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CENELEC Reference: BT180/DG16837/INF

Simultaneous circulation to CEN and CENELEC TECHNICAL BOARDS

BT by correspondence	CENELEC Agenda item:	5.1.3
For information	Issue date:	2025-02-12

SUBJECT

CEN-CLC/WS DPP for Machines - Announcement

BACKGROUND

DIN has put forward a proposal for a joint CEN-CENELEC Workshop under CEN lead, aimed at developing a Workshop Agreement which will define the content and data of a Digital Product Passport (DPP) for machines. CCMC first received the proposal in late November 2024. A consultation period of 45 days was then held, during which no objections were made.

In today's rapidly evolving industrial landscape, the efficient management of information and data is a critical driver of innovation, sustainability, and competitiveness. As machinery plays a fundamental role across various sectors, from manufacturing to agriculture, the need for robust mechanisms to track, analyze, and utilize machine-related data has never been more pressing. The European Commission, recognizing this necessity, has advocated for the development of a Digital Product Passport (DPP) to enhance transparency, traceability, and the circular economy.

The CEN-CENELEC Workshop aims to address this strategic imperative by developing a standardized DPP for machines. This initiative aligns with broader EU directives and policies such as the Circular Economy Action Plan, aiming to foster sustainability and resource efficiency across industries. Through standardization, the DPP will provide a uniform framework for collecting, storing, and conveying essential information about machines throughout their lifecycle.

The initiative aligns with several directives and European legislation, particularly those concerning digital single markets, data protection regulations (like GDPR for data handling), and standards for interoperability in industrial operations.

The CWA is tailored for industrial manufacturers, machine producers. It is also invaluable for stakeholders interested in adopting sustainable practices through the use of repaired, reused, or recycled equipment. The data fields defined in this CWA can optimize the machines operational and material efficiencies by leveraging all relevant attributes for further steps in the lifecycle of a machine (reuse, recycle or repair).

The envisaged document should not be misconstrued as a detailed manufacturing manual for constructing new machines, nor does it cover safety regulations. Instead, it focuses on the data management and sustainability aspects of machines and components. The envisaged document

excludes the definition of an IT infrastructure and will be orientated on the current developments of CEN/CLC-JTC 24 - DPP.

Draft project plan

The draft Project Plan of the proposed CEN Workshop is in Part B of the Workshop description form in Annex 1.

Workshop description

According to the Workshop description form (see Annex 1), the Workshop can be created and there is no need for approval by BT Permanent Delegates before proceeding to launch the workshop, as:

- The proposed Workshop does not deal with safety matters;
- The proposed Workshop does deal with conformity assessments aspects;
- The proposed Workshop does not deal with management systems aspects;
- The proposed Workshop does not deal with security matters.

The proposed Workshop falls within the scope of existing CEN-CLC/JTC 24 “Digital Product Passport – Framework and System”, CLC/TC 65X “Industrial-process measurement, Control and automation” and CEN/TC 473 “Circular Economy” which did not oppose to the creation of the CEN-CLC/WS and will be involved in its development.

Kick-off meeting

The kick-off meeting of the Workshop will be held on 2025-03-24 as a web meeting. The Workshop is also announced on the [CEN-CENELEC website](#).

Secretariat

Should you have any comments on the launch of this CEN-CENELEC Workshop or on its proposed Project Plan, you are invited to contact the Workshop Secretary, Syad Akkoub (Syad.Akkoub@din.de).

The CCMC contact person is Claire Van Thielen (cwa@cencenelec.eu).

2025-02-07 – CVT

CEN and CLC Workshop “DPP for Machines”

Workshop description form

- PART A – Workshop Summary
- PART B – Project Plan



PART A – Workshop SUMMARY

1	WS details:																	
1.1.	Organization	<input type="checkbox"/> CEN <input type="checkbox"/> CENELEC <input checked="" type="checkbox"/> Joint with <input checked="" type="checkbox"/> CEN lead <input type="checkbox"/> CENELEC lead																
1.2.	Title	CEN/CLC WS DPP for Machines (select CEN or CLC or leave CEN/CLC in case of joint WS)																
1.3.	Scope	<p>This CEN-CLC WS will elaborate a CWA which defines the content and data of a digital product passport (DPP) for machines.</p> <p>The CWA is tailored for industrial manufacturers, machine producers. It is also invaluable for stakeholders interested in adopting sustainable practices through the use of repaired, reused, or recycled equipment. The data fields defined in this CWA can optimize the machines operational and material efficiencies by leveraging all relevant attributes for further steps in the lifecycle of a machine (reuse, recycle or repair).</p> <p>The envisaged document should not be misconstrued as a detailed manufacturing manual for constructing new machines, nor does it cover safety regulations. Instead, it focuses on the data management and sustainability aspects of machines and components. The envisaged document excludes the definition of an IT infrastructure and will be orientated on the current developments of CEN/CLC-JTC 24 - DPP.</p>																
1.4.	Does this WS stem from an EU Research project?	<input checked="" type="checkbox"/> YES Name of the project: AIDEAS Grant number: 101057294 End date 30.09.2025 <input type="checkbox"/> NO																
1.5.	Financial support	<input checked="" type="checkbox"/> EU Research project: HORIZON-CL4-2021-TWIN-TRANSITION-01-07 <input type="checkbox"/> EC/EFTA Grant reference: Type here <input type="checkbox"/> Other Specify, if needed: Type here																
1.6.	WS Proposer/Proposed Chair WS proposer	<table border="0"> <tr> <td>Name:</td> <td>Grigoris Tzionis</td> </tr> <tr> <td>Organization:</td> <td>CERTH – Centre for Research and Technology</td> </tr> <tr> <td>Postal address:</td> <td>Hellas 57001</td> </tr> <tr> <td>Email:</td> <td>gtzionis@iti.gr</td> </tr> <tr> <td>Phone:</td> <td>+30 231 125 7701</td> </tr> <tr> <td>Webpage:</td> <td>https://www.iti.gr/iti/en/ ,</td> </tr> <tr> <td>Contact person (name and email):</td> <td>https://www.certh.gr/root.en.aspx</td> </tr> <tr> <td></td> <td>Type here</td> </tr> </table>	Name:	Grigoris Tzionis	Organization:	CERTH – Centre for Research and Technology	Postal address:	Hellas 57001	Email:	gtzionis@iti.gr	Phone:	+30 231 125 7701	Webpage:	https://www.iti.gr/iti/en/ ,	Contact person (name and email):	https://www.certh.gr/root.en.aspx		Type here
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Contact person (name and email):	https://www.certh.gr/root.en.aspx																	
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1.7.	WS Secretariat	Organization: Postal address: Email: Phone: Webpage: WS Secretary name: Email: Phone:	DIN e.V. DIN e. V. Am DIN-Platz, Burggrafenstraße 6, 10787 Syad.akkoub@din.de +49 30 2601-2366 https://www.din.de/de Syad Akkoub Syad.akkoub@din.de +49 30 2601-2366
1.8.	CEN and CENELEC Management Centre (CCMC) contact	Organization: Postal address: Webpage: CCMC Project Manager name: Email: Phone:	CEN and CENELEC Rue de la Science 23B - 1040 Brussels, Belgium https://www.cencenelec.eu/Pages/default.aspx Cami Ardit acami@cencenelec.eu +32 2 550 0822 Type here
1.9.	Tentative date and place of the Kick-off Meeting	Date: 2025-03-24	Place: Webmeeting
1.10.	Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies?¹	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Specify: possibly CEN-CLC/JTC 24 DPP, CLC/TC 65X and CEN/TC 473
1.11.	Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ²	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Specify: CEN-CLC-ETSI SMA-CG; CEN/WS Cricthread; CEN-CLC/WS DPP for PCBs
1.12.	Are the following aspects affected?	Safety matters Management system aspects Conformity assessment aspects Security matters	YES ³ <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES ⁴ <input type="checkbox"/> 7 <input checked="" type="checkbox"/> YES ⁵ <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES ⁶ <input type="checkbox"/> NO <input checked="" type="checkbox"/> 8
		Add information/explanations if Management System aspects and Conformity Assessment aspects are affected: Type here	
2	WS Deliverables		
2.1.	CWA #1		

¹ Part A and Part B of this form shall be sent by the WS secretary to the secretary of the Technical Bodies identified in this section to inform them about the creation of the WS and register any possible objection within 30 days (45 during the holiday period).

² Part A and Part B of this form should be sent by the WS secretary to the Bodies identified in this section to inform them about the creation of the WS.

³ Work on the proposed CEN and/or CENELEC Workshop shall not be initiated.

⁴ The CEN and/or CENELEC Workshop proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

⁵ CEN-CENELEC Internal Regulations - Part 3, Clause 33 applies.

⁶ For projects dealing with security matters the security risk analysis provided in Annex 1 shall be carried out.

⁷ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

⁸ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

2.1.1	Title	<input checked="" type="checkbox"/> <input type="checkbox"/>	Same as WS title (1.2) Other: Type here
2.1.2	Scope		<p>This CEN-CLC WS will elaborate a CWA which defines the content and data of a digital product passport (DPP) for machines.</p> <p>The CWA is tailored for industrial manufacturers, machine producers. It is also invaluable for stakeholders interested in adopting sustainable practices through the use of repaired, reused, or recycled equipment. The data fields defined in this CWA can optimize the machines operational and material efficiencies by leveraging all relevant attributes for further steps in the lifecycle of a machine (reuse, recycle or repair).</p> <p>The envisaged document should not be misconstrued as a detailed manufacturing manual for constructing new machines, nor does it cover safety regulations. Instead, it focuses on the data management and sustainability aspects of machines and components. The envisaged document excludes the definition of an IT infrastructure and will be orientated on the current developments of CEN/CLC-JTC 24 - DPP.</p>
2.1.3	Does the proposed CWA conflict with a published EN	<input type="checkbox"/> <input checked="" type="checkbox"/>	YES Specify: Type here NO In case the answer is 'yes', the development of the CWA shall be stopped

PART B – Project Plan

1 Status of the project plan

Draft project plan for public commenting (Version 1.0)

This draft project plan is intended to inform the public of a new Workshop. Any interested party can take part in this Workshop and/or comment on this draft project plan by sending an email to the WS secretary.

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off meeting of the Workshop on 2025-03-24.

1.1 Workshop proposer

Person (and organization) 1: Grigoris Tzionis – Centre for Research and Technology Hellas (CERTH)

Postal address: Information Technologies Institute, Centre for Research & Technology – Hellas (CERTH), 6th km Harilaou - Thermis, 57001, Themi – Thessaloniki, Greece

Email: gtzionis@iti.gr

Phone: +30 231 125 7701

Webpage: <https://www.iti.gr/iti/en/> , <https://www.certh.gr/root.en.aspx>

Contact person (name and email): Grigoris Tzionis (gtzionis@iti.gr)

Short description and interest in the subject: Grigoris Tzionis holds a Bachelor's and Master's degree in Electrical and Computer Engineering, along with a second Master's in Applied Informatics. With over 5 years of experience in the research sector, working at CERTH, primarily focusing on Horizon Europe research programs in industrial applications and one program in human and climate research. Grigoris is also pursuing a PhD specializing in explainable AI in industry.

Person (and organization) 2: Georgia Kougka – Centre for Research and Technology Hellas (CERTH)

Short description and interest in the subject: Georgia Kougka is a postdoc and her research interests lie in the field of data-centric flow modeling, optimization and execution, but also in business process optimization. Moreover, she has also participated in several research programs and other research interests are the data pre-processing in order to create artificial events based on sensor measurements for predictive maintenance purposes in Industry 4.0 scenarios. Finally, she deals with data analysis in Smart Agriculture and Energy Disaggregation scenarios. Her published research results provide an advanced insight in data analytics optimization.

1 Potential participants

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of the following persons/organizations would be helpful and is desired. It is recommended that:

- Manufacturers
- Industry associations
- Service providers
- Environmental organizations
- Academic institutions

take part in the development of this CWA.

Already known participants are:

- Georgia Kougka (CERTH)
- Georgia Apostolou (CERTH)
- Themis Kavour (CERTH)
- Ilias Gialampoukidis (CERTH)
- Stefanos Vrochidis (CERTH)
- Samuel Afolaranmi (TAU)
- Yasir Rathore (TAU)
- Elahi Mahboob (TAU)
- Rafael Espadas (IKERLAN)

2 Workshop objectives and scope

2 Workshop background

In today's rapidly evolving industrial landscape, the efficient management of information and data is a critical driver of innovation, sustainability, and competitiveness. As machinery plays a fundamental role across various sectors, from manufacturing to agriculture, the need for robust mechanisms to track, analyze, and utilize machine-related data has never been more pressing. The European Commission, recognizing this necessity, has advocated for the development of a Digital Product Passport (DPP) to enhance transparency, traceability, and the circular economy.

The CEN-CLC Workshop aims to address this strategic imperative by developing a standardized DPP for machines. This initiative aligns with broader EU directives and policies such as the Circular Economy Action Plan, aiming to foster sustainability and resource efficiency across industries. Through standardization, the DPP will provide a uniform framework for collecting, storing, and conveying essential information about machines throughout their lifecycle.

This workshop stems from the collaborative efforts within European Projects, particularly those funded under Horizon 2020 and Horizon Europe, which focus on advancing manufacturing technologies and AI applications in industrial settings.

The workshop and its activities are supported by EC/EFTA funding, aligning with European initiatives to promote innovation in manufacturing and digital technologies across the continent.

The initiative aligns with several directives and European legislation, particularly those concerning digital single markets, data protection regulations (like GDPR for data handling), and standards for interoperability in industrial operations.

Standards, the envisaged CWA shall comply with are i.e.:

- IEC 63538 ED1 „Lifecycle-events: information models and services“. (IEC/TC 65)
- WI 00473003 Circular Economy – Product-related data and information sharing along value networks (CEN/TC 473)

2.1 Workshop Scope

This CEN-CLC WS will elaborate a CWA which defines the content and data of a digital product passport (DPP) for machines.

The CWA is tailored for industrial manufacturers, machine producers. It is also invaluable for stakeholders interested in adopting sustainable practices through the use of repaired, reused, or recycled equipment. The data fields defined in this CWA can optimize the machines operational and material efficiencies by leveraging all relevant attributes for further steps in the lifecycle of a machine (reuse, recycle or repair).

The envisaged document should not be misconstrued as a detailed manufacturing manual for constructing new machines, nor does it cover safety regulations. Instead, it focuses on the data management and sustainability aspects of machines and components. The envisaged document excludes the definition of an IT infrastructure and will be orientated on the current developments of CEN/CLC-JTC 24 - DPP.

3 Workshop programme

3.1 General

The kick-off meeting is planned to take place on 24.03.2025 as a virtual meeting. A draft for public commenting will be published for 30 days.

A total of 6 Workshop meetings (kick-off meeting and Workshop meetings) and web conferences will be held, during which the content of the CWA(s) will be presented, discussed and approved.

The working language (language of meetings, minutes, etc.) of the WS will be English. The CWA will be written in English.

3.2 Workshop schedule

Table 1: Workshop schedule (preliminary)

CEN/CENELEC Workshop	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	
Initiation	█											
1. Workshop description form submission and TC	█											
2. Open commenting period on draft project plan		█										
Operation			█									
3. Kick-off meeting			█									
4. CWA(s) development			█									
5. Open commenting period on draft CWA(s) (optional)							█					
6. CWA(s) finalized and approved by Workshop									█			
Publication									█			
7. CWA(s) publication										█		
Dissemination (see 6)		█					█		█			
Milestones			K	V	V	V	V		V/A		P	D



Legend

- K** Kick-off
- M** Workshop meeting
- V** Virtual Workshop meeting
- A** Adoption of CWA
- P** Publication of CWA
- D** Online distribution of CWA

4 Resource planning

The CEN Workshop is financed by the European research project AIDEAS (AI Driven Industrial Equipment Product Life Cycle Boosting Agility, Sustainability and Resilience). This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101057294.

All costs related to the participation of interested parties in the Workshop's activities have to be borne by themselves. The copyright of the final CEN Workshop Agreement will be at CEN. The final document will include the following paragraph: "Results incorporated in this CEN Workshop Agreement received funding from the European Union's Horizon Europe research and innovation programme under grant agreement number 101057294 (AIDEAS)".

5 Workshop structure and rules of cooperation

5.1 Participation in the Workshop

The Workshop will be constituted during the kick-off meeting. By approving this project plan, the interested parties declare their willingness to participate in the Workshop and will be formally named as Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the Workshop.

As a rule, the request to participate in the Workshop is closed once it is constituted. The current Workshop participants shall decide whether any additional members will be accepted or not.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time. It is particularly important to consider these aspects:

- a. expansion would be conducive to shortening the duration of the Workshop or to avoiding or averting an impending delay in the planned duration of the Workshop;
- b. the expansion would not result in the Workshop taking longer to complete;
- c. the new Workshop participant would not address any new or complementary issues beyond the scope defined and approved in the project plan;
- d. the new Workshop participant would bring complementary expertise into the Workshop in order to incorporate the latest scientific findings and state-of-the-art knowledge;
- e. the new Workshop participant would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
- f. the new Workshop participant would ensure wider application of the CWA.

All Workshop participants who approved the publication of the CWA or its draft will be named as authors in the European Foreword, including the organizations which they represent. All Workshop participants who did not approve the publication of the CWA will not be named in the European Foreword.

5.2 Workshop responsibilities

The Workshop Chair is responsible for content management and consensus building. The Workshop Chair is supported by the Workshop Vice-Chair (if any) and the responsible Workshop secretariat, whereby the Workshop secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles

governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer be able to carry out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings
- Ensures that the development of the CWA respects the principles and content of the adopted project plan
- Manages the consensus building process, assesses when the Workshop participants have reached agreement on the final CWA, on the basis of the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by a CEN and/or CENELEC Member, is responsible for organizing and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organized by the Workshop secretariat in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

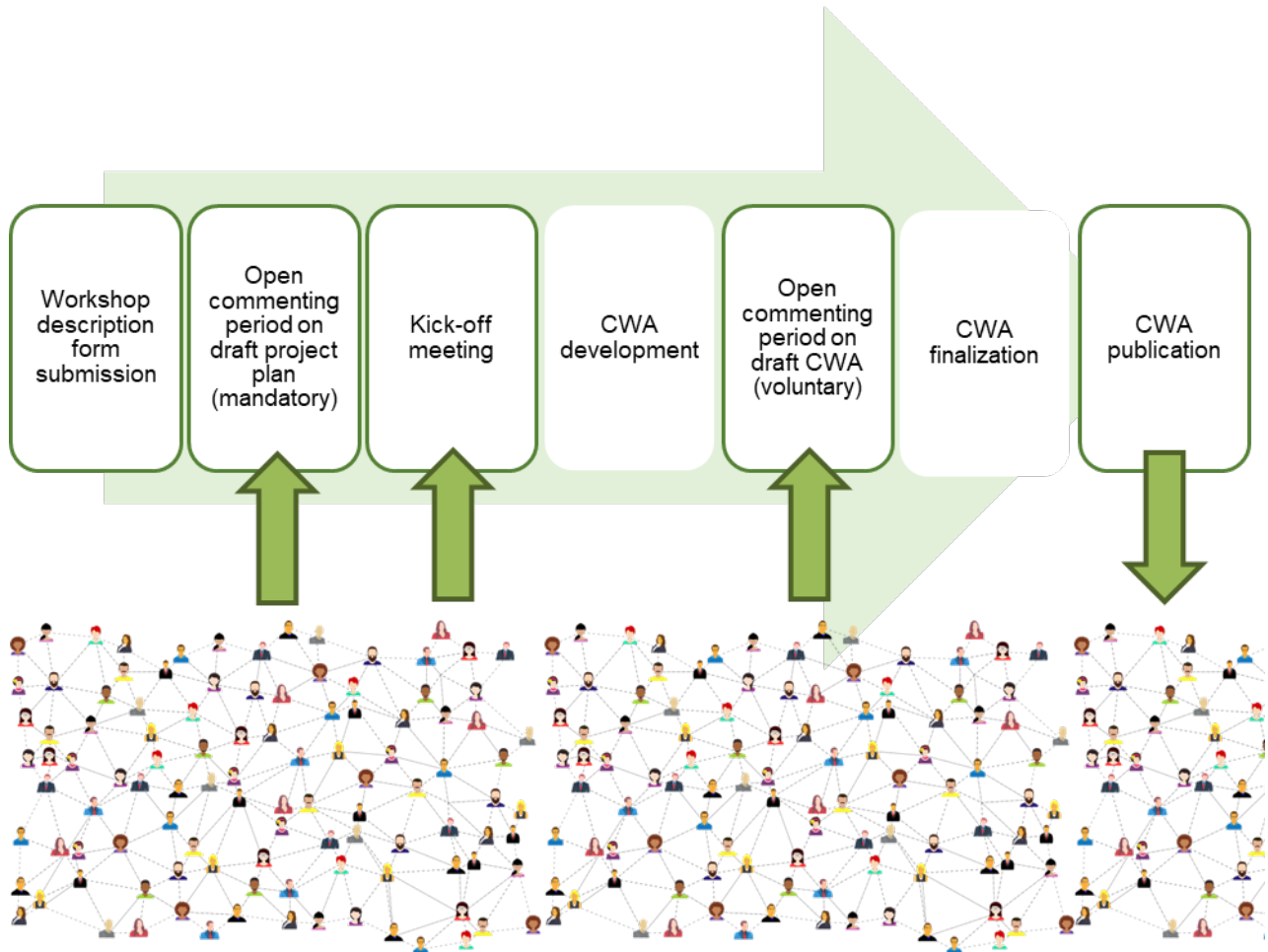
- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organizations and individuals
- Offers infrastructure and manages documents and their distribution through an electronic platform
- Prepares agenda and distributes information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manages CWA approval process upon decision by the Workshop Chair
- Interfaces with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and brings any major problems encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

5.3 Decision making process

The CEN and/or CENELEC Workshop Chair is responsible for ensuring that the development of the CWA follows the principles and content of the project plan described in this document and the requirements of CEN-CENELEC Guide 29. The CEN and/or CENELEC Workshop Chair may take decisions on the conduct of the CEN and/or CENELEC Workshop on the basis of the comments expressed by the participants and of CEN-CENELEC Guide 29.

Decisions shall be taken based on consensus of the WS participants.

6 Dissemination and participation strategy



Description and project plan form submission

The Workshop description and project plan will be disseminated to the following relevant stakeholders and bodies for consultation:

- standards committee, working group etc.
- publisher of technical rules
- others

Open commenting period on draft project plan

The project plan will be disseminated to the following relevant stakeholders and bodies for commenting:

- standards committee, working group etc.
- publisher of technical rules
- others

In addition to the CCMC website, the description and project plan and the date of the kick-off meeting will be advertised on the project website to raise awareness. Interested parties are requested to contribute either through commenting of the project plan (short term) or through Workshop participation (long term).

Open commenting period on draft CWA

The draft CWA will be disseminated to the following relevant stakeholders and bodies for commenting:

- standards committee, working group etc.
- publisher of technical rules
- others

In addition to the CCMC website, the draft CWA will be advertised on the project website to raise awareness. Interested parties are requested to contribute through commenting of the draft CWA (short term).

CWA publication

The final CWA will be disseminated to the following relevant stakeholders and bodies:

- standards committee, working group etc.
- publisher of technical rules
- others potential interested stakeholders identified should be informed of the open commenting phase, if any, and of the publication of the CWA.

In addition to the CCMC website, the final CWA might be advertised on:

- sector specific newsletter
- social media, such as
 - LinkedIn
- EC Newsroom
- Others