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Societal security — Emergency management — Message structure for exchange of information

Sécurité sociétale — Gestion des urgences — Message structures pour échanger d'information

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 292, *Security and resilience*.

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Introduction

Clear situation awareness is a key factor for effective emergency response. The building of an operational picture is based on the integration and assessment of information collected from the different teams of responders and other information sources. It relies on exchange of information. The ability to exchange information in a timely and secure manner is critical to the effective conduct of emergency management.

This Technical Report proposes a structured message in order to facilitate these exchanges. The message is flexible with regard to the regulations of nations and organizations. It helps the operational information exchange between organizations, especially when different terminologies or different languages are used as in civil–military cooperation, trans-border collaboration or multi-agency emergencies. It enables all involved organizations to co-operate with a high level of interoperability as described in ISO 22320.

This Technical Report is based on results from the CEN Workshop Agreement CWA 15931 published in March 2009 as the Tactical Situation Object (TSO) by a European Frame Work Program 6 project.

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Societal security — Emergency management — Message structure for exchange of information

1 Scope

This Technical Report describes a message structure for the exchange of information between organizations involved in emergency management. An organization can ingest the received information, based on the message structure, in its own operational picture.

The structured message is called Emergency Management Shared Information (EMSI).

This Technical Report describes the message structure built in order to facilitate interoperability between existing and new information systems.

The intended audience of this Technical Report is control room engineers, information systems designers and decision makers in emergency management.

NOTE The EMSI can be used complementary to other message protocols, as for example the common alert protocol (CAP).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 22300, *Societal security — Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 22300 apply.

NOTE All terms and definitions contained in ISO 22300 are available on the ISO Online Browsing Platform: www.iso.org/obp.

4 The EMSI message

4.1 General

An EMSI describes a part of the operational picture at a particular time. It is exchanged between nodes in order to transfer information and describes events, resources and missions (see Figure 1).

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