



European Network of
Transmission System Operators
for Electricity

ASSESSED ELEMENT PROFILE SPECIFICATION

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SOC APPROVED
VERSION 2.1

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Revision History

Version	Release	Date	Paragraph	Comments
1	0	2021-03-22		Document for SOC approval.
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1 Introduction

The assessed element profile is a profile to exchange a list of assessed elements.

An assessed element is a network element for which the electrical state is evaluated in a regional or cross-regional process and which value is expected to fulfil regional rules function of the operational security limits.¹

The assessed elements are input data describing the elements that shall be assessed during the security analysis.

These are the elements on which limit violations are potentially detected (scanned assessed elements) and resolved (secured assessed elements) by applying defined and agreed remedial actions. Assessed elements can be a conducting equipment e.g. a line, transformer, breaker, etc or just a terminal i.e. the end of the equipment. In cases where an assessed element is associated with a conducting equipment the whole equipment is scanned meaning limits defined at all sides of the equipment are scanned. In cases where an assessed element is associated with a terminal only the limits defined for this terminal are scanned. In addition, it shall be noted that only elements from an IGM that are designated as assessed elements are scanned. This means that the party performing the analysis will normally not report, optimise or resolve any limit violations for elements that are not designated as assessed elements. This is designed in this way in order to provide more flexibility to the remedial action optimisation engines eventually helping to minimise computational effort and increase performance.

2 Application profile specification

2.1 Version information

The content is generated from UML model file CIM100_CGMES31v01_501-20v02_NC21v47_MM10v01.eap.

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

- Title: Assessed Element Vocabulary
- Keyword: AE
- Description: This vocabulary is describing the assessed element profile.
- Version IRI: <http://entsoe.eu/ns/CIM/AssessedElement-EU/2.1>
- Version info: 2.1.0
- Prior version: <http://entsoe.eu/ns/CIM/AssessedElement-EU/2.0>
- 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
- Identifier: urn:uuid:a2de1738-214d-4552-b894-5b33cbc34218

2.2 Constraints naming convention

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

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

¹ [SOURCE: 2019 Inter-RSC report, BRS CAS consistency function, 4.1]

125 where

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

127 rule.Standard: the number of the standard e.g. 301 for 61970-301, 456 for 61970-456, 13 for
128 61968-13. 61970-600 specific constraints refer to 600 although they are related to one or
129 combination of the 61970-450 series profiles. For NC profiles, NC is used.

130 rule.Profile: the abbreviation of the profile, e.g. TP for Topology profile. If set to “ALL” the
131 constraint is applicable to all IEC 61970-600 profiles.

132 rule.Property: for UML classes, the name of the class, for attributes and associations, the name
133 of the class and attribute or association end, e.g. EnergyConsumer, IdentifiedObject.name, etc.
134 If set to “NA” the property is not applicable to a specific UML element.

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

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

137 **2.3 Profile constraints**

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

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

- 143 • C:452:ALL:NA:datatypes

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

- 146 • R:452:ALL:NA:exchange

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

- 149 • R:452:ALL:NA:exchange1

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

- 155 • R:452:ALL:NA:exchange2

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

- 164 • R:452:ALL:NA:exchange3

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

168 • R:452:ALL:NA:exchange4

169 From the standpoint of the model import used by a data recipient, the document
170 describes a subset of the CIM that importing software shall be able to interpret in order
171 to import exported models. Data providers are free to exceed the minimum requirements
172 described herein as long as their resulting data files are compliant with the CIM Schema
173 and the conventions established in Clause 5. The document, therefore, describes
174 additional classes and class data that, although not required, exporters will, in all
175 likelihood, choose to include in their data files. The additional classes and data are
176 labelled as required (cardinality 1..1) or as optional (cardinality 0..1) to distinguish them
177 from their required counterparts. Please note, however, that data importers could
178 potentially receive data containing instances of any and all classes described by the
179 CIM Schema.

180 • R:452:ALL:NA:cardinality

181 The cardinality defined in the CIM model shall be followed, unless a more restrictive
182 cardinality is explicitly defined in this document. For instance, the cardinality on the
183 association between VoltageLevel and BaseVoltage indicates that a VoltageLevel shall
184 be associated with one and only one BaseVoltage, but a BaseVoltage can be associated
185 with zero to many VoltageLevels.

186 • R:452:ALL:NA:associations

187 Associations between classes referenced in this document and classes not referenced
188 here are not required regardless of cardinality.

189 • R:452:ALL:IdentifiedObject.name:rule

190 The attribute “name” inherited by many classes from the abstract class IdentifiedObject
191 is not required to be unique. It must be a human readable identifier without additional
192 embedded information that would need to be parsed. The attribute is used for purposes
193 such as User Interface and data exchange debugging. The MRID defined in the data
194 exchange format is the only unique and persistent identifier used for this data exchange.
195 The attribute IdentifiedObject.name is, however, always required for CoreEquipment
196 profile and Short Circuit profile.

197 • R:452:ALL:IdentifiedObject.description:rule

198 The attribute “description” inherited by many classes from the abstract class
199 IdentifiedObject must contain human readable text without additional embedded
200 information that would need to be parsed.

201 • R:452:ALL:NA:uniqueIdentifier

202 All IdentifiedObject-s shall have a persistent and globally unique identifier (Master
203 Resource Identifier - mRID).

204 • R:452:ALL:NA:unitMultiplier

205 For exchange of attributes defined using CIM Data Types (ActivePower, Susceptance,
206 etc.) a unit multiplier of 1 is used if the UnitMultiplier specified in this document is “none”.

207 • C:452:ALL:IdentifiedObject.name:stringLength

208 The string IdentifiedObject.name has a maximum of 128 characters.

- 209 • C:452:ALL:IdentifiedObject.description:stringLength

210 The string IdentifiedObject.description is maximum 256 characters.

- 211 • C:452:ALL:NA:float

212 An attribute that is defined as float (e.g. has a type Float or a type which is a Datatype
213 with .value attribute of type Float) shall support ISO/IEC 60559:2020 for floating-point
214 arithmetic using single precision floating point. A single precision float supports 7
215 significant digits where the significant digits are described as an integer, or a decimal
216 number with 6 decimal digits. Two float values are equal when the significant with 7
217 digits are identical, e.g. 1234567 is equal 1.234567E6 and so are 1.2345678 and
218 1.234567E0.

- 219 • R:NC:ALL:Region:reference

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

- 222 • R:NC:ALL:SystemOperator:reference

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

- 224 • R:NC:AE:AssessedElement:usage

225 All elements that need to be scanned for a base case or contingencies shall be explicitly
226 defined. If not specified otherwise in another document, an application that performs
227 contingency analysis will only report violations that occur on an assessed element and
228 will not report any other violations on elements that have operational limits defined, but
229 the object in the equipment is not designated as an AssessedElement. Therefore, the
230 choice which equipment is scanned shall be made considering multiple factors among
231 which the probability of missing potential violations and the performance of the
232 contingency analysis.

- 233 • C:NC:AE:AssessedElement:associations

234 An AssessedElement shall be associated with either
235 AssessedElement.ConductingEquipment or AssessedElement.AssessedTerminal.

236 2.4 Metadata

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

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

247 2.4.1 Constraints

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

- R:NC:ALL:wasAttributedTo:usage

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

2.4.2 Reference metadata

The header defined for this profile requires availability of a set of reference metadata. For instance, the attribute `prov:wasGeneratedBy` requires a reference to an activity which produced the model or the related process. The activities are defined as reference metadata and their identifiers are referenced from the header to enable the receiving entity to retrieve the “static” (reference) information that it is not modified frequently. This approach imposes a requirement that both the sending entity and the receiving entity have access to a unique version of the reference metadata. Therefore, each business process shall define which reference metadata is used and where it is located.

3 Detailed Profile Specification

3.1 General

This package contains assessed element profile.

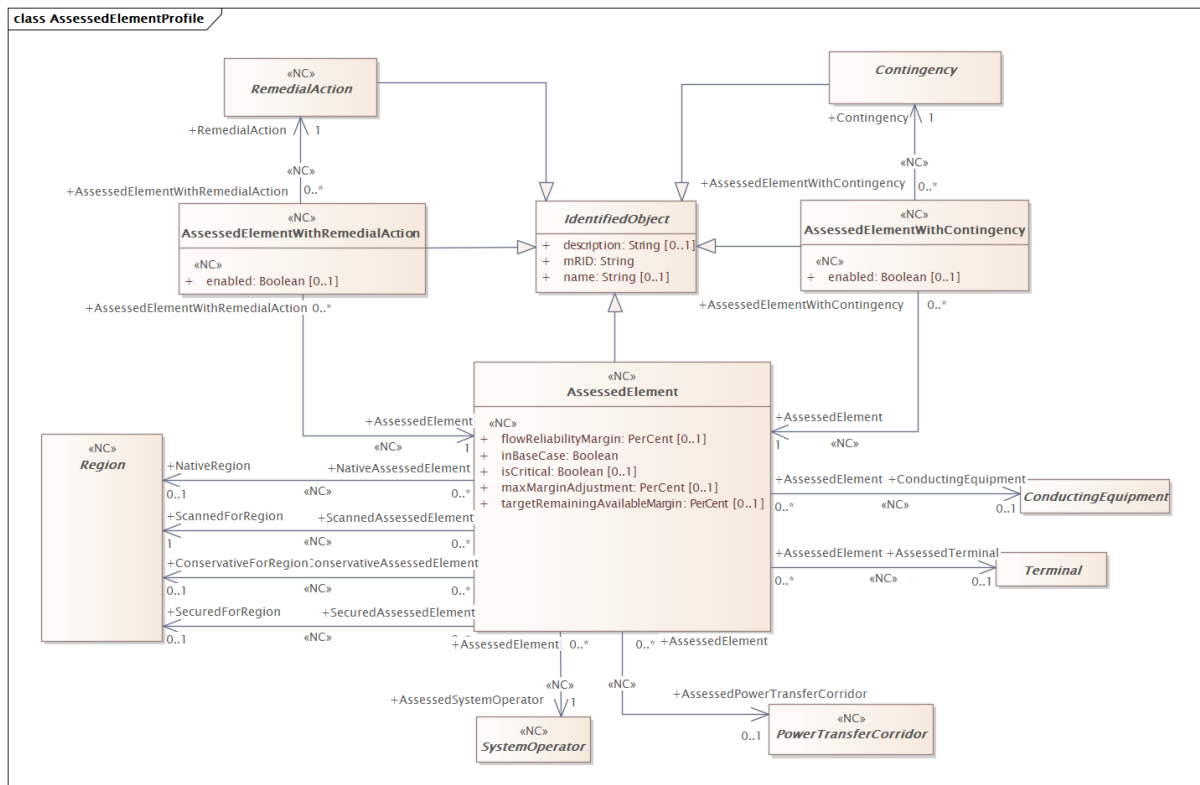


Figure 1 – Class diagram AssessedElementProfile::AssessedElementProfile

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

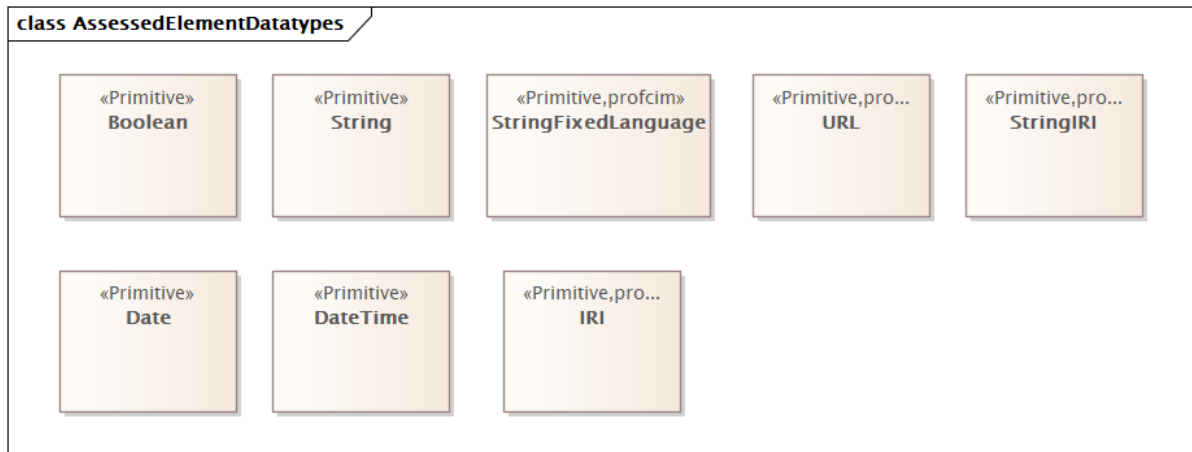


Figure 2 – Class diagram AssessedElementProfile::AssessedElementDatatypes

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

<<enumeration>> A list of permissible constant values.

<<Primitive>> The most basic data types used to compose all other data types.

<<CIMDatatype>> A datatype that contains a value attribute, an optional unit of measure and a unit multiplier. The unit and multiplier may be specified as a static variable initialized to the allowed value.

<<Compound>> A composite of Primitive, enumeration, CIMDatatype or other Compound classes, as long as the Compound classes do not recurse.

For all datatypes both positive and negative values are allowed unless stated otherwise for a particular datatype.

3.2 (NC) AssessedElement

Inheritance path = [IdentifiedObject](#)

Assessed element is a network element for which the electrical state is evaluated in the regional or cross-regional process and which value is expected to fulfil regional rules function of the operational security limits.

The information of the validity period of the assessed element is derived from the conducting equipment.

The measurements and limits are as defined in the steady state hypothesis.

Table 1 shows all attributes of AssessedElement.

Table 1 – Attributes of AssessedElementProfile::AssessedElement

name	mult	type	description
inBaseCase	1..1	Boolean	(NC) Indicates if the assessed element is scanned in the base case. True means that the assessed element is scanned in the base case. False means it is not scanned in the base case. In case of false the association AssessedElement.Contingency is required.
isCritical	0..1	Boolean	(NC) Indicates if the assessed element is critical. True, means that the assessed element is critical. False, means that the assessed element is not critical. Critical means that the assessed element for the conducting equipment or power transfer corridor are considered limiting for the power exchange.
maxMarginAdjustment	0..1	PerCent	(NC) Maximum adjustment, relative to maximum flow allowed for exceeding the maximum flow of this assessed element.

name	mult	type	description
flowReliabilityMargin	0..1	PerCent	(NC) Percentage of the maximum flow (margin) reserved to anticipate forecasting errors.
targetRemainingAvailableMargin	0..1	PerCent	(NC) Target for the remaining available margin as a percentage of maximum flow.
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

Table 2 shows all association ends of AssessedElement with other classes.

Table 2 – Association ends of AssessedElementProfile::AssessedElement with other classes

mult from	name	mult to	type	description
0..*	ConservativeForRegion	0..1	Region	(NC) This is the region where the element is considered conservative.
0..*	NativeRegion	0..1	Region	(NC) The native region for an assessed element.
0..*	AssessedSystemOperator	1..1	SystemOperator	(NC) A system operator that assesses the element.
0..*	ScannedForRegion	1..1	Region	(NC) This is the region in which this assessed element is scanned.
0..*	ConductingEquipment	0..1	ConductingEquipment	(NC) The conducting equipment that is designated as an assessed element, i.e. the equipment that is assessed.
0..*	AssessedTerminal	0..1	Terminal	(NC) The terminal that is assessed.
0..*	SecuredForRegion	0..1	Region	(NC) This is the region where the element is secured.
0..*	AssessedPowerTransferCorridor	0..1	PowerTransferCorridor	(NC) The power transfer corridor that is designated as an assessed element.

3.3 (NC) AssessedElementWithContingency

Inheritance path = [IdentifiedObject](#)

The combination of an assessed element and a contingency.

Table 3 shows all attributes of AssessedElementWithContingency.

Table 3 – Attributes of AssessedElementProfile::AssessedElementWithContingency

name	mult	type	description
enabled	0..1	Boolean	(NC) It identifies if the assessed element with contingency shall be considered. True means considered, False means not considered.
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

Table 4 shows all association ends of AssessedElementWithContingency with other classes.

Table 4 – Association ends of AssessedElementProfile::AssessedElementWithContingency with other classes

mult from	name	mult to	type	description
0..*	AssessedElement	1..1	AssessedElement	(NC) The assessed element defined for this contingency and assessed element combination.
0..*	Contingency	1..1	Contingency	(NC) The contingency defined for this contingency and assessed element combination.

3.4 (NC) AssessedElementWithRemedialAction

Inheritance path = [IdentifiedObject](#)

The combination of an assessed element and a remedial action.

Table 5 shows all attributes of AssessedElementWithRemedialAction.

Table 5 – Attributes of AssessedElementProfile::AssessedElementWithRemedialAction

name	mult	type	description
enabled	0..1	Boolean	(NC) It identifies if the assessed element with remedial action shall be considered. True means considered, False means not considered.
description	0..1	String	inherited from: IdentifiedObject
mRID	1..1	String	inherited from: IdentifiedObject
name	0..1	String	inherited from: IdentifiedObject

Table 6 shows all association ends of AssessedElementWithRemedialAction with other classes.

Table 6 – Association ends of AssessedElementProfile::AssessedElementWithRemedialAction with other classes

mult from	name	mult to	type	description
0..*	AssessedElement	1..1	AssessedElement	(NC) The assessed element defined for this assessed element and remedial action combination.
0..*	RemedialAction	1..1	RemedialAction	(NC) The remedial action defined for this assessed element and remedial action combination.

3.5 (abstract) ConductingEquipment root class

The parts of the AC power system that are designed to carry current or that are conductively connected through terminals.

3.6 (abstract) Contingency

Inheritance path = [IdentifiedObject](#)

An event threatening system reliability, consisting of one or more contingency elements.

Table 7 shows all attributes of Contingency.

Table 7 – Attributes of AssessedElementProfile::Contingency

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

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

3.7 (abstract) IdentifiedObject root class

This is a root class to provide common identification for all classes needing identification and naming attributes.

Table 8 shows all attributes of IdentifiedObject.

Table 8 – Attributes of AssessedElementProfile::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.

3.8 (abstract,NC) PowerTransferCorridor root class

A power transfer corridor is defined as a set of circuits (transmission lines or transformers) separating two portions of the power system, or a subset of circuits exposed to a substantial portion of the transmission exchange between two parts of the system.

3.9 (abstract,NC) Region root class

A region where the system operator belongs to.

3.10 (abstract,NC) RemedialAction

Inheritance path = [IdentifiedObject](#)

Remedial action describes one or more actions that can be performed on a given power system model situation to eliminate one or more identified breaches of constraints. The remedial action can be costly, and have a cost characteristic, or non costly.

Table 9 shows all attributes of RemedialAction.

Table 9 – Attributes of AssessedElementProfile::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

3.11 (abstract,NC) SystemOperator root class

System operator.

347 **3.12 (abstract) Terminal root class**

348 An AC electrical connection point to a piece of conducting equipment. Terminals are connected
349 at physical connection points called connectivity nodes.

350 **3.13 Boolean primitive**

351 A type with the value space "true" and "false".

352 **3.14 Date primitive**

353 Date as "yyyy-mm-dd", which conforms with ISO 8601. UTC time zone is specified as "yyyy-
354 mm-ddZ". A local timezone relative UTC is specified as "yyyy-mm-dd(+/-)hh:mm".

355 **3.15 DateTime primitive**

356 Date and time as "yyyy-mm-ddThh:mm:ss.sss", which conforms with ISO 8601. UTC time zone
357 is specified as "yyyy-mm-ddThh:mm:ss.sssZ". A local timezone relative UTC is specified as
358 "yyyy-mm-ddThh:mm:ss.sss-hh:mm". The second component (shown here as "ss.sss") could
359 have any number of digits in its fractional part to allow any kind of precision beyond seconds.

360 **3.16 String primitive**

361 A string consisting of a sequence of characters. The character encoding is UTF-8. The string
362 length is unspecified and unlimited.

363

364

365 **Annex A (informative): Sample data**

366 **A.1 General**

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

371 **A.2 Sample instance data**

372 Test data files are available in the CIM EG SharePoint.