GUIDELINES FOR ISSUING GLOBAL STANDARDS

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Revision	Date	List of modifications
00	21/02/2013	First emission
01	April 20, 2015	General revision: extension to Global Network Technology, new codifications and layout
02	July 20, 2015	Change of NT Head

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1 SCOPE

The scope of these guidelines is to provide general rules for the Global Standards(GS) issued by the following units of Network Technology of Enel Global Infrastructure and Networks:

- *End-Customer application and New Technology (ECA)*
- *Network Components Standardization (NCS)*
- *Remote Control, Protection and TLC Systems (RCP)*
- *Smart Meter Solutions (SMS)*
- *Operational Support (for general or common to all Units documents)*

This guidelines apply to all Network Technology units of Enel Global Infrastructure and Networks Countries:

Country	Distribution Company
Argentina	Edesur
Brasil	Ampla Coelce
Chile	Chilectra
Colombia	Codensa
Iberia	Endesa Distribucion Electrica
Italy	Enel Distribuzione
Peru	Edelnor
Romania	Enel Distributie Banat Enel Distributie Dobrogea Enel Distributie Muntenia

2 GS CODING

2.1 Document codification

The Global Standards coding adopts the following syntax

GSXYZZZ

where

- *GS* is for "Global Standard";
- *X identifies the technological stream, chosen among the following codes:*

  E for End-Customer application and New Technology

  C for Network Components Standardization

  T for Remote Control, Protection and TLC Systems

  S for Smart Meter Solutions

  G for general or common to all Units documents

- *Y* identifies the product family, within each Unit, according to the list below:

  End-Customer application and New Technology
  - *A* is for AC charging station
  - *D* is for DC or multistandard charging station
  - *M* is for Electric mobility management
  - *S* is for Energy management system
  - *L* is for street light remote control
  - *I* is for smart info
  - *Z* is for other smart charging/energy efficiency devices

  Network Components Standardization
  - *B* is for batteries
  - *C* is for conductors, cables and accessories
  - *G* is for general documents
  - *H* is for high voltage components
  - *L* is for low voltage components
  - *M* is for medium voltage components
  - S is for supports, poles (wood, concrete, metallic) and lattice towers
  - *T* is for transformers and reactors

  Remote Control, Protection and TLC Systems
  - *P* is for protections and other electronic devices
  - R is for Remote Terminal Units (RTU) and Micro SCADA systems;
  - N is for Telecommunication & Networking devices;
  - E is for Electric Energy Storage Systems (EESS);
  - Q is for Power Quality meters and monitoring systems;
  - Z is for Power supply stations, UPS, AC & DC Auxiliary service equipment;
  - X is for Other electronic components and systems.

  Smart Meter Solutions
  - *S* is for LV (single phase) meters
  - *P* is for LV (polyphase) meters for direct-connection
  - *C* Is for LV (polyphase) meters for semidirect-connection
  - *Y* is for pre-payment meters
  - *A* is for auxiliary/added-value devices
  - *D* is for concentrators
  - *T* is for modems/meter accessories
  - *H* is for HV meters
  - *M* is for MV meters
  - *V* is for verification tools
  - *R* is for trouble-shooting and in-field tools
  - *H* is for Central Systems
  - *W* is for WFM devices and services
  - *N* is for non-technical losses tools

- *U* is for Multi-service devices
- *I* is for installation and accessories
- *F* is for CTs and VTs
- *O* is for communication protocols

General documents:

- G is for general or common to all Units documents

- ZZZ is a progressive 3 digits number, starting from 001.

This GS coding supersedes and replaces all previous codifications.

2.2 Components codification

If applicable, the components object of the Global Standard are identified with the following code:

GSXYZZZ/W

Where:

GSXYZZZ is the Global Standard code

W is a progressive number, starting from 1 (i.e. GSXYZZZ/1, GSXYZZZ/2, etc.).

3 LANGUAGE

The language for the Global Standards is English.

For local use only, each Enel Global Infrastructure and Networks Country can provide a translation in local language, but the official reference document is the GS English version. The local translations must report, superimposed, the sentence (in local language) *"For the reader convenience only – the official document is the English version"*. See Annex A providing an application example

The Global Standard coding shall not be changed after translations.

4 DOCUMENT STRUCTURE

The Global standard shall be a single document including all the requirements for all Network Technology units of Enel Global Infrastructure and Networks Countries, even if some requirements can be applicable to a single Country only.

The Global Standards should have the following structure:

Index

1) Executive summary
2) Scope
3) List of components, product family or solutions to which the GS applies
4) Applicable laws, reference standards and list of replaced standards
5) Service Conditions
6) Technical characteristics
7) Construction characteristics
8) Testing
9) Supply requirements

Annexes

5 MANAGEMENT AND MAINTENANCE

5.1 Approval process

The names of the representative of each Local and Global unit in charge of elaboration, verification and approval are listed in the table in the first page of a Global Standard. The relevant Technical Manager of the Global units, collects all the approvals by e-mail. The digital or physical signature is put only for the final signature.

When a Global Standard is issued, it replaces all the Global and Local technical specification or Standards previously in force for the same components or product family.

All the technical specification replaced by a Global Standard will be listed the chapter "Applicable laws, reference standards and list of replaced standards" (see Document Structure, chapter 4)

Once approved, a Global Standard will be available to all the internal NTs both at Global and Local level.

An electronic pdf copy of the Global Standard will be uploaded on the archive of each Distribution Company and on the Global Network Technology repository (tbd)

5.2 Proposals for a new Global Standard and updating

All the proposals for the emission of a new Global Standard or for the updating of an existing one, shall be submitted to the Global Unit in charge for the activity object of the Global Standard that will evaluate the proposals or reject informing the proposer with related rationale.

When a new Global Standard is released or an existing Global Standard is updated, an adequate distribution list, which will include the relevant heads of Global and Local units, is defined by each Global NT unit,. The distribution of a Global Standard is responsibility of the Global NT unit.

6 LAYOUT

All Global Standards shall be compliant to the present guidelines and to the templates of layout and cover pages provided in Annex B and Annex C.

ANNEX B – Layout and cover page for NT Unit Global Standards

Enel	GLOBAL STANDARD	Page 1 of 2
	TITLE	GSXYZZZ Rev. xx dd/mm/yyyy

TITLE

[executive summary max 10 lines]
- Scope
- Field of application
- Product group (if any)
-...
-

Countries' I&N – NT/NCS	Elaborated by	Verified by	Approved by
Argentina			**Head of Local NCS**
Brasil			
Chile			
Colombia			
Iberia			
Italy			
Peru			
Romania			

	Elaborated by	Verified by	Approved by
Global I&N – NT/NCS	-	**NCS TM**	**Head of NCS**

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01		

Enel	GLOBAL STANDARD	Page 2 of 2
	TITLE	GSGYZZZ Rev. xx dd/mm/yyyy

TITLE

[executive summary max 10 lines]
- Scope
- Field of application
- Product group (if any)
-...

	Elaborated by	Verified by	Approved by
Global I&N – NT/ECA		**ECA TM**	**Head of ECA**
Global I&N – NT/RCP		**RCP TM**	**Head of RCP**
Global I&N – NT/NCS		**NCS TM**	**Head of NCS**
Global I&N – NT/SMS		**SMS TM**	**Head of SMS**

	Elaborated by	Verified by	Approved by
Global I&N – NT		**Head of OS**	**Head of NT**

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ANNEX A – Example of local language (e.g. Italian) version of NT Global Standards

Enel	GLOBAL STANDARD	Pagina 1 of 2
	TITOLO	GSXYZZZ Rev. xx gg/mm/aaaa

TITOLO

[sommario esecutivo max 10 righe]
- Scopo
- Campo di applicazione
- Gruppo merceologico (se applicabile)
-...
-

Countries' I&N – NT/NCS	Elaborato	Verificato	Approvato
Argentina			**Responsabile Local NCS**
Brasile			
Cile			
Colombia			
Iberia			
Italia			
Peru			
Romania			

	Elaborato	Verificato	Approvato
Global I&N – NT/NCS	-	**NCS TM**	**Responsabile NCS**

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Revisione	Data	Lista delle modifiche
00		
01		

Solo per comodità del lettore - la versione ufficiale è in inglese

Solo per comodità del lettore - la versione ufficiale è in inglese