

CEN Reference: BT N 11517
CENELEC Reference: BT162/DG11247/INF

Simultaneous circulation to CEN and CENELEC TECHNICAL BOARDS

BT by correspondence	Common Agenda item:	5.1.7
For information	Issue date:	2019-03-20

SUBJECT

New CEN-CENELEC Workshop 017 on 'Development of a GALILEO enabled label'

BACKGROUND

The Workshop is proposed within the context of the research project development of a GALILEO enabled label, which is being developed in response to the technical, management and financial requirements included in the European Commission Specific Contract No 8 under Framework Contract ENTR/396/PP/2014/FC – Legal, Technical and Organisational Support for the EC’s Activities on GNSS Applications.

The CWA content will be:

- 1) Definition of the possible functionalities of a “GALILEO Enabled” device or application:
 - Connectivity: Acquisition of GNSS raw measurements, provision or use of Galileo Improved PVT (GIPVT).
 - Generation of GIPVT: Generation of GIPVT, Ionosphere delay handling, Performance in urban environments, Processing of Galileo SIS flags.
- 2) Definition of the performance requirements (Key Performance Indicators) for different functionalities in different conditions (nominal, obstruction, severe multipath, wrong ephemeris data, severe ionosphere). The kind of KPI to include would be:
 - Number of satellites used in the PVT computation.
 - Dilution Of Precision (DOP).
 - Availability.
 - Accuracy.
 - Robustness.
- 3) Definition of the test suite so that innovation is fostered and costs are minimized. The task of tests definition will include:
 - Definition of the test policy. A black box approach will be followed.
 - Description of the set-up of the test environment for each of the integration

levels. Depending on the integration level, this could include a Faraday cage (shielding box), signal generators, WiFi access points, SW environments, etc. It is noted that the set-ups selected will try to minimize costs, will use standards whenever possible and will not refer to proprietary solutions or products.

- Identification of the tests that can be saved if the product under test integrates a “GALILEO Enabled” product.
- Description of the test characteristics with special emphasis to stress conditions that could be used to ensure the appropriate use of GALILEO information.

Draft Project Plan

The draft Project Plan of the Workshop can be found in Annex 1.

Self-Assessment

The Self-Assessment is provided in Annex 2. The four conditions under which there is a need for the agreement of the BT members before proceeding with the process to launch a Workshop were analysed:

- The Workshop will not deal with safety matters, which was confirmed by the proposed Secretariat (UNE);
- The proposed Workshop does not deal with conformity assessments aspects;
- The proposed Workshop does not deal with management systems aspects;
- The proposed CWA does not fall within the scope of other TCs – this has been confirmed by the secretariat of CEN-CLC/JTC 5.

On request of CCMC, CEN-CLC/JTC 5 'SPACE' was contacted by the proposed Workshop secretariat which confirmed that the above criteria were respected.

Therefore, there is no need for a BT decision.

Kick-off meeting

The kick-off meeting of the Workshop will be held on 29 April 2019 at the following address:

UNE

Génova, 6

28004 MADRID - SPAIN

The Workshop was also announced on the CEN website at:

<https://www.cen.eu/news/workshops>

Secretariat

UNE will provide the Workshop secretariat, subject to formal approval of the Project Plan during the kick-off meeting.

Should you have any comments on the launching of this CEN Workshop or on its proposed Project Plan, you are invited to contact Thierry Legrand (tlegrand@cencenelec.eu) or José Antonio JIMÉNEZ CABALLERO (jjimenez@une.org)

2019-03-15 – TL/OC

DRAFT**Project Plan for the CEN-CENELEC Workshop N.017 on “Development of a GALILEO enabled label” GALILEOLABEL****CEN-CENELEC WS 17****1. Status of the Project Plan**

Draft Project Plan to be approved at the Kick-off meeting of the Workshop.

2. Background to the Workshop

The project “Development of a GALILEO enabled label” is being developed in response to the technical, management and financial requirements included in the European Commission Specific Contract No 8 under Framework Contract ENTR/396/PP/2014/FC – Legal, Technical and Organisational Support for the EC’s Activities on GNSS Applications.

As explained and detailed in EC’s Task Specifications, in its Space Strategy (adopted in October 2016), the European Commission (EC) highlighted the contribution of GNSS technologies to economy and society at large and therefore stressing the role that Galileo and EGNOS play in it. The European Commission therefore aims to increase the visibility and awareness around EGNOS and Galileo, also in the mass market, and to enable users in those segments to benefit from their advanced features vis-à-vis GPS standalone.

The objectives of the project are the following:

(Please take into account that the following are the objectives of the whole European Project. Only item 1) will be developed within the Workshop, see clause “4. Workshop scope and objectives” for more details. No conformity assessment aspects will be addressed in the CWA).

- 1) Define the technical verification process for mass market receivers’ manufacturers and certification laboratories on how to test/verify/validate Galileo-capacity, as it has been done for EGNOS-enabled receivers. The Contractor shall also define a Galileo-enabled label for mass market receivers with Galileo-capacity;
- 2) Define the procedural standardised roadmap for manufacturers on how to obtain Galileo-Enabled label, via a voluntary verification scheme similar to the one of EGNOS-Enabled label (i.e. fully compliant with the accreditation rules governing the authorization of testing laboratories by accreditation bodies across the EU and general consumer electronics industry practices);
- 3) Assist the Commission in preparing the necessary acts (i.e. Implementing Decision) to bring the Galileo-Enabled voluntary verification scheme to the market, similarly to what has been done for the EGNOS-Enabled label;
- 4) Promote the initiative targeting the receivers’ manufacturers and the relevant GNSS community, to generate incremental and self-fuelling awareness among consumers.

Market relevance:

As Europe is on track of finalizing and operationalizing the civilian-owned and operated GNSS constellation Galileo by 2020, European GNSS (EGNSS) is destined to play an important role in the European Space Strategy, as adopted by the European Commission (EC) in October 2016. This Space Strategy highlights the importance and the contribution of GNSS technologies to the economy and society at large. The European GNSS Agency (GSA) estimated in its latest GNSS Market Report published in 2017 that EU28 revenues linked to GNSS applications contributed to €21.9 billion in 2015 and forecasts these revenues to reach €59.4 billion by 2025, effectively taking a 22% share of the worldwide revenue stream of GNSS applications. By 2025, global revenues are forecasted to reach €268.1 billion

Legal environment:

The current regulatory and legislative status and most relevant directives supporting the adoption of GNSS in domains such as road transportation, road safety, and Common Agriculture Policy are the following:

- Directive 2004/52/EC (EFC directive) on the interoperability of electronic road toll systems in the Community;
- Commission Decision 2009/750/EC on the definition of the European Electronic Toll Service and its technical elements
- Directive 2010/40/EU (ITS directive) on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport;
- Commission Decision 2009/750/EC on the definition of the European Electronic Toll Service and its technical elements;
- Commission Delegated Regulation (EU) No 305/2013 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the harmonised provision for an interoperable EU-wide eCall;
- Regulation (EU) 2015/758 of the European Parliament and of the Council of 29 April 2015 concerning type-approval requirements for the deployment of the eCall in-vehicle system based on the 112 service and amending Directive 2007/46/EC
- Commission Implementing Regulation (EU) 2017/78 establishing administrative provisions for the EC type-approval of motor vehicles with respect to their 112-based eCall in-vehicle systems
- Commission Delegated Regulation (EU) 2017/79 of 12 September 2016 establishing detailed technical requirements and test procedures for the EC type-approval of motor vehicles with respect to their 112-based eCall in-vehicles systems, of 112-based eCall in-vehicle separate technical units and components
- Council Regulation (EEC) No 3821/85 on recording equipment in road transport and Regulation (EC) No 561/2006 of the European Parliament and the Council, amended by proposal (EC) No 561/2006 of the European Parliament and of the Council;
- Regulation 2005/1/EC on animal protection during transport and related operations. DG SANCO working document on the “Equipment for navigation systems for livestock vehicles for long distance transport”;
- Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment

- Directive 2013/53/EU of the European Parliament and of the Council of 20 November 2013 on recreational craft and personal watercraft and repealing Directive 94/25/EC Text with EEA relevance

- Regulation No. 2016/799 and Regulation No. 165/2014

NOTE The CWA will not be used for compliance to the abovementioned Regulations.

Standardization activities:

The identified standardization activities currently developed by CEN and CENELEC and related with the Scope of the WS are the following:

CEN/CENELEC/JTC 5 “Space”:

EN 16803-1:2016 Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 1: Definitions and system engineering procedures for the establishment and assessment of performances

prEN 16803-1 Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 1: Definitions and system engineering procedures for the establishment and assessment of performances

prEN 16803-2 Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 2: Assessment field tests for basic performances of GNSS-based positioning terminals

prEN 16803-3 Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 3: Assessment field tests for security performances of GNSS-based positioning terminals

NOTE The abovementioned standards and projects of standards cover GNSS-based positioning for road Intelligent Transport Systems, a more stringent field of application than mass market receivers covered by the CWA to be developed.

3. Workshop proposers and Workshop participants

The workshop proposers are VVA, GMV and ATN.

- VVA is an international strategy consulting firm with a European network. Management consulting is the core activity of VVA, with a strong focus in the industries interested by GNSS applications (e.g. LBS, Telecommunications, Road, Rail, Aviation, Agriculture, Logistics, etc.).

- GMV provides engineering, expert support services and turn-key IT systems and solutions for aeronautics, space, defense, security, healthcare, transportation and IT & Telecommunications markets.

- ALTER TECHNOLOGY TÜV NORD is a quality driven company providing engineering and test services for electronic systems and E.E.E. components, within the space and harsh environment markets.

The Workshop participation will be open to all interested parties.

4. Workshop scope and objectives

The aim of the Workshop is to develop a CWA on the technical requirements for the different performance levels and the associated verification procedures of GALILEO Enabled receivers for mass market.

The CWA shall only cover the item 1) of the Clause 2 “Background to the Workshop”, namely, the first objective of the project “Development of a GALILEO Enabled Label”.

The CWA content should be the following:

- 1) Definition of the possible functionalities of an “GALILEO Enabled” device or application:
 - Connectivity: Acquisition of GNSS raw measurements, provision or use of Galileo Improved PVT (GIPVT).
 - Generation of GIPVT: Generation of GIPVT, Ionosphere delay handling, Performance in urban environments, Processing of Galileo SIS flags.

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 - Identification of the tests that can be saved if the product under test integrates a “GALILEO Enabled” product.
 - Description of the test characteristics with special emphasis to stress conditions that could be used to ensure the appropriate use of GALILEO information.

NOTE Safety aspects are excluded of the Scope of this CWA, as mass market receivers are not aimed at performing safety functions.

The CEN/CENELEC Workshop Agreement is the proposed approach due to the following advantages:

- Agility: The time frames for the other standardization options do not match the planned schedule for this project.
- The Workshop Agreement provides the sought acknowledge of the industry across the EU by submitting the technical specification to the workshop process providing openness in process and visibility to all market players.
- The Workshop Agreement assures the involvement of the industry (laboratories, component and terminal manufacturers, integrators, application developers) as the workshop is open to anyone, including non-European participants. The opportunity to participate is widely advertised in advance by CEN/CENELEC and its member bodies.
- The Workshop Agreement guarantees that the different views of the stakeholders interested in the standard are taken into account.
- The Workshop Agreement ensures availability of information to all parties, enquiry among participants, involvement of CEN/CENELEC members during acceptance, and in summary a fully open and transparent process.

5. Workshop programme

The CWA will be drafted and published in English.

The planned timeframe for the CWA development is the following:

Description	Time	Place	Duration
Announcement of the CEN/WS on CEN website	March 2019	N/A	30 days' notice
CEN/WS Kick Off of Workshop	April 2019	Madrid	1 day
First draft of the CWA deliverable	April 2019	N/A	N/A
Circulation of 1 st Draft CWA and collection of comments	April 2019	N/A	1 month
CEN/WS 1 st Plenary Meeting	May 2019	TBD	1 day
2 nd Draft of the CWA deliverable	June 2019	N/A	N/A
Circulation of 2 st Draft CWA and collection of comments	June 2019	N/A	15 days
CEN/WS 2 nd and final Plenary Meeting (final version/approval of deliverable)	July 2019	TBD	1 day
Publication of CWA deliverable after editorial check	September/October 2019	N/A	N/A
* The Time-plan is subjected to be modified in relation to the drafting process of the CWA and to the eventual decision on the submission of the document to 60-days commenting phase.			

6. Workshop structure

The Workshop will operate under the CEN/CENELEC rules for the CEN/CENELEC Workshop Agreement. A Workshop Chair will manage the Workshop. The Chairman will be appointed at the kick-off meeting.

The responsibility of the Workshop Chair is to preside at Workshop plenary meetings, to ensure the Workshop develops according to the Project Plan and to manage the consensus building process.

Under the responsibility of the Workshop Chair, the Secretariat will support the Workshop in all its activities.

7. Resource requirements

All costs related to the participation of interested parties in the Workshop's activities have to be borne by themselves.

The workshop secretariat will be carried out by the Spanish Association for Standardisation, UNE.

8. Contact points

Proposed Chairperson:

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Proposed Secretariat:

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CEN-CENELEC Guide 29: 2014

Annex A
(normative)
Template for the self-assessment

Title of the proposed CWA: Verification of performance levels of GALILEO Enabled mass-market receivers

1. Does the proposed CWA conflict with an EN or an HD for CENELEC?

- NO
 YES → **WARNING:** Work on the proposed CWA shall not be initiated.

2. Does the proposed CWA intend to define requirements related to safety aspects?

- NO
 YES Is the proposed CWA within the scope of
 CEN? → The CWA proposal shall be submitted to CEN/BT for decision.
 CENELEC? → **WARNING:** Work on the proposed CWA shall not be initiated.

3. Is the scope of the proposed CWA within the scope of an existing CEN/CENELEC technical body?

- NO
 YES → The relevant CEN/CENELEC technical body shall be consulted on the CWA proposal:
 - If this technical body responds positively and sees no harm in the CWA being developed, the CWA proposal may be processed.
 - If the technical body is opposed to a CWA being launched, the CWA proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

4. Does the proposed CWA intend to define requirements related to management system aspects?

- NO
 YES → The CWA proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

5. Does the proposed CWA intend to define requirements related to conformity assessment aspects?

- NO
 YES → CEN/CENELEC Internal Regulations - Part 3, 6.7 applies.

If all these questions are answered NO, the CWA proposal may be processed.

If not, special conditions apply as given above.

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