



European Network of
Transmission System Operators
for Electricity

RESOURCE CAPACITY REGISTRY TOOL IMPLEMENTATION GUIDE

2020-12-15

APPROVED DOCUMENT
VERSION 1.0

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

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22 absolute requirement of the specification.
- 23 • **SHALL NOT:** This phrase, or the phrase "MUST NOT", means that the definition is an
24 absolute prohibition of the specification.
- 25 • **SHOULD:** This word, or the adjective "RECOMMENDED", means that there may exist valid
26 reasons in particular circumstances to ignore a particular item, but the full implications must
27 be understood and carefully weighed before choosing a different course.
- 28 • **SHOULD NOT:** This phrase, or the phrase "NOT RECOMMENDED", means that there may
29 exist valid reasons in particular circumstances when the particular behaviour is acceptable
30 or even useful, but the full implications should be understood and the case carefully weighed
31 before implementing any behaviour described with this label.
- 32 • **MAY:** This word, or the adjective "OPTIONAL", means that an item is truly optional.

Revision History

Version	Release	Date	Paragraph	Comments
0	1	2020-09-16		First draft of the Resource Capacity Registry Tool Implementation guide.
0	2	2020-11-25		Comments from CIM EG were considered.
1	0	2020-12-15		Approved by MC.

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93 1 Scope

94 The objective of the resource capacity registry tool implementation guide is to make it possible
95 for software vendors to develop an IT application for TSOs and other parties that allow them to
96 exchange information for the resource capacity registry tool process.

97 The implementation guide is one of the building blocks for using UML (Unified Modelling
98 Language) based techniques in defining processes and messages for interchange between
99 actors in the electrical industry in Europe.

100 This guide provides a standard for enabling a uniform layout for exchanging resource capacity
101 mechanism unit data between different parties and the resource capacity registry tool. The
102 implementation guide is developed for the harmonisation of the underlying data exchange
103 process. The implementation guide refers to information models based on the European style
104 market profile (ESMP), IEC 62325-351. In particular, the IEC 62325-450 methodology was
105 applied to develop the contextual and assembly models

106 2 References

107 2.1 Normative references

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

112 • [IEC 62325-301:2018, Framework for energy market communications – Part 301:
113 Common information model \(CIM\) extensions for markets;](#)

114 • [IEC 62325-351:2016, Framework for energy market communications – Part 351: CIM
115 European market model exchange profile;](#)

116 • [IEC 62325-450:2013, Framework for energy market communications – Part 450: Profile
117 and context modelling rules;](#)

118 • [IEC 62325-451-1:2017, Framework for energy market communications – Part 451-1:
119 Acknowledgement business process and contextual model for CIM European market;](#)

120 • [IEC 62325-451-5, Framework for energy market communications - Part 451-5: Problem
121 statement and status request business processes, contextual and assembly models for
122 European market;](#)

123

124 2.2 Other references

125 • [The Harmonised Electricity Market Role Model \(HRM\);](#)

126 • [Article 26 of the Regulation \(EU\) 2019/943 of the European Parliament and of Council
127 of 5 June 2019 on the internal market for electricity.](#)

128 • Business requirements specification of the Capacity Registry Tool process approved by
129 ENTSO-E Market Committee on July 10th, 2020

130

131 **3 Terms and definitions**

132 **Delivery Period** means the period set in the CM Contract during which the resource capacity
133 obligation applies. [source: BRS]

134 **Eligibility** means the compliance with technical performance as required by the resource
135 capacity mechanism in which the RCMU (resource provider) intends to participate. [source:
136 BRS]

137 **Eligibility period** means the period for which certain RCMU hold eligibility for specific CM.
138 [source: BRS]

139 **Foreign Capacity** means a resource capacity located in a Member State different from the
140 Member State applying the resource capacity mechanism. [source: BRS]

141 **Market Information Aggregator (MIA)** means a party that provides market related information
142 that has been compiled from the figures supplied by different actors in the market. This
143 information may also be published or distributed for general use. [source: HRM]

144 **Maximum Entry Capacity** means the maximum allowed foreign resource capacity (expressed
145 in MW) considered between two Member States that can participate in a resource capacity
146 mechanism during a certain Delivery Period. [source: BRS]

147 **Measurement Point** a location within the grid, a piece of equipment or an installation where
148 measurement of the flow of electricity is performed. The flow related to this measurement point
149 will be used to calculate the resource capacity delivered by the RCMU. The RCMU can be
150 assigned with multiple measurement points. [source: RCRT PG]

151 **Member State (MS)** is a state that is a member of the European Union. [source: BRS]

152 **Party administrator** means a party responsible for maintaining party characteristics for the
153 energy sector. [source: HRM]

154 **Primary market** is where RCMU resource entry capacity or resource capacity obligation is
155 determined for the first time. [source: RCRT PG]

156 **Registry User** means a person having access to the Registry. [source: BRS]

157 **Resource Capacity Market Unit (RCMU)** is the single unit or group of aggregated units used
158 by the resource provider to fulfil its capacity commitment and upon which availability is checked.
159 [source: BRS, defined as Capacity Market Unit (RCMU)]

160 **Resource Capacity Mechanism (RCM)** means a temporary measure to ensure the
161 achievement of the necessary level of resource adequacy by remunerating resources for their
162 availability, excluding measures relating to ancillary services or congestion management.
163 [source: BRS, defined as capacity mechanism]

164 **Resource Capacity Mechanism Operator (RCMO)** is the party responsible to operate the
165 resource capacity mechanism in a member state. It can either be the TSO or an independent
166 party. [source: ESMP SG. In BRS is known as Capacity Mechanism operator (CMO)]

167 **Resource Capacity Obligation** is resource provider's obligation to guarantee, during delivery
168 periods, readiness to deliver specified electrical power to the system through a resource
169 capacity market unit and to supply specified electrical power to the system during stress
170 periods. [source: RCRT PG, defined as capacity obligation]

171 **Resource Capacity Registry Tool (RCRT)** is a common digital platform that provides free,
172 continuous access for the resource providers and resource capacity mechanism's operators
173 from all Member States. Registry itself is open to all eligible resource providers, the systems
174 implementing resource capacity mechanisms and their transmission system operators, and
175 maintained by ENTSO-E. [source: BRS]

176

177 **Resource Entry Capacity** means the resource capacity, expressed in MW, that can be
178 allocated to eligible foreign resource capacity (RCMU) for participation in a resource capacity
179 mechanism. Its total amount can never exceed the maximum resource entry capacity. [source:
180 BRS, defined as entry capacity]

181 **Resource Provider** means a role that manages a resource and provides
182 production/consumption schedules for it, if required. [source: HRM].

183 **Secondary market** is where RCMU resource entry capacity or resource capacity obligation is
184 traded between two resource providers. [source: RCRT PG]

185 **System Operator (SO)** means a party responsible for operating, ensuring the maintenance of
186 and, if necessary, developing the system in a given area and, where applicable, its
187 interconnections with other systems, and for ensuring the long-term ability of the system to
188 meet reasonable demands for the distribution or transmission of electricity. [source: HRM]

189

190 **4 The Resource Capacity Registry Tool Business Process**

191
192 Resource capacity registry tool design is based on Methodologies for cross-border participation
193 in resource capacity mechanisms, common rules and terms of reference in accordance with
194 Article 26 of the Regulation (EU) 2019/943 of the European Parliament and of the Council of 5
195 June 2019 on the internal market for electricity.

196 Following processes are enabled by resource capacity registry tool, followed by respective e-
197 mail notifications:

- 198 • Basic RCMU registration
- 199 • RCMU eligibility confirmation
- 200 • RCMU allocated entry capacity submission
- 201 • RCMU capacity obligation submission
- 202 • RCMU data retrieval from resource capacity registry tool database
- 203 • Maximum resource entry capacity announcement
- 204 • Report generation for ACER and NRAs
- 205 • System stress event announcement
- 206 • RCMU data management

207
208 Management of data stored within resource capacity registry database can be performed either
209 via resource capacity registry tool GUI or by uploading relevant XML files. Either way, data
210 transfer is handled by data flow gateway where appropriate technical validation takes place
211 prior to business validation inside resource capacity registry tool itself.

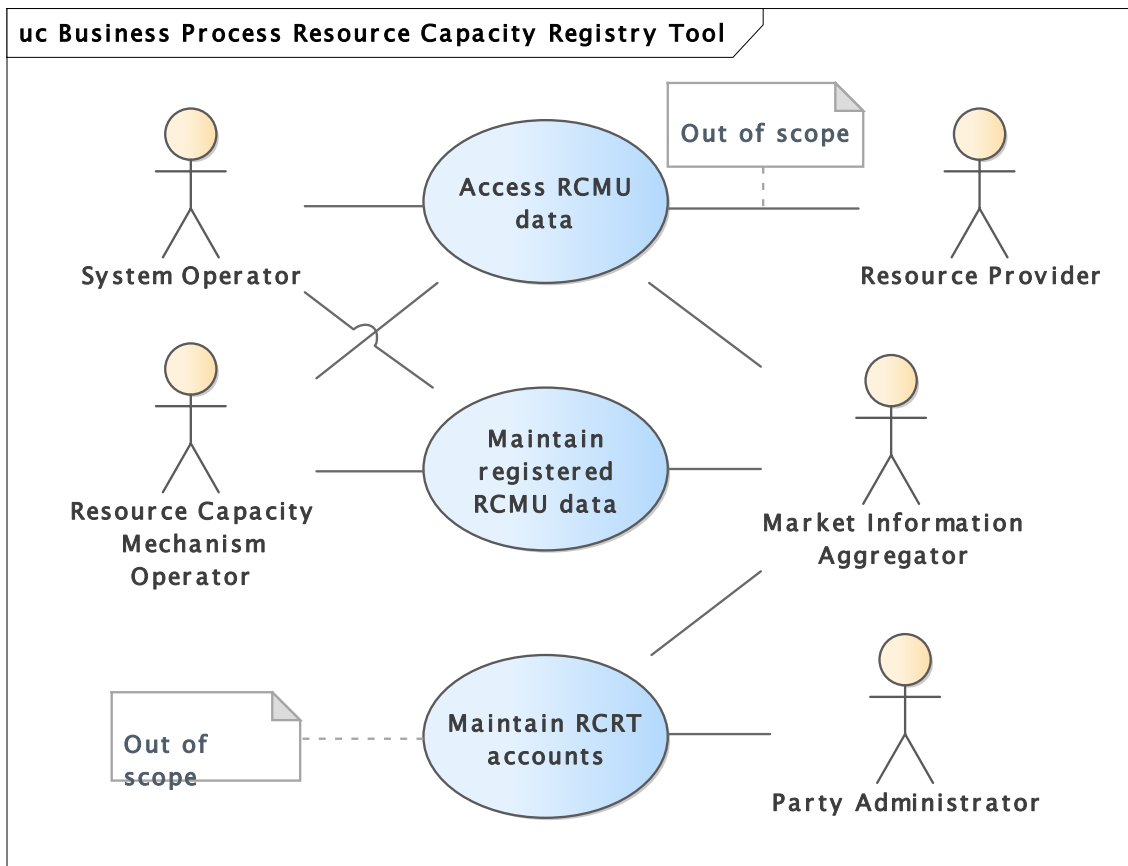
212
213 Active registry users are TSOs, RCMOs and administrators (ENTSO-E), while resource provider
214 has passive role and is able to see its own data only.

215

216

217 4.1 Use cases

218



219

Figure 1 - Use Case diagram

220

221

222 Table 1 gives a list of roles involved in the Resource Capacity Registry business process.

223

224

Table 1 - Role labels and descriptions

Role Label	Role Description
System Operator (SO)	Within this business process, SO is in charge of registering RCMU data in the registry. Apart from that he is able to access and retrieve RCMU data from the registry. This role is performed by the TSO.
Resource Capacity Mechanism Operator (RCMO)	Within this business process, RCMO accesses and retrieves RCMU data from the registry. RCMO in whose the RCMU intends to participate has to review the application and may also ask for additional requirements RCMO in whose the RCMU intends to participate has to enter the RCM for which the RCMU is eligible to participate along with its eligibility period. Finally, RCMO that is applying foreign resource capacity submits resource capacity obligations and delivery periods for each RCM. The role is performed by the CMO.
Market Information Aggregator (MIA)	MIA stores and administrates all the RCMU information. It also maintains the user accounts. This role is performed by the RCRT .
Party Administrator	The party administrator is responsible for the maintenance of the accounts of the resource capacity registry tool. (Out of scope)
Resource Provider	Within this business process is responsible for one or several RCMUs for the resource capacity mechanism processes. This role is performed by the resource capacity provider.

225

226

227 Table 2 gives a list of use cases for the Resource Capacity Registry Tool.

228

229

Table 2 – Resource Capacity Registry Tool use cases

Use case label	Roles involved	Action descriptions and assertions
Maintain registered RCMU data	SO, RCMO, MIA	SO requests to the MIA to register the RCMU. The RCMO can request the MIA to add data (allocated entry resource capacity data or resource capacity obligations data) to the registered RCMUs.
Access RCMU data	SO, RCMO, MIA, RP	SO and RCMO can also retrieve RCMU data from MIA. RP can only access data (in view mode) via user interface.
Maintain RCRT accounts	MIA, Party administrator	The RCRTA can request the creation of registry accounts or get the list of registry accounts from the MIA (out of scope of this IG)

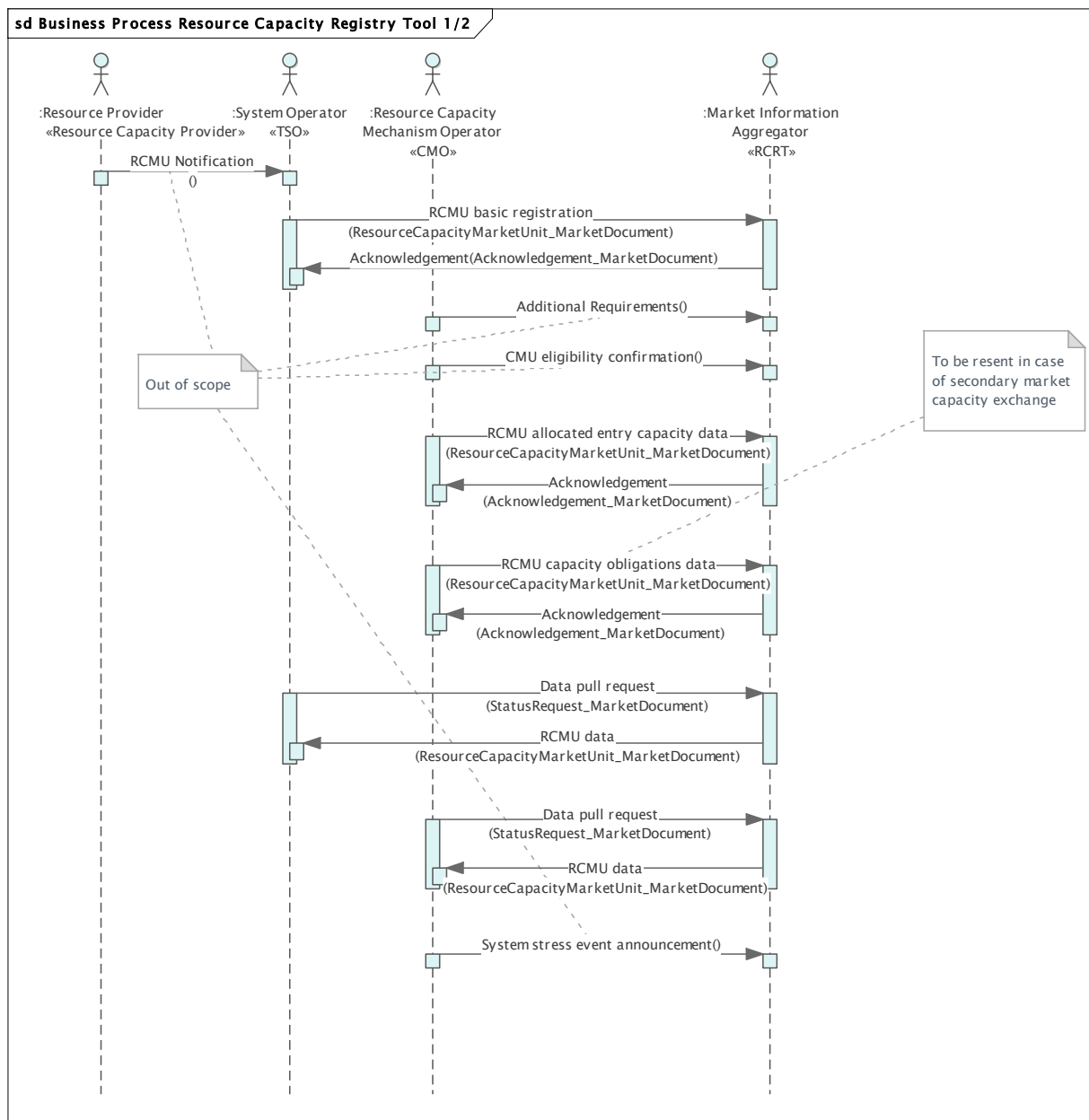
230

231

232 4.2 Document exchange processes

233 4.2.1 General overview of sequence diagram 1/2

234 Next figures show a general sequence diagram of the document exchange processes.



235

236

Figure 2 - Sequence diagram 1/2

237 The use cases 'Access RCMU data' and 'Maintain registered RCMU data' are supported by the
238 following document exchanges:

239 **4.2.1.1 Acknowledgement – Acknowledgement_MarketDocument**

240 All received documents must be acknowledged with an acknowledgment document, IEC 62325-
241 451-1, in a syntactic and business/semantic way by the different parties.

242 **4.2.1.2 RCMU notification – (out of scope)**

243 In order for one of his RCMU to participate in a foreign resource capacity mechanism, the
244 Resource Provider must initiate contact beforehand with the SO responsible of the area within
245 which the RCMU is located. For each RCMU, the Resource Provider must deliver the following
246 data:

- 247 • Unique identifier, preferably EIC-W code of the RCMU.
- 248 • Corporate credentials;
- 249 • Facility address;
- 250 • Resource Capacity and aggregation;
- 251 • Technology type and fuel;
- 252 • Metering points;
- 253 • Network operator defined with EIC-X code;
- 254 • RCMO of Member State where RCMU is located defined with EIC-X code;
- 255 • CO2 emission limits information as referred to Regulation (EU) 2019/943 Article 22(4).

256 Additionally, following information must be included in registration request:

- 257 • List of XB Member States in whose RCMs RCMU wants to participate in.

258 Along with RCMU data, Resource Provider shall deliver its own data containing:

- 259 • EIC-X code;
- 260 • Full company name;
- 261 • Main notification email.

262 The concerned SO will then check that all the necessary data have been received and are
263 correct. If not, it will inform the Resource Provider through the Main Notification Email. Main
264 notification email is email to which capacity provider will receive notifications if it didn't request
265 any account creation in the past. This is especially important in case RCMUs of resource
266 capacity provider are registered for the first time

267 If everything is correct, the SO will perform the RCMU basic registration

268

269 **4.2.1.3 RCMU Basic Registration– ResourceCapacityMarketUnit_MarketDocument**

270 After he received and checked all necessary data send by the Resource Provider, the SO will
271 forward them to the resource capacity registry tool to perform the RCMU basic registration
272 thanks to the ResourceCapacityMarketUnit_MarketDocument (or manually via Registry web UI).

273 The RCRT will then perform technical and business validation, evaluating if the RCMU basic
274 registration is correct. A notification e-mail will then be sent to the Resource Provider and the
275 RCMO in whose the RCMU intend to participate with the result.

276

277 **4.2.1.4 RCMU eligibility confirmation (Out of scope)**

278 The RCMO in whose the RCMU intends to participate has to review the application and may
279 also ask for additional requirements.

280

281 If additional requirements are necessary, a notification with additional requirements will be sent
282 to check responsible party. This responsible party has to perform specific CMU data validation
283 against requirements set by RCMO in whose RCMU wants to participate in, in order to grant
284 eligibility for RCMU. This party can be resource provider, SO where CMU is located or RCMO
285 where CMU is located. Afterwards check responsible party must send additional requirements
286 verification results back to RCRT.

287

292 Once the verification have been performed by the RCMO, the RCRT is updated by the SO or
293 RCMO and a notification email is sent to the RCMO who asked for the additional requirement.
294

295 In any case, the RCMO in whose the RCMU intends to participate then has to enter the RCM
296 for which the RCMU is eligible to participate along with its eligibility period. Following this, a
297 notification email is send to all subscribed parties.

298

299 **4.2.1.5 RCMU allocated entry capacity data –**
300 **ResourceCapacityMarketUnit_MarketDocument**

301 Allocated resource entry capacity market activities are out of the Registry scope.
302

303 Once the process of allocating resource entry capacity for foreign resource capacity is closed
304 and allocated resource entry capacity per each RCMU is determined, RCMO that is applying
305 foreign resource capacity submits allocated resource entry capacity for each RCM type per
306 each RCMU that gained entry capacity after the closure of entry capacity allocation process
307 using the ResourceCapacityMarketUnit_MarketDocument (or manually via the Registry web UI).
308

309 Technical and business check are performed by the RCRT prior to the sending of an ACK with
310 the result of validation.

311

312 **4.2.1.6 RCMU capacity obligations data –**
313 **ResourceCapacityMarketUnit_MarketDocument**

314 All market activities regarding resource capacity obligations are out of the Registry scope.
315

316 Once auction for foreign resource capacity is closed and resource capacity obligations with
317 delivery periods per each RCMU are determined, RCMO that is applying foreign resource
318 capacity submits resource capacity obligations and delivery periods for each RCM type per
319 each RCMU that gained obligation after the market closure using the
320 ResourceCapacityMarketUnit_MarketDocument (or manually via the Registry web UI)
321

322 Technical and business check are performed by the RCRT prior to the sending of an ACK with
323 the result of validation

324

325

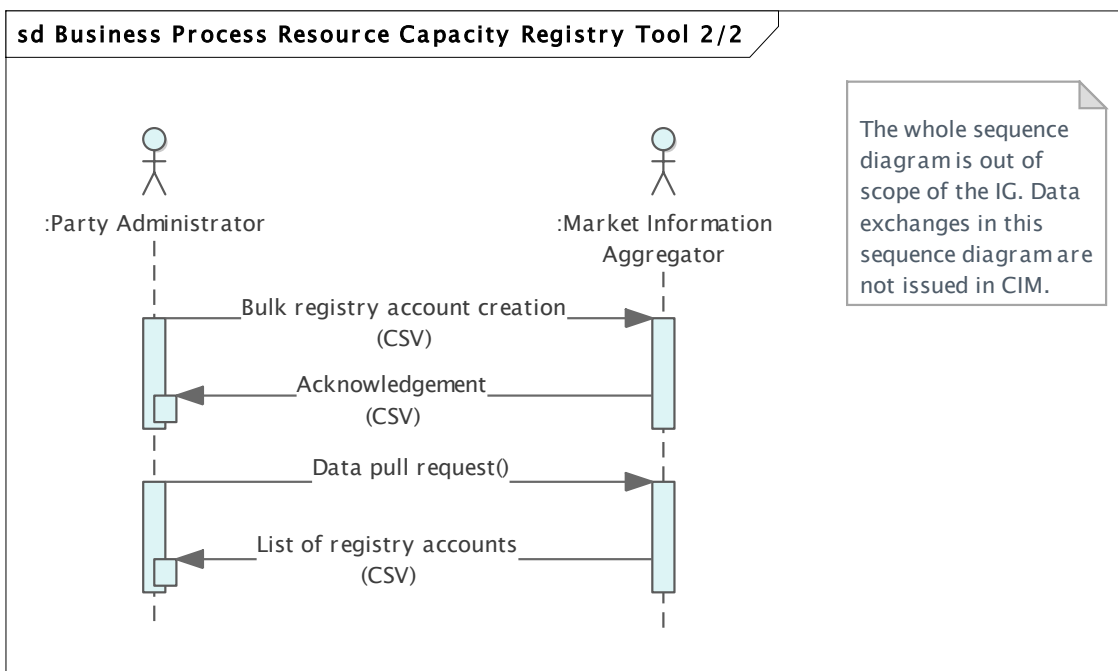
326 **4.2.1.7 Data pull request – StatusRequest_MarketDocument**

327 A Status Request Document contains a list of key-value pairs. Each key-value pair consists of
328 the fields attribute and attributeValue. These pairs of attribute and attributeValue will capture
329 the selection criteria for the registered RCMU data.

330

331

332 **4.2.2 General overview of sequence diagram 2/2 (Out of scope)**



333

Figure 3 - Sequence diagram 2/2

334

335

336 In order to perform simultaneous creation of multiple new resource capacity registry tool
337 accounts, Party Administrator shall be able to fill respective CSV file containing details of
338 account necessary to create new account.

339 Once uploaded, CSV file is validated, and result of validation is sent in form of acknowledgment.

340 If validation was successful, new accounts will be created in resource capacity registry tool .

341 Party Administrator shall also have an option to retrieve all existing accounts from resource

342 capacity registry tool by sending appropriate pull request. List of accounts is also provided in

343 CSV format. All data exchanges in the sequence diagram above are out of scope because they
344 are not issued in CIM.

345

346 **4.3 Documents overview**

347 The document exchange processes of resource capacity registry tool described in the previous
348 chapter require sending and receiving various ESMP documents. The information to be
349 exchanged is:

- 350 • Acknowledgement_MarketDocument v8.1 based on IEC 62325-451-1:2017 Ed2;
- 351 • ResourceCapacityMarketUnit_MarketDocument v1.0;
- 352 • StatusRequest_MarketDocument v4.0 based on IEC 62325-451-5:2015;

353
354 **4.4 ResourceCapacityMarketUnit_MarketDocument**

355 Following table shows a description of the different attributes in
356 ResourceCapacityMarketUnit_MarketDocument v1.0 to be used in this business process and
357 the XSD requirements for each one of them.

358
359 Note: RCMUs are identified with an EIC-W Production Unit function. Production units are
360 identified with EIC-W Production Unit function. In the case, of consumption units, they are
361 identified with EIC-W Load function. National codes are allowed for both production and
362 consumption units
363 EIC-Z codes or national codes can be used to identify the metering points of the Resource
364 Capacity Mechanism Units and the Units.
365

366 **4.4.1 ResourceCapacityMarketUnit_MarketDocument Dependency Table**

367 **Table 3 - ResourceCapacityMarketUnit_MarketDocument Dependency Table**

ResourceCapacityMarketUnit_MarketDocument				
Class	Attribute	RCMUs basic registration	RCMU allocated entry capacity data	RCMU capacity obligations data
ResourceCapacityMarketUnit_MarketDocument	mRID	Used		
	revisionNumber	Used		
	type	B46: Resource capacity unit document		
	process.processType	A62: Registration		
	sender_MarketParticipant.mRID	Used		
	sender_MarketParticipant.marketRole.type	A04: System Operator	A51: Resource Capacity Mechanism Operator	A51: Resource Capacity Mechanism Operator
	receiver_MarketParticipant.mRID	Used (EIC-V code of the RCRT)		
	receiver_MarketParticipant.marketRole.type	A32: Market information Aggregator	A32: Market information Aggregator	A32: Market information Aggregator
	createdDateTime	Used		
	time_Period.timeInterval	Used (Time interval covered by the whole market document)		
	docstatus	Not used		
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C52: Resource entry capacity data	C53: Resource capacity

				obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Optional RCMU facility address, in case it exists.	Not used	Not used
	meteringPoint_AggregateNode.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Not used
	networkOperator_MarketParticipant.mRID	EIC-X code of the Grid operator in which RCMU is located Coding Scheme: A01	Not used	Not used

	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO operator in which RCMU is located Coding Scheme: A01	Not used	Not used
	memberState_MarketParticipant.mRID	EIC-Y code of the member state in which the RCMU intends to participate (One timeseries per member state)	EIC-Y code of the member state	EIC-Y code of the member state
	lastVerification_DateAndOrTime.dateTime	Not used	Not used	Not used
	marketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	capacityMechanism_MarketProductType	Not used	Not used	Optional A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	measurement_Unit.name	Not used	Used MAW: Megawatt (Allocated entry capacity measurement)	Used MAW: Megawatt (Volume of capacity obligation measurement)
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used
Unit_RegisteredResource	mRID	EIC-W code of the unit or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
	resourceCapacity.maximumCapacity	Used	Not used	Not used
	resourceCapacity.unitSymbol	MAW: Megawatt	Not used	Not used
	pSRType.psrType	B01: Biomass	Not used	Not used

		<p>B02: Fossil Brown coal/Lignite B03: Fossil Coal-derived gas B04: Fossil gas B05: Fossil Hard coal B06: Fossil Oil B07: Fossil Oil shale B08: Fossil Peat B09: Geothermal B10: Hydro Pumped Storage B11: Hydro Run-of-river and pondage B12: Hydro water Reservoir B13: Marine B14: Nuclear B15: Other renewable B16: Solar B17: Waste B18: Wind Offshore B19: Wind onshore B20: Other B25: Energy storage B26: Demand Side Response</p>		
	street_Location.name	Mandatory Street where unit is located	Not used	Not used
	streetNumber_Location.name	Mandatory Street number where unit is located	Not used	Not used
	city_Location.name	Mandatory City where unit is located	Not used	Not used
	postalCode_Location.name	Mandatory Postal code where unit is located	Not used	Not used
	country_Location.name	Mandatory Country where unit is located	Not used	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Mandatory in case that GPS coordinates are provided A03: WGS84	Not used	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Mandatory in case that GPS coordinates are provided Latitude	Not used	Not used

	gPS_Location.g PS_PositionPoin ts.yPosition	Optional in case that GPS coordinates are provided Longitude	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.zPosition	Mandatory in case that GPS coordinates are provided Altitude	Not used	Not used
	meteringPoint_A ggregateNode.m RID (Linked to Unit_Registered Resource)	EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
Measurements (Analog)	measurementType	A23: CO2 emission	Not used	Not used
	unitSymbol	GKH: grams per kilowatt hour	Not used	Not used
	analogValues.value	Used (0 in case of no CO2 emission)	Not used	Not used
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period (One value for the whole delivery period)	Delivery Period (One value for the whole delivery period)
Point	position	Not used	Used	Used
	quantity	Not used	Allocated entry capacity	Volume of capacity

368
369
370

371

372 **4.5 StatusRequest_MarketDocument**

373 Following table shows a description of the different attributes in
374 StatusRequest_MarketDocument v1.0 to be used in this business process and the XSD
375 requirements for each one of them.

376 **4.5.1 StatusRequest_MarketDocument Dependency Table**

377 **Table 4 - StatusRequest_MarketDocument Dependency Table**

StatusRequest_MarketDocument		
Class	Attribute	Values
StatusRequest_MarketDocument	mRID	Used
	type	A59: Information request
	sender_MarketParticipant.mRID	Used
	sender_MarketParticipant.marketRole.type	A04: System Operator A51: Resource Capacity Mechanism Operator
	receiver_MarketParticipant.mRID	Used
	receiver_MarketParticipant.marketRole.type	A32: Market information Aggregator
	createdDate	Used

378

379 **4.5.2 AttributeInstanceComponent queries**

380 General Notes:

- 381 • Only one option is allowed per request
- 382 • In case of retrieving n RCMUs information, you should include n instances of
383 AttributeInstanceComponent including the n
384 ResourceCapacityMarketUnit_RegisteredResource.mRID. If user wants all RCMU,
385 then user has to put a star (*)
386 ResourceCapacityMarketUnit_RegisteredResource.mRID instance.
- 387 • history_period attribute is used to obtain RCMU results from the registry in a
388 determined time interval. The time interval is composed of two date times (begin and
389 end) linked with a low bar. The date time has to be issued in ISO 8601 format and in
390 UTC. Expected time interval should look like this: YYYY-MM-
391 DDThh:mm:ss.sssZ_YYYY-MM-DDThh:mm:ss.sssZ (To the left of low bar we have the
392 begin date and to the right the end date)
- 393 • As national codes are also allowed to identify RCMUs, we need to include Coding
394 Scheme to distinguish between EIC or national codes. For that reason, together with
395 the RCMU ID, user has to submit the coding scheme. RCMU ID and coding scheme
396 will be sent together and separated by a semicolon. E.G. 14W-GJO-KW-TU1-Q;A01
397

398

399 **4.5.2.1 RCMU registration details**

400 This query returns the RCMU registration details except allocated entry capacity, eligibility and
401 capacity obligations.

402

403 **Table 5 – RCMU registration details request**

attribute	option
attributeValue	RCMU_registration_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

404
405

406

407 **4.5.2.2 RCMU market details**

408 This query returns the RCMU allocated entry capacity, eligibility and capacity obligations.

409

410 **Table 6 – RCMU market details query**

attribute	option
attributeValue	RCMU_market_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

411

412 **4.5.2.3 RCMU registration and market details**

413 This query returns the RCMU registration details, the allocated entry capacity, eligibility and capacity obligations.

414

415

416

Table 7 – RCMU registration and market details query

attribute	option
attributeValue	RCMU_registration_market_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

417

418 **4.5.2.4 RCMU corporate credentials**

419 This query returns the RCMU corporate credentials.

420

421

Table 8 – RCMU corporate credentials

attribute	option
attributeValue	RCMU_cooperate_credentials
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

422

423 **4.5.2.5 RCMU facility address**

424 This query returns the RCMU facility address.

425

426 **Table 9 – RCMU facility address**

attribute	option
attributeValue	RCMU_facility_address
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

427

428 **4.5.2.6 RCMU aggregated capacity**

429 This query returns the RCMU aggregated maximum capacity.

430

431 **Table 10 – RCMU aggregated capacity**

attribute	option
attributeValue	RCMU_aggregated_capacity
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

432

433 **4.5.2.7 RCMU grid operator**

434 This query returns the RCMU grid operator.

435

436 **Table 11 – RCMU grid operator**

attribute	option
attributeValue	RCMU_grid_operator
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

437

438

439 **4.5.2.8 RCMO where RCMU is located**

440 This query returns the RCMO where RCMU is located.

441
442

Table 12 – RCMO where RCMU is located

attribute	option
attributeValue	RCMU_RCMO
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

443

444 **4.5.2.9 RCMU CO2 emission**

445 This query returns the CO2 emission per unit in the RCMU.

446

447

Table 13 – RCMU CO2 emission

attribute	option
attributeValue	RCMU_CO2
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

448

449 **4.5.2.10 RCMU Technology Types**

450 This query returns the technology per unit in the RCMU.

451

452

Table 14 – RCMU Technology Types

attribute	option
attributeValue	RCMU_technology_types
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

453

454

455 **4.5.2.11 RCMU Eligibility periods**

456 This query returns the RCMU eligibility periods.

457

458 **Table 15 – RCMU eligibility periods**

attribute	option
attributeValue	RCMU_eligibility_periods
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state (Only used in case we want to filter per member state)
attribute	eligibility_Period.timeInterval (Only used in case we want to filter the eligibility period)
attributeValue	Time Interval of the Eligibility Period (Only used in case we want to filter the eligibility period)
attribute	marketParticipation_MarketObjectStatus.status (Only used in case we want to filter market participation status)
attributeValue	A61: Primary market A62: Secondary market
attribute	capacityMechanism_MarketProduct.marketProductType (Only used in case we want to filter capacity mechanism type)
attributeValue	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

459

460 **4.5.2.12 RCMU allocated entry capacities**

461 This query returns the RCMU allocated entry capacities.

462

463 **Table 16 – RCMU allocated entry capacities**

attribute	option
attributeValue	RCMU_entry_capacities
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state (Only used in case we want to filter per member state)
attribute	Delivery_Period.timeInterval (Only used in case we want to filter the eligibility period)
attributeValue	Time Interval of the Delivery Period (Only used in case we want to filter the eligibility period)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved.

	(Only used in case we want to filter data for a determined period)
--	--

464

465 **4.5.2.13 RCMU capacity obligations**

466 This query returns the RCMU capacity obligations.

467

468 **Table 17 – RCMU capacity obligations**

attribute	option
attributeValue	RCMU_capacity_obligations
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state (Only used in case we want to filter per member state)
attribute	delivery_period (Only used in case we want to filter delivery period)
attributeValue	Delivery period time interval (Only used in case we want to filter delivery period)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

469

470

471 **4.6 Responses to status requests**

472 Following table shows a description of the responses to the different requests detailed in the
473 previous chapter. ResourceCapacityMarketUnit_MarketDocument will be used to provide the
474 requested data for all the different cases.

475 **4.6.1 ResourceCapacityMarketUnit_MarketDocument Dependency Table**

476 The dependency table below for ResourceCapacityMarketUnit_MarketDocument class will be
477 used for all the responses to the different requests.

Class	Attribute	Values
ResourceCapacityMarketUnit_MarketDocument	mRID	Used
	revisionNumber	Used
	type	B46: Resource capacity unit document
	process.processType	A62: Registration
	sender_MarketParticipant.mRID	Used
	sender_MarketParticipant.marketRole.type	A32: Market information Aggregator
	receiver_MarketParticipant.mRID	Used
	receiver_MarketParticipant.marketRole.type	A04: System Operator A51: Resource Capacity Mechanism Operator
	createdDateTime	Used
	time_Period.timeInterval	Used
	docstatus	Not used

478
479

480 **4.6.2 RCMU Timeseries Dependency Table 1/4**

481 The dependency table below shows the different combinations for RCMU registration details,
482 RCMU market details and RCMU registration and market details.

483 **Table 18 - RCMU Timeseries Dependency Table 1/4**

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit C52: Resource entry capacity data C53: Resource capacity obligation data	C51: Resource capacity unit C52: Resource entry capacity data C53: Resource capacity obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used
	meteringPoint_AggregateNode.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme (Only for businessType code C51)

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	EIC-X code of the Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Name of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Address of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Phone of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Email of Resource Provider (Only for businessType code C51)
	networkOperator_MarketParticipant.mRID	EIC-X code of the Grid operator Coding Scheme: A01	Not used	EIC-X code of the Grid operator Coding Scheme: A01 (Only for businessType code C51)
	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO Coding Scheme: A01	Not used	EIC-X code of the RCMO Coding Scheme: A01
	memberState_MarketParticipant.mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	marketParticipation_MarketObject Status.status	Not used	A61: Primary market A62: Secondary market	A61: Primary market A62: Secondary market
	capacityMechanism_MarketProduct.marketProduct Type	Not used	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	measurement_Unit.name	Not used	Used MAW: Megawatt	Used MAW: Megawatt
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Used (Only for businessType code C51)	Used (Only for businessType code C51)
Unit_RegisteredResource	mRID	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme	Not used	EIC code of the unit. Coding Scheme: A01 (Only for businessType code C51)
	resourceCapacity.maximumCapacity	Used	Not used	Used (Only for businessType code C51)
	resourceCapacity.unitSymbol	MAW: Megawatt	Not used	MAW: Megawatt (Only for businessType code C51)

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	pSRType.psrType	B01: Biomass B02: Fossil Brown coal/Lignite B03: Fossil Coal-derived gas B04: Fossil gas B05: Fossil Hard coal B06: Fossil Oil B07: Fossil Oil shale B08: Fossil Peat B09: Geothermal B10: Hydro Pumped Storage B11: Hydro Run-of-river and pondage B12: Hydro water Reservoir B13: Marine B14: Nuclear B15: Other renewable B16: Solar B17: Waste B18: Wind Offshore B19: Wind onshore B20: Other B25: Energy storage B26: Demand Side Response	Not used	B01: Biomass B02: Fossil Brown coal/Lignite B03: Fossil Coal-derived gas B04: Fossil gas B05: Fossil Hard coal B06: Fossil Oil B07: Fossil Oil shale B08: Fossil Peat B09: Geothermal B10: Hydro Pumped Storage B11: Hydro Run-of-river and pondage B12: Hydro water Reservoir B13: Marine B14: Nuclear B15: Other renewable B16: Solar B17: Waste B18: Wind Offshore B19: Wind onshore B20: Other B25: Energy storage B26: Demand Side Response (Only for businessType code C51)
	street_Location.name	May be used Street where unit is located	Not used	May be used only for businessType code C51 Street where unit is located

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	streetNumber_Location.name	May be used Street number where unit is located	Not used	May be used only for businessType code C51 Street number where unit is located
	city_Location.name	May be used City where unit is located	Not used	May be used only for businessType code C51 City where unit is located
	postalCode_Location.name	May be used Postal code where unit is located	Not used	May be used only for businessType code C51 Postal code where unit is located
	country_Location.name	May be used Country where unit is located	Not used	May be used only for businessType code C51 Country where unit is located
	gPS_Location.gPS_CoordinateSystem.mRID	Mandatory in case that GPS coordinates are provided A03: WGS84	Not used	Mandatory in case that GPS coordinates are provided (only for businessType code C51) A03: WGS84
	gPS_Location.gPS_PositionPoints.xPosition	Mandatory in case that GPS coordinates are provided Latitude	Not used	Mandatory in case that GPS coordinates are provided (only for businessType code C51) GPS coordinates

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	gPS_Location.gPS_PositionPoints.yPosition	Mandatory in case that GPS coordinates are provided Longitude	Not used	Optional in case that GPS coordinates are provided (only for businessType code C51) Additional GPS coordinates description
	gPS_Location.gPS_PositionPoints.zPosition	Mandatory in case that GPS coordinates are provided Altitude	Not used	Mandatory in case that GPS coordinates are provided Altitude (only for businessType code C51)
	meteringPoint_AggregateNode.mRID (Linked to Unit_Registered Resource)	EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme (only for businessType code C51)
Measurements (Analog)	measurementType	A23: CO2 emission	Not used	A23: CO2 emission (Only for businessType code C51)
	unitSymbol	GKH: grams per kilowatt hour	Not used	GKH: grams per kilowatt hour (Only for businessType code C51)

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	analogValues.value	Used (0 in case of no CO2 emission)	Not used	Used (0 in case of no CO2 emission) (Only for businessType code C51)
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period (Only for businessType codes C52 and C53)	Delivery Period (Only for businessType codes C52 and C53)
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

484
485

486 **4.6.3 RCMU Timeseries Dependency Table 2/4**

487 The dependency table below shows the different combinations for RCMU corporate credentials,
488 RCMU facility address and RCMU aggregated capacity.

489 **Table 19 - RCMU Timeseries Dependency Table 2/4**

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit	C51: Resource capacity unit
	product	8716867000016: Active Power		
	curveType	Not used	Not used	Not used
	ResourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	MAW: Megawatt
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Used	Not used
	meteringPoint_AggregateNode.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Used	Not used
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Not used
resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Not used	

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
	networkOperator_MarketParticipant.mRID	Not used	Not used	Not used
	resourceCapacityMechanismOperator_MarketParticipant.mRID	Not used	Not used	Not used
	memberState_MarketParticipant.mRID	Not used	Not used	Not used
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	marketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	capacityMechanism_MarketProduct.marketProductType	Not used	Not used	Not used
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	Used	Not used
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used
	pSRType.psrType	Not used	Not used	Not used
	street_Location.name	Not used	Used Street where unit is located	Not used
	streetNumber_Location.name	Not used	Used Street number where unit is located	Not used
	city_Location.name	Not used	Used City where unit is located	Not used
	postalCode_Location.name	Not used	Used Postal code where unit is located	Not used
	country_Location.name	Not used	Used Country where unit is located	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Used in case that GPS coordinates are provided A03: WGS84	Not used

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Used in case that GPS coordinates are provided Latitude	Not used
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Optional in case that GPS coordinates are provided Longitude	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Used in case that GPS coordinates are provided Altitude	Not used
	meteringPoint_AggregateNode.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurements (Analog)	measurementType	Not used	Not used	Not used
	unitSymbol	Not used	Not used	Not used
	analogValues.value	Not used	Not used	Not used)
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

490

491 **4.6.4 RCMU Timeseries Dependency Table 3/4**

492 The dependency table below shows the different combinations for RCMO where RCMU is
493 located, RCMU CO2 emission and RCMU technology types.

494

495 **Table 20 - RCMU Timeseries dependency table 3/4**

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit	C51: Resource capacity unit
	product	8716867000016: Active Power		
	curveType	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used
	meteringPoint_AggregateNode.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Not used	Not used
	resourceprovider_MarketParticipant.mRID	Not used	Not used	Not used
	resourceprovider_MarketParticipant.name	Not used	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Not used	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Not used	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Not used	Not used	Not used
	networkOperator_MarketParticipant.mRID	Not used	Not used	Not used
	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO Coding Scheme: A01	Not used	Not used
	memberState_MarketParticipant.mRID	Not used	Not used	Not used
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	marketParticipation_MarketObjectStatus.status	Not used	Not used	Not used

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	capacityMechanism_MarketProduct.marketProduct Type	Not used	Not used	Not used
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
		Not used	Not used	B01: Biomass B02: Fossil Brown coal/Lignite B03: Fossil Coal-derived gas B04: Fossil gas B05: Fossil Hard coal B06: Fossil Oil B07: Fossil Oil shale B08: Fossil Peat B09: Geothermal B10: Hydro Pumped Storage B11: Hydro Run-of-river and pondage B12: Hydro water Reservoir B13: Marine B14: Nuclear B15: Other renewable B16: Solar B17: Waste B18: Wind Offshore B19: Wind onshore B20: Other B25: Energy storage B26: Demand Side Response
	pSRType.psrType			
	street_Location.name	Not used	Not used	Not used
	streetNumber_Location.name	Not used	Not used	Not used
	city_Location.name	Not used	Not used	Not used
	postalCode_Location.name	Not used	Not used	Not used
	country_Location.name	Not used	Not used	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Not used	Not used

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Not used	Not used
	meteringPoint_AggregateNode.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurements (Analog)	measurementType	Not used	A23: CO2 emission	Not used
	unitSymbol	Not used	GKH: grams per kilowatt hour	Not used
	analogValues.value	Not used	Used (0 in case of no CO2 emission)	Not used
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

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498 4.6.5 RCMU Timeseries Dependency Table 4/4

499 The dependency table below shows the different combinations for RCMU eligibility periods,
500 RCMU allocated entry capacities and RCMU capacity obligations.

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Table 21 - RCMU Timeseries Dependency Table 4/4

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C52: Resource entry capacity data	C53: Resource capacity obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used
	meteringPoint_AggregateNode.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Not used	Not used
	resourceprovider_MarketParticipant.mRID	Not used	Not used	Not used
	resourceprovider_MarketParticipant.name	Not used	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Not used	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Not used	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Not used	Not used	Not used
	networkOperator_MarketParticipant.mRID	Not used	Not used	Not used
	resourceCapacityMechanismOperator_MarketParticipant.mRID	Not used	Not used	Not used
	memberState_MarketParticipant.mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	marketParticipation_MarketObjectStatus.status	A61: Primary market A62: Secondary market	Not used	Not used

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	capacityMechanism_MarketProduct.marketProductType	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	Not used	Not used
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used
	pSRType.psrType	Not used	Not used	Not used
	street_Location.name	Not used	Not used	Not used
	streetNumber_Location.name	Not used	Not used	Not used
	city_Location.name	Not used	Not used	Not used
	postalCode_Location.name	Not used	Not used	Not used
	country_Location.name	Not used	Not used	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Not used	Not used
meteringPoint_AggregateNode.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used	

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
Measurements (Analog)	measurementType	Not used	Not used	Not used
	unitSymbol	Not used	Not used	Not used
	analogValues.value	Not used	Not used	Not used
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period	Delivery Period
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

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505 4.6.6 RCMU History data

506 Note: Time interval in header (MarketDocument class) shows the requested period of time.

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