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Societal security — Video- surveillance — Export interoperability

Sécurité sociétale — Videosurveillance — Interopérabilité de l'export



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General	3
4.1 Concept	3
4.2 Relation with other standards	5
5 Requirements	5
5.1 General	5
5.2 Requirements for the Audio-Video Package	6
5.3 Data security and integrity	15
5.4 Provisions for privacy	16
Annex A (normative) Metadata dictionary	17
Annex B (informative) Requirements concerning usability	26
Bibliography	29

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 22311 was prepared by Technical Committee ISO/TC 223, *Societal security*.

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Introduction

Video-surveillance is a crucial asset in intelligence collection, crime prevention, crisis management, forensic applications etc. The minimum requirement in societal security is for the authorities to be able to rapidly use the data collected by different CCTV systems from given locations.

This International Standard provides an export interoperability profile which constitutes the exchange format and minimum technical requirements that ensure that the digital video-surveillance contents exported are compatible with the replay systems, establish an appropriate level of quality and contain all the context information (metadata) necessary for their processing.

It is crucial for societal security that present and future video-surveillance systems implement this interface to allow efficient forensic processing of the material produced, often in massive quantities.

This International Standard also contains provisions to ensure that privacy measures can be implemented to protect the rights of the individuals.

This International Standard does not impose implementation methods or technological solutions. It relies heavily on individual technical standards separately developed and concentrates on minimum necessary profiles or subsets thereof to achieve its societal security objectives.

This International Standard is a blend of profiles of standards and practices, which combined, will achieve a minimum level of interoperability.

This implementation has only been possible because of standards produced by the following bodies:

- ISO/IEC JTC 1/SC 29/WG 11, Coding of moving pictures and audio (MPEG);
- ISO/IEC JTC 1/SC 29/WG 1, Coding of still pictures (JPEG);
- IEC/TC 79, Alarm systems and electronic security (including its European equivalent CENELEC/TC 79, Alarm systems and electronic security);
- ITU, International Telecommunication Union;
- IETF, Internet Engineering Task Force;
- SMPTE, Society of Motion Picture and Television Engineers;
- NATO, Standardization Agency.

The normative Annex A contains a metadata dictionary.

The importance of having images stored and presented to the user in such a way that their use is facilitated is presented in the informative Annex B.