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# **All TSOs' proposal for the Key Organisational Requirements, Roles and Responsibilities (KORRR) relating to Data Exchange in accordance with Article 40(6) of the Commission Regulation (EU) 2017/1485 of 02 August 2017 establishing a Guideline on Transmission System Operation**

*02/10/2017*

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## **DISCLAIMER**

This document is released on behalf of the all transmission system operators ("TSOs") only for the purposes of the public consultation on the all TSOs' proposal for KORRR relating to Data Exchange in accordance with Article 40(6) of the Commission Regulation (EU) 2017/1485 of 02 August 2017 establishing a Guideline on Transmission System Operation. This version of the KORRR Proposal does not in any case represent a firm, binding or definitive TSOs' position on the content.

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49 All TSOs, taking into account the following,

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### Whereas

51 (1) This document is a common proposal developed by all Transmission System Operators (hereafter  
52 referred to as "TSOs") regarding the development of a proposal for the key organisational  
53 requirements, roles and responsibilities relating to Data exchange (hereafter referred to as  
54 "KORRR").

55 (2) This proposal (hereafter referred to as the "KORRR Proposal") takes into account the general  
56 principles and goals set in the Commission Regulation (EU) 2017/1485 establishing a guideline on  
57 Transmission System Operation (hereafter referred to as the "Regulation 2017/1485"), Regulation  
58 (EU) No 2015/1222 establishing a guideline on capacity allocation and congestion management  
59 (hereafter referred to as "CACM"), as well as Regulation (EC) No 714/2009 (hereafter referred to as  
60 "Regulation (EC) No 714/2009"). The goal of Regulation 2017/1485 is safeguarding operational  
61 security, frequency quality and the efficient use of the interconnected system and resources. To  
62 achieve it, it is necessary that each party of the electric system has the necessary observability of  
63 the network elements and services with impact in their activities. Of special relevance is the global  
64 demand-generation balance, whose responsibility is assigned to the TSO in Regulation (EC) No  
65 714/2009. This proposal addresses the key roles, requirements and responsibilities regarding the  
66 necessary data exchange to have that observability.

67 (3) The KORRR takes into account and complements where necessary the operational conditions and  
68 requirements set out in the generation and load data provision methodology (hereafter referred to  
69 as "GLDPM") developed in accordance with Article 16 of CACM. This complementarity refers to  
70 who, how and when the data defined in GLDPM has to be exchanged.

71 (4) Article 40(6) of Regulation 2017/1485 constitutes the legal basis for this proposal and defines the  
72 requirements that the KORRR Proposal should take into account:

73 *By 6 months after entry into force of this Regulation, all TSOs shall jointly agree on key organisational*  
74 *requirements, roles and responsibilities in relation to data exchange. Those organisational*  
75 *requirements, roles and responsibilities shall take into account and complement where necessary*  
76 *the operational conditions of the generation and load data methodology developed in accordance*  
77 *with Article 16 of Regulation (EU) No 2015/1222. They shall apply to all data exchange provisions in*  
78 *this Title and shall include organisational requirements, roles and responsibilities for the following*  
79 *elements:*

80 *(a) obligations for TSOs to communicate without delay to all neighbouring TSOs any changes in the*  
81 *protection settings, thermal limits and technical capacities at the interconnectors between their*  
82 *control areas;*

83 *(b) obligations for DSOs directly connected to the transmission system to inform their TSOs, within*  
84 *the agreed timescales, of any changes in the data and information pursuant to this Title;*

85 *(c) obligations for the adjacent DSOs and/or between the downstream DSO and upstream DSO to*  
86 *inform each other within agreed timescales of any change in the data and information established*  
87 *in accordance with this Title;*

88 *(d) obligations for SGUs to inform their TSO or DSO, within agreed timescales, about any relevant*  
89 *change in the data and information established in accordance with this Title;*

90 *(e) detailed contents of the data and information established in accordance with this Title, including*  
91 *main principles, type of data, communication means, format and standards to be applied, timing*  
92 *and responsibilities;*

- 93                    *(f) the time stamping and frequency of delivery of the data and information to be provided by DSOs*  
94                    *and SGUs, to be used by TSOs in the different timescale*  
95                    *s. The frequency of information exchanges for real-time data, scheduled data and update of*  
96                    *structural data shall be defined; and*  
97                    *(g) the format for the reporting of the data and information established in accordance with this Title.*  
98                    *The organizational requirements, roles and responsibilities shall be published by ENTSO for*  
99                    *Electricity.*
- 100                  (5) Article 40(5) specifies that the TSO shall define, in coordination with DSOs and SGUs, the  
101                  applicability and scope of the Data Exchange based on Title II of Regulation 2017/1485.
- 102                  (6) Article 40(7) specifies the obligation for the TSOs to coordinate with the relevant DSOs on the  
103                  process for exchanging information between them, including the format of the data exchanges.
- 104                  (7) Article 75 specifies the obligation for the TSOs to develop a methodology for coordinating  
105                  operational security analysis. The KORRR shall include the method for assessing the relevant of  
106                  network elements to define the observability area of the TSO.
- 107                  (8) Article 40(10) specifies the obligation for neighbouring DSOs to determine in a coordinated manner  
108                  the scope of information exchanged between them.
- 109                  (9) Article 6(6) of Regulation 2017/1485 requires that the expected impact of the KORRR Proposal on  
110                  the objectives of Regulation 2017/1485 is described. The impact is presented below (points (10) to  
111                  (18) of this Whereas Section).
- 112                  (10) KORRR Proposal establishes a common framework for the data exchange for all TSOs in the  
113                  interconnected system, in line with requirement of Article 4(1)(a) of Regulation 2017/1485.
- 114                  (11) In the aim to get common operational planning principles as requested by Article 4(1)(b) of  
115                  Regulation 2017/1485, KORRR Proposal allows receive the data to prepare scenarios to perform  
116                  operational security analysis in the planning stage.
- 117                  (12) KORRR Proposal includes the organization to exchange, among other, real time data, necessary to  
118                  perform the load-frequency control processes as defined in Article 4(1)(c) of Regulation 2017/1485.
- 119                  (13) To ensure the conditions for maintaining operational security throughout the Union as specified in  
120                  Article 4(1)(d) of Regulation 2017/1485, TSOs needs to have good observability of the System in  
121                  order to perform reliable security analysis. KORRR Proposal aims to set the framework to facilitate  
122                  the access of TSOs to necessary data to achieve observability and prepare accurate scenarios.
- 123                  (14) Data exchange regarding capabilities and active power production is necessary for TSOs to fulfil  
124                  processes to maintain a frequency level of all synchronous areas throughout the Union as defined  
125                  in Article 4(1)(e) of Regulation 2017/1485.
- 126                  (15) KORRR Proposal takes into account the exchange of structural and scheduled data among TSOs and  
127                  DSOs to perform security analysis before and in real time to promote the coordination of system  
128                  operation and operational planning as defined in Article 4(1)(f) of Regulation 2017/1485.
- 129                  (16) Article 4(1)(g) aims at ensuring and enhancing the transparency and reliability of information on  
130                  transmission system operation and KORRR Proposal establishes the framework to regulate the  
131                  necessary information among different parties in the electric system to guarantee operational  
132                  security.
- 133                  (17) KORRR Proposal will contribute to the efficient operation and development of the electricity  
134                  transmission system and electricity sector in the Union while having good observability of the  
135                  system to perform reliable security analysis and thus identifying possible improvements in the  
136                  Transmission System.

137 (18) In conclusion, the KORRR Proposal contributes to the general objectives of the Regulation  
138 2017/1485 to the benefit of all TSOs, NEMOS, the Agency, regulatory authorities and market  
139 participants.

140  
141 SUBMIT THE FOLLOWING KEY ORGANISATIONAL REQUIREMENTS, ROLES AND RESPONSIBILITIES RELATING  
142 TO DATA EXCHANGE TO ALL REGULATORY AUTHORITIES:

143 **TITLE 1**  
144 **General Provisions**

145 *Article 1*  
146 *Subject matter and scope*

- 147  
148 1. The KORRR as determined in this proposal shall be considered as the common proposal of all TSOs  
149 in accordance with Article 40(6) of Regulation 2017/1485 and shall include organisational  
150 requirements, roles and responsibilities for Data Exchange according to Title II of that regulation.  
151 2. The KORRR shall apply to all TSOs in the area referred to in Article 2(2) of Regulation 2017/1485.  
152 3. When applying the KORRR and the TSOs shall:
- 153 a. apply the principles of proportionality and non-discrimination;
  - 154 b. ensure transparency;
  - 155 c. apply the principle of optimisation between the highest overall efficiency and lowest total  
156 costs for all parties involved;
  - 157 d. respect the responsibility assigned to the relevant TSO in order to ensure system security,  
158 including as required by national legislation;
  - 159 e. consult with relevant DSOs and take account of potential impacts on their system; and
  - 160 f. take into consideration agreed European standards and technical specifications.
- 161 4. TSOs from jurisdictions outside the area referred to in Article 2(2) of Regulation 2017/1485 may  
162 adopt KORRR Proposal on a voluntary basis, provided that
- 163 a. For them to do so is technically feasible and compatible with the requirements of Regulation  
164 2017/1485;
  - 165 b. They agree that they shall have the same rights and responsibilities with respect to the Data  
166 Exchange process as the TSOs referred to in paragraph 2, in particular, they shall accept that  
167 The KORRR applies to the relevant parties in their control area as well;
  - 168 c. They accept any other legally feasible conditions related to the voluntary nature of their  
169 participation in the Data Exchange process that the TSOs may set;
  - 170 d. The TSOs referred to in paragraph 2 have concluded an agreement governing the terms of  
171 the voluntary participation with the TSOs referred to in this paragraph;
  - 172 e. Once TSOs participating in the Data Exchange process on a voluntary basis have  
173 demonstrated objective compliance with the requirements set out in (a), (b), (c) and (d), the  
174 TSOs referred to in paragraph 1, after checking that the criteria in (a), (b), (c) and (d) are  
175 met, have approved an application from the TSO wishing to join the KORRR process in  
176 accordance with the procedure set out in Article 5(3) of Regulation 2017/1485.
- 177 5. The TSOs referred to in paragraph 2 shall monitor that TSOs participating in the Data Exchange  
178 process on a voluntary basis pursuant to paragraph 4 respect their obligations. If a TSO participating  
179 in the Data Exchange process pursuant to paragraph 4 does not respect its essential obligations in

180 a way that significantly endangers the implementation and operation of Regulation 2017/1485, the  
181 TSOs referred to in paragraph 2 shall terminate that TSO's voluntary participation in the Data  
182 Exchange process in accordance with the procedure set out in Article 5(3) of Regulation 2017/1485.  
183

## 184 *Article 2* 185 *Definitions*

- 186
- 187 1. For the purposes of the KORRR, terms used in this document shall have the meaning of the  
188 definitions included in Article 3 of the SO GL Regulation, Article 2 of Regulation (EU) 2015/1222,  
189 Article 2 of Regulation (EC) No 714/2009, Article 2 of Commission Regulation (EU) No 543/2013,  
190 Article 2 of Regulation (EC) No 631/2016, Article 2 of Regulation (EC) No 1388/2016, Article 2 of  
191 Regulation (EC) No 1447/2016 as well as Article 2 of Directive 2009/72/EC of the European  
192 Parliament and of the Council and the other items of legislation referenced therein.
  - 193 2. In the KORRR, unless the context requires otherwise:  
194 a) the table of contents, headings and examples are inserted for convenience only and do not  
195 affect the interpretation of the KORRR;  
196 b) any reference to legislation, regulations, directive, order, instrument, code or any other  
197 enactment shall include any modification, extension or re-enactment of it then in force;
  - 198 3. The KORRR shall be binding upon and shall ensure to the benefit of the TSOs as referred to herein  
199 and their permitted successors and assigns and irrespective of any change in the TSOs' names.
  - 200 4. For the purpose of the KORRR, and aggregation means a set of power generation unites, demand  
201 facilities, closed distribution systems which can operate as a single facility or closed distribution  
202 system for the purposes of offering one or more balancing or congestion management service.
  - 203 5. For the purpose of the KORRR, a modification is considered significant when it is significant in EU  
204 2016/631 (NC RfG), EU 2016/1388 (NC DCC) or EU 2016/1447 (NC HVDC).
  - 205 6. For the purpose of the KORRR, Real Time Data means a representation of the actual state of the  
206 facilities no more than one minute old.
  - 207 7. For the purpose of the KORRR, SGUs are considered to provide data directly to the TSO or DSO when  
208 they are the first TSO or DSO that receives that data from the SGU.

209

## 210 *Article 3* 211 *General responsibilities*

- 212
- 213 1. Each TSO, DSO, CDSO or SGU will be responsible for the quality of the information they provide  
214 regarding their facilities or services. Except where explicitly otherwise stated, they shall be the party  
215 required to provide the data.
  - 216 2. In the case of an aggregator, the aggregation of the facilities shall be considered as the SGU and the  
217 aggregator responsible for the data provision. In some cases, an individual power generating  
218 module or demand facility included in the aggregation may also be an SGU and may still have  
219 obligations to provide data under Regulation 2017/1485 independently of the aggregator.
  - 220 3. Transmission connected SGUs and SGUs providing services directly to the TSO shall provide data  
221 directly to the TSO.

- 222 4. Each TSO, in coordination with the DSOs in its Control Area, shall define whether the distribution  
223 connected SGUs in its control area shall provide the structural, scheduled and real-time data directly  
224 to the TSO and/or to the DSO they are connected. The decision for each type of information and  
225 type of SGU may be independent. When the data is directly provided to the TSO, after request of  
226 the DSO to whose network the SGU is connected, the TSO shall make it available for the DSO. When  
227 the data is provided to the DSO, the DSO shall provide the data to the TSO. The quality and  
228 granularity of the data shall be maintained or improved.
- 229 5. When the TSO or the DSO receives the data directly from the SGU, the TSO or DSO shall check that  
230 the data complies with the quality requirements specified according to the KORRR before sharing it  
231 with another entity.
- 232 6. As far as reasonably possible CDSOs, SGUs shall not be required to provide the same data directly  
233 to both the TSO and the DSO it is connected to.
- 234 7. DSOs, CDSOs and SGUs shall be responsible for the installation, configuration, security and  
235 maintenance of the communication systems to exchange data with the TSO according to the KORRR  
236 unless explicitly otherwise agreed with the TSO.
- 237 8. Subject to the agreement of the TSO, parties required to provide data under the KORRR shall be  
238 allowed to delegate all or part of any tasks assigned to it under Regulation 2017/1485 to one or  
239 more third parties like BRP, BSP, aggregators or similar entities, in case the third party can carry out  
240 the respective function at least as effectively as the delegating entity. The delegating entity shall  
241 remain responsible for ensuring compliance with the obligations under Regulation 2017/1485,  
242 including ensuring access to information necessary for monitoring by the regulatory authority.
- 243

244 *Article 4*  
245 *Confidentiality*

- 246
- 247 1. Except where explicitly stated otherwise, all data affected by the KORRR shall be confidential. In  
248 accordance with Article 12 of Regulation 2017/1485, each party receiving data according to the  
249 KORRR shall implement appropriate technical and organizational measures to ensure that data is  
250 not divulged to any other person or authority, without prejudice to cases covered by national law,  
251 other provisions of the Regulation 2017/1485 or other relevant Union legislation.
- 252 2. Each Power Generation Facility, Demand Facility or CDSO considered as a SGU according to Article  
253 2(1) of Regulation 2017/1485 shall have access to the structural information referring to its facilities  
254 stored by the TSO or DSO.
- 255 3. Each DSO and CDSO shall have access to the Structural, Scheduled and Real-Time information of the  
256 SGUs connected to its distribution or closed distribution network.
- 257 4. DSOs and CDSOs shall have access to the Structural, Scheduled and Real-Time information of the  
258 commissioned facilities of the Transmission Network in their connection point. Upon justification  
259 of the need of the information for operational security reasons, they may request further structural  
260 or Real-Time information from commissioned facilities of the Transmission System of the Control  
261 Area they are connected. When the request of information comes from a CDSO, it shall not include  
262 the Connection Point of other CDSOs or SGUs. TSOs may give positive or justified negative answer  
263 to the request.

- 264 5. SGUs shall have access to the Structural and Real-Time information of the commissioned facilities  
265 of the Transmission System or Distribution System in their connection point. It shall not include the  
266 Connection Point of other CDSOs or SGUs.
- 267 6. Competent National Regulatory Authorities shall have access to all information exchanged  
268 according to the KORRR upon request.
- 269 7. Subject to the confidentiality obligations set out in Article 12 of Regulation 2017/1485, TSOs may  
270 share the data obtained with all other TSOs that have fully implemented the requirements set out  
271 in KORRR proposal.
- 272 8. The TSOs may share structural information of DSOs, CDSOs or SGU with a third party to comply with  
273 the responsibilities defined in Regulation 2017/1485, subject to the formalization of a  
274 confidentiality and a limitation of use agreement.

## TITLE 2

### Key Organisational Requirements, Roles and Responsibilities

#### Chapter 1

#### Responsibilities of TSOs

##### *Article 5*

##### *General Responsibilities*

- 281
- 282 1. Each TSO shall define the observability area of the neighbouring TSOs' transmission systems according  
283 to the methodology of Article 75 Regulation 2017/1485 and communicate it to the affected TSOs.
- 284 2. Each TSO shall define the observability area of the connected distribution network of its control area  
285 according to the methodology of Article 75 Regulation 2017/1485 and communicate it to the affected  
286 DSOs.
- 287 3. Each TSO shall provide updated information of their transmission system that is part of the observability  
288 area of neighbouring TSO to those TSOs.
- 289 4. Each TSO shall provide updated information of the DSO network of its control area that is part of the  
290 observability area of neighbouring TSO to those TSOs.
- 291 5. TSOs may use the information platform developed in accordance with Article 114 of Regulation  
292 2017/1485 to exchange structural and scheduled information with other TSOs.

293

#### Structural data

##### *Article 6*

##### *Data storage*

297

- 298 1. Each TSO shall gather, update and maintain the structural data necessary to operate the interconnected  
299 system within its control area.
- 300 2. Each TSO shall store electronically the structural data of the electric system. The storage shall contain  
301 the information from the Transmission System, from the observability area in the Distribution

302 Networks, from the observability area in neighbouring Transmission Systems and from the SGU  
303 according to articles 41, 43, 45, 48, 51 and 52 of Regulation 2017/1485.

304 3. Each TSO shall specify the format and may publish templates for the structural data that DSOs and SGUs  
305 shall provide. The format or template have to include the detailed content of the structural data that  
306 have to be provided.

307

308

309

310

*Article 7*  
*Notification of changes*

311 1. Each TSO shall review the structural information it shares with other TSOs at least every 6 months and  
312 provide updated information of the observability area to the neighbouring TSO in the following  
313 situations:

- 314 a) At least 3 months before commissioning of a new network element or facility;  
315 b) At least 3 months before final removal from service of the network element or facility;  
316 c) At least 3 months before significant modifications in the network element or facility;  
317 d) As soon as possible in case there is a change in the Observability Area;  
318 e) As soon as an error is detected.

319 2. According to the information stated in the Articles 4(4) and 4(5), DSOs and SGUs may request the update  
320 of the structural data to its TSO.

321

322

**Scheduled data**

323

324

*Article 8*  
*Responsibilities of TSOs*

325

326 1. Each TSO shall be capable of exchanging scheduled data with NEMOS, SGUs, DSOs or third parties to  
327 whom the exchange of scheduled information may have been delegated. Scheduled data shall at least  
328 include the generation and load schedules resulting from markets trade between Day ahead and real  
329 time, unavailability or limitations to active power production or consumption of SGUs, unavailability of  
330 network elements of DSOs in the TSO's observability area

331 2. Each TSO shall define and publish the format of the information and the technical requirements to  
332 exchange the scheduled data. The technical requirements should where possible, be in accordance with  
333 an international standard recommended by all TSOs and with current technologies to guarantee  
334 security, confidentiality and redundancy of the communications.

335 3. Each TSO shall electronically store the information at least during the necessary time to comply with its  
336 tasks.

337 4. Each TSO shall communicate to the DSOs directly connected to the transmission system their planned  
338 and unplanned unavailability of network elements in their connection point at least during day-ahead  
339 or before.

340

341

342

## **Real Time data**

343

### *Article 9*

344

#### *Content of Real Time Information*

345

- 346 1. Each TSO may specify more detailed content of the real-time information exchanged according to  
347 Articles 42, 44, 47, 50, 52 and 53 of Regulation 2017/1485.

348

### *Article 10*

349

#### *Format of Real Time Information*

350

351

- 352 1. Each TSO, in coordination with the DSOs of its control area, shall specify and publish the format for real-  
353 time data exchange related to the distribution network observability area and to the SGUs within its  
354 Control Area.

- 355 2. Each TSO shall specify the requirements for real-time data exchange related to the distribution network  
356 observability area and to the SGUs within its Control Area. The technical requirements should where  
357 possible, be in accordance with an international standard recommended by all TSOs and with current  
358 technologies to guarantee security, confidentiality and redundancy of the communications.

- 359 3. Each TSO, when exchanging real time information with other TSOs, shall follow and fulfil all the rules  
360 and obligations according to the current all TSOs practices in term of:

361 a) Logical connections between parties and protocols used;

362 b) Network architecture including redundancy;

363 c) Network security rules;

364 d) ID and/or naming convention and data quality;

365 e) Data Transmission Parameters and performance;

366 f) Rules of conduct in the case of planned outages and disturbances of communication equipment.

- 367 4. Each TSO shall define the refresh rate for the real-time data exchanges in its control area. It shall not be  
368 longer than 1 minute. For data related to load-frequency control, it shall not be longer than 10 s.

369

## **Chapter 2**

370

### **Responsibilities of DSOs**

371

#### **Structural data**

372

### *Article 11*

373

#### *Structural Data provided by DSOs*

374

375

- 376 1. Each DSO shall provide to its TSO the updated structural data of the observability area in the distribution  
377 network operated by them according to Article 43 of Regulation 2017/1485.

378

379 *Article 12*  
380 *Notification of changes*

381

- 382 1. Each DSO shall review the structural information it shares with the TSOs of its control area at least every  
383 6 months and provide updated information to the TSO in the following situations:
- 384 a) At least 3 months before commissioning of a new network element or facility. Upon justification,  
385 the TSO may define a different timeline;
- 386 b) At least 3 months before final removal from service of the network element or facility Upon  
387 justification the TSO may define a different timeline;
- 388 c) At least 3 months before significant modifications in the network element or facility Upon  
389 justification the TSO may define a different timeline;
- 390 a) As soon as possible in case there is a change in the Observability Area;
- 391 b) As soon as an error is detected.

392

393

**Scheduled data**

394 *Article 13*  
395 *Rights and responsibilities of DSOs*

396

- 397 1. All DSOs within the observability area and the control area of the TSO shall provide their planned and  
398 unplanned unavailability of network elements to the TSO, at least in D-2 and day-ahead. Transmission  
399 connected DSOs shall provide the data directly to the TSO. Non-transmission connected DSOs may  
400 provide the data directly to the TSO or through its connecting DSO according to Article 3(4).
- 401 2. Each DSO or CDSO shall have access to the scheduled data regarding power schedules of SGUs  
402 connected to its network. DSOs and CDSOs shall comply with the requirements defined by the relevant  
403 TSO to exchange scheduled data.

404

405

**Real Time data**

406 *Article 14*  
407 *Real Time Data provided by DSOs*

408

- 409 1. Each DSO shall provide to its TSO the real-time data from the observability area defined by the TSO  
410 according to Articles 43(1) and 43(2) of Regulation 2017/1485.
- 411 2. Each DSO shall fulfil the requirements defined by the TSO in terms of:
- 412 a) Logical connections between parties and protocols used;
- 413 b) Network Architecture including redundancy;
- 414 c) Network security rules;
- 415 d) ID and/or naming convention and data quality;
- 416 e) Data Transmission Parameters and performance;

417 f) Rules of conduct in the case of planned outages and disturbances of communication equipment.

418

419

420

### **Chapter 3** **Responsibilities of SGUs**

421

#### **Structural data**

422

##### *Article 15*

423

##### *Structural Data provided by SGUs*

424

425 1. Each SGU connected to the transmission system shall provide to its TSO the updated structural data  
426 according to Article 45, 52(1) of Regulation 2017/1485 of the facility operated by them in the format  
427 specified by its TSO.

428 2. Each SGU connected to the distribution system shall provide to the TSO or DSO, according to Article  
429 3(4), the updated structural data according to Article 48 and 53 of Regulation 2017/1485 of the facility  
430 operated by them in the format specified by its TSO.

431

432

##### *Article 16*

433

##### *Notification of changes*

434

435 1. Each SGU shall review the structural information it shares with the TSOs of its control area at least every  
436 6 months and provide updated information to the TSO and DSO in the following situations:

437 a) At least 3 months before commissioning of a new network element or facility. Upon justification,  
438 the TSO may define a different timeline;

439 b) At least 3 months before final removal from service of the network element or facility Upon  
440 justification the TSO may define a different timeline;

441 c) At least 3 months before significant modifications in the network element or facility Upon  
442 justification the TSO may define a different timeline;

443 d) As soon as an error is detected.

444

445

#### **Scheduled data**

446

##### *Article 17*

447

##### *Scheduled Data provided by SGUs*

448

449 1. All SGUs within the control area of the TSO shall provide scheduled data to the TSO. Transmission  
450 connected SGUs shall provide the data directly to the TSO. Non-transmission connected SGUs may  
451 provide the data directly to the TSO or through its connecting DSO according to Article 3(4).

452 2. SGUs shall comply with the requirements defined by the relevant TSO to exchange scheduled data.

453 3. SGUs shall be responsible for the installation, configuration, operation and maintenance of the  
454 communication systems to exchange scheduled data with the TSO unless explicitly otherwise agreed  
455 with the TSO.

456

457

## **Real Time data**

458

### *Article 18*

459

#### *Real Time Data provided by SGUs*

460

461 1. All SGUs which are power generation modules not subject to the EU Regulations 2016/631, or which  
462 are HVDC systems not subject to EU Regulations 2016/1447, or which are demand facilities not subject  
463 to EU Regulations 2016/1388, shall comply with the requirements under this KORRR regarding to the  
464 real-time data exchange. In case of non-compliance, by 3 months after the applicability of the  
465 requirements in the KORRR, SGUs shall provide TSO or DSO technical justifications, that shall be  
466 evaluated by TSO or DSO. On the basis of this evaluation TSO or DSO in coordination with the TSO, may  
467 exempt particular SGU from requirement to provide real time data.

468

469 2. All SGUs within the control area of the TSO shall provide real time data in accordance with Articles 47,  
470 50, 52(3) and 53 of Regulation 2017/1485 to the TSO. Transmission connected SGUs shall provide the  
471 data directly to the TSO. Non-transmission connected SGUs may provide the data directly to the TSO or  
472 through its connecting DSO according to Article 3(4).

472

473 3. Each SGU providing data directly to the TSO shall fulfil the requirements defined by the TSO in terms of:

473

a) Logical connections between parties and protocols used;

474

b) Network architecture including redundancy;

475

c) Network security rules;

476

d) ID and/or naming convention and data quality;

477

e) Data Transmission Parameters and performance;

478

f) Rules of conduct in the case of planned outages and disturbances of communication equipment.

479

480 4. SGUs shall be responsible for the installation, configuration, operation and maintenance of the  
481 communication systems to exchange real time data with the TSO unless explicitly otherwise agreed  
482 with the TSO.

482

## **Chapter 4**

483

### **Responsibilities of NEMOs**

484

#### **Scheduled data**

485

### *Article 19*

486

#### *Responsibilities of NEMOs*

487

488 1. Each NEMO shall agree with its respective TSO or TSOs the process to exchange information regarding  
489 markets operated by the NEMO.

490

491 2. Each NEMO shall provide to its TSO or TSOs the results from markets operated by them according to  
492 the agreement on previous article.

492

493 3. Each NEMO shall be responsible for the installation, configuration and maintenance of the  
494 communication systems to exchange scheduled data with the TSO unless explicitly otherwise agreed  
495 with its TSO.

495

4. Each NEMO shall make available the market results to the relevant parties.

496

497

### **TITLE 3**

498

### **Final provisions**

499

#### *Article 20*

500

#### *Implementation date of KORRRs*

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502

1. Upon approval of this KORRRs proposal each TSO shall publish it on the internet in accordance with Article 8(1) of Regulation 2017/1485.

503

504

2. By 18 months after entry into force of SO GL, TSOs shall apply the proposed KORRRs as described in Title 2 as soon as all regulatory authorities have approved the proposed KORRRs or a decision has been taken by the Agency in accordance with Article 6(8) and 7(3) of the Regulation 2017/1485.

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#### *Article 21*

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#### *Language*

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511

The reference language for this KORRR Proposal shall be English. For the avoidance of doubt, where TSOs need to translate this KORRR Proposal into their national language(s), in the event of inconsistencies between the English version published by TSOs in accordance with Article 8 (1) of the Commission Regulation (EU) 2017/1485 and any version in another language, the relevant TSOs shall, in accordance with national legislation, provide the relevant national regulatory authorities with an updated translation of the KORRR.

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### **Appendix: (if needed)**

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