



THE ENERGY IDENTIFICATION CODING SCHEME (EIC) REFERENCE MANUAL

2011-01-20

VERSION 4.4

2	Table of Contents	
3	1	INTRODUCTION 8
4	2	GENERAL REQUIREMENTS FOR THE ADMINISTRATION OF EIC 9
5	3	ENERGY IDENTIFICATION CODING SCHEME - EIC 9
6	3.1	INTRODUCTION 9
7	3.2	ADMINISTRATIVE ORGANIZATION 10
8	3.3	THE ENERGY IDENTIFICATION CODE - EIC 11
9	3.3.1	PERMITTED CHARACTERS 11
10	3.3.2	OVERALL STRUCTURE 11
11	3.3.3	OBJECT TYPES 11
12	3.3.3.1	PARTY (EIC OBJECT TYPE X): 11
13	3.3.3.2	AREA (EIC OBJECT TYPE Y): 12
14	3.3.3.3	MEASUREMENT POINT (EIC OBJECT TYPE Z): 12
15	3.3.3.4	RESOURCE OBJECT (EIC OBJECT TYPE W): 12
16	3.3.3.5	TIE-LINE (EIC OBJECT TYPE T): 12
17	3.3.3.6	LOCATION (EIC OBJECT TYPE V): 12
18	3.4	EIC CODE VALIDATION 12
19	3.5	ISSUING OFFICES 13
20	3.5.1	CENTRAL ISSUING OFFICE 13
21	3.5.2	LOCAL ISSUING OFFICES 15
22	3.5.2.1	MANAGEMENT OF INTERNATIONAL EIC CODES 16
23	3.5.2.2	MANAGEMENT OF NATIONAL EIC CODES 17
24	3.6	LOCAL ISSUING OFFICE CREATION 17
25	4	EIC CREATION, DEACTIVATION OR MODIFICATION WORKFLOW 18
26	5	MAINTENANCE AND ORGANISATION 20
27	5.1	REGISTRY COSTS 20
28	6	ANNEX 1: THE ENTSO-E CHECK CHARACTER ALGORITHM 21
29	6.1	INTRODUCTION 21
30	6.2	THE ENERGY IDENTIFICATION CODE 21
31	7	ANNEX 2: METERING POINT CODING SCHEME EXAMPLE 24
32	8	ANNEX 3: XML DOCUMENT STRUCTURE FOR EIC CODE ALLOCATIONS. 25
33	8.1	XML SCHEMA STRUCTURE 25
34	8.2	ELEMENT DEFINITIONS 26
35	8.3	XML SCHEMA 30
36	8.4	BASIC GROUND RULES 32
37	8.5	HOW TO VERIFY AN EIC CODE REQUEST 32
38	8.6	CIO OUTPUT TO THE ISSUING OFFICES 32
39	8.7	COMPLETING EIC INFORMATION FOR TRANSMISSION TO THE CIO 34
40	8.8	ENTSO WEBSITE CONTENT 35
41	9	ANNEX 4: USE OF THE EIC PARENT 36
42	10	ANNEX 5: USE OF THE EIC RESPONSIBLE PARTY 37
43		

44 **Table of figures**

45	FIGURE 1: THE EIC PROCESS WORKFLOW	18
46	FIGURE 2: THE XML SCHEMA MODEL	25
47	FIGURE 3: THE ISSUING OFFICE ANALYSIS HTML FORM	33
48	FIGURE 4: THE ISSUING OFFICE EIC INTERROGATION FORM.....	33
49	FIGURE 5: THE ISSUING OFFICE EIC DATA CAPTURE FORM.....	34
50	FIGURE 6: EIC PARENT USE	36
51	FIGURE 7: EIC RESPONSIBLE PARTY USE	37
52	FIGURE 8: EIC RESPONSIBLE PARTY FOR LOCATIONS	38

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REVISION HISTORY

Version	Release	Date	Paragraphs	Comments
1	0	2001-05-24		Initial publication.
2	0	2002-06-20		Correction to remove the use of the asterisk character (*) in the code since the code could be used in a filename.
2	1	2002-11-10		General revision to incorporate all the facilities and requirements of an issuing office.
2	2	2003-02-05		Suppress the use of the asterisk in section 3.3 and clarify the use of the hyphen character in Annex 1.
2	3	2003-06-30	General Annex 4	Correct page numbering. Add correct XML document structure for the transmission of EIC codes in addition to providing more descriptive information about the information to be supplied to ETSO.
3	0	2004-09-30	Section 1 Section 3 Annex 4 Annex 5	Update of the introduction section to bring it into line with the current situation to define the new type code "W" for units. Specify more responsibilities for the central issuing offices and additional responsibilities for the local issuing offices. Modify the DTD to incorporate the EIC responsible party and to provide explanatory text. Explanation of the use of the EIC parent.

Version	Release	Date	Paragraphs	Comments
			Annex 6	Explanation of the use of the EIC responsible party.
4	0	2005-05-11		General revamping of the document to incorporate the extension of the coding system to the Energy market, to permit the code to be used locally as well as nationally and to detail the use of the balance group object type.
4	1	2008-02-04	1 2 3.3.3 3.4 3.5.1 3.5.2 3.5.2.1 3.5.2.2 3.6 3.7 Old 3.7 3.8 Annex 2 Annex 4.1 4.2 4.3	Editorial + addition of new type Editorial + clarification Editorial + new type (tie line) Editorial Editorial + clarification Editorial + clarification New (old 3.5.2.1) Clarification Editorial + Clarification New Workflow deleted and integrated into previous chapters Editorial Clarification (old 4.1 deleted) modified schema representation (old 4.2) (old 4.3) added specific Function possibilities New -XML Schema
4	2	2008-04-22	General 3.7	Ensured that the explanation of the Display name always referred to uniqueness by category. Corrected the workflow
4	3	2009-06-08	3.5	Definition of authorized Local Issuing Office.

Version	Release	Date	Paragraphs	Comments
4	4	2010-12-17		<p>Addition of the EIC Type “V”, Location.</p> <p>Updated the Reference Manual to reflect the changeover to ENTSO-E.</p> <p>Approved 2011-01-20 by the ENTSO-E Market Committee</p>

72 **1 INTRODUCTION**

73 Electronic Data Interchange in the European Energy Market requires a common identification
74 scheme to be effective. All Market Participants (traders, producers, qualified consumers, etc.)
75 have the possibility to act in different market areas. System Operators have to exchange
76 information amongst themselves concerning the market participants in question as well as
77 with the market participants. In Addition there are many other objects that require
78 identification for information interchange to be successful (tie lines, resource objects, etc.). In
79 order to do this a reliable identification scheme is a necessity.

80 The primary, but not exhaustive, list of objects that need to be identified are:

- 81 A. Parties: System Operators, traders, producers, consumers, power exchanges, grid
82 operators, suppliers, agents, service providers, etc.
- 83 B. Areas: Local grids where metering points are situated, market balance areas
84 consisting of a number of local grids, control areas, etc.
- 85 C. Measurement Points: cross border connections, settlement or accounting points, etc.
- 86 D. Resource objects: The objects that generate, or consume energy.
- 87 E. Tie-lines: The physical lines that connect two Market Balance Areas.
- 88 F. Locations: The physical or logical places where a party or the IT system of a party is
89 or could be located.

90 In 2002, the ETSO Task Force EDI "Electronic Data Interchange" investigated the use of
91 identification schemes in the member countries. The results of this study showed that most
92 countries were using national identification schemes that were unsuitable for use at a
93 European level.

94 The ETSO Task Force EDI (TF EDI) envisaged the possibility of making one of the national
95 identification schemes a European standard. However, the candidate schemes were deemed
96 unsuitable for widespread use as they did not provide the necessary guarantees to be a
97 robust coding scheme. TF EDI also looked into the use of several international identification
98 schemes that could eventually be used for the energy market. The schemes in question,
99 however, contained specific constraints for their use that prevented their adoption at a
100 European level.

101 In conclusion, TF EDI considered that it would be better to establish a new energy
102 identification scheme that combines the optimization of allocation costs and provides all the
103 services that are felt needed for the energy market.

104 TF EDI therefore introduced an identification scheme, which provides an easy migration path
105 for existing national schemes, in a format that makes it suitable for general electronic data
106 interchange. This new Energy Identification Coding scheme - EIC - is described in the rest of
107 this paper.

108 The ETSO Steering Committee approved the Energy Identification Coding scheme on the
109 14th of May 2002.

110 **2 GENERAL REQUIREMENTS FOR THE ADMINISTRATION OF** 111 **EIC**

112 A successful identification scheme requires that the allocated codes are stable over time.
113 This implies that the significance of a code should always remain constant.

114 EIC Issuing Offices shall ensure that:

- 115 1. Issued codes shall be globally unique. The basic principal is that only one code is
116 allocated per organisation.
- 117 2. Once a code is allocated to identify an entity, it shall only be changed if the entity's
118 status changes. Consequently, for example if an organisation merely changes its
119 name, its code shall not be modified.
- 120 3. Only System Operators, Market Operators, Imbalance Settlement Responsible
121 organisations and regulators are allowed to request new area identifications. Areas
122 used in inter System Operator data interchange shall be named centrally.

123 An identification scheme also requires a certain number of services. These services should
124 include, for example:

- 125 1. The correct allocation of codes;
- 126 2. The management of the code lists (inquiry, inactivation and modification);
- 127 3. Information on the significance of codes;
- 128 4. Contact details about the designated organisations;
- 129 5. Communication parameters (e-mail, http, network address, etc.).

130 **3 ENERGY IDENTIFICATION CODING SCHEME - EIC**

131 **3.1 INTRODUCTION**

132 ENTSO-E, through its Market Committee Working Group EDI, has defined the coding system
133 and the administrative organization to manage and maintain the EIC.

134 The coding scheme is under the responsibility of ENTSO-E. However, the overall assignment
135 and management of the codes will be carried out by ENTSO-E authorised organisations or
136 associations in compliance with an agreed basic set of rules.

137 Such organisations will typically be national energy organisations or European energy
138 associations. On reception of the ENTSO-E authorisation, they may assign codes to their
139 members and to other bodies or entities on a previously agreed basis.

140 The most important use of EIC is for party coding. With different market rules and practices
141 in the national markets today's use of EIC will vary slightly from country to country. However
142 the objective of EIC is to end up with a harmonized way of identifying parties for data
143 interchange in the Internal Energy Market. This harmonization process is carried out at
144 meetings with all the local issuing offices.

145 The ENTSO-E vision for party identification is that an international party uses the same EIC
146 code in all markets for his wholesale activities. This is especially important for his energy
147 flows between the different national areas, as this will facilitate the validation of these flows
148 between the System Operators. Validation of cross border flows is a prerequisite for keeping
149 the European network stable.

150 For retail market data interchange a more detailed approach will generally be needed and
151 national subsidiaries of the international companies will need to be identified. In this way an
152 international group may end up with many party codes for its activities in different parts of the
153 market.

154 **3.2 ADMINISTRATIVE ORGANIZATION**

155 The administrative organization is composed of a two level structure:

156 **Level 1: Central Issuing Office**

157 The Central Issuing Office is under the direct responsibility of ENTSO-E. ENTSO-E
158 Secretariat, on behalf of ENTSO-E, will perform the functions of the Central Issuing Office as
159 long as the group remains in existence.

160 **Level 2: Local Issuing Offices**

161 The Local Issuing Offices act as agents of the Central Issuing Office. Each country or
162 European association, which directly or indirectly is a part of the European internal
163 market for energy, can have a Local Issuing Office (EIC issuing office). The Local
164 Issuing Office can either be a separate legal body or a part of an existing body. It
165 must have an official role in the energy market, i.e. being a TSO, Market Operator or
166 Association of energy related companies. In order to qualify as a Local Issuing Office
167 the applicant must apply to the ENTSO-E Secretariat (form is available on the
168 ENTSO-E web site).

169 **3.3 THE ENERGY IDENTIFICATION CODE - EIC**

170 The Energy Identification Coding scheme is based on fixed length alphanumeric codes. The
171 codes will contain information about the issuing office in addition to information on the object
172 identified.

173 **3.3.1 PERMITTED CHARACTERS**

174 Permitted characters are numbers (0 to 9), capital letters (A to Z, English alphabet) and the
175 sign minus (-). To avoid confusion, the check character shall use numbers (0 to 9) or the
176 capital letters (A to Z).

177 **3.3.2 OVERALL STRUCTURE**

178 The structure of the EIC may be broken down as follows:

- 179 ➤ A 2-character number identifying the issuing office assigned by ENTSO-E.
- 180 ➤ One Character identifying the object type that the code represents.
- 181 ➤ 12 digits, uppercase characters or minus signs allocated by the issuing office in
182 compliance with general and local rules to identify the object in question (party,
183 measurement point, area, etc.).
- 184 ➤ 1 check character based on the 15 previous characters used to ensure the validity
185 of the code.

186 **3.3.3 OBJECT TYPES**

187 Currently the following types of object have been identified in the coding scheme, other types
188 of EIC code may be added with the agreement of ENTSO-E:

189 **3.3.3.1 PARTY (EIC OBJECT TYPE X):**

190 A party is allowed to have only one EIC code for a given organisation that has a legal
191 standing within the Energy Internal European Market (IEM).

192 Examples: 10X1001A1001A248 for the Danish TSO energinet DK.

193 The EIC X code is generally used to identify a Balance or Trade Responsible Party in a
194 data interchange. The party will obtain a party code at one of the Local Issuing Offices.
195 However having an EIC code is not a reason to allow a party to participate in any energy
196 market. To ensure this, the party has necessarily to be registered according to local
197 market rules.

198 For the electricity wholesale market this requires a contract for balance responsibility in
199 which the EIC party identification should be stated, together with the relevant balance
200 group identifications, if such are used.

201 For international trading groups it is recommended to use a single unique EIC code for
202 identifying the party for cross border flows in all countries. If the legal party in the contract
203 is a local subsidiary this party should be seen as an invoice party with its own EIC code
204 with regard to electronic data interchange.

205 **3.3.3.2 AREA (EIC OBJECT TYPE Y):**

206 All areas involved in inter System Operator data interchange must be identified on a
207 central basis. In some countries it is possible for a party to have several accounts for its
208 imbalance settlement. These are called balance groups. Such Balance groups are to be
209 identified by an EIC Y-code.

210 Examples: 10YDK-BALANCE-WM for the western balance area in Denmark.

211 Note: *At the start-up of the EIC coding system all the German balance groups were*
212 *incorrectly assigned X-codes. Consequently, Balance groups that have already been*
213 *assigned X-codes will remain valid in the countries using them.*

214 **3.3.3.3 MEASUREMENT POINT (EIC OBJECT TYPE Z):**

215 A measurement point identifies a physical or logical point that is used to identify an object
216 where the measurement of energy takes place.

217 Refer to Annex 2 for details specifically concerning metering points.

218 **3.3.3.4 RESOURCE OBJECT (EIC OBJECT TYPE W):**

219 Different resource objects, such as production units, consumption plants, etc. need to be
220 defined within the energy market. Objects such as these will be identified with the W-
221 code.

222 **3.3.3.5 TIE-LINE (EIC OBJECT TYPE T):**

223 The physical lines that connect together two Market Balance Areas need to be identified
224 to closely follow interconnection capabilities. These lines will be identified with the T-
225 code.

226 **3.3.3.6 LOCATION (EIC OBJECT TYPE V):**

227 A location identifies a physical or logical place where a party or an IT system of a party is
228 or could be located. A location has necessarily an EIC Responsible Party associated
229 with it.

230 **3.4 EIC CODE VALIDATION**

231 The identification code may be easily validated by applying the ENTSO-E Check Character
232 Algorithm. (See Annex 1 for details).

233 **3.5 ISSUING OFFICES**

234 The only Local Issuing Offices that have been authorized to issue EIC codes are those listed
235 on the Central Issuing Office web page [www.eiccodes.eu or www.entsoe.eu].

236 The only lists of recognised EIC codes are the following ones:

237 ➤ For international EIC codes, the Central Issuing Office list to be found on the
238 Central Issuing Office web page;

239 ➤ For local EIC codes, the Local Issuing Office list. These lists can be accessed
240 through the list of the authorized Local Issuing Offices.

241 Any other code, which is not listed within those recognised EIC codes lists, is not an EIC
242 code in the sense of the present document. Such a code is used under the sole responsibility
243 of the organisation that has issued it.

244 Once an EIC code is published in the Central Issuing Office list there is no additional
245 requirement for confirmation of the validity of the aforesaid EIC code.

246 **3.5.1 CENTRAL ISSUING OFFICE**

247 The Central Issuing Office shall be responsible for providing the 2-character EIC code that
248 identifies the Local Issuing Offices.

249 It shall also be responsible for providing the 16-character EIC codes to any recognised
250 electricity System Operator or area (used in inter-System Operator data interchange).

251 Electricity areas used in inter-System Operator data interchange shall be named directly by
252 the Central Issuing Office.

253 Only System Operators, Market Operators and Imbalance Settlement Responsible
254 organisations may request new area EIC identification codes.

255 ENTSO-E shall maintain a list of all Local Issuing Offices.

256 ENTSO-E, or the Central Issuing Office on his behalf, will on a weekly basis publish and
257 maintain in its website the allocated international EIC codes as received from the Local
258 Issuing Offices.

259 The Central Issuing Office may occasionally allocate EIC codes for parties not having a Local
260 Issuing Office. In this context, as in the case where it allocates System Operator or area EIC
261 codes, it shall respect the requirements that have been set forth for Local Issuing Offices.

262 The Central Issuing Office shall provide minimum checks to ensure that codes proposed by
263 the Local Issuing Offices are not in conflict with codes already existing in the code list or that
264 the code format does not infringe the rules for the allocation of codes. Explicitly, the Central
265 Issuing Office shall ensure that:

- 266 ➤ The “EIC code” is unique within the central Registry;
- 267 ➤ The “display name” is unique within the central Registry for each category of
268 code;
- 269 ➤ The “display name” respects the naming rules and only uses the permitted
270 characters;
- 271 ➤ The “last request date” is modified with each EIC code evolution;
- 272 ➤ The “business function” is present;
- 273 ➤ All mandatory fields are present;
- 274 ➤ “EIC parent” or “EIC Responsible Party” codes, if assigned, exist in the central
275 Registry. If one of these codes is made inactive, it shall ensure that all “EIC
276 parent” or “EIC Responsible party” codes are replaced accordingly.

277 The central Registry shall contain the list of all internationally recognised EIC codes provided
278 by the Local Issuing Offices.

279 The following basic information will be provided on the ETSO website:

EIC name	The official name assigned to the EIC code. For a Party code it shall identify the name of the party. For an Area code it shall identify the name of the area, etc.
Display name	A short name to be used for display on screen and verbal communication. Within each category (Party, area, metering point, etc.) the Display name shall be unique.
EIC parent	In case of a subsidiary or a sub-area, the EIC code of the owner.
EAN code	The GS1 code used by the party in markets using GS1 Global Location Number (GLN-13) instead of the EIC. This shall only be provided for EIC party codes.
VAT code	The VAT code of the company. This code shall only be assigned to Party EIC codes.
Function	The functional use of the code, e.g. "Balance Responsible Party", "Balance Group", etc.

280 3.5.2 LOCAL ISSUING OFFICES

281 The Local Issuing Offices are authorised by ENTSO-E to supply EIC codes to any
282 recognised energy organisation providing that they respect the minimum requirements set
283 forth in this document.

284 A Local Issuing Office is responsible for the allocation and maintenance of the codes it
285 issues and it shall maintain a list of all issued codes and standard data about the market
286 participant identified by the code in its local Registry.

287 It must ensure that the allocated codes are stable over time. This implies that the significance
288 of a code should always remain constant,

289 ➤ For organisations: A code shall be allocated to identify an organisation. A code
290 defines explicitly the organisation in question. The organisation should be
291 reflected in the text describing the company and it may be indicated in the name.
292 Consequently, if the organisation merely changes its name, its code will not be
293 modified.

294 ➤ All allocated codes must respect the rules for establishing EIC codes as described
295 in this document.

296 It is the responsibility of each Local Issuing Office to ensure that the codes under its
297 responsibility remain current and respect the rules laid down in this document. This means
298 that errors found by the Central Issuing Office or other Local Issuing Offices must be
299 corrected.

300 A Local Issuing Office must also ensure to the best of its ability that the parties, to whom it
301 has allocated codes, will inform it of any changes in the registration.

302 Each Local Issuing Office shall take all the measures possible to correct any anomaly
303 reported to it and shall ensure that the anomaly is rectified in the shortest possible delay.

304 The following minimum services must be provided:

305 ➤ A web page shall be developed to provide the necessary services including the
306 download of the list of locally used EIC codes in compliance with the ENTSO-E
307 XML schema. At a later stage more advanced data interchange can be introduced
308 to automate the transmission of general information and of communications
309 parameters to the participating parties.

310 ➤ The verification in the central Registry that a code has not already been allocated
311 for the party in question. If a code has already been allocated, the requestor of the
312 code shall be informed of the code in question.

313 ➤ The supply, to a request from an energy partner, of all the standard details
314 concerning a party.

315 ➤ All Local Issuing Offices shall send any updates of participant information
316 provided by the parties.

- 317 ➤ Each Local Issuing Office might also require that their participants send a copy of
318 their application request in an XML format validated through an appropriate XML
319 Schema.
- 320 ➤ The services must also include information about the unique GS1 code for the
321 parties that are active in TSO areas using the GS1-GLN-13 coding scheme.
- 322 ➤ The management of the code lists:
- 323 ✓ Inquiry about a code,
- 324 ✓ Suspension of a code,
- 325 ✓ Modification of company information concerning a code.

326 **3.5.2.1 MANAGEMENT OF INTERNATIONAL EIC CODES**

327 In addition of the minimum services described above, the following minimum services must
328 be provided for allocation of international EIC codes:

- 329 ➤ For the creation of an international EIC code, to supply the central Registry with
330 all allocated international EIC codes and the standard information. Each Local
331 Issuing Office shall send all internationally assigned codes to the Central Issuing
332 Office containing the standard information and their allocated EIC codes. This
333 information shall be sent to the Central Issuing Office by the Local Issuing Office
334 using either the standard XML message or the web based form supplied with the
335 Central Issuing Office EIC codelist download package. These messages will be
336 validated through the appropriate XML Schema (XML Schemas are defined in
337 Annex 4: XML message structure for EIC Code allocation). The uploaded
338 information will be integrated into the central Registry once a week.
- 339 ➤ Before an international EIC code may be deactivated, the Local Issuing Office in
340 question shall send a deactivation request to the Central Issuing Office. The code
341 in question will be published with the Central Issuing Office download to the Local
342 Issuing Offices for a period of two months prior to its deactivation. If during that
343 time a request is made for it not to be deactivated the code in question will be
344 removed from the deactivation list. The Local Issuing Office in question will be
345 informed of its removal. If, after the two month period no requests have been
346 received the codes will be deactivated by the Central Issuing Office.
- 347 ➤ Reactivation of an already deactivated EIC code. Where an EIC code identifying
348 an object has been deactivated and a request is made to reactivate it for the
349 same object, the Local Issuing Office may request its reactivation after it has
350 ensured that the code in question is identifying the same object. The request for
351 reactivation is sent to the Central Issuing Office who shall reactivate the code
352 immediately.

353 It is the responsibility of each Issuing Office to ensure the correctness of the information
354 supplied.

355 **3.5.2.2 MANAGEMENT OF NATIONAL EIC CODES**

356 In addition of the minimum services already described, the following minimum services must
357 be provided for the allocation of national EIC codes:

- 358 ➤ Local Issuing Offices may assign EIC codes to local entities for national purposes
359 that generally do not have an international interest. In this case the EIC code
360 assigned shall not be submitted to the Central Issuing Office for publication in the
361 central Registry. It must be remembered that a party that only participates in the
362 local market may at some later date wish to participate in the international market.
363 All the Local Issuing Office has to do in such a case is to transmit the EIC code
364 information to the Central Issuing Office.
- 365 ➤ Display names in the central Registry are required to be unique by category. This
366 uniqueness check by category also applies to locally assigned codes. In order to
367 ensure that a locally assigned EIC code has a display name that is guaranteed to
368 be unique it shall begin with the two character international country code of the
369 country in question. For example a local EIC code assigned in Switzerland shall
370 have display name such as "CH-NAME".
- 371 ➤ When a locally assigned EIC code is given international status, the Local Issuing
372 Office may modify the Display name accordingly but it must ensure that the
373 Display name is unique within the central Registry for the category of the EIC
374 code in question.
- 375 ➤ Deactivation/reactivation of a national EIC code is under the sole responsibility of
376 the Local Issuing Office.

377 **3.6 LOCAL ISSUING OFFICE CREATION**

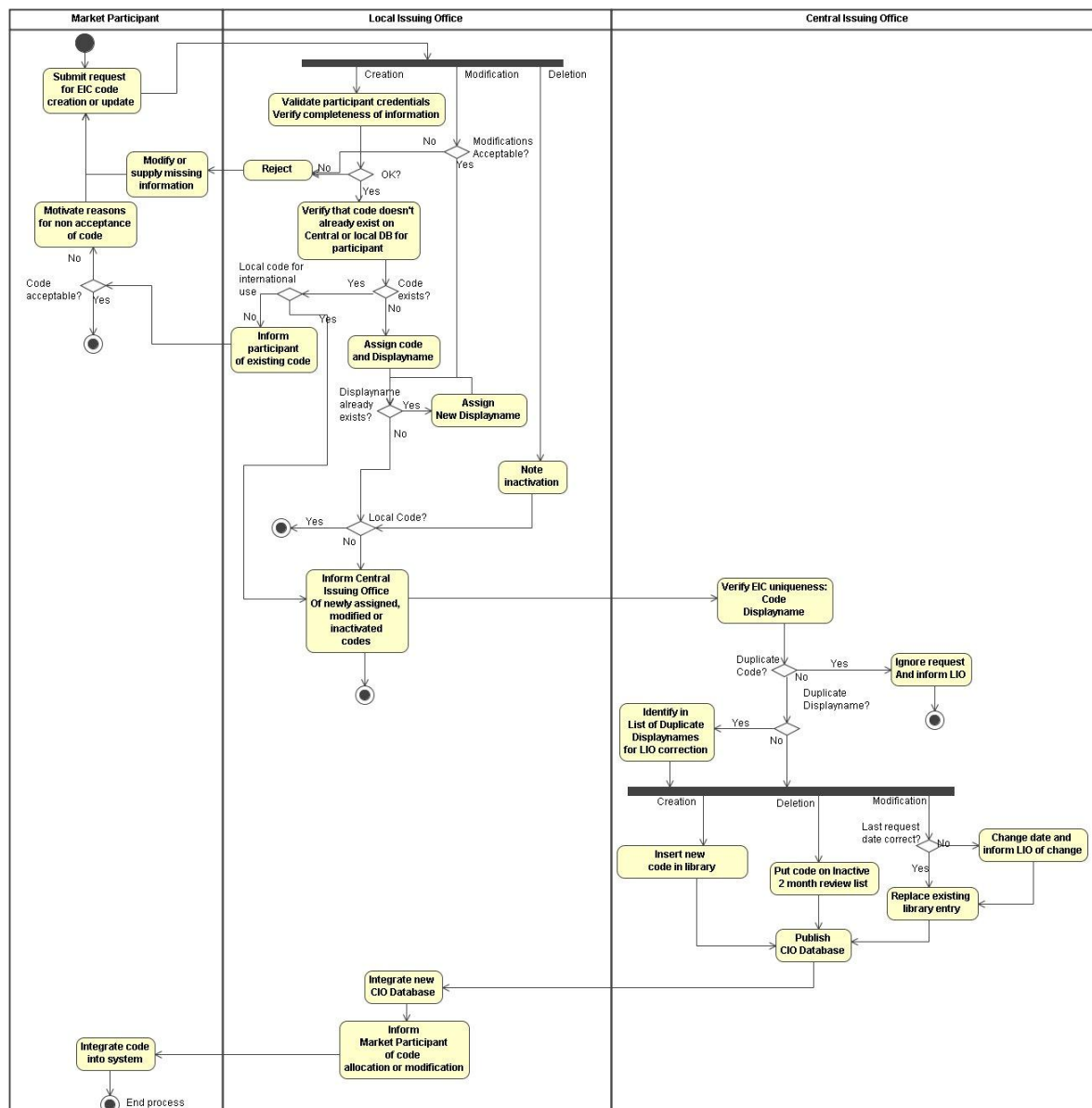
378 To qualify as a Local Issuing Office the applicant must issue an application to the ENTSO-E
379 Secretary General describing (download the form on the ENTSO-E web site):

- 380 ➤ Name and address of the legal body;
- 381 ➤ Documentation of EIC being required either according to the national legislation or
382 market rules or by a majority of the market participants.

383 The ENTSO-E Secretary General will supply the successful applicant by post with a
384 certificate acknowledging his Local Issuing Office status.

385 4 EIC CREATION, DEACTIVATION OR MODIFICATION

386 WORKFLOW



387

388

FIGURE 1: THE EIC PROCESS WORKFLOW

389 The EIC workflow process is divided into three distinct phases:

- 390 ➤ The submission by the Market Participant;
- 391 ➤ The validation, and allocation of an EIC code by the Local Issuing Office in its local
- 392 Registry;
- 393 ➤ In the case of an international EIC code, the verification and integration of the EIC
- 394 code into the central Registry by the Central Issuing Office.

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1. Submission by the Market Participant. A Market Participant may request an EIC code from a Local Issuing office. It is also possible to request that the information associated with the EIC code be modified or that an EIC code may be deactivated. If the request is not acceptable for any reason (code already exists, incorrect Display name, etc.) the Market Participant is informed by the Local Issuing Office and may, if necessary, make a new request.
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2. Validation and allocation by the Local Issuing Office. On reception of a Request for the creation of an EIC code the Local Issuing Office will initially validate the credentials of the requesting Market Participant. If there is any problem the Market Participant will be informed of the problem. In a second phase the Local Issuing Office shall verify in the local and central Registry to ensure that a code doesn't already exist. If a code already exists there are two possibilities:
 - a. The code exists in the local Registry; the Market Participant could be making a request for the code to become an international code. If this is the case then the process continues. However, if this is not the case then the Market Participant is informed of the existing code.
 - b. The code exists in the central Registry in which case the Market Participant is informed of the code's existence.
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- 413
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418
- Where a new code is required, the Local Issuing Office shall assign a Display Name if one has not already been proposed by the Market Participant. The Local Issuing Office then verifies that the Display Name does not already exist either in the local Registry or in the central Registry within the category of the EIC code. In the case where it already exists, the Local Issuing Office either reassigns a new Display Name or requests a new name from the Market Participant.
- 419
420
- For modification or deactivation requests the Local Issuing Office simply verifies that the Display name is not duplicated.
- 421
422
- Once these steps are successfully passed the Local Issuing Office informs the Central Issuing Office of the international EIC code requests.
- 423
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433
3. Verification and integration by the Central Issuing Office of an international EIC code. On reception of an EIC code request, the Central Issuing Office verifies that all the required information is present and that there are no duplicate EIC codes nor are there duplicate Display Names. In the case of duplicate EIC codes the request is ignored and the Local Issuing Office is informed of the rejection. In the case of duplicate Display Names the request is accepted and the Local Issuing Offices are informed of the duplication. This requires immediate action by the Local Issuing Office. Once the verifications successfully carried out the central Registry is updated accordingly. The CIO also ensures that the Requested Date is superior to the Requested date in the central Registry. If not the date is changed to the current date and the LIO is informed of the change.

434 **5 MAINTENANCE AND ORGANISATION**

435 Any coding scheme needs a body to maintain it to ensure that it satisfies market
436 requirements. For the moment ENTSO-E Secretariat will maintain the code's structural
437 definition as long as the group remains in existence.

438 ENTSO-E will provide a central Registry containing all the approved international EIC codes
439 provided by the Local Issuing Offices. All new information provided by the Local Issuing
440 Offices will be integrated into the central Registry once a week.

441 All Local Issuing Offices shall participate in the maintenance process of the central Registry
442 as well as their local Registry.

443 Any proposed changes to the coding scheme must have the consensus of all participating
444 bodies.

445 **5.1 REGISTRY COSTS**

446 ENTSO-E shall maintain a public Registry of the authorised issuing offices that have signed
447 a standard contract with ENTSO-E.

448 ENTSO-E WG-EDI (office number 10) will issue the needed common codes at no cost. Local
449 Issuing Offices may install a cost based fee depending on their market requirements. This
450 fee shall not exceed the local GS1 fee for similar codes.

451 **6 ANNEX 1: THE ENTSO-E CHECK CHARACTER**
452 **ALGORITHM**

453 **6.1 INTRODUCTION**

454 This document outlines the algorithm for verifying the accuracy and validity of the Energy
455 Identification Code. The Energy Identification Code is encoded with a "Check Character". A
456 check character is a character added to the end of the code that validates the authenticity of
457 the code. A simple algorithm is applied to the other digits or letters of the code which yields
458 the check character. By running the algorithm, and comparing the check character you obtain
459 with the check character encoded in the Energy Identification Code, it is possible to verify
460 that the complete identification code has been correctly read and that they make a valid
461 combination. Possible uses for this information:

- 462 ➤ When a user has keyed in an identification code (or scanned it) and you want to
463 validate it before sending it out in a schedule, for example.
- 464 ➤ When issuing codes.

465 **6.2 THE ENERGY IDENTIFICATION CODE**

466 The Energy Identification Code will be based on fixed length alphanumeric codes. The codes
467 will contain information about the Issuing Office as well as information of what kind of object
468 is identified. Parties and areas will be identified with a 16 character alphanumeric code. The
469 last character of the coding scheme represents the check character that is calculated from
470 the other characters using the ENTSO-E algorithm. An example of a party code is
471 11XRWENET12345-2 and an area is 11Y1234567890123.

472 The last character of each of these codes (2, and 3) represents the check characters of the
473 numbers in question.

474 **Calculation of the check character, General algorithm for all codes**

475 **Step 1:**

476 The first 15 characters of the code are individualised as follows

1	1	X	R	W	E	N	E	T	1	2	3	4	5	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

477 **Step 2:**

478 Where alphabetic characters are present, they are replaced by a numeric value as extracted
479 from the following table:

CODE	0	1	2	3	4	5	6	7	8	9
VALUE	0	1	2	3	4	5	6	7	8	9

480

CODE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
VALUE	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

481

CODE	S	T	U	V	W	X	Y	Z	-
VALUE	28	29	30	31	32	33	34	35	36

482 as follows :

1	1	33	27	32	14	23	14	29	1	2	3	4	5	36
----------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	-----------

483 **Step 3:**

484 Then, the positions are again weighted, beginning with the greatest value to the left and
485 ending with a one at the far right.

1	1	33	27	3	1	2	1	2	1	2	3	4	5	3
				2	4	3	4	9						6

486

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
-----------	-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------

487 **Step 4:**

1	1	33	27	32	14	23	14	29	1	2	3	4	5	36
----------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	-----------

488

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
-----------	-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------

489 Each digit is multiplied by its position weight

16	15	462	351	384	154	230	126	232	7	12	15	16	15	72
-----------	-----------	------------	------------	------------	------------	------------	------------	------------	----------	-----------	-----------	-----------	-----------	-----------

490 **Step 5:**

16	15	462	351	384	154	230	126	232	7	12	15	16	15	72
----	----	-----	-----	-----	-----	-----	-----	-----	---	----	----	----	----	----

491 The products are then summed to give a total value: **2107**

492 **Step 6:**

493 Apply a modulo 37 (which corresponds to the total number of characters available) to the
494 value 2107 with the formula $(36 - \text{MOD}((2107-1), 37))$.

495 The result is **2** that, since it is inferior to 10, the check character for the code is the same.
496 Had it been superior to 9 it would have to be converted to a letter using the same mechanism
497 as in Step 2. Thus the code is: 11XRWENET12345-2.

498 **If the check character generated is the “-” character (result of the calculation equal to**
499 **36), one of the characters in the proposed code shall be changed in order to obtain a**
500 **result which does not give a value of 36.**

501 **Strengths**

502 Like any consecutive weighting system, this scheme detects 100% of all single digit errors
503 and all transposition errors. Thus the system would detect that the code 10Z317973010277**Q**
504 was incorrect.

505 The proposed algorithm is very beneficial insofar as it enables the use of the alphabet that
506 significantly expands the potential limit of numbers available for use.

507 **7 ANNEX 2: METERING POINT CODING SCHEME EXAMPLE**

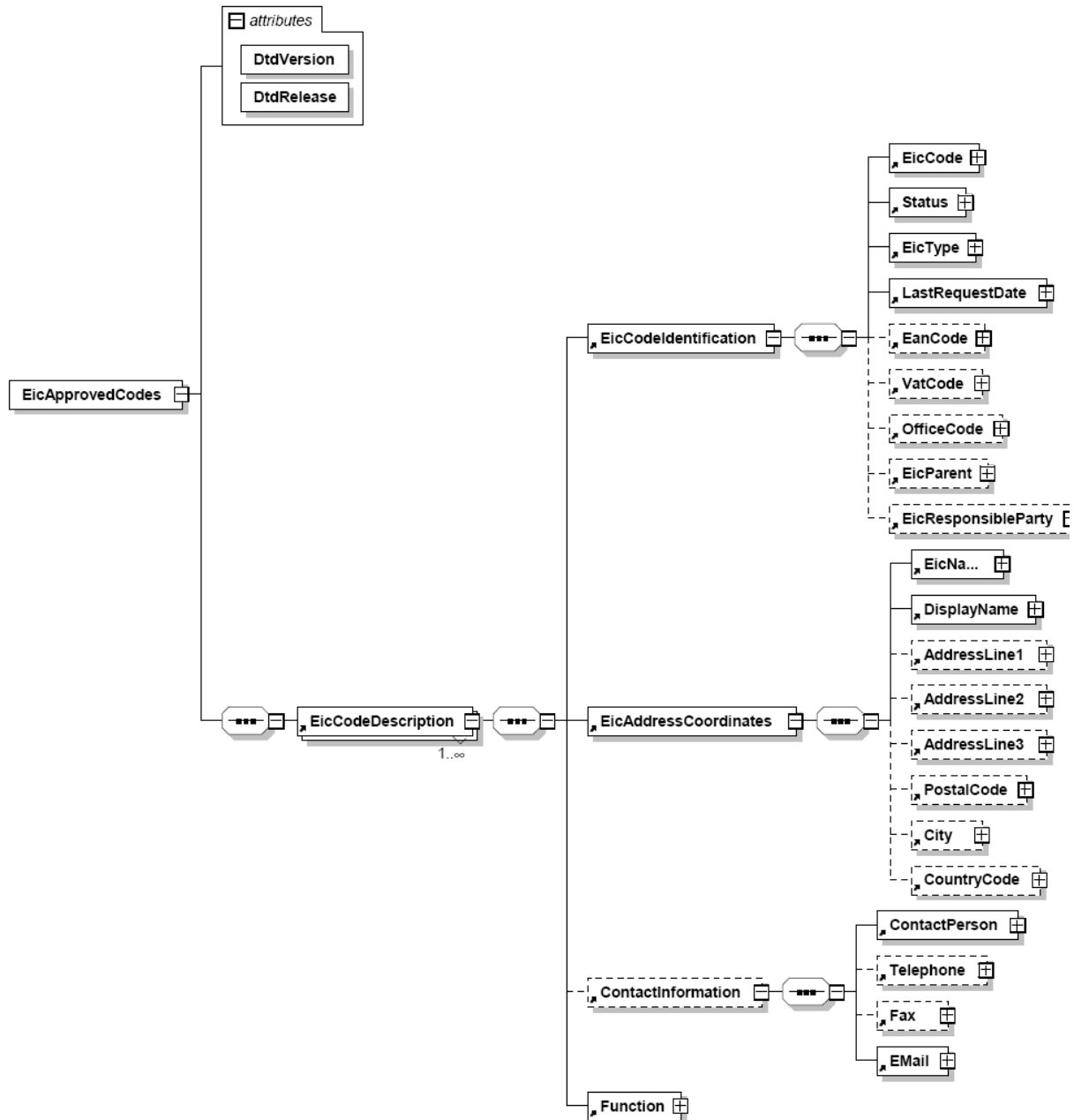
508 Each grid or metering point administrator could obtain a series of codes from the Local
509 Issuing Office to be used for identification:

- 510 ➤ 2-character number for a national issuing office assigned by ENTSO-E;
- 511 ➤ the letter "Z" to identify the fact that this is a metering point code;
- 512 ➤ 12 digits or uppercase characters allocated by the Issuing Office in compliance with
513 general and local rules. For example the code could be split into a part for the
514 distribution operator the rest identifying the metering point;
- 515 ➤ 1 character check character.

516 Example: 20Z123456789012E (national metering point code)

517 **8 ANNEX 3: XML DOCUMENT STRUCTURE FOR EIC CODE**
518 **ALLOCATIONS.**

519 **8.1 XML SCHEMA STRUCTURE**



520

521

FIGURE 2: THE XML SCHEMA MODEL

522 8.2 ELEMENT DEFINITIONS

Data Element	Size	Comments
EicCode	16 characters fixed length	This element must have a valid check character
Status	1 character	<p>The following coded values are permitted:</p> <p>C = Creation</p> <p>U = Update (The information about a code is to be modified. In this context the previous XML entry is entirely replaced by the current entry.)</p> <p>D = Make inactive (The information concerning this code is marked “inactive”. It is not possible to reallocate the same code to another object).</p> <p>R = Reactivate. An already deactivated EIC code is to be reactivated.</p> <p>Two codes exist for the complete file:</p> <p>A = Active, the code is active and valid</p> <p>I = Inactive, the code is inactive and may not be reissued.</p>
EicType	The one character type of the EIC Code	<p>The EIC type may be:</p> <p>Y = area identification</p> <p>X = party identification</p> <p>Z = metering point identification</p> <p>W = Resource Object identification</p> <p>T = Tie-line identification</p> <p>V = Location</p>

Data Element	Size	Comments
LastRequestDate	A date in the format : yyyy-mm-dd	The last request date represents the date of the addition, last modification or deletion to the code. This date shall be modified each time an EIC code is modified or made inactive.
EanCode	Fixed length 13 numeric characters	The GS1 GLN-13 code, if present, must consist of 13 numeric characters. The GS1 code shall only be provided for EIC "X" codes.
VatCode	Variable length 14 alpha-numeric characters	The VAT code generally consists of the 2 character country code followed by a variable length code of 12 alpha-numeric characters. All blanks, or presentation separators should be stripped from the code. The VAT code shall only be provided for EIC "X" codes.
OfficeCode	2 characters	The central issuing office may only assign this code. The element shall always be blank for Local Issuing Office transmissions.
EicParent	16 character fixed length	This code is a valid EIC code that must exist in the code list. It represents the root identification of a series of dependant EIC codes.
EicResponsibleParty	16 character fixed length	This code is a valid EIC code that must exist in the code list. It represents the party that is responsible for a domain (for example, a TSO is responsible for a balance area). This is mandatory for type "V" Location codes.
EicName	70 characters variable length alpha-numeric	The name of the party, area or metering point. Special language specific characters should be avoided if standard Latin characters can be used.

Data Element	Size	Comments
DisplayName	16 character variable length alpha-numeric field	The permitted letters are the uppercase characters "A" to "Z", the minus sign "-", the plus sign "+", the underscore sign "_" or the numeric values "0" to "9". Each Display name assigned must be unique within each EIC code category ("T" "W", "X", "Y" and "Z", etc.)
AddressLine1, AddressLine2, AddressLine3	Each address line is variable length 70 alpha-numeric characters	
PostalCode	Variable length 10 alpha-numeric characters	
City	Variable length 35 alpha-numeric characters	
CountryCode	2 uppercase alphabetic characters	The 2 character code shall respect ISO 3166 2 character code identifications
ContactPerson for EDI matters	Variable length 70 alpha-numeric characters	
Telephone	Variable length 35 numeric characters	
Fax	Variable length 35 numeric characters	
EMail	Variable length 70 alpha-numeric characters	

Data Element	Size	Comments																													
Function	Extract one or several values from the list provided. Each function shall be separated by a comma (,).	<table border="1"> <thead> <tr> <th data-bbox="746 374 1240 421">Role name</th> </tr> </thead> <tbody> <tr><td data-bbox="746 421 1240 461">Balance group</td></tr> <tr><td data-bbox="746 461 1240 501">Balance responsible party</td></tr> <tr><td data-bbox="746 501 1240 542">Balance supplier</td></tr> <tr><td data-bbox="746 542 1240 582">Capacity trader</td></tr> <tr><td data-bbox="746 582 1240 622">Consumer</td></tr> <tr><td data-bbox="746 622 1240 663">Consumption responsible party</td></tr> <tr><td data-bbox="746 663 1240 703">Coordinating Scheduler</td></tr> <tr><td data-bbox="746 703 1240 743">Grid access provider</td></tr> <tr><td data-bbox="746 743 1240 784">Grid operator</td></tr> <tr><td data-bbox="746 784 1240 824">Imbalance settlement responsible</td></tr> <tr><td data-bbox="746 824 1240 864">Information Provider</td></tr> <tr><td data-bbox="746 864 1240 904">Interconnection trade responsible</td></tr> <tr><td data-bbox="746 904 1240 945">Market operator</td></tr> <tr><td data-bbox="746 945 1240 985">Meter administrator</td></tr> <tr><td data-bbox="746 985 1240 1025">Meter operator</td></tr> <tr><td data-bbox="746 1025 1240 1066">Metered data aggregator</td></tr> <tr><td data-bbox="746 1066 1240 1106">Metered data collector</td></tr> <tr><td data-bbox="746 1106 1240 1146">Metered data responsible</td></tr> <tr><td data-bbox="746 1146 1240 1187">Metering point administrator</td></tr> <tr><td data-bbox="746 1187 1240 1227">Nomination Validator</td></tr> <tr><td data-bbox="746 1227 1240 1267">Party connected to grid</td></tr> <tr><td data-bbox="746 1267 1240 1308">Producer</td></tr> <tr><td data-bbox="746 1308 1240 1348">Production responsible party</td></tr> <tr><td data-bbox="746 1348 1240 1388">Profile maintenance party</td></tr> <tr><td data-bbox="746 1388 1240 1429">Resource Provider</td></tr> <tr><td data-bbox="746 1429 1240 1469">System operator</td></tr> <tr><td data-bbox="746 1469 1240 1509">Trade responsible party</td></tr> <tr><td data-bbox="746 1509 1240 1550">Transmission capacity allocator</td></tr> </tbody> </table>	Role name	Balance group	Balance responsible party	Balance supplier	Capacity trader	Consumer	Consumption responsible party	Coordinating Scheduler	Grid access provider	Grid operator	Imbalance settlement responsible	Information Provider	Interconnection trade responsible	Market operator	Meter administrator	Meter operator	Metered data aggregator	Metered data collector	Metered data responsible	Metering point administrator	Nomination Validator	Party connected to grid	Producer	Production responsible party	Profile maintenance party	Resource Provider	System operator	Trade responsible party	Transmission capacity allocator
Role name																															
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Market operator																															
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Meter operator																															
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Metered data responsible																															
Metering point administrator																															
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Party connected to grid																															
Producer																															
Production responsible party																															
Profile maintenance party																															
Resource Provider																															
System operator																															
Trade responsible party																															
Transmission capacity allocator																															

524 8.3 XML SCHEMA

```

525 <?xml version="1.0" encoding="UTF-8"?>
526 <xsd:schema xmlns:ecc="etso-core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
527 elementFormDefault="qualified" attributeFormDefault="unqualified" ecc:VersionRelease="6.0">
528   <xsd:import namespace="etso-core-cmpts.xsd" schemaLocation="etso-core-cmpts.xsd"/>
529   <!--
530           ETSO Document Automatically generated from a UML class diagram using XML.
531           Generation tool version 1.7
532   -->
533   <xsd:element name="EicApprovedCodes">
534     <xsd:complexType>
535       <xsd:annotation>
536         <xsd:documentation/>
537       </xsd:annotation>
538       <xsd:sequence>
539         <xsd:element name="EicCodeDescription" type="EicCodeDescription_Type"
540 maxOccurs="unbounded"/>
541       </xsd:sequence>
542       <xsd:attribute name="DtdVersion" type="xsd:string" use="required"/>
543       <xsd:attribute name="DtdRelease" type="xsd:string" use="required"/>
544     </xsd:complexType>
545   </xsd:element>
546   <xsd:complexType name="EicCodeDescription_Type">
547     <xsd:annotation>
548       <xsd:documentation/>
549     </xsd:annotation>
550     <xsd:sequence>
551       <xsd:element name="EicCodeIdentification" type="EicCodeIdentification_Type"/>
552       <xsd:element name="EicAddressCoordinates" type="EicAddressCoordinates_Type"/>
553       <xsd:element name="ContactInformation" type="ContactInformation_Type" minOccurs="0"/>
554       <xsd:element name="Function" type="ecc:TextType">
555         <xsd:annotation>
556           <xsd:documentation/>
557         </xsd:annotation>
558       </xsd:element>
559     </xsd:sequence>
560   </xsd:complexType>
561   <xsd:complexType name="EicAddressCoordinates_Type">
562     <xsd:annotation>
563       <xsd:documentation/>
564     </xsd:annotation>
565     <xsd:sequence>
566       <xsd:element name="EicName" type="ecc:IdentificationType">
567         <xsd:annotation>
568           <xsd:documentation/>
569         </xsd:annotation>
570       </xsd:element>
571       <xsd:element name="DisplayName" type="ecc:IdentificationType">
572         <xsd:annotation>
573           <xsd:documentation/>
574         </xsd:annotation>
575       </xsd:element>
576       <xsd:element name="AddressLine1" type="ecc:TextType" minOccurs="0">
577         <xsd:annotation>
578           <xsd:documentation/>
579         </xsd:annotation>
580       </xsd:element>
581       <xsd:element name="AddressLine2" type="ecc:TextType" minOccurs="0">
582         <xsd:annotation>
583           <xsd:documentation/>
584         </xsd:annotation>
585       </xsd:element>
586       <xsd:element name="AddressLine3" type="ecc:TextType" minOccurs="0">
587         <xsd:annotation>
588           <xsd:documentation/>
589         </xsd:annotation>
590       </xsd:element>
591       <xsd:element name="PostalCode" type="ecc:CodeType" minOccurs="0">
592         <xsd:annotation>

```

```

593         <xsd:documentation/>
594     </xsd:annotation>
595 </xsd:element>
596 <xsd:element name="City" type="ecc:TextType" minOccurs="0">
597     <xsd:annotation>
598         <xsd:documentation/>
599     </xsd:annotation>
600 </xsd:element>
601 <xsd:element name="CountryCode" type="ecc:CodeType" minOccurs="0">
602     <xsd:annotation>
603         <xsd:documentation/>
604     </xsd:annotation>
605 </xsd:element>
606 </xsd:sequence>
607 </xsd:complexType>
608 <xsd:complexType name="ContactInformation_Type">
609     <xsd:annotation>
610         <xsd:documentation/>
611     </xsd:annotation>
612     <xsd:sequence>
613         <xsd:element name="ContactPerson" type="ecc:TextType">
614             <xsd:annotation>
615                 <xsd:documentation/>
616             </xsd:annotation>
617         </xsd:element>
618         <xsd:element name="Telephone" type="ecc:TextType" minOccurs="0">
619             <xsd:annotation>
620                 <xsd:documentation/>
621             </xsd:annotation>
622         </xsd:element>
623         <xsd:element name="Fax" type="ecc:TextType" minOccurs="0">
624             <xsd:annotation>
625                 <xsd:documentation/>
626             </xsd:annotation>
627         </xsd:element>
628         <xsd:element name="EMail" type="ecc:TextType">
629             <xsd:annotation>
630                 <xsd:documentation/>
631             </xsd:annotation>
632         </xsd:element>
633     </xsd:sequence>
634 </xsd:complexType>
635 <xsd:complexType name="EicCodeIdentification_Type">
636     <xsd:annotation>
637         <xsd:documentation/>
638     </xsd:annotation>
639     <xsd:sequence>
640         <xsd:element name="EicCode" type="ecc:IdentificationType">
641             <xsd:annotation>
642                 <xsd:documentation/>
643             </xsd:annotation>
644         </xsd:element>
645         <xsd:element name="Status" type="ecc:EicStatusType">
646             <xsd:annotation>
647                 <xsd:documentation/>
648             </xsd:annotation>
649         </xsd:element>
650         <xsd:element name="EicType" type="ecc:EicType">
651             <xsd:annotation>
652                 <xsd:documentation/>
653             </xsd:annotation>
654         </xsd:element>
655         <xsd:element name="LastRequestDate" type="ecc:MessageDateTimeType">
656             <xsd:annotation>
657                 <xsd:documentation/>
658             </xsd:annotation>
659         </xsd:element>
660         <xsd:element name="EanCode" type="ecc:IdentificationType" minOccurs="0">
661             <xsd:annotation>
662                 <xsd:documentation/>
663             </xsd:annotation>

```

```

664         </xsd:element>
665         <xsd:element name="VatCode" type="ecc:IdentificationType" minOccurs="0">
666             <xsd:annotation>
667                 <xsd:documentation/>
668             </xsd:annotation>
669         </xsd:element>
670         <xsd:element name="OfficeCode" type="ecc:IdentificationType" minOccurs="0">
671             <xsd:annotation>
672                 <xsd:documentation/>
673             </xsd:annotation>
674         </xsd:element>
675         <xsd:element name="EicParent" type="ecc:IdentificationType" minOccurs="0">
676             <xsd:annotation>
677                 <xsd:documentation/>
678             </xsd:annotation>
679         </xsd:element>
680         <xsd:element name="EicResponsibleParty" type="ecc:IdentificationType" minOccurs="0">
681             <xsd:annotation>
682                 <xsd:documentation/>
683             </xsd:annotation>
684         </xsd:element>
685     </xsd:sequence>
686 </xsd:complexType>
687 </xsd:schema>
    
```

688 8.4 BASIC GROUND RULES

- 689 1. The character “&” should be avoided wherever possible. This character is used as an
690 escape character by XML processors. If such a character is required then the string
691 “&” should be used in the place of the “&” character alone.
- 692 2. All file extensions should be “.xml”.
- 693 3. The file character set content shall always be “UTF-8”.
- 694 4. The same Display Name is not allowed for different EIC codes within a category.

695 8.5 HOW TO VERIFY AN EIC CODE REQUEST

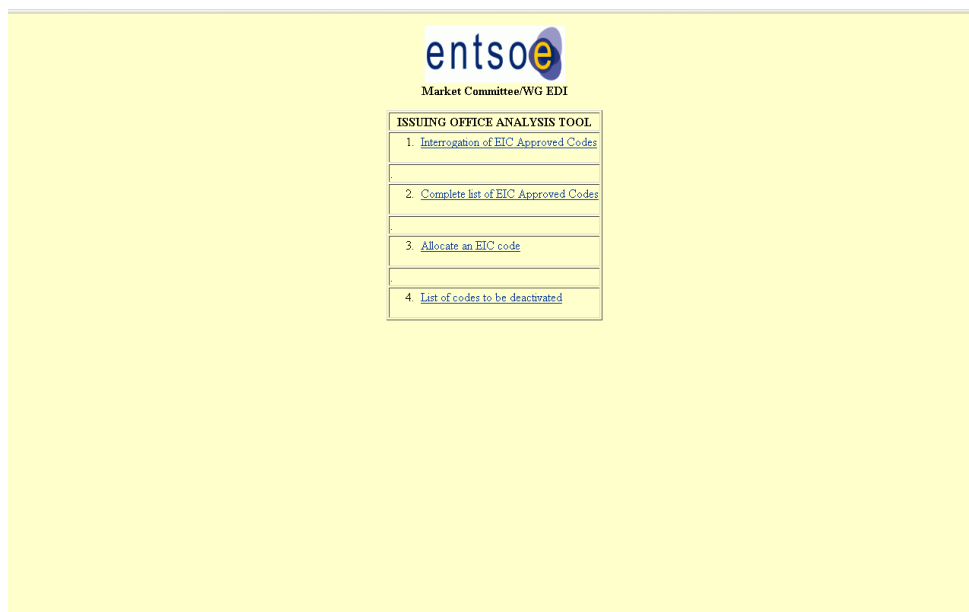
- 696 1. Interrogate approved EIC code list with display name to verify if it already exists.
- 697 2. Interrogate with EAN code to verify duplicate EIC code creations.
- 698 3. Interrogate with VAT code to verify duplicate EIC code creations.
- 699 4. If duplicate codes then request justification for duplicate code.
- 700 5. If duplicate display names for different entities then change display name.

701 8.6 CIO OUTPUT TO THE ISSUING OFFICES

702 After every update of the list of EIC codes the CIO will provide a file that will contain the
703 following:

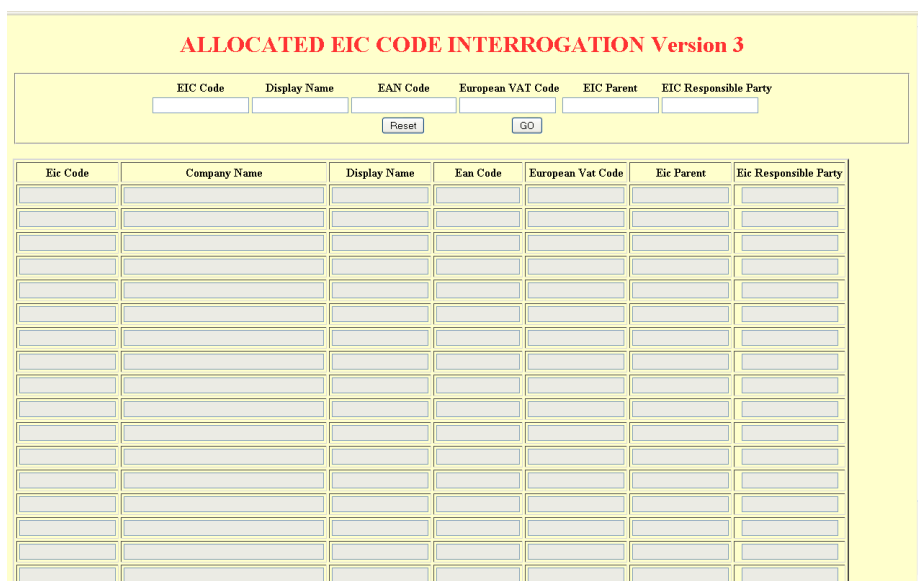
- 704 ➤ eic-approved-codes.xsd – the Schema document structure;
- 705 ➤ eic-approved-codes.xsl – a transformation tool enabling the list of all EIC codes in the
706 code list;

- 707 ➤ eic-approved-codes-xsd.xml – the XML file in compliance with the Schema of all
- 708 approved EIC codes.
- 709 ➤ Issuing-office.html – the base starter file that enables the EIC code list tools to be
- 710 used (See figure 3).



711
712 Figure 3: The Issuing Office Analysis html form

- 713 ➤ eic-approved-code-interrogation.htm – an Interrogation tool of the XML file enabling
- 714 an interrogation by EIC, EAN, VAT, Parent EIC or EIC Responsible Party(see figure
- 715 4).



716
717 Figure 4: The Issuing Office EIC interrogation form

- 718 ➤ allocate-eic-code.htm – a tool to permit the controlled capture of an EIC code. The
- 719 form enables an XML compliant file to be sent to the CIO. (See figure 5).

720

721

Figure 5: The Issuing Office EIC data capture form

722 Each Issuing Office will have a complete copy of the approved EIC codes. This includes all
723 the information relative to the address and contact information. Such detailed information will
724 not be provided on the website. It is up to each Issuing Office to correctly manage this
725 information.

726 8.7 COMPLETING EIC INFORMATION FOR TRANSMISSION TO THE CIO

727 The “Allocate an EIC code” function can be used to prepare an XML document containing
728 the approved EIC code information for transmission to the Central registry.

729 The form is as shown in figure 5. A number of zones are considered mandatory and have
730 been indicated by an asterisk in red. When the send key is hit, the information captured on
731 the form will be verified for coherence.

732 The following information is verified:

- 733 1. The length of each element.
- 734 2. The display name contains alphanumeric characters or a hyphen (“-”). Any lower
735 case letters will automatically be converted to uppercase.
- 736 3. All the mandatory elements are filled with information (EIC Name, Display name,
737 Address line 1, City, Postal code, Country (selected from the drop down menu),
738 contact name, E-Mail, Function, Original request date, EIC code and Transaction
739 Type (selected from a drop down menu).
- 740 4. The check character provided for the EIC code.
- 741 5. The check character provided for the GS1 code, if one is provided.

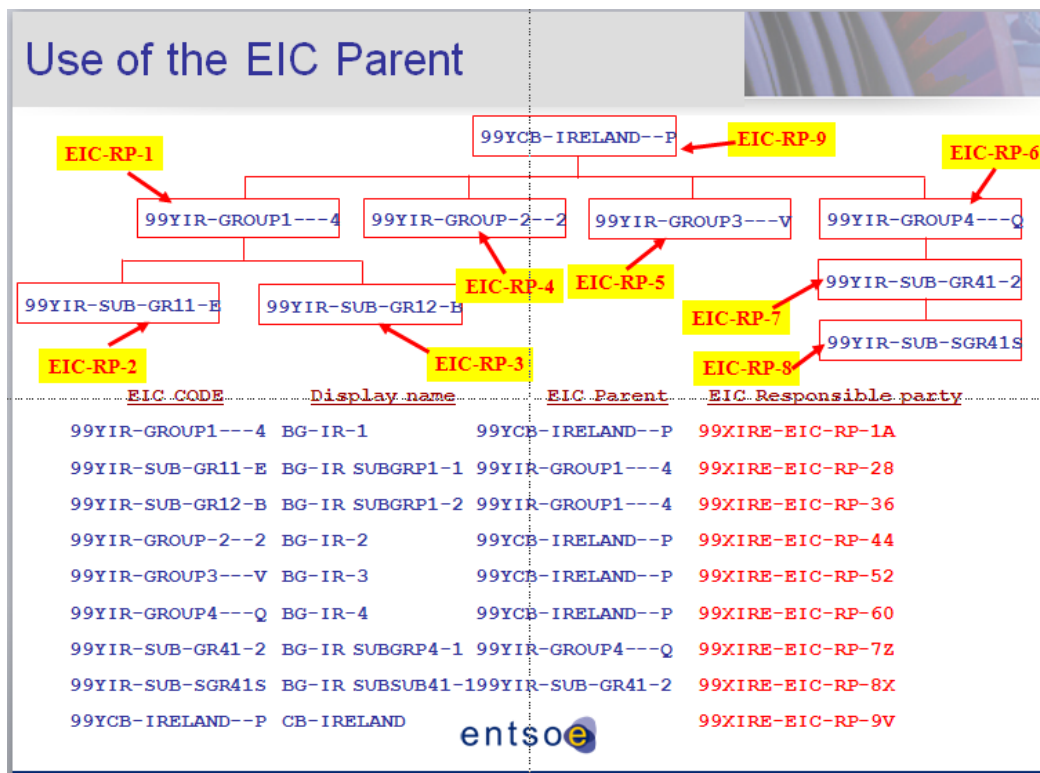
742 **8.8 ETSO WEBSITE CONTENT**

743 The ENTSO-E CIO website will be updated with a subset of the approved code list and will
744 contain the following information:

- 745 ➤ EIC code
- 746 ➤ EIC type
- 747 ➤ EAN code
- 748 ➤ VAT code
- 749 ➤ EIC Parent
- 750 ➤ EIC Responsible Party
- 751 ➤ Update Status
- 752 ➤ EIC name
- 753 ➤ Display name
- 754 ➤ Function
- 755 ➤ Office code

756 **9 ANNEX 4: USE OF THE EIC PARENT**

757 The EIC parent allows an issuing office to define a hierarchy of parties, units or areas. It is
758 simply necessary to place the EIC code of the parent entity in the EIC parent field of the child
759 object to create the relationship parent-child between the two codes. Refer to figure 6 for an
760 example of its use.



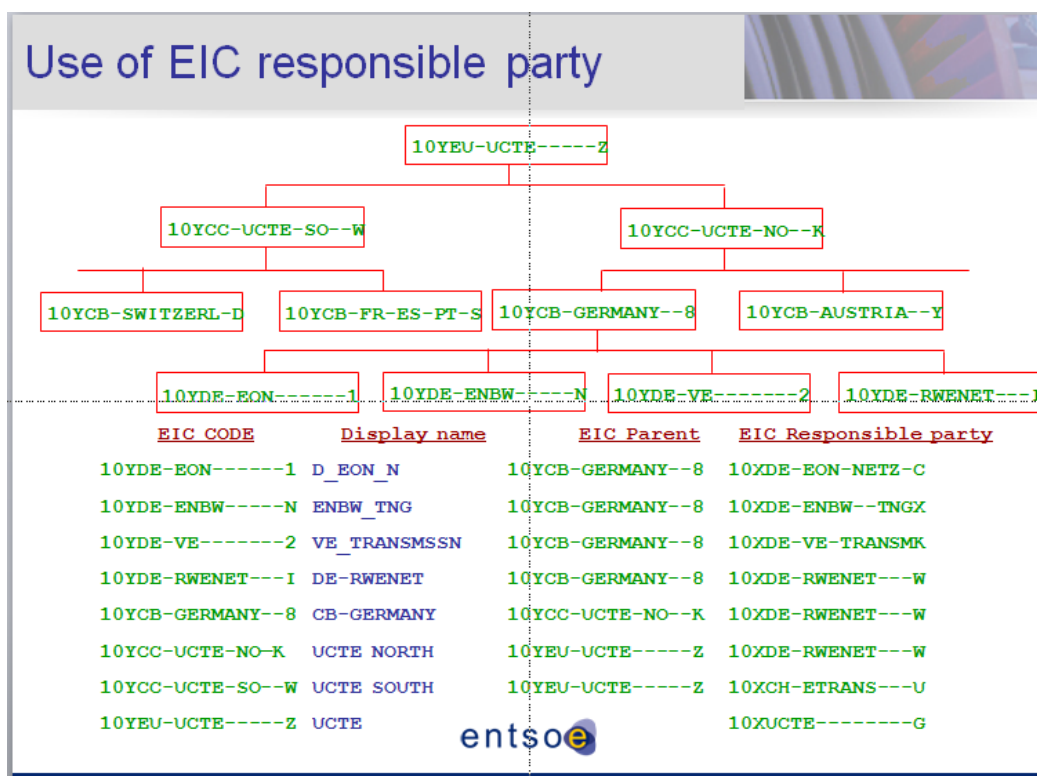
761

762

FIGURE 6: EIC PARENT USE

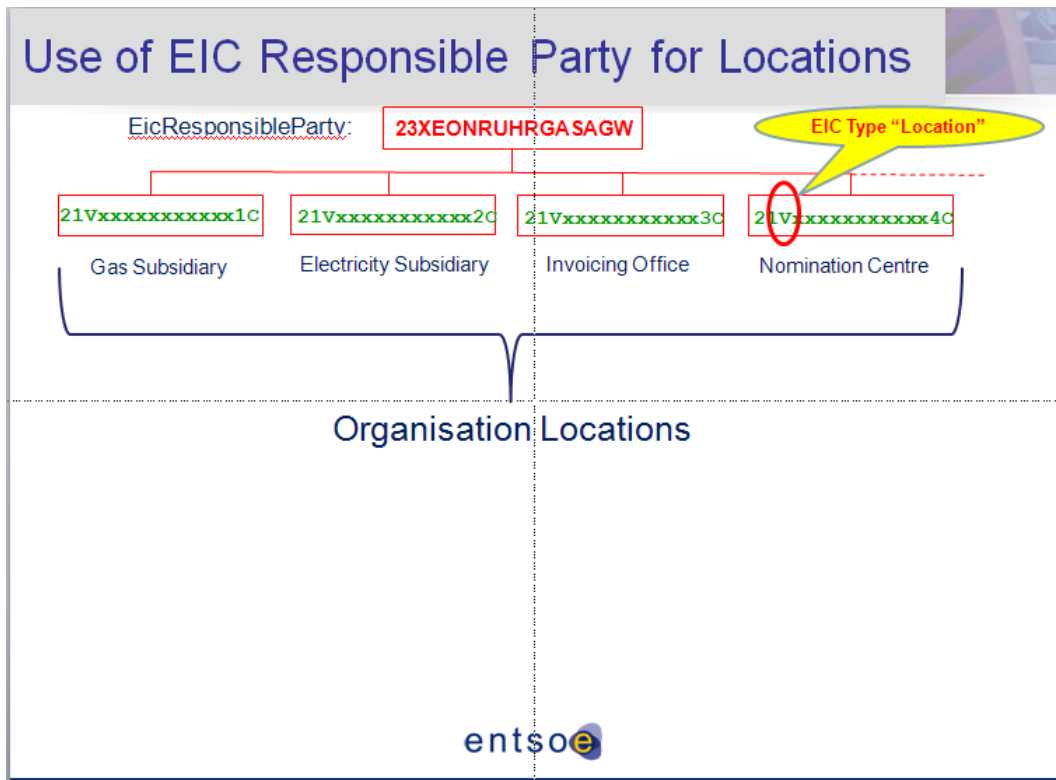
763 **10 ANNEX 5: USE OF THE EIC RESPONSIBLE PARTY**

764 In the case where domains, such as balance groups or balance areas, are defined it is useful
765 to provide the identification of the party responsible for its management. This function is only
766 possible with “V”, “Y”, “W” or “Z” EIC typed codes. In order to identify the party responsible
767 for a domain for example, it is sufficient to enter the EIC party (“X”) code in the Eic
768 ResponsibleParty field. Figure 7 shows an example of its use.



769
770 **FIGURE 7: EIC RESPONSIBLE PARTY USE**

771 In the case of Location (“V”) codes it is required to enter the identification of the organization
772 that is responsible for the Location in the EIC Responsible Party field. Figure 8 shows an
773 example of its use.



774

775

FIGURE 8: EIC RESPONSIBLE PARTY FOR LOCATIONS