

>>> Vigneron Catherine <cvigneron@CENCENELEC.EU> 07.06.2012 16:37 >>>

Dear All,

Please find below a message from the Working Group First Set of Standards Convenor:

On behalf of the Working Group 'First Set of Standards' (WG FSS) please find attached a document which intends to describe the main principles and processes considered for producing the so-called "First set of standards", as described in the M/490 mandate.

The objectives of the present document are:

- to reformulate the objectives of the "First set of standards" report
- to present a very brief overview of its content
- to indicate what should be expected and not expected from this report
- to define the main rules to consider for selecting a standard in this report

Once validated by you, these inputs will be given, as guidance, to the writers of the "First set of standards" FSS-2012 report which will be issued by the end of 2012.

Should you have any comments on this document, do not hesitate to contact the WG FSS Convenor Laurent Guise (Laurent.guise@schnieder-electric.com) before 2012-06-30.

Comments will be considered by the WG FSS team, and a final release of this document will be issued Mid July, after validation by the WG FSS team.

Thanks for your support.

Laurent Guise
Convenor of the "First Set of standards" sub-group - reporting to SGCG steering committee

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1 Document Number: SGCG_0039_DC
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12 **SGCG Rules for establishing the**
13 **First set of standards Report**
14 **2012-06-06**
15

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17
18 Comments should be sent to:
19 Laurent Guise : laurent.guise@schneider-electric.com,
20 convenor of the sub-group "First set of standards" - SGCG-FSS
21 reporting to the SGCG.
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40 **0 Preamble**

41 One of the expected deliveries from the M/490 mandate, is the so-called “First set of standards”.
 42 This task has been delegated to the FSS team of the Smart Grid Co-ordination Group of CEN-CENELEC-
 43 ETSI.

44
 45 Before issuing the document formally, and when looking to the number and variety of expectations
 46 expressed by the stakeholders, it appeared necessary to the FSS team to ask the SGCG stakeholders to
 47 validate the main principles and processes considered for producing such a document.

48
 49 The objectives of the present document are

- 50 • to reformulate the objectives of the “First set of standards” report (called here-below FSS-2012)
- 51 • to present a very brief overview of its content
- 52 • to indicate what should be expected and not expected from this report
- 53 • to define the main rules to consider for selecting a standard in this report

54 Once validated, these inputs will be given, as guidance, to the writers of the “First set of standards” FSS-
 55 2012 report which will be issued by the end of 2012.

56 **1 Reference documents**

- 57 • [1] : M/490 EN - Smart Grid Mandate - Standardization Mandate to European Standardisation
 58 Organisations (ESOs) to support European Smart Grid deployment;
- 59 • [2] : Final Report of the CEN/CENELEC/ETSI Joint Working Group on standards for smart grids
 60 V1.12 approved by the CEN/CENELEC/ETSI Joint Presidents Group (JPG) on 4 May 2011, and by
 61 the individual ESOs by 2011-06-05.
- 62 • [3] : SGCG Report - Standardisation Gaps Prioritisation for the Smart Grid v2.1 – 2011-10-19 – Ref
 63 SGCG_Sec0028_DC.
- 64 • [4] : SGCG Report - Programme of standardisation work for the Smart Grid v1.51 – 2012-03-11 –
 65 Ref SGCG_Sec0032_02_DC.
- 66 • [5] : SGCG (draft interim) Technical Report - Reference Architecture for the Smart Grid v1.0 –
 67 2012-03-02
- 68 • [6] : SGCG Draft Report of the Working Group Sustainable Processes – Use Case Collection,
 69 Management, Repository, Analysis and Harmonization – v0.4
 70

71 **2 Glossary & Acronyms**

72

CEN	European Committee for Standardization
CENELEC	European Committee for Electrotechnical Standardization
EMC	Electro Magnetic Compatibility
ESO	European Standardisation Organisation
ETSI	European Telecommunications Standards Institute
FSS-2012	so-called “First set of standards” report delivered by the end of 2012 by SGCG
Generic Use Case (UC)	<p>Generic Functionality (Case of Use) of a system.</p> <p>The description of Generic Use Cases is independent of design specifics and allows the identification of system design requirements</p> <p>Generic Use Cases descriptions are possibly in different stages of description. It may be just a title, but it can also be detailed very in depth, using the method and tools defined by the SGCG-SP team outcomes.</p> <p>Generic Use cases are progressively being stored, sorted and managed in an open single repository managed by the SGCG-SP team.</p> <p>More details available in [6].</p>

ICT	Information and communication technologies
IEC	International Electrotechnical Commission
IS	International Standard
ISO	International Organization for Standardization
ITU	International Telecommunication Union
ITU-T	ITU's Telecommunication standardization sector (ITU-T)
JWG	Joint Working Group (of CEN, CENELEC and ETSI on standards for smart grids)
M/490	Mandate issued by the European Commission to European Standardisation Organisations (ESOs) to support European Smart Grid deployment [1]
NWIP	New Work Item Proposal
SG	Smart Grid as defined in the M/490 mandate as well as in the JWG report [2]
SGAM	Smart Grid Architecture Model – delivered by the SGCG-RA team as part of the mandated deliveries of M/490, which proposes 3 different axes to map a Smart Grid feature (Domains, Zones and Layers) – details available in [5]
SGCG	Smart Grid Co-ordination Group, reporting to CEN-CENELEC-ETSI and in charge of answering the M/490 mandate
SGCG-FSS	Team of experts acting on behalf of the CEN-CENELEC-ETSI SGCG to manage part of the mandated tasks as defined by SGCG in the “First Set of Standards” package.
SGCG-RA	Team of experts acting on behalf of the CEN-CENELEC-ETSI SGCG to manage part of the mandated tasks as defined by SGCG in the “Reference Architecture” package
SGCG-SGIS	Team of experts acting on behalf of the CEN-CENELEC-ETSI SGCG to manage part of the mandated tasks as defined by SGCG in the “smart grid information security” package
SGCG-SP	Team of experts acting on behalf of the CEN-CENELEC-ETSI SGCG to manage part of the mandated tasks as defined by SGCG in the “Sustainable Processes” package
TR	Technical Report
TS	Technical Specification
UC	Refer to “Generic Use Case”

73

74 3 Objectives of the FSS-2012 report and expected usage

75 3.1 Content of the “First set of Standard” report

76 The First set of Standards report (FSS-2012) is a document of “Technical Report” type, resulting from the
 77 CEN-CENELEC-ETSI experts assessment, intending to depict the portfolio of European and/or International
 78 standards which may be used to support Smart Grids deployment in Europe.

79 It fulfils the mandated work laid in down in the M/490 mandate [1].

80 The goal of this report is to **facilitate interoperable solutions based on voluntary standards**. This
 81 framework shall support Member States, and/or Smart Grid system owners to specify their own smart grid
 82 solution considering their requirements and taking into account the specific national legislations and the local
 83 environment.

84

85 This report provides a **selection guide expressing, for most of Smart Grid systems, which standards,**
 86 **can be used, where, and for which purpose.**

87 In order to reach this objective, a Smart Grid system will be considered as a collection of sub-systems, as
88 introduced in the report “Reference Architecture for the Smart Grid” – functional breakdown [5], each of them
89 supporting a set of possible “Generic Use Cases” (ref glossary) as presented in [6].
90

91 The collection of sub-systems will be mapped to the SGAM architecture model (ref glossary). The interfaces
92 between the different components of these sub-systems, at different layers of SGAM, are identified and the
93 standards supporting these interfaces are listed. Standards are selected from standardisation bodies,
94 following the ranking method proposed in section 4.1. For each of the listed standards “maturity information”
95 according to sect. 4.2 and 4.3 will be provided.
96

97 Some cross-cutting domains (such as EMC, power quality, security or communication) may be treated
98 separately to avoid too many repetitions and/or provide a global picture of higher level.
99

100 At the end of the document, a table containing all proposed standards, their maturity levels and the sub-
101 systems where the standards is possibly used, will be provided.
102

103 **3.2 Limits of scope and usage**

104 Here are some limits the reader of this FSS-2012 report should be aware of :

- 105 • The list of Generic UCs per sub-system cannot be exhaustive.
- 106 • The standards listed in this report represent a selection according to the rules set in section 4.2 and
107 4.3. The list may be not comprehensive.
- 108 • Detailed “application notes” for the standards are not in the scope of this document.
- 109 • The generic UCs are limited to “typical” applications. Customer specific applications are not
110 considered.
- 111 • Proprietary or non-standardised solutions covering the generic UCs are not considered in this report.
- 112 • This report represents the current status of the available standards (considering their “maturity” level
113 indicated in 4.2). Standards gaps are identified [3], standardisation activities to fix the gaps are
114 listed, ranked and monitored in [4].
- 115 • Standardisation projects which do not fulfil the maturity-time constraints defined in section 4.2 are
116 considered to be too risky and are therefore not part of this report.
117

118 **4 How to select standards?**

119 All standards identified in this report have been selected applying the following rules.

120 **4.1 Standardisation body ranking**

121 In order to solve possible conflicting standards, the standardisation bodies are ranked as follows:

- 122 1. the report has identified standards from the European organisations, CEN, CENELEC or ETSI,
123 where available,
- 124 2. where no standards were available from 1, then the report has considered ISO, IEC or ITU
125 standards
- 126 3. If no standards from either 1 or 2 were available to support a particular use case, then “open
127 standards” (see criteria below) can be considered.
128

129 “Open standards” that are considered applicable from a CEN CENELEC ETSI point of view, are complying
130 with the here-under criteria:

- 131 1. the standard is developed and/or approved, and maintained by a collaborative consensus-based
132 process;
- 133 2. such process is transparent;
- 134 3. materially affected and interested parties are not excluded from such process;
- 135 4. the standard is subject to RAND/FRAND Intellectual Property Right (IPR) policies which do not
136 mandate, but may permit, at the option of the IPR holder, licensing essential intellectual property
137 without compensation; and
- 138 5. the standard is published and made available to the general public under reasonable terms
139 (including for reasonable fee or for free).
140

141 **4.2 Maturity level**

142 Two maturity levels of the standards are considered:

- 143 • A standard that has reached its final stage (IS, TS or TR, ...) by June 30th 2012, is identified as
- 144 "AVAILABLE"
- 145 • A standard that has successfully passed the NWIP process (or any formal equivalent voting gates if
- 146 NWIP is not within the standard process for issuing the considered standard) by June 30th 2012, is
- 147 identified as "COMING"
- 148

149 **4.3 Release management**

150 Should several releases of a standard exist then – if not explicitly stated differently – the latest release is

151 considered in this report.

152

153 **5 Approval process**

154 The content of the First set of Standards report (FSS-2012) is the result of a consensus based process

155 established in the SGCG-FSS team. The proposal elaborated by the team must be approved by the CEN,

156 CENELEC and ETSI boards.

157

158 Before final approval by the CEN, CENELEC and ETSI boards, the draft will circulate to the SGCG

159 stakeholders by beginning October 2012, with a one month review period.

160

161 The review results will be analysed by the editorial team. In case of conflicting comments where consensus

162 cannot be achieved between the "conflicting" parties a list of the "unresolved" comments will be added as an

163 appendix to the report.