROCON).
98

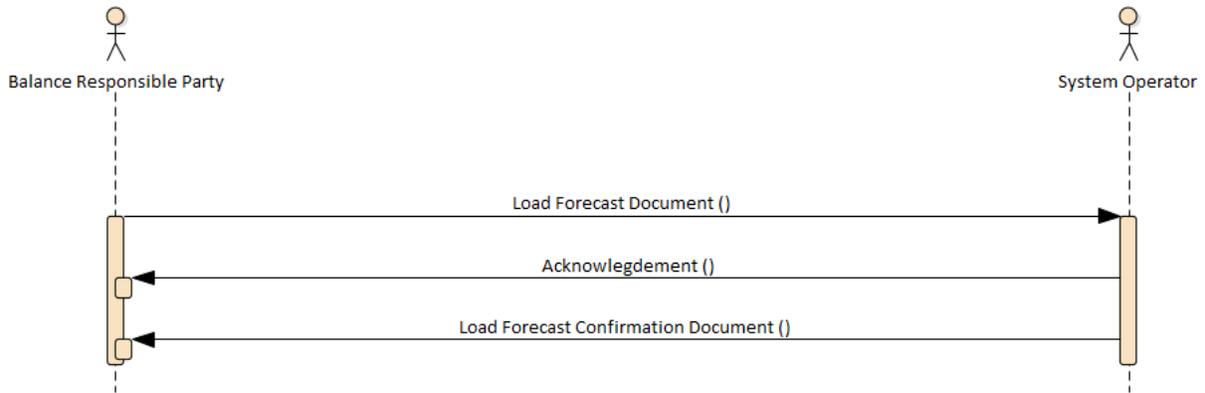


Figure: 2 Load Forecast Sequence

99
100
101

102 **3.2 Load Forecast Document (PRODOC)**
 103 **3.2.1 Load Forecast Document Contextual Model**
 104

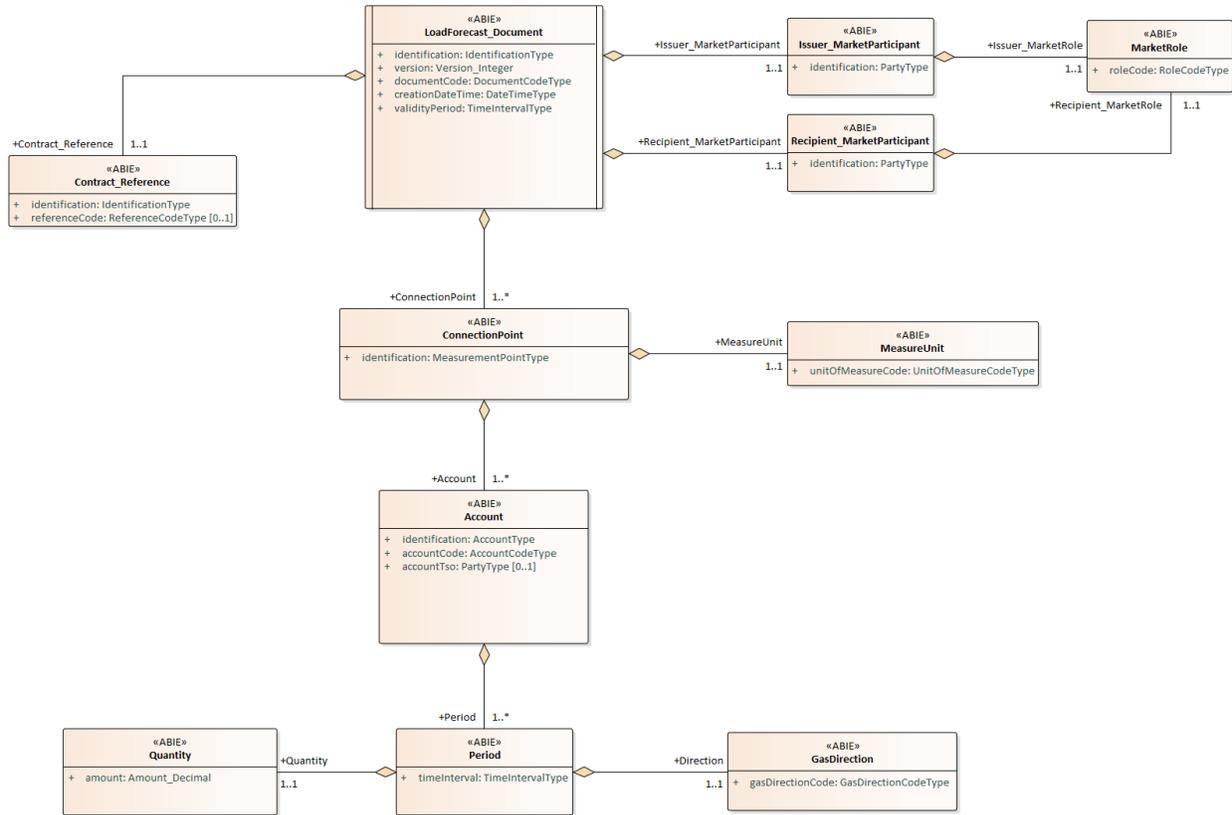


Figure: 3 Load Forecast Document Contextual Model

105
 106
 107

3.2.2 Load Forecast Document Assembly Model

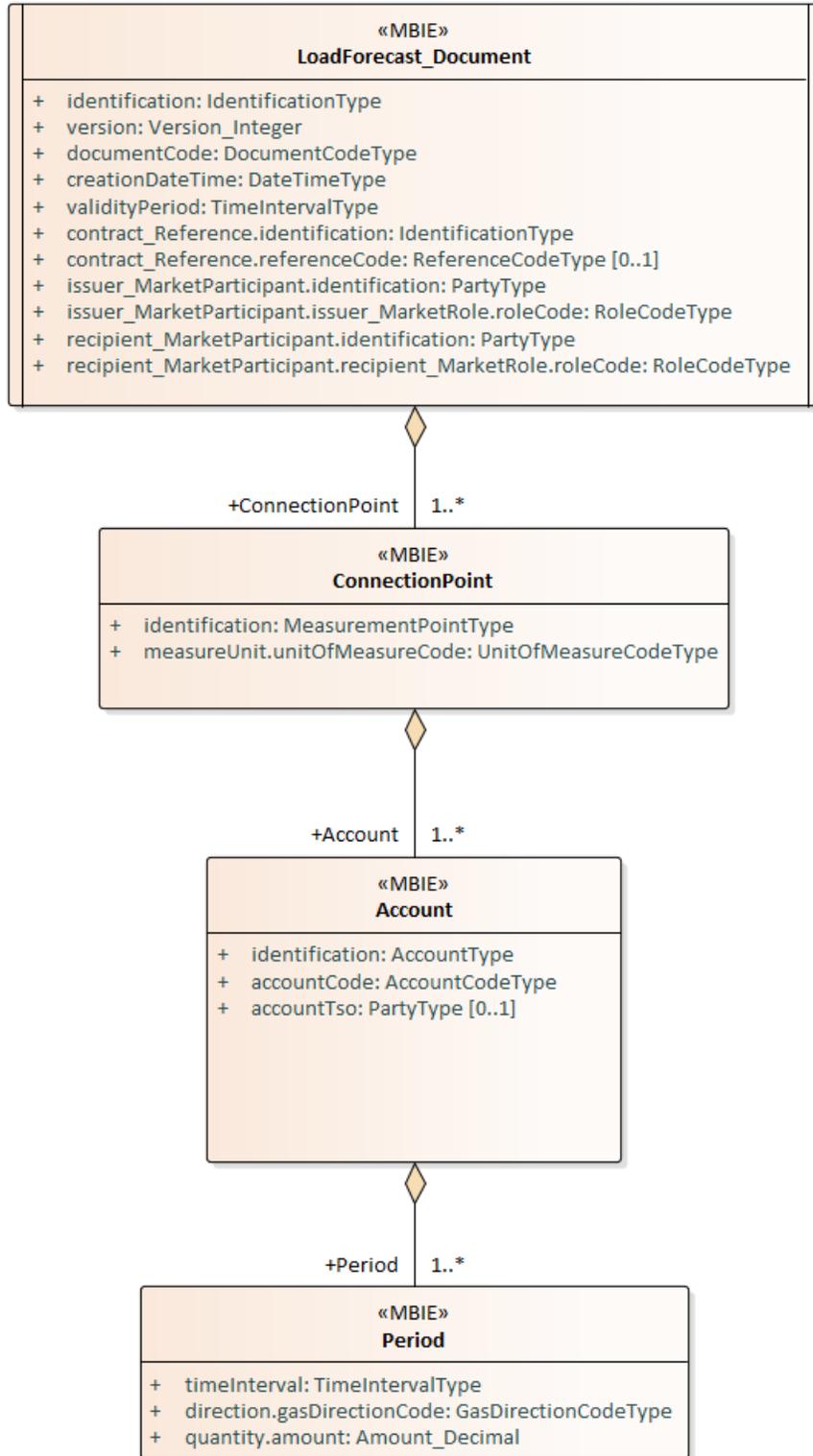


Figure: 4 Load Forecast Document Assembly Model

110
111
112

113 **3.2.2.1 LoadForecast_Document**

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

115 **3.2.2.1.1 Attributes**

Attribute	Description	Multiplicity
identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	
version	Version of the document being sent. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	
documentCode	Coded representation of the type of the electronic document. (Refer to the Edig@s DocumentCodeTypeCodeList for the list of valid codes).	
creationDateTime	Date and time of the creation of the current document expressed in UTC.	
validityPeriod	The start and end date and time expressed in UTC of the period of validity covered in the document.	
contract_Reference.identification	The coded identification of a reference.	
contract_Reference.referenceCode	Identification of a type of reference. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).	[0..1]
issuer_MarketParticipant.identification	The identification of the party participating in the market.	
issuer_MarketParticipant.issuer_MarketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes)	
recipient_MarketParticipant.identification	The identification of the party participating in the market.	
recipient_MarketParticipant.recipient_MarketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes)	

116 **3.2.2.2 ConnectionPoint**

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

119 **3.2.2.2.1 Attributes**

Attribute	Description	Multiplicity
identification	The identification of a connection point.	
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	

120 **3.2.2.3 Account**

121 An account used in a transaction.

122 **3.2.2.3.1 Attributes**

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

123 **3.2.2.4 Period**

124 The period that the dependent information is for.

125 **3.2.2.4.1 Attributes**

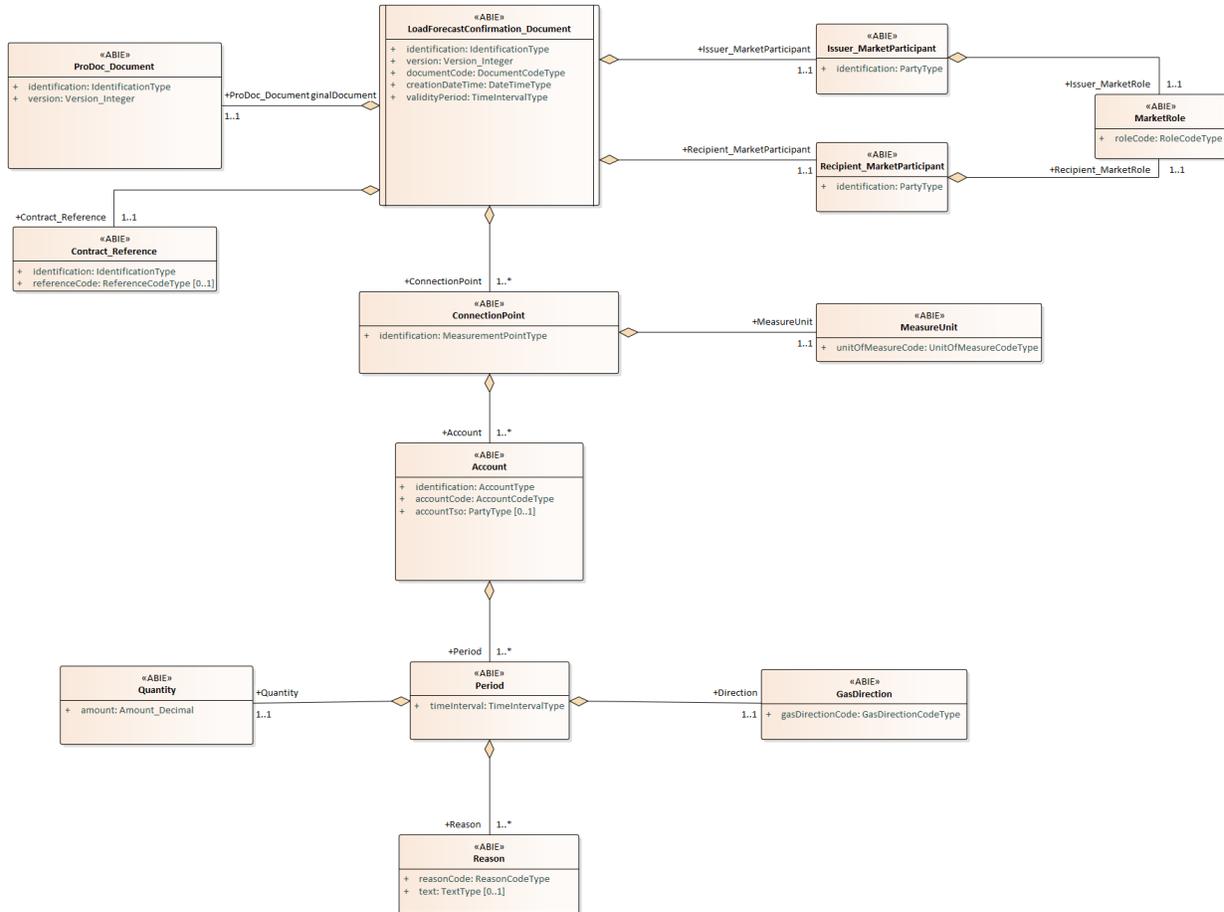
Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
direction.gasDirectionCode	A code identifying the direction of a gas flow. (Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).	
quantity.amount	The amount of a quantity.	

126
127

128 3.3 Load Forecast Confirmation Document (PROCON)

129 3.3.1 Load Forecast Confirmation Document Contextual Model

130



131
132
133

Figure: 5 Load Forecast Confirmation Document Contextual Model

134 **3.3.2 Load Forecast Confirmation Document Assembly Model**
135

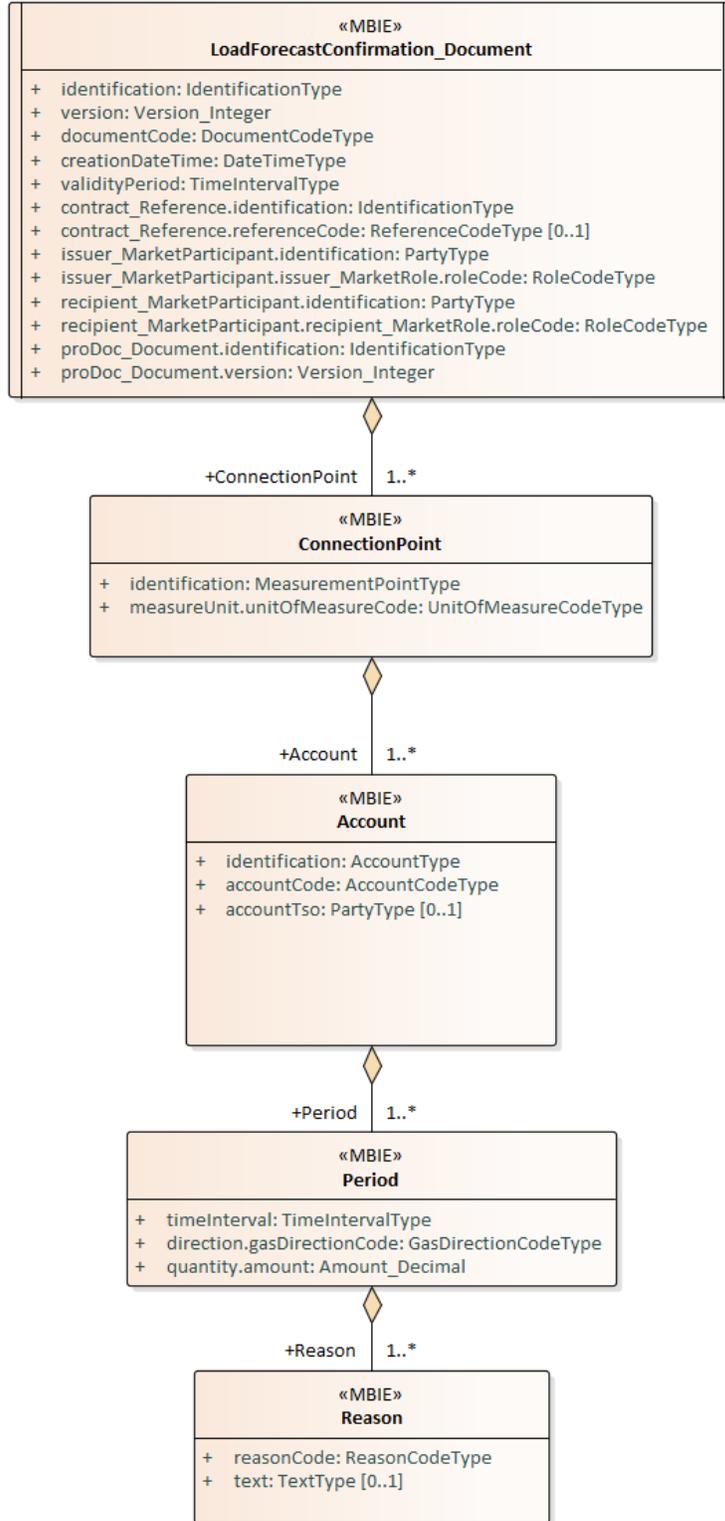


Figure: 6 **Load Forecast Confirmation Document Assembly Model**

136
137

138 **3.3.2.1 LoadForecastConfirmation_Document**

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

140 **3.3.2.1.1 Attributes**

Attribute	Description	Multiplicity
identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	
version	Version of the document being sent. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	
documentCode	Coded representation of the type of the electronic document. (Refer to the Edig@s DocumentCodeTypeCodeList for the list of valid codes).	
creationDateTime	Date and time of the creation of the current document expressed in UTC.	
validityPeriod	The start and end date and time expressed in UTC of the period of validity covered in the document.	
contract_Reference.identification	The coded identification of a reference.	
contract_Reference.referenceCode	Identification of a type of reference. (Refer to the Edig@s ReferenceCodeTypeCodeList for the list of valid codes).	[0..1]
issuer_MarketParticipant.identification	The identification of the party participating in the market.	
issuer_MarketParticipant.issuer_MarketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes)	
recipient_MarketParticipant.identification	The identification of the party participating in the market.	
recipient_MarketParticipant.recipient_MarketRole.roleCode	A code identifying the role played by a market participant in the market. (Refer to Edig@s RoleCodeTypeCodeList for the list of valid codes)	
proDoc_Document.identification	A unique identification of a document that is assigned by the issuer. This identifies the document being reported.	
proDoc_Document.version	Version of the document being sent. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.	

141

142 **3.3.2.2 ConnectionPoint**

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

145 **3.3.2.2.1 Attributes**

Attribute	Description	Multiplicity
identification	The identification of a connection point.	
measureUnit.unitOfMeasureCode	The coded representation of a unit of measure using the UN/CEFACT Recommendation 20 common codes. (Refer to the Edig@s UnitOfMeasureCodeTypeCodeList for the list of valid codes).	

146 **3.3.2.3 Account**

147 An account used in a transaction.

148 **3.3.2.3.1 Attributes**

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

149 **3.3.2.4 Period**

150 The period that the dependent information is for.

151 **3.3.2.4.1 Attributes**

Attribute	Description	Multiplicity
timeInterval	The start and end date and time for the period. The time is expressed in UTC.	
direction.gasDirectionCode	A code identifying the direction of a gas flow. (Refer to the Edig@s GasDirectionCodeTypeCodeList for the list of valid codes).	
quantity.amount	The amount of a quantity.	

152 **3.3.2.5 Reason**

153 The motivation of an act.

154 **3.3.2.5.1 Attributes**

Attribute	Description	Multiplicity
reasonCode	The motivation of an act in coded form. (Refer to the Edig@s ReasonCodeTypeCodeList for the list of valid codes).	
text	The textual explanation corresponding to the reason code.	[0..1]

155
 156

157 4 Document Change Log

158 4.1 Version

159 4.1.1 Attributes

Attribute	Description	Multiplicity
Version 1 - 2021-10-18	Release 6.1	
Version 2 – 2023-09-26	Updated decision table for connectionPoint and Account identification with codingScheme information	

160