CEN

CWA 17335

September 2018

AGREEMENT

WORKSHOP

ICS 01.040.03; 03.100.01

English version

Terminologies in crisis and disaster management

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its Members.

This CEN Workshop Agreement is publicly available as a reference document from the CEN Members National Standard Bodies.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2018 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Contents

European foreword			
Introduction 5			
1	Scope	7	
2	Normative references	7	
3	Terms and definitions	7	
4	Methodology for the comparison of crisis management related terms and definitions		
	as well as the scope of the sources		
4.1	General		
4.2	Methodology specification and preparation (A1)		
4.2.1	Universe of discourse refinement (A1a)		
4.2.2	Documentation models, formats and tools (A1b)		
4.2.3	Indicator definition (A1c)		
4.2.4	Collection of informative references (A2)		
4.2.5	Data Analysis - Categories of parameters (A3)		
4.3	Context and Definition Analysis		
4.4	Quality frame of the Definition	15	
5	Comparison of selected terms related to crisis and disaster management	16	
5.1	Introduction to chapter and comparison of the scope/purpose of ISO 22300:2018	10	
5.2	and UNISDR 2015 "Emergency Management" – Definition comparison of ISO 22300:2018 and UNISDR	16	
5.2	2015	18	
5.3	"Hazard" – Definition comparison of ISO 22300:2018, SDSIE 2017 and UNISDR 2015		
5.4	"Ambulance" vs "Emergency Services" – Definition comparison of CWA 15931-		
5.1	2:2009 (TSO 2009), the ICRC "Ambulance and pre-hospital services in risk situations		
	2013" and UNISDR 2015	21	
5.5	"Resilience" – Definition comparison of ISO 22300:2018, the ICRC "Ambulance and		
5.5	pre-hospital services in risk situations 2013" and UNISDR 2015	23	
5.6	"Best practice" – Definition comparison of ISO 14621-1:2003 and Oxford English	23	
5.0	Dictionary 2018	25	
5.7	"Psycho-social support" – Definition comparison of UK civil protection lexicon v2.1.1	23	
3.7	2013, the IASC Guidelines from 2007 and the International Federation of the Red		
	Cross 2009	26	
5.8	0.000 - 007	20	
5.8	"Assessment" – Definition comparison of ISO/IEC 23988:2007 and Oxford Dictionary	20	
5.9	2018 "Gap" – Definition comparison of ISO 11863:2011 and Oxford Dictionary 2018		
5.10	"Trial" – Definition comparison of ISO 22300:2018 and Oxford Dictionary 2018	29	
5.11	"Response" Definition comparison of ISO 22300:2018, UNISDR 2015 and UK civil	20	
F 40	protection lexicon 2013	30	
5.12	"Recovery" – Definition comparison of ISO 22300 2018, UNISDR 2015, UK civil	20	
F 40	protection lexicon 2013 and CWA 15931-2 2009		
5.13	"Prevention" – Definition comparison of ISO 22300:2018 and UNISDR 2015	35	
5.14	"Disaster" – Definition comparison of ISO 22300:2018, UNISDR 2015 and UK Civil	0.5	
	Protection Lexicon 2013.	36	
5.15	"Crisis" – Definition comparison of ISO 22300:2018, UK Civil Protection Lexicon	a -	
	2013 and SDSIE 2017	38	

Annex	x A (informative)	
A.1	Data Models	41
A.2	The context indicator	
A.3	Specification Degree	44
A.4	Predefined Ranges of Indicators	45
A.4.1	Type of Organisation	45
A.4.2	Phase	
A.4.3	Range of escalation	
A.4.4		
A.4.5	Object	
A.4.6	Effect	47
A.4.7		
Biblio	ography	
	sgraphy	3

European foreword

CWA 17335 was developed in accordance with CEN-CENELEC Guide 29 'CEN/CENELEC Workshop Agreements – The way to rapid agreement' and with the relevant provision of CEN/CENELEC Internal Regulations – Part 2. It was agreed on 2017-03-01 in a workshop by representatives of interested parties, approved and supported by CEN following a public call for participation made 2017-01-27. It does not necessarily reflect the views of all stakeholders that might have an interest in its subject matter.

The research leading to these results has received funding from the European Union's 7th Framework Programme for Research, Technological Development and Demonstration under the grant agreement numbers 607798 (DRIVER+), 607078 (EPISECC), 607832 (SecInCoRe), 607814 (ConCorde), and 607821 (SECTOR).

The final text of CWA 17335 was submitted to CEN for publication on 2018-08-20. It was developed and approved by:

- AIT Austrian Institute of Technology (Georg Neubauer, Alexander Preinerstorfer)
- Paderborn University (Jens Pottebaum, Rainer Koch, Christina Schäfer)
- University of Split (Snježana Knezić, Martina Baučić)
- Lancaster University (Monika Büscher)
- Cambridge University Hospitals (Toni Staykova)
- SDSIE Ministère de la transition écologique el solidaire, secrétariat général, service de défense, de sécurité et d'intelligence économiique (Jean-Louis Olie, Eric Barbay)
- German Council on Foreign Relations (Georgios Kolliarakis)
- TFC Research and Innovation Limited (Tom Flynn)
- Intelligence for Environment & Security IES Solutions (Uberto Delprato)
- The Netherlands Organisation for Applied Scientific Research TNO (Marcel van Berlo, Peter Petiet)
- DLR Deutsches Zentrum für Luft- und Raumfahrt e.V. (Tim Stelkens-Kobsch)

It is possible that some elements of CWA 17335 may be subject to patent rights. The CEN-CENELEC policy on patent rights is set out in CEN-CENELEC Guide 8 'Guidelines for Implementation of the Common IPR Policy on Patents (and other statutory property rights based on inventions)'. CEN shall not be held responsible for identifying any or all such patent rights.

The Workshop participants have made every effort to ensure the reliability and accuracy of the technical and non-technical content of CWA 17335, but this does not guarantee, either explicitly or implicitly, its correctness. Users of CWA 17335 should be aware that neither the workshop participants, nor CEN can be held liable for damages or losses of any kind whatsoever which may arise from its application. Users of CWA 17335 do so on their own responsibility and at their own risk.

Introduction

In crisis and disaster management two factors contribute to success:

- a) having the appropriate resource available in an adequate time, at the right location and
- b) the action of applying clear authority, communications and directives.

In all cases, precise and clear communication is critical. Experiences of managing large scale crisis and disasters [1] show that not only language barriers, but also differences in the organisation, practices, tools and resources of disaster risk management create potential for miscommunication. Moreover, use of different terms for the same parameters hampers effective information exchange. In order to provide a contextual¹ enriched overview on terms and definitions published by different type of organizations such as a standardization organization or the United Nations, this document was developed as a basis for a common reference vocabulary.

The CWA covers selected key terminologies used by actors during crisis and disaster management for describing needs, actions, situations, tools, missions, resources and any other goods or services needed in large-scale multi-agency and/or transnational disaster risk management.

The intended users of the CWA results are authorities, statutory emergency agencies and other practitioners within the field of disaster risk management, including non-governmental agencies, researchers in disaster and emergency management and the public. Each of these prospective beneficiaries may find some parts more useful than others.

The CWA provides methodologies for comparison of the definitions of terms and the scope of the related source (e. g. terminology standard). It is not a purpose of the CWA to prioritize terms or definitions for one group of users or another.

The analysis of the scope is imperative, because it can lead to misleading conclusions in case a definition is analysed without taking the context of the related source into account. The context of a terminology is typically described in the scope of such documents; the lack of context of a terminology is a limitation hampering its application.

Reference to existing standards (i.e. local, regional, European and international) is given where appropriate.

The CWA represents a best-effort attempt to compile a representative list of terms, taxonomies and definitions that are used and applied in the domains of crisis and disaster management, including social safety, natural disasters, man-made disasters, risk analysis, preparedness, response and recovery. However, the CWA does not intend to provide a complete compilation of existing terms, taxonomies and definitions.

This CWA has limitations and does not address issues of cyber-security, counter-terrorism, border control, critical infrastructure protection directly. Some of the results can eventually be applied to those domains, but not as a primary application area.

The CWA is expected to be used for the improvement of the quality and efficiency of communication between actors in crisis and disaster management, independently of the communication channel being used.

Typical scenarios, where the results of the CWA might be used, include the need for information exchange between the many diverse stakeholders involved or between formal response agencies.

¹ Contextual means provision of information on the source of the data (e.g. ISO, UN, DIN), intended user group (e.g. first responders, CI operators) and area of application (e.g. natural disasters, large scale accidents).

Such communication may take the form of conversations between individuals in groups or of data exchange implemented by computers (and, in general, IT systems).

This CWA was initiated by the FP7 projects EPISECC (Establish Pan-European Information Space to Enhance Security of Citizens, focused on response phase), SecInCoRe (Secure Dynamic Cloud for Information, Communication and Resource Interoperability based on Pan-European Disaster Inventory, focused on preparedness phase), DRIVER+ (Driving Innovation in Crisis Management for European Resilience), SECTOR (Secure European Common Information Space for the Interoperability of First Responders and Police Authorities) and REDIRNET (Emergency Responder Data Interoperability Network), and supported by the FP7 project COncORDE (Development of Coordination Mechanisms During Different Kinds of Emergencies).

1 Scope

This CEN Workshop Agreement analyses definitions of terms used in crisis and disaster management as well as the scopes of the related source.

Both scopes and definitions from different sources are compiled and compared regarding several aspects such as their context and envisaged audience. Sources could be a terminology standard or web services.

The focus is set in responses to large scale critical events. Small scale incidents managed by daily routine processes of stakeholders are also covered but are not the main focus of this CWA. Selected terminologies predominantly from the domains crisis and disaster management are used for the analysis and are included in the document.

The CEN Workshop Agreement includes terminologies and taxonomies, but no ontologies.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

crisis

unstable condition involving an impending abrupt or significant change that requires urgent attention and action to protect life, assets, property or the environment

[SOURCE: ISO 22300:2018, 3.59]

3.2

definition

representation of a concept by a descriptive statement which serves to differentiate it from related concepts

[SOURCE: ISO/IEC TR 20943-6:2013, 3.1.7]

3.3

disaster

situation where widespread human, material, economic or environmental losses have occurred which exceeded the ability of the affected organization, community or society to respond and recover using its own resources

[SOURCE: ISO 22300:2018, 3.69]

3.4

ontology

specification of concrete or abstract things, and the relationships among them, in a prescribed domain of knowledge