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# **Draft Project plan for the CEN Workshop on "Paint and coating systems for Defence and Security applications"**

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**Requests to participate in the Workshop  
and/or comments on the project plan are  
to be submitted by 29<sup>th</sup> of February 2024  
to the secretariat:  
[keny.brunier@afnor.org](mailto:keny.brunier@afnor.org)<sup>1</sup>**

Recipients of this project plan are kindly requested to name all patent rights known to them to be relevant to the Workshop and to make available all supporting documents.

**Paris, 26 January 2024 (Draft Version)**

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<sup>1</sup> Applications for participating in the Workshop and comments on the project plan that are not received by the deadline do not need to be taken into consideration. Once constituted, the Workshop will decide whether or not to consider the comments received in good time.

## Summary

This workshop is motivated by the industry need to identify and to clarify the performance criteria of paint and coating systems for Defence and Security applications.

There are numerous international, European, and national paint standards, but they do not take into account military constraints, which are different from those in the civilian sector. This is especially true of testing and performance criteria for land, air, and naval weapons.

Specific paints and coatings are used in the defence and security sectors, with very high levels of quality and transfer rates requirements. Performance requirement standards are fundamental for the protective paint selection for critical areas of weapons systems. They usually at least indicate clearly expected durability, qualification tests with acceptance criteria, and identified tests. In European defence procurement, each national ministry of defence provides their own reference (performance requirements, qualification criteria, tests methods, etc.).

The main objective is to bring together all the players (from suppliers to customers) involved in paints and coating systems for defence and security applications at the European level. They will conduct an in-depth study of paint standards in the military sector and share industry experience and feedbacks. The CWA will be shaped as a technical document gathering findings on performance criteria for a list of relevant tests.

It will include the following outputs:

- Mapping of useful European standards;
- Benchmarking of criteria for the various tests;
- Identification of convergences;
- Assessment on the environmental impact of paints and coating systems.

## 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. Please send any requests to participate or comments by e-mail to [keny.brunier@afnor.org](mailto:keny.brunier@afnor.org).

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 **2024-03-14**.

## 2 Workshop proposer and Workshop participants

### 2.1 Workshop proposer

Person or organisation	Short description and interest in the subject
<p>Name: Eric DULAUROY</p> <p>Organization: ARQUUS</p> <p>Postal address: 15 bis allée des marronniers 78000 Versailles - France</p> <p>Email: <a href="mailto:eric.dulauroy@arquus-defense.com">eric.dulauroy@arquus-defense.com</a> Phone: +331 73 19 09 04</p>	<p>Backed by more than a century of industrial expertise, Arqus is especially interested in the quality and the performance of paints and coatings system. These systems determine the performance levels of several armoured vehicles used in various fields of operation. European cooperation will improve the common acceptance of products for this very sensitive market.</p>

Webpage: <https://www.arquus-defense.com/fr>

## 2.2 Other potential participants

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

- Ministries of Defence
- Paints and coatings manufacturers
- Chemistry Industry
- Defence and Security Industry
- Laboratories
- Other Manufacturers
- Standards Developing Organisations
- Research centres
- Design offices
- etc.

take part in the development of this CWA.

Workshop members are companies or bodies that are willing to participate to the Workshop in accordance with its project plan as it will result from the discussions at the kick-off meeting, on the basis of the present draft. It is expected that Workshop participants come from different European countries, representing different stakeholders.

## 2.3 Participants at the kick-off meeting

*The following persons or organisations already signed up to the kick-off meeting prior to the publication of the draft project plan.*

**To be completed**

Person	Organisation
Workshop Chair: Eric DULAUIROY	Workshop Chair: ARQUUS
Daouia MESSAOUDI	BERKEM
Ana SANSEAU BLANCHARD	AKZO NOBEL
Frédéric DUHAMEL	THALES
Christian FAVENNEC	NAVAL Group
Christoph STANGLMAIR	AIRBUS GmbH
Arnaud BARRE	DERIVERY
Marie LAVEISSIERE	French Ministry of Defence
Workshop secretariat: Keny BRUNIER	Workshop secretariat: AFNOR

## 2.4 Registered Workshop participants

The following persons or organisations have registered as Workshop participants at the kick-off meeting and approved the project plan. They will actively participate in the development of the CWA.

*To be completed*

Person	Organisation
Workshop Chair: Eric DULAUROY	Workshop Chair: ARQUUS
Workshop secretariat: Keny BRUNIER	Workshop secretariat: AFNOR

## 3 Workshop objectives and scope

### 3.1 Background/Objectives

This workshop is motivated by the industry need to identify and clarify the performance criteria of paint and coating systems for defence and security applications.

There are numerous international, European, and national paint standards, but they do not take account of military constraints, which are different from those in the civilian sector. This is especially true of testing and performances criteria for land, air, and naval weapons.

Specific paints and coatings are used in the defence and security sectors, with very high levels of quality and transfer rates requirements. Performance requirement standards are fundamental for the protective paint selection for critical areas of weapons systems. They usually at least indicate clearly expected durability, qualification tests with acceptance criteria, and identified tests. In European defence procurement, each national ministry of defence provides their own reference (performance requirements, qualification criteria, tests methods, etc.).

Industry requires complete, certified paint systems of the highest quality for use in the defence sector. A wide array of specific products exists, such as paints to reduce reflections from vehicles or equipment, paints to protect against chemical and biological stresses or paints that dissipate static charges. Thanks to a wide range of primers, topcoats and clear coats in the form of high-solid, medium-solid or water-based systems, industry-specific requirements can be met worldwide. Coatings with temporary camouflage properties, coatings for de-contaminable surfaces or special anti-slip coatings are also requirements in the defence and security sector.

All the parts accepted by defence industries follow a process punctuated by numerous checks (thickness control, gloss control, adhesion tests, etc.) ensuring a high level of quality. High stakes are identified especially on raw parts, parts that have already been assembled, or parts that are new or already painted to ensure their maintenance and extend their life.

The need for a CEN Workshop was identified while working with EDSTAR/EG 11 on Paints and Coatings.

Note: European Defence Standards Reference System (EDSTAR) is the European Defence Agency's central Database containing references to "Best-practice" standards (BPS) in support of European security and defence programmes, organisations, and agencies.

There is no CEN technical committee for defence actors to deal with such a topic, and a workshop is the best setting to foster discussions between armed forces, military equipment manufacturers and paint manufacturers.

The main objective is to bring together all the players (from suppliers to customers) involved in paints and coating systems for defence and security applications at the European level. They will conduct an in-depth study of paint standards in the military sector and share industry experience and feedbacks. The CWA will be shaped as a technical document gathering findings on performances criteria for a list of relevant tests.

### 3.2 Scope

The planned Workshop is applicable to paint and coating systems for Defence and Security applications. It will identify and clarify the performance criteria of paint and coating systems.

It will include the following outputs:

- Mapping of useful European standards;
- Benchmarking of criteria for the various tests;
- Identification of convergences;
- Assessment on the environmental impact of paints and coating systems.

### 3.3 Related activities

The subject of the planned CWA is not at present the subject of a standard. However, there are committees, standards and/or other technical specifications that deal with related subjects and thus need to be considered – and involved, where necessary – during this Workshop:

- CEN/TC 139 - Paints and varnishes

The subject of the planned CWA is not at present the subject of a single CEN standard dedicated to Defence and Security applications. There are several national standards or technical specifications, such as:

- France: NORMDEF0001/0002/0003/0004
- Germany: TL8010-0001/0002
- Netherlands: NK-0001
- Italy: TER-80-0000-6820-00-00A000
- Norway: FS-8010-0125
- Etc...

## 4 Workshop programme

### 4.1 General

A draft for public commenting will be published for 30 days. Then, the kick-off meeting is planned to take place on 14<sup>th</sup> of March 2024 in La Plaine Stade de France (AFNOR premises).

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

Each meeting will be dedicated to a specific topic:

- Meeting 1: Kick off meeting.

- Meeting 2: Review of the EG 11 mapping of useful European standards: the review of the mapping of existing standards and other standardisation documents related to paint and coating systems will be carried out. It will concern international, European and national standards/technical specifications.
- Meeting 3: Benchmarking of criteria for the various tests: based on the standards map, experts will compare and analyse criteria for the following tests: anti-corrosion, fire resistance, chemical agent resistance, conductivity, anti-fouling, fungus resistance, mechanical resistance (erosion, impact, etc.), and so on.
- Meeting 4: Identification of convergences: experts will identify and challenge convergences occurring among the various criteria for each test.
- Meeting 5: Assessment on the environmental impact of paints and coating systems: considering the works undertaken and the technical discussions within the WS, the experts will appreciate the environmental impact of paints and coating systems and therefore the performance criteria for each test.
- Meeting 6: final check of the CWA.

The CEN Workshop will be held in English (language of meetings, minutes, etc.). The CEN Workshop Agreement (CWA) will be written in English.

The CEN Workshop duration is 18 months. The work of the CEN Workshop will result in the delivery of CWA gathering knowledge and feedback and providing recommendations on performance criteria of paint and coating systems for defence and security applications.

For all meetings, systematic hybrid device will be available. All documents will be available on the CEN Docs platform.

The main objective is to bring together all the players (from suppliers to customers) involved in paints and coating systems for defence and security applications at the European level. They will conduct an in-depth study of paint standards in the military sector and share industry experience and feedbacks. The CWA will be shaped as a technical document gathering findings on performances criteria for a list of relevant tests.

## 4.2 Workshop schedule

The following time schedule will be implemented:

	<b>Activities</b>	<b>Schedule</b>
0	Initiation by CCMC	January 2024
1	Meeting 1: Workshop kick-off meeting	14 March 2024
2	Meeting 2: Review of the mapping of useful European standards	April 2024
3	Meeting 3: Benchmarking of criteria for the various tests	June 2024
4	Meeting 4: Identification of convergences	October 2024
5	Meeting 5: Assessment on the environmental impact of paints and coating systems	January 2025
6	Drafting of the CWA	February 2025
7	Commenting period	March/April 2025
8	Meeting 6: Final check of the CWA	May 2025
9	Publication of CWA after editorial check by CCMC	May/June 2025

**Table 1: Workshop schedule (preliminary)**

CEN/CENELEC Workshop	M0 Dec 2023	M01 Jan 2024	M02 Feb 2024	M03 Mar 2024	M04 --> M14												M15 M16	M17	M18
<b>Initiation</b>	[Dark Blue Bar]																		
1. Proposal form submission and TC response	[Light Blue Bar]	[Light Blue Bar]																	
2. Project plan development		[Light Blue Bar]		[Light Blue Bar]															
3. Open commenting period on draft project plan (mandatory)			[Light Blue Bar]																
<b>Operation</b>				[Dark Teal Bar]															
4. Kick-off meeting				[Light Teal Bar]															
5. CWA(s) development				[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]	[Light Teal Bar]					
6. Open commenting period on draft CWA(s) (optional)														[Light Teal Bar]	[Light Teal Bar]				
7. CWA(s) finalised and approved by Workshop participants																[Light Teal Bar]			
<b>Publication</b>																	[Green Bar]		
8. CWA(s) publication																	[Green Bar]		
<b>Dissemination (see 7)</b>				[Orange Bar]	[Orange Bar]	[Orange Bar]								[Orange Bar]	[Orange Bar]		[Orange Bar]		

## 5 Resource planning

The administrative costs of the CEN Workshop will be financed by resources of the participating organizations (companies, Ministry of Defence and other organizations). All interested parties in the Workshop's activities will participate to the fundings, as follows:

A fee of 2 500 € (excluding VAT) /year maximum will be requested for each organization. This fee will be reduced if there are more participating organizations.

## 6 Workshop structure and rules of cooperation

### 6.1 Participation in the Workshop

The Workshop will be constituted during the course of 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 voted for the publication of the CWA or its draft will be named as authors in the European Foreword, including the organisations which they represent. All Workshop participants who voted against the publication of the CWA, or who have abstained, will not be named in the European Foreword.

### 6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and any decision-making and voting procedures. The Workshop Chair is supported by 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, decides 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/CENELEC national member, is responsible for organising and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organised 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.

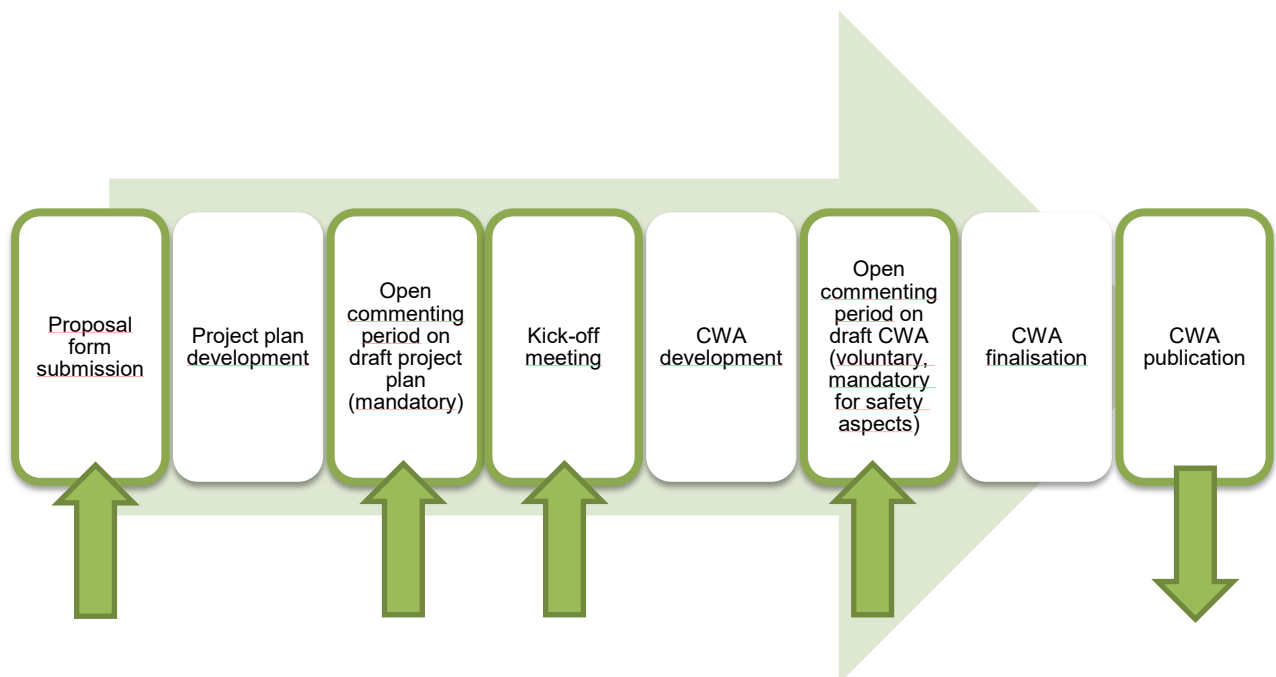
- Administrative and organisational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organisations and individuals
- Offers infrastructure and manage documents and their distribution through an electronic platform
- Prepares agenda and distribute information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manage CWA approval process upon decision by the Workshop Chair
- Interface with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and bring 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.

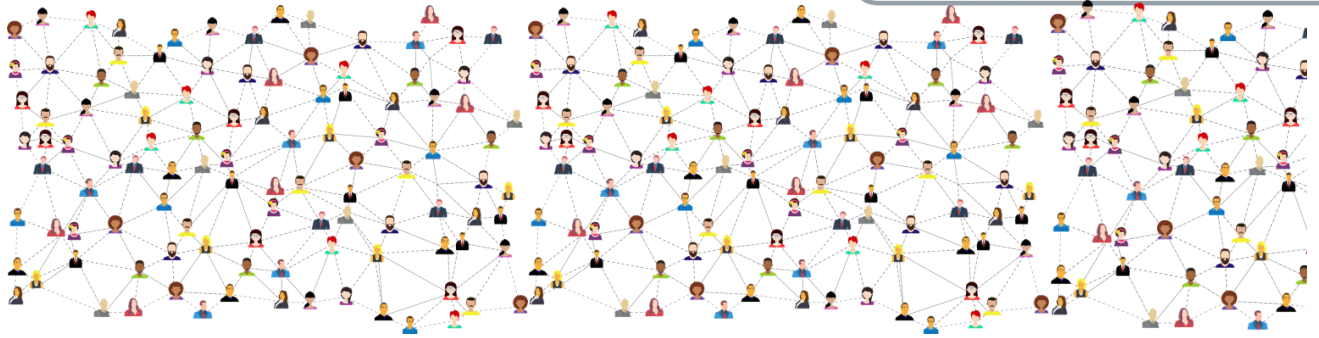
### 6.3 Decision making process

Each Workshop participant is entitled to vote and has one vote. If an organisation sends several experts to the Workshop, that organisation has only one vote, regardless of how many Workshop participants it sends. Transferring voting rights to other Workshop participants is not permitted. During voting procedures, decisions are passed by simple majority; abstentions do not count.

If Workshop participants cannot be present in the meetings when the CWA or its draft is adopted, an alternative means of including them in the voting procedure shall be used.

## 7 Dissemination and participation strategy





### **Proposal form submission**

The Workshop proposal will be disseminated to the following relevant stakeholders and bodies for consultation:

- standards committee, working group etc.
- publisher of technical rules
- sector forum Error! Bookmark not defined.
- 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
- sector forum
- others

### **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
- sector forum
- others

### **CWA publication**

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

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

## **8 Contacts**

- **Workshop Chair (and proposer):**

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– **Workshop Secretariat:**

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