



European Network of
Transmission System Operators
for Electricity

IMPACT ASSESSMENT MATRIX PROFILE SPECIFICATION

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SOC APPROVED
VERSION 2.0

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23 absolute prohibition of the specification.
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30 before implementing any behaviour described with this label.
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32

33

Revision History

Version	Release	Date	Paragraph	Comments
1	0	2021-03-22		Document for SOC approval
2	0	2022-02-16		For CIM EG review. No major update. Due to update of the extensions some elements are updated. Approved by SOC.

34	CONTENTS		
35	Copyright notice:.....		2
36	Revision History.....		3
37	CONTENTS		4
38	1 Introduction		6
39	2 Application profile specification		6
40	2.1 Version information		6
41	2.2 Constraints naming convention		6
42	2.3 Profile constraints		7
43	2.4 Metadata.....		9
44	2.4.1 Constraints		9
45	2.4.2 Reference metadata		9
46	3 Detailed Profile Specification		10
47	3.1 General.....		10
48	3.2 (NC) CalculationBasedImpactAssessmentMatrix		11
49	3.3 (NC) CoordinatedImpactAssessmentMatrix		11
50	3.4 (abstract) IdentifiedObject root class		12
51	3.5 (abstract,NC) ImpactAssessmentMatrix.....		12
52	3.6 (NC) ListBasedImpactAssessmentMatrix		12
53	3.7 (NC) OutcomeValue root class		12
54	3.8 (abstract,NC) RemedialAction		13
55	3.9 (abstract,NC) RemedialActionSchedule.....		13
56	3.10 (abstract,NC) SystemOperator root class		13
57	3.11 (NC) OutcomeImpactAssessmentKind enumeration		14
58	3.12 Date primitive.....		14
59	3.13 DateTime primitive		14
60	3.14 String primitive.....		14
61	Annex A (informative): Sample data		15
62	A.1 General.....		15
63	A.2 Sample instance data.....		15
64			
65	List of figures		
66	Figure 1 – Class diagram		
67	ImpactAssessmentMatrixProfile::ImpactAssessmentMatrixProfile		10
68	Figure 2 – Class diagram		
69	ImpactAssessmentMatrixProfile::ImpactAssessmentMatrixDatatypes		11
70			
71	List of tables		
72	Table 1 – Attributes of		
73	ImpactAssessmentMatrixProfile::CalculationBasedImpactAssessmentMatrix		11
74	Table 2 – Attributes of		
75	ImpactAssessmentMatrixProfile::CoordinatedImpactAssessmentMatrix		11

76	Table 3 – Attributes of ImpactAssessmentMatrixProfile::IdentifiedObject	12
77	Table 4 – Attributes of ImpactAssessmentMatrixProfile::ImpactAssessmentMatrix	12
78	Table 5 – Attributes of	
79	ImpactAssessmentMatrixProfile::ListBasedImpactAssessmentMatrix	12
80	Table 6 – Attributes of ImpactAssessmentMatrixProfile::OutcomeValue	13
81	Table 7 – Association ends of ImpactAssessmentMatrixProfile::OutcomeValue with	
82	other classes	13
83	Table 8 – Attributes of ImpactAssessmentMatrixProfile::RemedialAction.....	13
84	Table 9 – Attributes of ImpactAssessmentMatrixProfile::RemedialActionSchedule	13
85	Table 10 – Literals of ImpactAssessmentMatrixProfile::OutcomeImpactAssessmentKind	14
86		

87 1 Introduction

88 The impact assessment matrix profile is a profile to exchange impact assessment matrices that
89 are needed within the process.

90 The impact assessment matrix is an output of the impact assessment done on proposed
91 remedial actions.

92 Three impact assessment matrices can be exchanged: list-based impact assessment matrix,
93 calculation-based impact assessment matrix and coordination impact assessment matrix. The
94 coordination impact assessment matrix aggregates or considers the information from other two
95 impact assessment matrices. The connecting TSO matrix is not explicitly exchanged as it can
96 be derived from the available remedial action data exchange.

97 2 Application profile specification

98 2.1 Version information

99 The content is generated from UML model file CGMES30v25_501-20v01_HeaderMetaData-
100 10v08_NC20v70.eap.

101 This edition is based on the IEC 61970 UML version 'IEC61970CIM17v40', dated '2020-08-24'.

- 102 - Title: Impact Assessment Matrix Vocabulary
- 103 - Keyword: IAM
- 104 - Description: This vocabulary is describing the impact assessment matrix profile.
- 105 - Version IRI: <http://entsoe.eu/ns/CIM/ImpactAssessmentMatrix-EU/2.0>
- 106 - Version info: 2.0.0
- 107 - Prior version: <http://entsoe.eu/ns/CIM/ImpactAssessmentMatrix-EU/1.0>
- 108 - Conforms to: <urn:iso:std:iec:61970-600-2:ed-1>|<urn:iso:std:iec:61970-301:ed-7:amd1>|file:///iec61970cim17v40_iec61968cim13v13a_iec62325cim03v17a.eap|<urn:iso:std:iec:61970-401:draft:ed-1>|<urn:iso:std:iec:61970-501:draft:ed-2>|file:///CGMES-30v25_501-20v01.eap
- 112 - Identifier: <urn:uuid:1eb41c0b-3c58-4762-a79b-33220d051d32>

113

114 2.2 Constraints naming convention

115 The naming of the rules shall not be used for machine processing. The rule names are just a
116 string. The naming convention of the constraints is as follows.

117 "{rule.Type}:{rule.Standard}:{rule.Profile}:{rule.Property}:{rule.Name}"

118 where

119 rule.Type: C – for constraint; R – for requirement

120 rule.Standard: the number of the standard e.g. 301 for 61970-301, 456 for 61970-456, 13 for
121 61968-13. 61970-600 specific constraints refer to 600 although they are related to one or
122 combination of the 61970-450 series profiles. For NC profiles, NC is used.

123 rule.Profile: the abbreviation of the profile, e.g. TP for Topology profile. If set to "ALL" the
124 constraint is applicable to all IEC 61970-600 profiles.

125 rule.Property: for UML classes, the name of the class, for attributes and associations, the name
126 of the class and attribute or association end, e.g. EnergyConsumer, IdentifiedObject.name, etc.
127 If set to "NA" the property is not applicable to a specific UML element.

128 rule.Name: the name of the rule. It is unique for the same property.

129 Example: C:600:ALL:IdentifiedObject.name:stringLength

130 2.3 Profile constraints

131 This clause defines requirements and constraints that shall be fulfilled by applications that
132 conform to this document.

133 This document is the master for rules and constraints tagged "NC". For the sake of self-
134 containment, the list below also includes a copy of the relevant rules from IEC 61970-452,
135 tagged "452".

- 136 • C:452:ALL:NA:datatypes

137 According to 61970-501, datatypes are not exchanged in the instance data. The
138 UnitMultiplier is 1 in cases none value is specified in the profile.

- 139 • R:452:ALL:NA:exchange

140 Optional and required attributes and associations must be imported and exported if they
141 are in the model file prior to import.

- 142 • R:452:ALL:NA:exchange1

143 If an optional attribute does not exist in the imported file, it does not have to be exported
144 in case exactly the same data set is exported, i.e. the tool is not obliged to automatically
145 provide this attribute. If the export is resulting from an action by the user performed after
146 the import, e.g. data processing or model update the export can contain optional
147 attributes.

- 148 • R:452:ALL:NA:exchange2

149 In most of the profiles the selection of optional and required attributes is made so as to
150 ensure a minimum set of required attributes without which the exchange does not fulfil
151 its basic purpose. Business processes governing different exchanges can require
152 mandatory exchange of certain optional attributes or associations. Optional and required
153 attributes and associations shall therefore be supported by applications which claim
154 conformance with certain functionalities of the IEC 61970-452. This provides flexibility
155 for the business processes to adapt to different business requirements and base the
156 exchanges on IEC 61970-452 compliant applications.

- 157 • R:452:ALL:NA:exchange3

158 An exporter may, at his or her discretion, produce a serialization containing additional
159 class data described by the CIM Schema but not required by this document provided
160 these data adhere to the conventions established in Clause 5.

- 161 • R:452:ALL:NA:exchange4

162 From the standpoint of the model import used by a data recipient, the document
163 describes a subset of the CIM that importing software shall be able to interpret in order
164 to import exported models. Data providers are free to exceed the minimum requirements
165 described herein as long as their resulting data files are compliant with the CIM Schema
166 and the conventions established in Clause 5. The document, therefore, describes
167 additional classes and class data that, although not required, exporters will, in all

- 168 likelihood, choose to include in their data files. The additional classes and data are
169 labelled as required (cardinality 1..1) or as optional (cardinality 0..1) to distinguish them
170 from their required counterparts. Please note, however, that data importers could
171 potentially receive data containing instances of any and all classes described by the
172 CIM Schema.
- 173 • R:452:ALL:NA:cardinality
- 174 The cardinality defined in the CIM model shall be followed, unless a more restrictive
175 cardinality is explicitly defined in this document. For instance, the cardinality on the
176 association between VoltageLevel and BaseVoltage indicates that a VoltageLevel shall
177 be associated with one and only one BaseVoltage, but a BaseVoltage can be associated
178 with zero to many VoltageLevels.
- 179 • R:452:ALL:NA:associations
- 180 Associations between classes referenced in this document and classes not referenced
181 here are not required regardless of cardinality.
- 182 • R:452:ALL:IdentifiedObject.name:rule
- 183 The attribute “name” inherited by many classes from the abstract class IdentifiedObject
184 is not required to be unique. It must be a human readable identifier without additional
185 embedded information that would need to be parsed. The attribute is used for purposes
186 such as User Interface and data exchange debugging. The MRID defined in the data
187 exchange format is the only unique and persistent identifier used for this data exchange.
188 The attribute IdentifiedObject.name is, however, always required for CoreEquipment
189 profile and Short Circuit profile.
- 190 • R:452:ALL:IdentifiedObject.description:rule
- 191 The attribute “description” inherited by many classes from the abstract class
192 IdentifiedObject must contain human readable text without additional embedded
193 information that would need to be parsed.
- 194 • R:452:ALL:NA:uniqueIdentifier
- 195 All IdentifiedObject-s shall have a persistent and globally unique identifier (Master
196 Resource Identifier - mRID).
- 197 • R:452:ALL:NA:unitMultiplier
- 198 For exchange of attributes defined using CIM Data Types (ActivePower, Susceptance,
199 etc.) a unit multiplier of 1 is used if the UnitMultiplier specified in this document is “none”.
- 200 • C:452:ALL:IdentifiedObject.name:stringLength
- 201 The string IdentifiedObject.name has a maximum of 128 characters.
- 202 • C:452:ALL:IdentifiedObject.description:stringLength
- 203 The string IdentifiedObject.description is maximum 256 characters.
- 204 • C:452:ALL:NA:float
- 205 An attribute that is defined as float (e.g. has a type Float or a type which is a Datatype
206 with .value attribute of type Float) shall support ISO/IEC 60559:2020 for floating-point
207 arithmetic using single precision floating point. A single precision float supports 7
208 significant digits where the significant digits are described as an integer, or a decimal

209 number with 6 decimal digits. Two float values are equal when the significant with 7
210 digits are identical, e.g. 1234567 is equal 1.234567E6 and so are 1.2345678 and
211 1.234567E0.

212 • R:NC:ALL:Region:reference

213 The reference to the Region is normally a reference to the capacity calculation region,
214 which is identified by “Y” EIC code of the capacity calculation region.

215 • R:NC:ALL:SystemOperator:reference

216 The reference to the System Operator is normally identified by “X” EIC code of TSO.

217 • C:NC:IAM:OutcomeValue.RemedialAction:listBasedImpactAssessmentMatrix

218 For a ListBasedImpactAssessmentMatrix, the multiplicity of the association end
219 OutcomeValue.RemedialAction is restricted to 1. In this case, the association
220 OutcomeValue.RemedialActionSchedule shall not be exchanged.

221 • C:NC:IAM:OutcomeValue.RemedialActionSchedule:calculationBasedImpactAssessme
222 ntMatrix

223 For a CalculationBasedImpactAssessmentMatrix, the multiplicity of the association end
224 OutcomeValue.RemedialActionSchedule is restricted to 1. In this case, the association
225 OutcomeValue.RemedialAction shall not be exchanged.

226 • C:NC:IAM:CoordinatedImpactAssessmentMatrix:outcomeValue

227 For a CalculationBasedImpactAssessmentMatrix, an OutcomeValue shall be associated
228 with either OutcomeValue.RemedialAction or OutcomeValue.RemedialActionSchedule.

229 2.4 Metadata

230 ENTSO-E agreed to extend the header and metadata definitions by IEC 61970-552 Ed2. This
231 new header definitions rely on W3C recommendations which are used worldwide and are
232 positively recognised by the European Commission. The new definitions of the header mainly
233 use Provenance ontology (PROV-O), Time Ontology and Data Catalog Vocabulary (DCAT). The
234 global new header applicable for this profile is included in the metadata and document header
235 specification document.

236 The header vocabulary contains all attributes defined in IEC 61970-552. This is done only for
237 the purpose of having one vocabulary for header and to ensure transition for data exchanges
238 that are using IEC 61970-552:2016 header. This profile does not use IEC 61970-552:2016
239 header attributes and relies only on the extended attributes.

240 2.4.1 Constraints

241 The identification of the constraints related to the metadata follows the same convention for
242 naming of the constraints as for profile constraints.

243 • R:NC:ALL:wasAttributedTo:usage

244 The prov:wasAttributedTo should normally be the “X” EIC code of the actor (prov:Agent).

245

246 2.4.2 Reference metadata

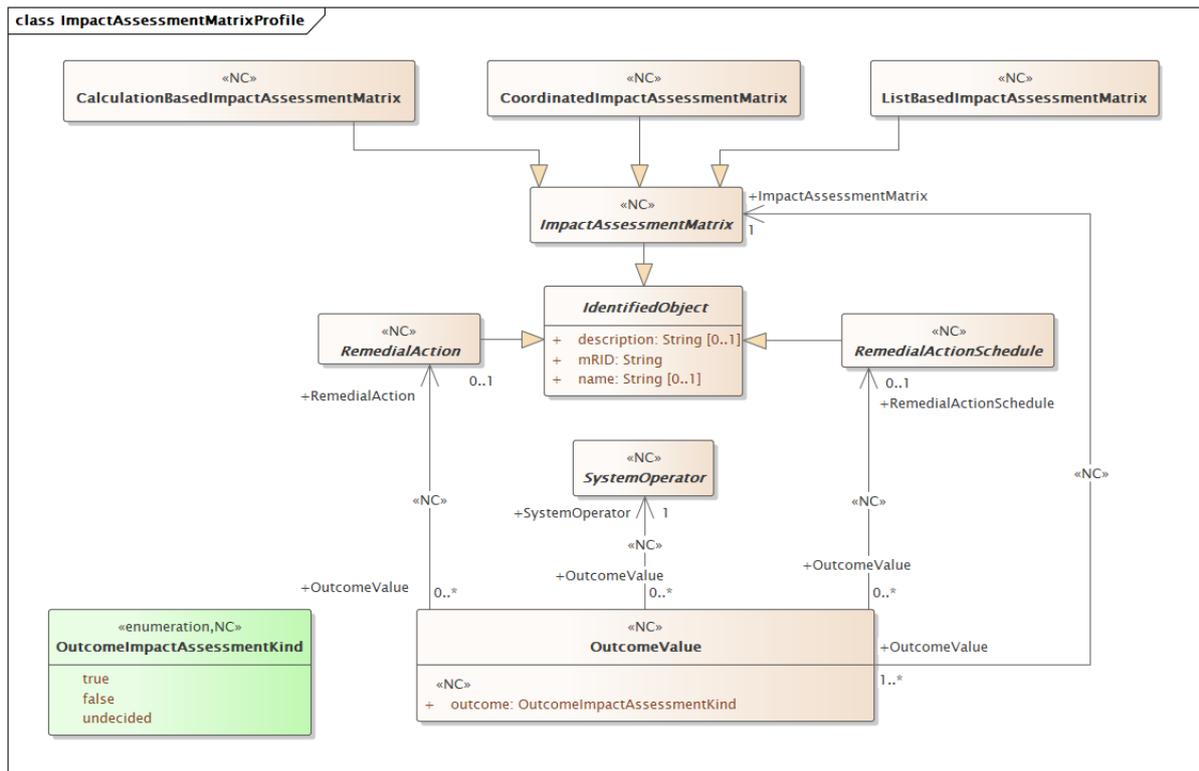
247 The header defined for this profile requires availability of a set of reference metadata. For
248 instance, the attribute prov:wasGeneratedBy requires a reference to an activity which produced
249 the model or the related process. The activities are defined as reference metadata and their

250 identifiers are referenced from the header to enable the receiving entity to retrieve the “static”
 251 (reference) information that is not modified frequently. This approach imposes a requirement
 252 that both the sending entity and the receiving entity have access to a unique version of the
 253 reference metadata. Therefore, each business process shall define which reference metadata
 254 is used and where it is located.

255 **3 Detailed Profile Specification**

256 **3.1 General**

257 This package contains impact assessment matrix profile.



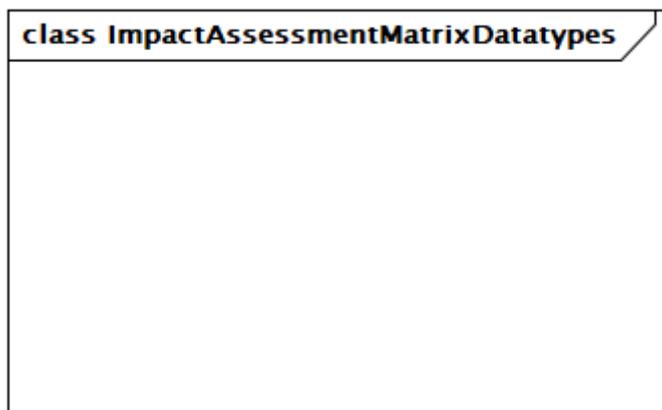
258

259

260

**Figure 1 – Class diagram
 ImpactAssessmentMatrixProfile::ImpactAssessmentMatrixProfile**

261 Figure 1: The diagram contains the main classes used in the profile.



262

263

264

**Figure 2 – Class diagram
ImpactAssessmentMatrixProfile::ImpactAssessmentMatrixDatatypes**

265 Figure 2: The diagram shows datatypes that are used by classes in the profile. Stereotypes are
266 used to describe the datatypes. The following stereotypes are defined:

- 267 <<enumeration>> A list of permissible constant values.
- 268 <<Primitive>> The most basic data types used to compose all other data types.
- 269 <<CIMDatatype>> A datatype that contains a value attribute, an optional unit of measure and
270 a unit multiplier. The unit and multiplier may be specified as a static variable initialized to the
271 allowed value.
- 272 <<Compound>> A composite of Primitive, enumeration, CIMDatatype or other Compound
273 classes, as long as the Compound classes do not recurse.
- 274 For all datatypes both positive and negative values are allowed unless stated otherwise for a
275 particular datatype.

276 **3.2 (NC) CalculationBasedImpactAssessmentMatrix**

277 Inheritance path = [ImpactAssessmentMatrix](#) : [IdentifiedObject](#)
278 Calculation based impact assessment matrix. It relates to the remedial action schedule.
279 Table 1 shows all attributes of CalculationBasedImpactAssessmentMatrix.

280 **Table 1 – Attributes of
281 ImpactAssessmentMatrixProfile::CalculationBasedImpactAssessmentMatrix**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

282

283 **3.3 (NC) CoordinatedImpactAssessmentMatrix**

284 Inheritance path = [ImpactAssessmentMatrix](#) : [IdentifiedObject](#)
285 Coordinated impact assessment matrix.
286 Table 2 shows all attributes of CoordinatedImpactAssessmentMatrix.

287 **Table 2 – Attributes of
288 ImpactAssessmentMatrixProfile::CoordinatedImpactAssessmentMatrix**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

289

290 **3.4 (abstract) IdentifiedObject root class**291 This is a root class to provide common identification for all classes needing identification and
292 naming attributes.

293 Table 3 shows all attributes of IdentifiedObject.

294 **Table 3 – Attributes of ImpactAssessmentMatrixProfile::IdentifiedObject**

name	mult	type	description
description	0..1	String	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.
mRID	1..1	String	Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended. For CIMXML data files in RDF syntax conforming to IEC 61970-552, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
name	0..1	String	The name is any free human readable and possibly non unique text naming the object.

295

296 **3.5 (abstract,NC) ImpactAssessmentMatrix**297 Inheritance path = [IdentifiedObject](#)298 It is the result of an impact assessment analysis for each remedial action or remedial action
299 schedule onto the grid and operation of each system operator.

300 Table 4 shows all attributes of ImpactAssessmentMatrix.

301 **Table 4 – Attributes of ImpactAssessmentMatrixProfile::ImpactAssessmentMatrix**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

302

303 **3.6 (NC) ListBasedImpactAssessmentMatrix**304 Inheritance path = [ImpactAssessmentMatrix](#) : [IdentifiedObject](#)

305 List based impact assessment matrix. It refers to the remedial action.

306 Table 5 shows all attributes of ListBasedImpactAssessmentMatrix.

307 **Table 5 – Attributes of**
308 **ImpactAssessmentMatrixProfile::ListBasedImpactAssessmentMatrix**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

309

310 **3.7 (NC) OutcomeValue root class**

311 This is the outcome of an impact assessment matrix.

312 Table 6 shows all attributes of OutcomeValue.

313 **Table 6 – Attributes of ImpactAssessmentMatrixProfile::OutcomeValue**

name	mult	type	description
outcome	1..1	OutcomeImpactAssessmentKind	(NC) Outcome value.

314

315 Table 7 shows all association ends of OutcomeValue with other classes.

316 **Table 7 – Association ends of ImpactAssessmentMatrixProfile::OutcomeValue with other classes**

317

mult from	name	mult to	type	description
1..*	ImpactAssessmentMatrix	1..1	ImpactAssessmentMatrix	(NC) the impact assessment matrix which has this value.
0..*	RemedialAction	0..1	RemedialAction	(NC) The remedial action that has an outcome value.
0..*	RemedialActionSchedule	0..1	RemedialActionSchedule	(NC) The remedial action schedule that has an outcome value.
0..*	SystemOperator	1..1	SystemOperator	(NC) The system operator that has an outcome value.

318

319 **3.8 (abstract,NC) RemedialAction**

320 Inheritance path = [IdentifiedObject](#)

321 A remedial action is described by one of many grid state alterations applied to a grid model state or particular scenario in order to resolve one or more Identified constraints. Only costly remedial actions require a cost characteristic.

322 Table 8 shows all attributes of RemedialAction.

325 **Table 8 – Attributes of ImpactAssessmentMatrixProfile::RemedialAction**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

326

327 **3.9 (abstract,NC) RemedialActionSchedule**

328 Inheritance path = [IdentifiedObject](#)

329 This is a schedule for a determined remedial action.

330 Table 9 shows all attributes of RemedialActionSchedule.

331 **Table 9 – Attributes of ImpactAssessmentMatrixProfile::RemedialActionSchedule**

name	mult	type	description
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

332

333 **3.10 (abstract,NC) SystemOperator root class**

334 System operator.

335 **3.11 (NC) OutcomeImpactAssessmentKind enumeration**

336 Outcome impact assessments kinds.

337 Table 10 shows all literals of OutcomeImpactAssessmentKind.

338 **Table 10 – Literals of ImpactAssessmentMatrixProfile::OutcomeImpactAssessmentKind**

literal	value	description
true		True.
false		False.
undecided		Undecided. Used only for list-based impact assessment matrix.

339

340 **3.12 Date primitive**341 Date as "yyyy-mm-dd", which conforms with ISO 8601. UTC time zone is specified as "yyyy-
342 mm-ddZ". A local timezone relative UTC is specified as "yyyy-mm-dd(+/-)hh:mm".343 **3.13 DateTime primitive**344 Date and time as "yyyy-mm-ddThh:mm:ss.sss", which conforms with ISO 8601. UTC time zone
345 is specified as "yyyy-mm-ddThh:mm:ss.sssZ". A local timezone relative UTC is specified as
346 "yyyy-mm-ddThh:mm:ss.sss-hh:mm". The second component (shown here as "ss.sss") could
347 have any number of digits in its fractional part to allow any kind of precision beyond seconds.348 **3.14 String primitive**349 A string consisting of a sequence of characters. The character encoding is UTF-8. The string
350 length is unspecified and unlimited.

351

352

353

Annex A (informative): Sample data**A.1 General**

355 This Annex is designed to illustrate the profile by using fragments of sample data. It is not meant
356 to be a complete set of examples covering all possibilities of using the profile. Defining a
357 complete set of test data is considered a separate activity to be performed for the purpose of
358 setting up interoperability testing and conformity related to this profile.

A.2 Sample instance data

360 <nc:ListBasedImpactAssessmentmatrix rdf:ID="_a7438c6f-5f12-421b-9b39-a42d4194c177">

361 <cim:IdentifiedObject.name>IAM1</cim:IdentifiedObject.name>

362 <cim:IdentifiedObject.mRID>a7438c6f-5f12-421b-9b39-a42d4194c177</cim:IdentifiedObject.mRID>

363 </nc:ListBasedImpactAssessmentmatrix>

364

365 <nc:OutcomeValue rdf:ID="_cb3a98ed-1bb0-4c03-bdc3-2b403c7333d9">

366 <nc:OutcomeValue.outcome rdf:resource="http://entsoe.eu/ns/csa#OutcomeImpactAssessmentKind.true" />

367 <nc:OutcomeValue.RemedialAction rdf:resource="#_64ec4c52-5e70-4e5d-acb7-57a6c06dcf07" />

368 <nc:OutcomeValue.SystemOperator rdf:resource="#urn:entsoe:10X1001A1001A094" />

369 <nc:OutcomeValue.ImpactAssessmentMatrix rdf:resource="#_a7438c6f-5f12-421b-9b39-a42d4194c177" />

370 </nc:OutcomeValue>

371

372 <nc:OutcomeValue rdf:ID="_c710b18a-da3a-43d2-86df-8a6ecc2f00f5">

373 <nc:OutcomeValue.outcome rdf:resource="http://entsoe.eu/ns/csa#OutcomeImpactAssessmentKind.false" />

374 <nc:OutcomeValue.RemedialAction rdf:resource="#_64ec4c52-5e70-4e5d-acb7-57a6c06dcf07" />

375 <nc:OutcomeValue.SystemOperator rdf:resource="#urn:entsoe:10X1001A1001A361" />

376 <nc:OutcomeValue.ImpactAssessmentMatrix rdf:resource="#_a7438c6f-5f12-421b-9b39-a42d4194c177" />

377 </nc:OutcomeValue>

378