Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders

Information technology - Generic coding of moving pictures and associated audio information - Part 9: Extension for real time interface for systems decoders

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO/IEC 13818-9:2001 sisaldab Euroopa standardi EN ISO/IEC 13818-9:2000 ingliskeelset teksti. Käesolev dokument on jõustatud 18.05.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO/IEC 13818-9:2001 consists of the English text of the European standard EN ISO/IEC 13818-9:2000. This document is endorsed on 18.05.2001 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: 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.	**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.

ICS 33.160.60, 35.040

Võtmesõnad: audio data, coding (data conversion), computer interfaces, data converting, data processing, decoders, image processing, moving pictures, sound recording, video data, video recording

EUROPÄISCHE NORM
EUROPEAN STANDARD
NORME EUROPÉENNE

EN ISO/IEC 13818-9

November 2000

ICS 35.040

Deutsche Fassung

Informationstechnik

Codierung von bewegten Bildern und damit verbundenen Toninformationen

Teil 9: Erweiterung für Echtzeitschnittstelle für Systemdecodierer
(ISO/IEC 13818-9:1996)

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)

Diese Europäische Norm wurde von CEN am 17. November 2000 angenommen.

Die CEN-Mitglieder sind gehalten, die CEN/CENELEC-Geschäftsordnung zu erfüllen, in der die Bedingungen festgelegt sind, unter denen dieser Europäischen Norm ohne jede Änderung der Status einer nationalen Norm zu geben ist.

Auf dem letzten Stand befindliche Listen dieser nationalen Normen mit ihren bibliographischen Angaben sind beim Management-Zentrum oder bei jedem CEN-Mitglied auf Anfrage erhältlich.

Diese Europäische Norm besteht in drei offiziellen Fassungen (Deutsch, Englisch, Französisch). Eine Fassung in einer anderen Sprache, die von einem CEN-Mitglied in eigener Verantwortung durch Übersetzung in seine Landessprache gemacht und dem Management-Zentrum mitgeteilt worden ist, hat den gleichen Status wie die offiziellen Fassungen.

CEN-Mitglieder sind die nationalen Normungsinstitute von Belgien, Dänemark, Deutschland, Finnland, Frankreich, Griechenland, Irland, Island, Italien, Luxemburg, Niederlande, Norwegen, Österreich, Portugal, Schweden, Schweiz, Spanien, der Tschechischen Republik und dem Vereinigten Königreich.

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

Management-Zentrum: rue de Stassart, 36 B-1050 Brüssel

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.

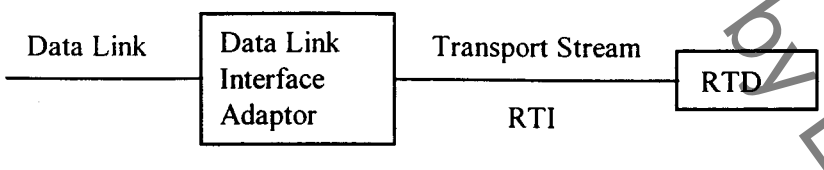

Figure 1 - Scope of RTI