
**Draft Project plan for the CEN
Workshop on "Collaborative
Emergency Response –
Communication and sharing of
operational information among
multiple public safety agencies"**

**Requests to participate in the Workshop
and/or comments on the project plan are
to be submitted by
2022.02.11
to cristina.popa@asro.ro ¹**

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.

Bucharest, 2022.12.30 (Version 1)

¹ 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.

Contents

	Page
Summary	3
1 Status of the project plan	3
2 Workshop proposer and Workshop participants.....	3
2.1 Workshop proposer	3
2.2 Other potential participants.....	4
2.3 Participants at the kick-off meeting.....	4
3 Workshop objectives and scope.....	5
3.1 Background.....	5
3.2 Scope	6
3.3 Related activities	6
4 Workshop programme	6
4.1 General	6
4.2 Workshop schedule	8
5 Resource planning	9
6 Workshop structure and rules of cooperation	9
6.1 Participation in the Workshop.....	9
6.2 Workshop responsibilities.....	9
6.3 Decision making process	10
7 Dissemination and participation strategy.....	10
8 Contacts	11

Summary

This standardization initiative aims to develop a document that will define a cooperative framework for supporting interoperability among public safety agencies in large-scale crises. More specifically, the CWA seeks to strengthen the structured and consistent flow of information between the agencies involved in emergency response and in substance attempts to agree on the information that needs to be exchanged between the emergency response stakeholders. Therefore, the outcome will focus on achieving consensus on the formalities for messaging of information typically shared during emergencies and crises and processed by the components of the C&C platforms. Provided the above, the interoperability aspects to be considered include data communication, operational information sharing, and situational awareness. In this context, existing standards and directives will be analysed and combined to propose procedures, protocols, and message formats to be used to structure an integral and interoperable collaboration framework.

1 Status of the project plan

Draft project plan for public commenting (Version 1.0)

The envisaged draft project plan is intended to inform the public of a new Workshop (CWA). Any interested party can participate in this Workshop and/or comment on this draft project plan. Please send any requests to participate or comments by email to: cristina.popa@asro.ro.

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 **2022-02-18**.

2 Workshop proposer and Workshop participants

2.1 Workshop proposer

<u>Person or organisation</u>	<u>Short description and interest in the subject</u>
<p>Name: Mr. Leonidas Perlepes</p> <p>Organization: Satways Ltd.</p>	<p>Satways Ltd. is an SME, which main activity is the development of integrated Geospatial command and control systems and situational awareness solutions for the Security and Public Safety sector. Clients' list comprises organizations such as Fire Brigade, Police, Coast Guard, Medical Emergencies, Civil Protection, Critical Infrastructure Protection, and Border management Authorities. With core technology built on open standards, Satways offers a range of mission-critical enterprise solutions empowering governments and businesses worldwide to make better and faster operational decisions.</p> <p>Satways will exploit the outcome of the CWA discussions to update the C2 solutions provided by the company, supporting the preparedness and planning phases of the public safety agencies and the interoperability with third-party systems.</p> <p>Leonidas Perlepes, R&D manager, received his B.S.E. and M.Sc. degrees from the University of Thessaly, Greece, in Electrical and Computer Engineering. He received his Ph.D. in Wireless Sensor Networks from the University of Thessaly, Greece, in 2012. He has been involved in several EU-funded R&D projects in the last decade. His research interests include Command & Control systems, GIS systems, Wireless Sensor Networks, and embedded systems.</p>

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 stakeholders and experts from the Command-and-Control community would be helpful and is desirable. It is recommended that the workshop audience will include:

- Representatives of fire services, associations, and wildfire management organizations across EU
- Representatives of first responders' organizations, acting as actors and/or observers in preparedness exercises
- Representatives of civil protection authorities (both at the national and local levels)
- Representatives of the EU security industry active in delivering emergency management and C&C solutions
- Scientists in civil protection, crisis, and disaster management
- Members of related Technical Committees
- Participants in related Research Projects
- Representatives of DG ECHO, DG HOME

take part in the development of this CWA.

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.

<u>Person</u>	<u>Organisation</u>
Workshop proposer: Leonidas Perlepes	Satways Ltd
Dimitris Diagourtas	
Antonis Kostaridis	
Giorgos Eftychidis	
Aikaterini Poustourli	
Giannis Chasiotis	
Ilias Gkotsis	
Alexios Pagkozidis	
Panagiotis Michalis	Institute of Communication and Computer Systems, NTUA, Greece
Spyros Athanasiadis	
Eleftherios Ouzounoglou	
Gabriel Pestana	INOV INESC Inovação – Instituto de novas tecnologias (INOV)
Tiago Rocha da Silva	
Christoph Thieme	SINTEF

<u>Person</u>	<u>Organisation</u>
Siri Mariane Holen	
Wilson Antunes,	Ministerio da defesa nacional / Centro de investigacao da academia military / Unidade military laboratorial de biologica e quimica (CINAMIL/UMLDBQ)
Júlio Carvalho,	
Luís Carvalho	
Marcello Marzoti	Ministero dell'interno, Corpo Nazionale dei Vigili del Fuoco (CNVVF), Italy
Ilias Mitsoulas	Ministry of national defence (HMOD), Greece
Georgios Sakkas,	Kentro Meleton Asfaleias (KEMEA), Greece
John Tsaloukidis,	
Danai Kazantzidou-Firtinidou	
Dr. Daniel Krentel	Bundesanstalt für Materialforschung und -prüfung (BAM), Germany
Workshop secretariat: Cristina Popa	Workshop secretariat: ASRO (Romanian Standards Association)

3 Workshop objectives and scope

3.1 Background

Each EU country has its processes and procedures for crisis management and disaster response. However, in the case of cross-border crises, the different approaches may cause confusion or conflict among first responders and civil protection bodies. Usually, large-scale and extensive emergencies require the involvement of more public safety agencies, which in the case of the EU Civil Protection Mechanism activation can come from different countries. Therefore, developing a framework for communication and operational information sharing among these agencies is essential for cross-border collaboration.

The EU-funded research project STRATEGY (<https://strategy-project.eu/>) has systematically identified and prioritised gaps in standardisation in crisis and disaster management and has compared them to end-users needs available opportunities across a broad spectrum of disaster management activities. All standardisation items to be developed in the STRATEGY project will be thoroughly tested and validated in tabletop exercises (TTXs) and full-scale exercises (FSXs).

Currently, a number of directives and standards are used worldwide to define the procedures and activities that have to be executed and the information that has to be exchanged prior, during, and after a crisis.

The specific subject of the CWA was selected among the Gaps identified by the STRATEGY's Stream 4, since it was characterized "Very important". The Workshop will build on the currently existing standards ISO 22379:2014 and EN ISO 22397:2018 testing test their applicability and potential to address the requirements of the IT command and control systems used by First Responders organisations to manage operationally large emergencies and crises. Furthermore, the Workshop will consider the degree ISO 22396:2020 fits the needs of information exchange between FR organisations during crises. During the development stage of this CWA the limitations and gaps of the currently available standardization resources for supporting interoperability of C&C components during crisis

management situations and especially in case of cross-border (international) operations will be elaborated and analysed. The main objective of this pre-standardization work will be the development of a document that will define the required cooperative framework that will support interoperability among public safety agencies in case of large-scale crises through structured information flow and formalized messaging. Thus, the interoperability aspects to be considered include data communication, operational information sharing, and situational awareness. In this context, this CWA considers the analysis of existing standards and directives combined to propose procedures, protocols, and message formats to be used to structure an integral and interoperable collaboration framework.

3.2 Scope

The planned workshop aims to initiate an agreement concerning how the content and the format of the information exchanged among multiple emergency and crisis management organizations needs to be formalized to ensure technical and organizational interoperability required to provide structured information flow and adequate data sharing during large-scale crises. An effective collaborative response activity requires all involved agencies to widely exchange information and perceive commonly shared data in the same manner. A number of guidelines, protocols, and message formats, defining in detail that process, will be considered and proposed. Large-scale crises management involves several teams from different public safety agencies working cooperatively to maximize the effectiveness and efficiency of the emergency response to save lives and properties. These teams need to take numerous decisions under time pressure that require accurate situational awareness based on operational information from the different public safety agencies/stakeholders involved. This CWA aims to define a cooperative framework and the required guidelines for stakeholders from multiple operational organizations to be able to exchange information on situational awareness and the status of the operations, as it is necessary in large-scale crises. More specifically, the CWA seeks to strengthen the structured and consistent flow of information between the agencies involved in emergency response and in substance, attempts to agree on the information that needs to be exchanged between the emergency response stakeholders. Therefore, the outcome will focus on achieving consensus on the formalities for messaging of information typically shared during emergencies and crises and processed by the components of the C&C platforms.

The planned CEN Workshop Agreement is intended to be used by the security industry that focus to developing Command & Control systems and the integrators of related technological solutions for decision support. The planned CEN Workshop Agreement is not primarily planned to be used directly by the first responders and commanders of the public safety agencies. However, they will be benefit from the standardization developments and the outcome of the proposed CWA.

3.3 Related activities

At present, the subject of the planned CWA is not the subject of a standard. However, there are committees, standards, and/or other technical specifications that deal with relative topics, and this needs to be taken carefully into account - and considered, when necessary - during this Workshop:

- CEN/TC 391, Societal and Citizen Security;
- CEN Security Sector Forum.

The EU-funded research project STRATEGY had asked and was granted the project liaison status in Technical Committee CEN/TC 391.

4 Workshop programme

4.1 General

The WS is expected to publish one single CWA, which will specify a communication framework that the public safety agencies should adopt to enable the multi-agency collaborative management of large-scale crises. The CWA will be drafted and published in English. The estimated duration of this workshop is 14 months (after the kick-off meeting).

Due to the travel restrictions related to COVID-19, all meetings are intended to be held both virtual and physical, according to the possibilities. In all cases when a physical meeting will be set up, the possibility of virtual participation will be granted as well. The program to reach the CEN-CENELEC Workshop Agreements entails the following steps:

The kick-off meeting is planned to take place on 2022-02-18, by teleconference. A draft of the Project Plan for public commenting will be published for 30 days. A total of at least three 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.

In the context of the STRATEGY project, each CWA is planned to be evaluated by the end-users through two exercises, one TTX, and one FSX exercise. TTX is a tabletop exercise (usually discussion-based), where end users are called to use and implement existing plans and procedures to take decisions according to a scenario. FSX is a full-scale exercise where end-users/stakeholders are called to respond to real situations on the field. The purpose of these two exercises is to test and evaluate the content of the proposed CWA. The feedback that will be received will be integrated into the CWA.

5 Resource planning

ASRO will provide the Workshop Secretariat, subject to formal approval of the Project Plan at the kick-off meeting. The copyright of the final CEN-CENELEC Workshop Agreement will be at CEN-CENELEC. All costs related to the participation of interested parties in the Workshop's activities have to be borne by themselves. The Workshop will be financed within the framework of the EU-funded research project STRATEGY (Horizon 2020 research and innovation programme under grant agreement No 883520). The STRATEGY project aims to reach an agreement with CEN CENELEC Management Centre to make the CWA freely downloadable from the CEN Website. The final document will include the following paragraph: "Results incorporated in this CEN Workshop Agreement received funding from the European Union's HORIZON 2020 research and innovation programme under grant agreement number 883520 (STRATEGY)". Registration, as well as participation at the CEN-CENELEC Workshop, described here are free of charge.

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 formally be named as Workshop participants with the associated rights and duties. At the kick-off meeting, participants who do not endorse the project plan or are not given the status of a Workshop participant will be excluded from the decisions made during the kick-off meeting and any other decisions regarding the Workshop.

New participants who will decide to join the Workshop at a later date, will be approved by the participants making up the Workshop.

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. 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 all decision-making and voting procedures. The Workshop Chair is supported by the Workshop Vice-Chair 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 carry out their 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 an agreement on the final CWA based on the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by ASRO, 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

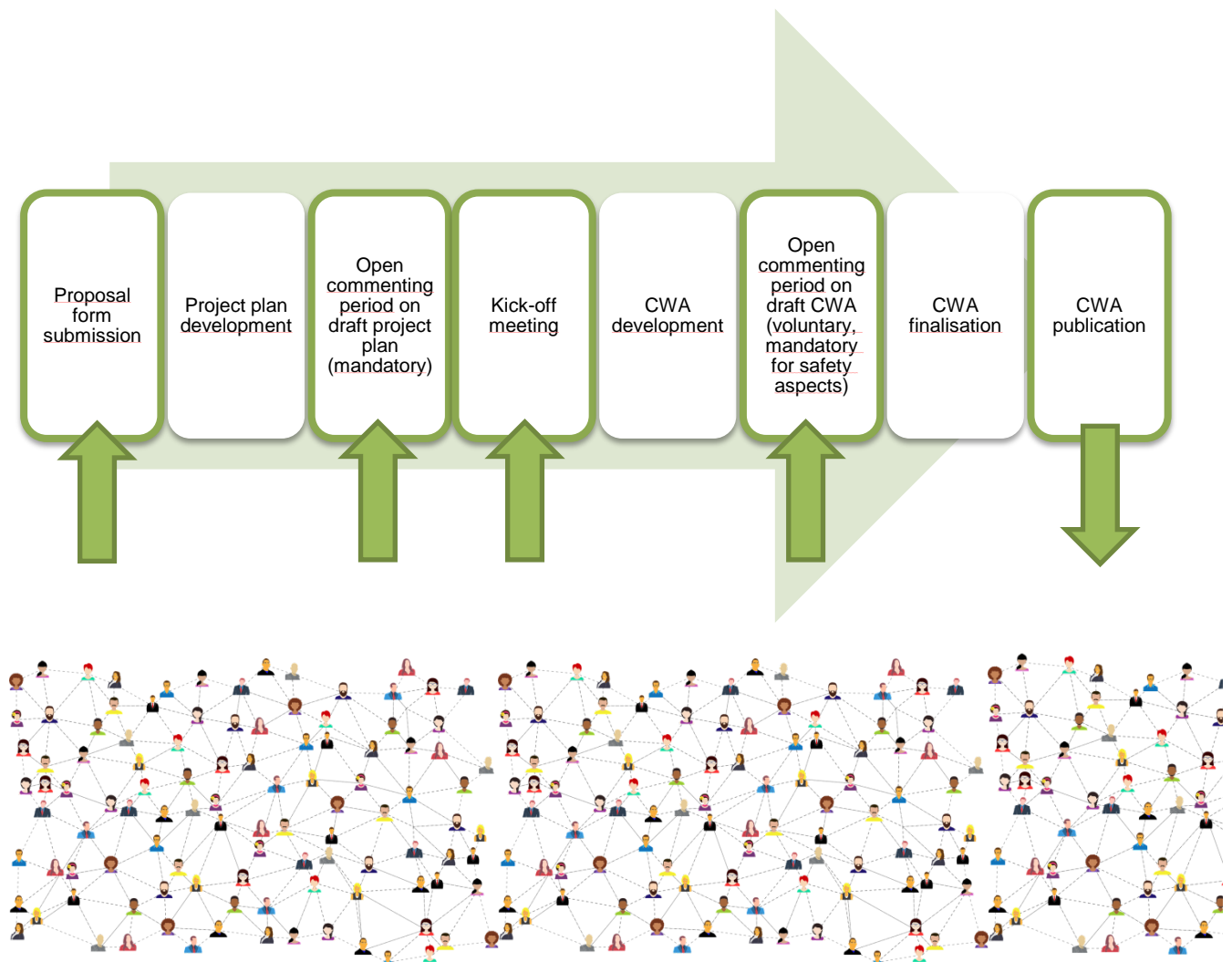
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organisations and individuals
- Offers infrastructure and manage 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 was disseminated to the following relevant stakeholders and bodies for consultation:

- CEN/TC 391, Societal and Citizen Security;
- CEN Security Sector Forum.

Open commenting period on draft project plan

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

- CEN/TC 391, Societal and Citizen Security;
- CEN Security Sector Forum.

In addition to the CCMC website, in order to raise awareness, the draft project plan and the date of the kick-off meeting will be advertised on the websites of:

- STRATEGY project: <https://strategy-project.eu/>,
- ASRO, <https://www.asro.ro/> and
- ELOT <http://www.elot.gr/>.

Open commenting period on draft CWA

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

- CEN/TC 391, ‘Societal and Citizen Security’;
- CEN Security Sector Forum.

In addition to the CCMC website, the draft CWA will be advertised on the website of the STRATEGY project: <https://strategy-project.eu> to raise awareness. Interested parties are requested to contribute by commenting on the draft CWA (short term).

CWA publication

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

- CEN/TC 391, ‘Societal and Citizen Security’.

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

- STRATEGY project: <https://strategy-project.eu/>,
- ASRO, https://www.asro.ro.

8 Contacts

- Workshop Chair:

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- Workshop proposer

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