

BUSINESS PLAN

CENELEC/TC or SC	Secretariat	Date
CLC TC66X	UK	2018-11-13

Please ensure this form is annexed to the TC Report to the CENELEC Technical Board if it has been prepared during a meeting, or sent to CCMC promptly after its contents have been agreed by the Committee by correspondence.

TC or SC title: Safety of measuring, control, and laboratory equipment

A Background

The publications of the EN 61010 series are structured in accordance with ISO/IEC Directives Part 2 6.3 b) Example 5.

Because this structure is unique to IEC documents, the series structure has limited compatibility with machinery safety standards. This has led to difficulties with harmonisation.

Part of the work of CLC/TC66X is to determine how the two systems can be integrated enough to enable harmonisation of 61010 series standards to the relevant Directives according to industry demand.

Manufacturers selling into the EU need Harmonised EN standards for safety for equipment in the scope of IEC/TC66 giving a presumption of conformity for the safety aspects of the following EU Directives

- Low Voltage Directive, 2014/35/EU
- Machinery Directive, 2006/42/EU
- In Vitro Diagnostic Medical Device Directive, 98/79/EC and its successor In Vitro Diagnostic Regulation, 2017/746
- RED Directive, 2014/53/EU

At the moment, only LVD has good coverage in the 61010 series of standards.

The work of providing EN Harmonised standards has fallen on members of IEC TC66. This has also had the effect that in IEC/TC66 committee meetings a lot of time is spent dealing with European level issues rather than concentrating on the international level. The workload is sufficient that a mirror committee at European level is needed.

B Business Environment

B.1 General

The market for equipment within the scope of TC 66 and IEC 61010 is large and growing. The equipment are used in a wide range of industry and educational establishments and by users with very different levels of technical knowledge. Manufacturers rely on the IEC 61010 series both to ensure that their products meet the state of the art safety requirements and to demonstrate that they meet national safety regulations, while users rely on them for assurance.

B.2 Market demand

Customers are manufacturers and users of equipment, test houses, and national authorities responsible for safety at work.

The level of representation of manufacturers and test houses on CLC/TC 66X is satisfactory but the work of the committee would greatly benefit from representation by users of equipment.

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There are no suitable standards being developed by other organizations.

It will be necessary to maintain current standards developed by IEC/TC 66 and to prepare new standards as necessary to deal with future regulatory and equipment developments.

B.3 Trends in technology

Wireless devices and Internet of Things are becoming more common including remote control and display which could cause safety problems

With increase digitization software is becoming more relevant in the control of safety functions and hence there is a need for requirements for functional safety.

Electromagnetic phenomena are becoming sufficiently prevalent to cause safety concerns with the equipment in the scope of CLC/TC 66X.

Systems aspects including external communications are becoming more relevant in the control of safety functions and hence there is a need for requirements for functional safety.

B.4 Market trends

Work place safety regulations are evolving to require greater attention to usability, common user interface, and ergonomics.

Electricity still is a major factor in our energy-supply. The need to measure and control the supply sources is continuously growing. Also e-mobility is a new trend; here the need for special control and measuring equipment and its safety requirements will increase also.

B.5 Ecological environment

CLC/TC 66X considers that although the effect on the environment of electrical equipment within its scope is small it should be considered in future work. CLC/TC 66X standards do not deal with the product requirements of components because these are dealt within the relevant product TCs. Materials which may be part of the required function, materials which may be processed by the equipment and enclosures may need specific ecological requirements in CLC/TC 66X standards. Provisions for energy-efficiency and disposal /recycling are taken into account in the activities of CLC/TC 66X.

B.6 Involvement of societal stakeholders

CLC/TC 66X participation is principally from manufacturers, test houses and certification bodies. Due to the relationship with IEC/TC 66 this is at both European and international level.

B.7 Involvement of SMEs

CLC/TC 66X makes its experts aware of CEN-CENELEC Guide 17 "Guidance for writing standards taking into account micro, small and medium-sized enterprises (SMEs) needs"

C System approach aspects

At safety standardization level, CLC/TC 66X intends to set up liaisons with the following Technical Committees:

CLC/TC 66X as customer:

-IEC/TC 66 Safety of measuring, control, and laboratory equipment

-CLC/TC 44X - Safety of machinery - Electrotechnical aspects

-IEC/SC 62A - Common aspects of electrical equipment used in medical practice

-JWG CEN/TC 182 CLC/TC 61- Safety of refrigeration appliances for household and commercial use

-CLC/TC 64 - Electrical installations and protection against electric shock

-IEC/SC 65A – System aspects

-ISO/TC 86 - Refrigeration and air-conditioning

-CLC/SR 89 – Fire hazard testing

-CLC/SR 96 - Transformers, reactors, power supply units, and combinations thereof

-CLC/TC 99X - System engineering and erection of electrical power installations in systems with nominal voltages above 1 kV a.c. and 1,5 kV d.c., particularly concerning safety aspects

-CLC/TC 108X - Safety of electronic equipment within the field of audio/video, information technology and communication technology

-CLC/SR 109 - Insulation co-ordination for low-voltage equipment

CLC/TC 66X as supplier: other system Committees:

-IEC/TC 66 Safety of measuring, control, and laboratory equipment

-CLC/TC 13 - Electrical energy measurement and control

-SC 22E - Stabilized power supplies CLC TC22X

-CLC/TC 38 - Instrument transformers

-CLC/TC 44 – Safety of machinery – Electrotechnical aspects

-IEC/SC 65B – Measurement and control devices

-CLC/TC 78 - Live working

-CLC/TC 85X - Measuring equipment for electrical and electromagnetic quantities

D Objectives and strategies (3 to 5 years)

1) Identify and agree which parts of the EN 61010 series needs to be harmonised under which EU directives;

2) Develop an approach to getting the EN 61010 series standards harmonised under the EU machinery directive with the minimum number of common modifications to the corresponding IEC standards;

3) Get the complete range harmonised as detailed in 1) and 2) above;

4) CLC/TC 66X will work closely with IEC/TC 66 to ensure that any changes found necessary at European level are understood at the international level in the interest of maintaining the quality of the international standards;

5) Develop action plans for each standard in the range to ensure the necessary coverage.

E Action plan

1) Agree suitable working group structure to get the work done.

1) Get a sample particular standard assessed by a machinery consultant (opinion) to start the process of developing an approach.

2) Conduct a survey of members to establish which essential safety requirements of directives are most important and which parts of the 61010 series need to be harmonised under which directives.

3) Manage the existing work through to completion.

F Useful links to CENELEC web site

TC home page giving access to Membership, TC/SC Officers, Scope, Publications, Work programme [password-protected area].

David Hyde Secretary of CLC/TC 66X