

SLOVENSKI STANDARD SIST EN ISO/IEC 13818-9:2003

01-oktober-2003

±bZcfa UW]/g_U'h\\ bc`c[]/U!'Cgbcj bc`_cX]fUb^Y`Z]`a g_]\ 'dcgbYh_cj ']b'df]dUXU'c]\
nj c b]\ ']bZcfa UW]^!'- "XY`.'DcXU^ýY_'nUfYU'bc Ugcj b]'ja Ygb]_'nUg]ghYa g_Y
XY cX]fb] Y`fLGC#97'%,%!-.%-*Ł

Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders (ISO/IEC 13818-9:1996)

iTeh STANDARD PREVIEW (standards.iteh.ai)

Technologies de l'information - Codage générique des images animées et des informations sonores associées et Partie 9: Extension pour interface temps réel pour systemes décodeurs dff19661c65/sist-en-iso-icc-13818-9-2003 (ISO/IEC 13818-9:1996)

Ta slovenski standard je istoveten z: EN ISO/IEC 13818-9:2000

ICS:

35.040 Nabori znakov in kodiranje Character sets and

informacij information coding

SIST EN ISO/IEC 13818-9:2003 en

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO/IEC 13818-9

December 2000

ICS 35.040

English version

Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders (ISO/IEC 13818-9:1996)

Technologies de l'information - Codage générique des images animées et des informations sonores associées - Partie 9: Extension pour interface temps réel pour systèmes décodeurs (ISO/IEC 13818-9:1996)

This European Standard was approved by CEN on 17 November 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from Technical Committee ISO/IEC/JTC 1 "Information technology" of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) has been taken over as an European Standard by the Technical Board of CMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2001, and conflicting national standards shall be withdrawn at the latest by June 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO/IEC 13818-9:1996 has been approved by CMC as a European Standard without any modification.

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INTERNATIONAL STANDARD **ISO/IEC** 13818-9

First edition 1996-12-15

Information technology — Generic coding of moving pictures and associated audio information —

iTeh STANDARD PREVIEW
(Part 9: rdg itch ci)

Extension for real time interface for systems

decodersc 13818-9:2003

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dffl 1961/65/sisten-iso-iso-iso-13818-9-2003 Technologies de l'information — Codage générique des images animées et des informations sonores associées —

Partie 9: Extension pour interface temps réel pour systèmes décodeurs



ISO/IEC 13818-9:1996(E)

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to IEW national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

SIST EN ISO/IEC 13818-9:2003

International Standard MSO/IEC 1381849atwastaprepared by 8 Joint 20-46a4-8 f80-Technical Committee ISO/IEC JTC 161 Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information.

ISO/IEC 13818 consists of the following parts, under the general title *Information technology* — *Generic coding of moving pictures* and associated audio information:

- Part 1: Systems
- Part 2: Video
- Part 3: Audio
- Part 4: Compliance testing
- Part 6: Extensions for DSM-CC
- Part 9: Extension for real time interface for systems decoders

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Introduction

Conformance for ISO/IEC 13818-1 Transport Streams is specified in terms of the normative specifications defined therein. These specifications include, among other requirements, a Transport Stream System Target Decoder (T-STD) (ISO/IEC 13818-1, 2.4.2) which specifies the behaviour of an idealized decoder when the stream is input to such a decoder. The T-STD model, and the associated verification, do not include information concerning the stream in real time.

This part of ISO/IEC 13818 specifies the timing of the real-time delivery of the bytes of Transport Stream packets at a Real Time Interface (RTI). Equipment which includes some type of interface for Transport Stream data, the timing characteristics of which are said to comply with the RTI specification, must be able to operate (normally with any input which complies with the RTI specification. In no case, however, is a piece of equipment required to implement an RTI interface₃₈₁₈₋₉₂₀₀₃

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Information technology — Generic coding of moving pictures and associated audio information —

Part 9:

Extension for real time interface for systems decoders

1 Scope

This part of ISO/IEC 13818 does not change or supersede any of the requirements in ISO/IEC 13818-1. All Transport Streams, whether or not they are delivered in accordance with the RTI shall comply with ISO/IEC 13818-1. In particular, the accuracy requirement in ISO/IEC 13818-1 for PCRs in Transport Streams is not changed by the requirements of this part of ISO/IEC 13818. Compliance with this part of ISO/IEC 13818 is not required for compliance with ISO/IEC 13818-1.

This part of ISO/IEC 13818 does not address decoder requirements related to clock acquisition and slew rate constraints. For example, suppose a system utilizes the 27 MHz system clock to derive an ITU-R PAL chroma clock of 4.434 MHz, with a 0.1 Hz/sec slew rate limitation. With a source clock of 0.1 ppm accuracy, a decoder clock of 30 ppm accuracy, and straightforward phase-locked loop clock recovery circuitry, a decoder could require about 305,000 bits to prevent buffer under/overflow during frequency acquisition, even with low-jitter delivery. The actual number of bits a decoder requires for this purpose could be higher or lower, depending on the implementation.

Figure 1 provides a simplified view of the scope of this part of ISO/IEC 13818. This figure shows a Data Link Interface Adaptor, a Real-Time Interface Decoder (RTD), and the location of the Transport Stream which complies with the RTI Specification. It should be noted that the Data Link Interface Adaptor is responsible for removing any data link protocol or data structures, as well as any timing variations (i.e. jitter) in order to produce a compliant RTI Transport Stream.

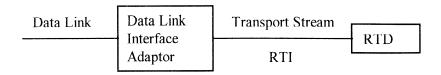


Figure 1 - Scope of RTI