



European Network of
Transmission System Operators
for Electricity

PAN EUROPEAN VERIFICATION FUNCTION

IMPLEMENTATION GUIDE

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19 they are used.

- 20 • SHALL: This word, or the terms "REQUIRED" or "MUST", means that the definition is
21 an absolute requirement of the specification.
- 22 • SHALL NOT: This phrase, or the phrase "MUST NOT", means that the definition is an
23 absolute prohibition of the specification.
- 24 • SHOULD: This word, or the adjective "RECOMMENDED", means that there may exist
25 valid reasons in particular circumstances to ignore a particular item, but the full
26 implications shall be understood and carefully weighed before choosing a different
27 course.
- 28 • SHOULD NOT: This phrase, or the phrase "NOT RECOMMENDED", means that there
29 may exist valid reasons in particular circumstances when the particular behaviour is
30 acceptable or even useful, but the full implications should be understood and the case
31 carefully weighed before implementing any behaviour described with this label.
- 32 • MAY: This word, or the adjective "OPTIONAL", means that an item is truly optional. One
33 vendor may choose to include the item because a particular marketplace requires it or
34 because the vendor feels that it enhances the product while another vendor may omit
35 the same item. An implementation which does not include a particular option SHALL be
36 prepared to interoperate with another implementation which does include the option,
37 though perhaps with reduced functionality. In the same vein an implementation which
38 does include a particular option SHALL be prepared to interoperate with another
39 implementation which does not include the option (except, of course, for the feature the
40 option provides.).

Revision History

Version	Release	Date	Comments
01	00	2018-04-11	Document approved by SOC
01	01	2021-12-01	Added 'Netted area position' to Terms and Definition as well as in the Business Description Support of business type B64 and B65 in Reporting Information and Reporting Status Market Document. Approved by SOC.

42	CONTENTS		
43	Copyright notice:.....		2
44	Revision History.....		3
45	CONTENTS		4
46	INTRODUCTION.....		6
47	Scope		6
48	Normative references.....		6
49	Terms and definitions		7
50	The PEVF schedule reporting business process		8
51	4.1	Schedule reporting process sequence.....	8
52	4.2	Scheduling approach of HVDC links	10
53	4.3	Business rules for the PEVF schedule reporting process.....	11
54	4.3.1	General rules.....	11
55	4.3.2	Dependencies governing the Reporting_MarketDocument	11
56	4.3.3	Dependencies governing the Reporting Information Market	
57		Document	14
58	4.3.4	Dependencies governing the Reporting Status Market	
59		Document	17
60	4.3.5	Generic rules and dependencies for the Status Request	
61		Market Document	18
62			

63 **List of figures**

64	Figure 1 – Schedule reporting process sequence diagram A	8
65	Figure 2 - Schedule reporting process sequence diagram B	9
66	Figure 3 – Schedule reporting process sequence diagram C	9
67	Figure 4 - Schedule reporting process sequence diagram D.....	10
68		

69 **List of tables**

70	Table 1 – Aggregated netted external schedule dependency table	12
71	Table 2 – Reporting information market document dependency table	14
72	Table 3 – Reporting status market document dependency table	17
73	Table 4 – Mandatory attributes of Status request market document	18
74	Table 5 – Status request market document dependency table	19
75		

76

INTRODUCTION

77 **Scope**

78 The Pan-European Verification function (PEVF) provides necessary input data for the creation
79 of coherent Common Grid Models for both the Day Ahead and Intraday processes. The function
80 shall receive scheduled exchanges at the relevant time instances per scheduling area or per
81 scheduling area border and per HVDC system linking scheduling areas for each synchronous
82 area and its interconnectors. This scheduling information shall be provided to the ENTSO-E
83 Operational Planning Data Environment (OPDE), so as to form a common view on the expected
84 grid situation for a particular point in time.

85 This implementation guide focuses on providing all reporting process sequences to and from
86 the PEVF as well as the business rules of the scheduling reporting process. The Pan-European
87 Verification function business context, the Acknowledgement and the Status Request business
88 processes, as well as the UML model and schema of each document, which is used in this
89 implementation guide, are described in separate Documents, which are explicitly stated under
90 the following chapter.

91 **Normative references**

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

96 ▪ Acknowledgement business process:

97 *IEC 62325-451-1, Framework for energy market communications – Part 451-1:*
98 *Acknowledgement business process and contextual model for CIM European market*

99 ▪ Status request business process:

100 *IEC 62325-451-5, Framework for energy market communications – Part 451-5: Status*
101 *request business process and contextual model for CIM European market*

102 ▪ UML model and schema:

103 *The ENTSO-E RG CE Schedule Reporting Process – Implementation Guide, Version 2.0*

104 *The ENTSO-E Reporting Information Document UML Model and Schema, Version 1.0*

105 ▪ Pan-European Verification function business context:

106 *The Pan European Verification Function for system operations – Requirements*
107 *Specification”*

108 **Terms and definitions**

109

110 **3.1**

111 **Aggregated netted external schedule**

112 A schedule representing the netted aggregation of all external TSO schedules and external
113 commercial trade schedules between two scheduling areas or between a scheduling area and
114 a regional group of other scheduling areas.

115 **3.2**

116 **Aggregated netted external market schedule**

117 A schedule representing the netted aggregation of all external commercial trade schedules
118 between two scheduling areas or between a scheduling area and a regional group of other
119 scheduling areas; (replaces "summarized market schedules").

120 **3.3**

121 **Aggregated netted external TSO schedule**

122 A schedule representing the netted aggregation of all external TSO schedules between two
123 scheduling areas or between a scheduling area and a regional group of other scheduling areas;
124 (replaces "timeframe independent schedules").

125 **3.4**

126 **Domain**

127 A delimited area that is uniquely identified for a specific purpose and where energy
128 consumption, production or trade may be determined.

129 **3.5**

130 **External commercial trade schedule**

131 A schedule representing the commercial exchange of electricity between Market Participants in
132 different scheduling areas. (replaces "market based cross border exchange schedules")

133 **3.6**

134 **External TSO schedule**

135 A schedule representing the exchange of electricity of TSOs between different scheduling
136 areas.

137 **3.7**

138 **HVDC line**

139 High Voltage Direct Current line

140 **3.8**

141 **Net position**

142 The netted sum of electricity exports and imports for each market time period for a given
143 geographical area (for example, the result of a market coupling process).

144 **3.9**

145 **Netted area AC position**

146 The netted aggregation of all AC external schedules of an area. (replaces "control program").

147 **3.10**

148 **Netted area position**

149 The netted aggregation of all AC external schedules of an area plus the aggregated External
150 Netted Schedules of related HVDC links (synchronous area internal and external) of an area.

151 **3.11**

152 **OPDE**

153 Operational Planning Data Environment

154 **3.12**

155 **PEVF**

156 Pan-European Verification function

157 **3.13**
158 **Schedule**
159 A reference set of values representing the generation, consumption or exchange of electricity
160 between actors for a given time period.

161 **3.14**
162 **Scheduling area**
163 An area within which the TSOs obligations regarding scheduling apply due to operational or
164 organizational needs.

165 **3.15**
166 **Synchronous area**
167 An area covered by interconnected TSOs with a common system frequency in a steady-state
168 such as the synchronous areas continental Europe (CE), Great Britain (GB), Ireland (IE) and
169 Northern Europe (NE).

170 The PEVF schedule reporting business process

171 4.1 Schedule reporting process sequence

172 The following diagrams outline the data as well as the respective format, in which they shall
173 be delivered to and from the PEVF:



174

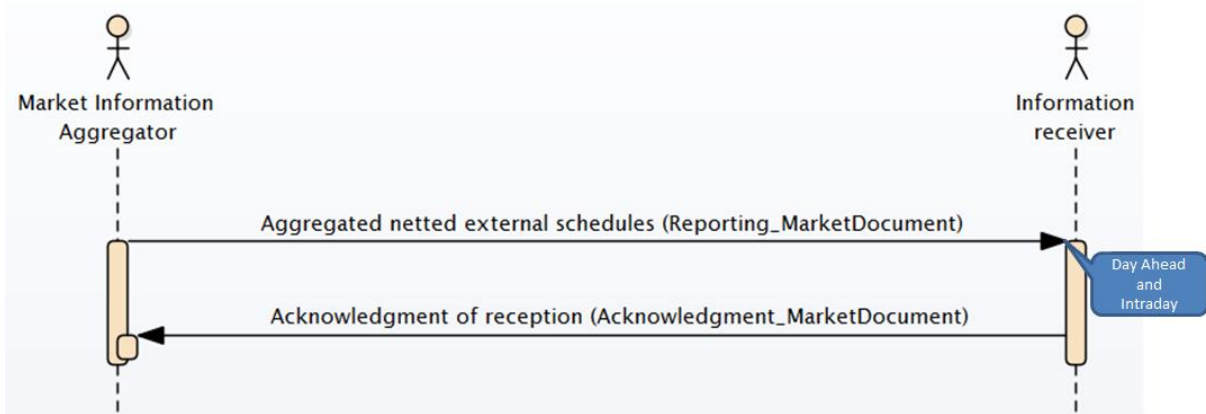
175 **Figure 1 – Schedule reporting process sequence diagram A**

176 According to Figure 1, all regional scheduling coordination functions/systems shall send a single
177 Reporting Information Market Document per synchronous area and timeframe (Day Ahead and
178 Intraday) to the PEVF. This document shall contain pre-verified synchronous area internal
179 scheduling data and more precisely:

- 180
- The netted area AC positions for all scheduling areas within the synchronous area unless the synchronous area consists only of a single scheduling area.
- 181
- The aggregated netted external schedule for each boundary point of a HVDC link within the synchronous area.
- 182
183

184 Additionally, the aggregated netted external schedules for each boundary point of a HVDC link,
185 which connect the “sending” synchronous area with other synchronous areas and do not need
186 to be verified by the PEVF shall also be included in the Reporting Information Market Document.
187 (e.g.: A HVDC synchronous area interconnector does not need to be verified by the PEVF, when
188 both scheduling areas in the two synchronous areas are operated by a single TSO).

189 Furthermore, each regional scheduling coordination function/system may include in the
190 Reporting Information Market Document the aggregated netted external schedules per
191 scheduling area border within the synchronous area.



192

193

Figure 2 - Schedule reporting process sequence diagram B

194 According to Figure 2, all regional scheduling coordination functions/systems shall send to the
 195 PEVF a Reporting Market Document for each boundary point of a synchronous area
 196 interconnector (HVDC link) that needs to be verified by the PEVF. One time series provides the
 197 input to the area and the other provides the output from the area. The PEVF will accept single
 198 sided nominated schedules for synchronous area interconnectors (HVDC link), where bilaterally
 199 agreed by the involved parties.

200 For each reporting market and reporting information market document sent, the PEVF shall
 201 issue an acknowledgement document either accepting the whole document received or rejecting
 202 it completely.

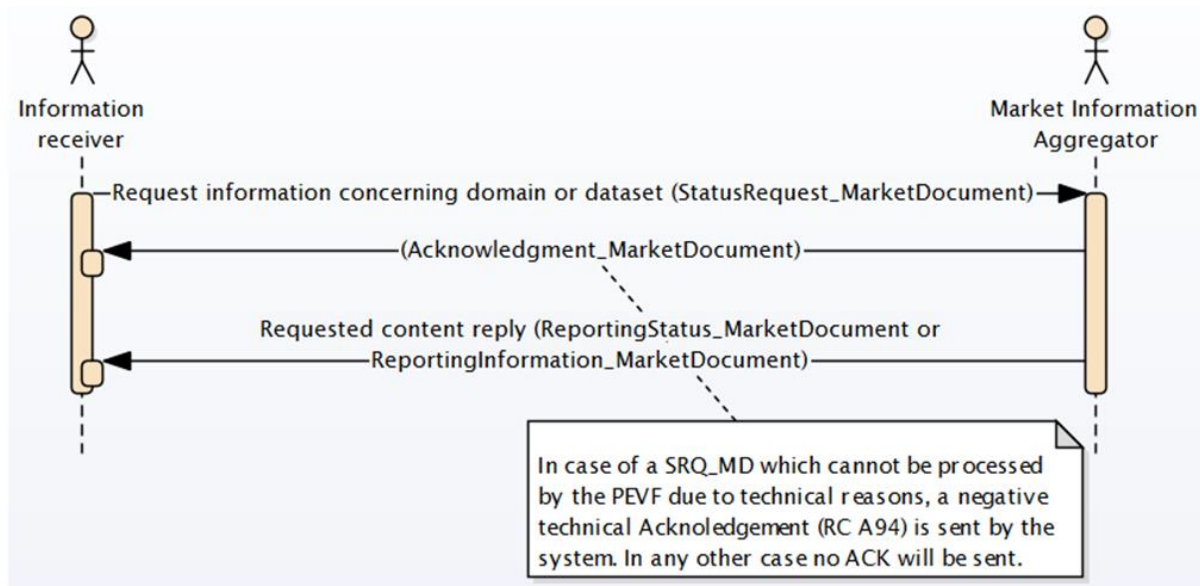


203

204

Figure 3 – Schedule reporting process sequence diagram C

205 Once the PEVF is in possession of all the aforementioned data, it performs the required
 206 verifications and provides OPDE with the relevant information. According to Figure 3, the PEVF
 207 shall send for each timestamp of an energy delivery day for both Day Ahead and Intraday
 208 processes in a Reporting Information Market Document for each Scheduling Area the “netted
 209 area AC position” and the “netted area position” as well as the “aggregated netted external
 210 schedule” for each boundary point of each HVDC link to OPDE. An acknowledgement document
 211 either accepting or rejecting the whole document received is issued.



212

213

Figure 4 - Schedule reporting process sequence diagram D

214 The fourth sequence diagram (Figure 4) deals with the request for scheduling information
215 concerning a domain or a pre-defined dataset and the reply from the PEVF. Such a request
216 shall be provided by the use of a Status Request Market Document.

217 An information receiver can be:

- 218 • a regional scheduling coordination function/system
- 219 • OPDE

220 A status request may identify for a given time interval and process type:

- 221 • A domain and optionally a referenced date/time and business type.
- 222 • A dataset and optionally a referenced date/time, .

223 The PEVF shall provide the information relative to the domain or dataset for the designated
224 time interval as available at the referenced date/time, if available. The requests will always be
225 satisfied by the PEVF with the provision of a reporting status market document or a reporting
226 information market document depending on the requested Document type, containing one or all
227 of the following:

- 228 • Aggregated netted external schedules.
- 229 • Netted area AC position.

230 The requested time interval must always be a single whole calendar day in the CET/CEST time
231 zone.

232 4.2 Scheduling approach of HVDC links

233 From a network modelling perspective, there are three types of modelling for the HVDC
234 interconnectors:

- 235 1. Simplified HVDC model
- 236 2. Explicit detailed HVDC model
- 237 3. Embedded detailed HVDC model

238 The detailed description of these models can be found in the latest version of the document:
239 "Implementation Guide for CGM network modelling and CGMES exchanges". However, from a

240 scheduling point of view, the two following cases can be distinguished. In neither of these cases
241 the losses of the HVDC link are scheduled separately.

242 The HVDC link is represented in the “Simplified HVDC model” and in the “Explicit detailed HVDC
243 model” as a scheduling area. Such a scheduling area does not belong to a synchronous area
244 and need to be configured separately in the PEVF. The losses in these two modelling
245 approaches are considered in the scheduling process, but not separately. Precisely, the
246 aggregated netted external schedules for each boundary point of an HVDC link, sending and
247 receiving end are nominated with a granularity of boundary points. The full amount of energy
248 shall be reported in the exchange from the “sending” scheduling area to the scheduling area
249 representing the HVDC link, while the amount of energy taking into account the losses shall be
250 reported in the exchange from the scheduling area representing the HVDC link to the “receiving”
251 scheduling area. Verification of the schedules from the PEVF can be performed if both TSOs
252 and the scheduling agent of the HVDC operator provide schedules for both the sending and
253 receiving end or one TSO is responsible for providing schedules for the cross border exchanges
254 of the three scheduling areas. Schedules can be provided by one TSO on behalf of the related
255 TSOs, in case this mandate has been made explicitly.

256 For those HVDC links, which are modelled based on the third modelling approach (“Embedded
257 detailed HVDC model”), the HVDC link is treated as an AC link from a scheduling point of view.
258 Losses are not considered at all in the scheduling process and consequently no additional
259 scheduling area is necessary. Verification of the schedules can be performed by the PEVF
260 either if both TSOs send the schedules for the cross border exchange by the HVDC
261 interconnector or if one TSO provides the schedules on behalf of both TSOs. This mandate in
262 the latter case has to be made explicitly.

263 The details of the modelling arrangements for each HVDC link in the various synchronous areas
264 can be found in the latest version of the document: “Implementation Guide for CGM network
265 modelling and CGMES exchanges”.

266 **4.3 Business rules for the PEVF schedule reporting process**

267 **4.3.1 General rules**

268 For each electronic data interchange defined in this document, an acknowledgement document,
269 as defined in IEC 62325-451-1, should be generated either accepting the whole received
270 document (with the exception of the status request market document that does not require it,
271 since the reply is made with the document containing the requested content) or rejecting it
272 completely.

273 The reporting market document shall contain 2 time series per scheduling area border. DC-links
274 will be reported using additional “path”-information. One time series provides the input to the
275 area and the other provides the output from the area.

276 The reporting status market document shall contain 4 time series per scheduling area border.
277 Two time series assigned to the first of the involved TSOs and two additional time series
278 assigned to the second involved TSO. DC-links and controllable AC-links will be reported
279 separately using additional “path”-information.

280 The reporting information market document shall contain 2 time series per domain. DC-links
281 and controllable AC-links will be reported separately using additional “path”-information.

282 Duplicated documents shall be answered with the same acknowledgement market document as
283 their originals. If the documents differ but have the same mRID and version, a technical
284 acknowledgement market document (ReasonCode A94) shall be sent.

285

286 **4.3.2 Dependencies governing the Reporting_MarketDocument**

287 The reporting market document is used by the regional scheduling coordination
288 functions/systems to provide to PEVF the aggregated netted external schedules for the

289 synchronous area interconnectors (HVDC links). The dependencies are listed in the following
290 paragraphs.

291 **Table 1 – Aggregated netted external schedule dependency table**

	Day ahead	Intraday
Reporting_MarketDocument		
type	B26 = Aggregated netted external schedule document	
process.processType	A01 = Day ahead	A18 = Total intraday
sender_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	
receiver_MarketParticipant.marketRole.type	A33 = Information receiver	
domain.mRID / codingScheme	A scheduling area border identified with an EIC Y code. codingScheme = A01	
subject_Domain.mRID / codingScheme	A scheduling area of the originator of the market schedule identified with an EIC Y code. This identification shall be found in either the in_Domain.mRID or the out_Domain.mRID of the time series. codingScheme = A01	
TimeSeries		
businessType	B63 Aggregated netted external schedule	
product	8716867000016 = Active Power.	
in_Domain.mRID / codingScheme	A scheduling area where the product is being delivered identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
out_Domain.mRID / codingScheme	A scheduling area where the product is being extracted identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
connectingLine_RegisteredResource.mRID	codingScheme = A01 (EIC-T)	
quantity_Measure_Unit.name	MAW	
curveType	A01 or A03 = Variable block	
Series_Period		
resolution	PT1H, PT60M, PT15M or PT1M	

292

293 Table 1 provides the dependencies for the aggregated netted external schedules.

294 There shall be a reporting market document for each boundary point of a synchronous area
295 interconnector (HVDC link) per process (Day Ahead and Intraday). The document shall always
296 contain all HVDC links, which connect the “sending” synchronous area with other synchronous
297 areas. The scheduling area border is identified in the domain.mRID attribute. The scheduling
298 area that is the subject of the document is defined in the subject_Domain.mRID attribute.

299 Reporting market documents providing schedules for HVDC links, which are modelled according
300 the first and second modelling approaches (simplified and explicit detailed models) shall provide
301 a single reporting market document containing all scheduling area borders of the scheduling
302 area representing the HVDC link. This scheduling area is identified in the domain.mRID attribute
303 and the subject_Domain.mRID attribute.

304 Two reporting market documents will be provided per sender per scheduling day:

- 305
- 306
- 307
- 308
- 309
- 310
- One document containing the day ahead values (required in order to provide the day ahead situation for the scheduling day). This shall have a unique document identification and a process type of “Day ahead” (A01). Any evolutions to this schedule shall be carried out through the creation of a new version. The new version will replace the previous version. A day ahead document is required for every border even if there are no market nominations for this border.
- 311
- One document containing the Intraday values. This will have a unique document identification and shall have a process type of «Intraday Total» (A18). This shall include the updated values of the values already provided in the Day ahead document. The Time_Period.timeInterval and the timeInterval_DateTimeInteval shall always cover the complete period. Any evolutions to this schedule shall be carried out through the creation of a new version. The new version will replace the previous version.
- 312
- 313
- 314
- 315
- 316
- 317
- 318

319 **4.3.3 Dependencies governing the Reporting Information Market Document**

320 The reporting information market document is used to provide pre-verified scheduling data to
321 and from the PEVF. The dependencies are listed in the following paragraphs.

322 **Table 2 – Reporting information market document dependency table**

	Day Ahead	Intraday
ReportingInformation_MarketDocument		
type	B19 = Reporting information market document	
process.processType	A01 = Day ahead	A18 = Total intraday
sender_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	
receiver_MarketParticipant.marketRole.type	A33 = Information receiver	
domain.mRID	A scheduling area representing the regional group identified with an EIC Y code. codingScheme = A01.	
time_Period.timeInterval	This information provides the start and end date and time of the period covered by the document.	
Doc_Status	The identification of the condition or position of the document with regard to its standing. A document may be intermediate or final. A01 = Intermediate A02 = Final	
TimeSeries		
businessType	B63 = Aggregated netted external schedule B64 = Netted area AC position B65 = Netted area position	
product	8716867000016 = Active Power.	
in_Domain.mRID / codingScheme	An area where the product is being delivered. Identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
out_Domain.mRID / codingScheme	An area where the product is being extracted. Identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
connectingLine_RegisteredResource.mRID	Required if DC link or controllable AC link codingScheme = A01 (EIC-T)	
quantity_Measure_Unit.name	MAW = Mega watts	
curveType	A01 or A03 = Variable block	
Series_Period		
resolution	PT1H, PT60M, PT15M or PT1M	
Reason		
code	This information may be provided at three levels. At the header level to indicate if no information to a status request is available. The following code shall be used: B08 = Data not yet available. At the Time series level to provide the following information: B30 = Data unverified B31 = Data verified A26 = Default Time Series applied A30 = Imposed Time Series from nominated party's Time Series A54 = Global position not in balance	

323 The regional coordination functions shall provide to PEVF a single reporting information market
324 document per synchronous area per process. The synchronous area is identified in the
325 domain.mRID attribute. The quality flags of this document are ignored by the PEVF. In case a
326 regional coordination function/system cannot compile a consistent set of scheduling data for
327 the region, no data is sent to the PEVF.

328 For each synchronous area the set of schedules shall be published on the OPDE, using a
329 Reporting Information Market Document per timeframe. This document consists both the netted
330 area AC positions and /or aggregated netted external schedules per scheduling area border for
331 each scheduling area in the synchronous area as well as all the aggregated netted external
332 schedules for each boundary point of each HVDC interconnector and all quality flags. In any
333 case PEVF shall always deliver a full data set to the OPDE system. Missing or not validated
334 scheduling data is flagged with the respective reason codes.

335 Two reporting information market documents will be provided per sender per scheduling day:

- 336 • One document containing the day ahead values (required in order to provide the day
337 ahead situation for the scheduling day). This shall have a unique document identification
338 and a process type of “Day ahead” (A01). Any evolutions to this schedule shall be
339 carried out through the creation of a new version. The new version will replace the
340 previous version.
- 341 • One document containing the Intraday values. This will have a unique document
342 identification and shall have a process type of «Intraday Total» (A18). This shall include
343 the updated values of the values already provided in the Day ahead document. The
344 Time_Period.timeInterval and the timeInterval_DateTimeInterval shall always cover the
345 complete period. Any evolutions to this schedule shall be carried out through the
346 creation of a new version. The new version will replace the previous version.

347 The detailed description of the reason codes is provided below:

- 348 • Data unverified: Missing or not validated data.
- 349 • Data verified: Schedules nominated from the related parties of a synchronous area
350 HVDC interconnector are compared. If the values are the same the corresponding
351 Reason Code will be set to “Verified”. In addition, a checksum is performed for the netted
352 area AC positions of Continental Europe and the Nordic area for all market time units.
353 If the values do add up to zero, the Reason Code is set to “Verified” for all values of the
354 corresponding Market Time Unit. Finally, the Reason Code is also set to “Verified” for
355 the netted area AC positions of the Baltic Area, for the aggregated netted external
356 schedules within Continental Europe and the Nordic area and for the single nominated
357 aggregated netted external schedules for all values of the corresponding Market Time
358 Unit.
- 359 • Default Time Series applied: If the Time Series received from the related parties of a
360 synchronous area HVDC interconnector do not correspond, the lower value (per
361 direction) of the two will be applied to both and the Reason Code will be set to “Default
362 Time Series applied” for the updated Time Series. In case of opposite directions, both
363 values will be set to zero and the Reason Code will be set to “Default Time Series
364 applied” for both Time Series.
- 365 • Imposed Time series from nominated party's time series: The PEVF applies substitution
366 for missing data by default where possible. On the PEVF level this is only meaningful
367 for the HVDC links between the synchronous area. Within the synchronous area the
368 substitution shall be done on the synchronous level. For the Day Ahead time horizon,
369 this means that in case of a bilateral set of schedules and data from one side is missing,
370 it shall be substituted with scheduling data from the other scheduling area (counterpart
371 schedule). In case of Intraday, the last valid schedule is used.
- 372 • Global position not in balance: For the netted area AC positions of the Synchronous
373 Areas of Continental Europe and Nordic, it will be verified that the checksum is zero for

374 all timestamps. If this is not the case the Reason Code will be set to “Global position
375 not in balance” for all individual scheduling areas within the affected synchronous area.

376 **4.3.4 Dependencies governing the Reporting Status Market Document**

377 **Table 3 – Reporting status market document dependency table**

	Day Ahead	Intraday
ReportingStatus_MarketDocument		
type	B18 = Reporting status market document	
process.processType	A01 = Day ahead	A18 = Total intraday
sender_MarketParticipant.marketRole.type	A32 = Market Information Aggregator	
receiver_MarketParticipant.marketRole.type	A33 = Information receiver	
domain.mRID	A scheduling area representing the regional group identified with an EIC Y code. codingScheme = A01.	
time_Period.timeInterval	This information provides the start and end date and time of the period covered by the document.	
TimeSeries		
businessType	B63 = Aggregated netted external schedule B64 = Netted area AC position B65 = Netted area position	
product	8716867000016 = Active Power.	
in_Domain.mRID / codingScheme	An area where the product is being delivered. Identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
out_Domain.mRID / codingScheme	An area where the product is being extracted. Identified with an EIC Y code. Either the in_Domain.mRID or the out_Domain.mRID must match the subject_Domain.mRID. codingScheme = A01.	
connectingLine_RegisteredResource.mRID	Required if DC link or controllable AC link codingScheme = A01 (EIC-T)	
quantity_Measure_Unit.name	MAW = Mega watts	
curveType	A01 or A03 = Variable block	
Series_Period		
resolution	PT1H, PT60M, PT15M or PT1M	
Reason		
code	<p>This information may be provided at three levels.</p> <p>At the header level to indicate if no information to a status request is available. The following code shall be used: B08 = Data not yet available.</p> <p>At the Time series level to provide the following information: A28 = Counterpart time series missing A29 = Counterpart time series quantity differences B30 = Data unverified B31 = Data verified</p> <p>At the Point level to provide information on a given quantity. The following codes shall be used: A43 = Quantity increased A44 = Quantity decreased Other reason codes according to ENTSO-E code list</p>	

378

379 **4.3.5 Generic rules and dependencies for the Status Request Market Document**

380 The Status Request Market Document is specified in IEC 62325 – 451-5. In this specification
381 the attributes described in Table 4 are mandatory.

382 **Table 4 – Mandatory attributes of Status request market document**

Attribute name / Attribute type	Description
mRID	The unique identification of the document being exchanged within a business process flow.
type	The coded type of a document. The document type describes the principal characteristic of the document. A59 = status request for a status within a process (status request for a reporting status market document) B20 = status request for reporting information market document
sender_MarketParticipant.mRID	The identification of a party in the energy market. --- Document owner.
sender_MarketParticipant.marketRole.type	The identification of the role played by a market player. --- Document owner. --- The role associated with a MarketParticipant.
receiver_MarketParticipant.mRID	The identification of a party in the energy market. --- Document recipient.
receiver_MarketParticipant.marketRole.type	The identification of the role played by a market player. --- Document recipient. --- The role associated with a MarketParticipant.
createdDateTime	The date and time of the creation of the document.

383

384 Table 5 provides the dependencies for the status request market document relevant for the
385 reporting process.

386 The attribute instance component defines the nature of the request through the use of two
387 attributes:

- 388 • “attribute” that contains a keyword identifying the name of an attribute that is used to
389 identify what is being specified. In the context of the reporting process the following
390 attributes shall be used: “type”, “domain.mRID”, “processType”, “dataset.mRID”,
391 “referenced.dateTime” and/or “businessType”.
- 392 • “attributeValue” that provides the content of the specified attribute. It is a string value
393 that represents a copy of the element tag of the electronic document for which the status
394 is being requested.

395 Table 5 – Status request market document dependency table

	Document type	Domain status request	Requested time interval	Dataset status request	referenced date	ProcessType	BusinessType
	AttributeInstanceComponent						
attribute	The attribute value shall equal "type"	The attribute value shall equal "domain.mRID"	The attribute value shall equal "requested_Period.timeInterval"	The attribute value shall equal "dataset.mRID"	The attribute value shall equal "referenced.dateTime"	The attribute value shall equal "ProcessType"	The attribute value shall equal "BusinessType"
attributeValue	<p>The identification of the type that is covered in the reporting information market document. It shall correspond to one of the following:</p> <p>A59 = status information B20 = Reporting information</p> <p>The status information shall provide information about the result of the verification process on a scheduling area border. (4 time series per domain).</p> <p>The reporting information shall provide information about the scheduling data based on "positively verified" schedules. (2 time series per domain)</p>	<p>The identification of the domain that is covered in the status request document. Depending on the reporting context it will correspond to one of the following:</p> <ul style="list-style-type: none"> • A Scheduling area; • A Scheduling area border; • A Synchronous area. <p>The identification shall be an EIC Y code.</p> <p>This name shall not be provided if a dataset identification is present.</p> <p>This name shall be provided if a dataset identification is not present.</p>	<p>The identification of the period that is to be covered in the reply, for example a given schedule day.</p> <p>The time interval is mandatory.</p> <p>The requested Time interval must always be a single whole calendar day in the CET/CEST time zone. The time interval shall conform to the following pattern: YYYY-MM-DDThh:mmZ/ YYYY-MM-DDThh:mmZ</p>	<p>The identification of an individually predefined data set in a data base system.</p> <p>The identification shall be up to 35 alphanumeric characters.</p> <p>This name shall not be provided if a domain is present.</p> <p>This name shall be provided if a domain is not present</p>	<p>The point of time for which the data is requested from the data base system.</p> <p>The date and time shall conform to the following pattern: YYYY-MM-DDThh:mm:ssZ</p> <p>This name shall only be provided if required.</p>	<p>A01 = Provide Day ahead values only. A18 = Provide latest available verified data based on day ahead and intraday</p>	<p>Not present if a dataset identification is present. Mandatory if an identification of a domain is present</p> <p>B63 = Aggregated netted external schedule B64 = Netted area AC position B65 = Netted area position</p>