Information technology — High efficiency coding and media delivery in heterogeneous environments —

Part 10: MPEG Media Transport Forward Error Correction (FEC) codes
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Foreword

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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 document 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).

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The committee responsible for this document is ISO/IEC JTC 1, Information technology, SC 29, Coding of audio, picture, multimedia and hypermedia information.

ISO/IEC 23008 consists of the following parts, under the general title Information technology — High efficiency coding and media delivery in heterogeneous environments:

— Part 1: MPEG media transport (MMT)
— Part 2: High efficiency video coding (HEVC)
— Part 3: 3D Audio
— Part 10: MPEG Media Transport Forward Error Correction (FEC) codes
— Part 11: MPEG Media Transport Composition Information
Introduction

This part of ISO/IEC 23008 specifies application level forward error correction (FEC) codes which can be used with application level-forward error correction (AL-FEC) framework of ISO/IEC 23008-1 MPEG Media Transport (MMT) to provide reliable delivery in IP network and non IP network environments that are prone to packet losses.
Information technology — High efficiency coding and media delivery in heterogeneous environments —

Part 10:
MPEG Media Transport Forward Error Correction (FEC) codes

1 Scope

This part of ISO/IEC 23008 specifies application level forward error correction (FEC) codes which can be used with AL-FEC framework of ISO/IEC 23008-1 MPEG Media Transport to provide reliable delivery in IP network and non IP network environments that are prone to packet losses.

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/IEC 23008-1, Information technology — High efficiency coding and media delivery in heterogeneous environments — Part 1: MPEG media transport (MMT)

IETF RFC 5170, Low Density Parity Check (LDPC) Staircase and Triangle Forward Error Correction (FEC) Schemes, June 2008

IETF RFC 5510, Reed-Solomon Forward Error Correction (FEC) Schemes, April 2009

IETF RFC 6330, RaptorQ Forward Error Correction Scheme for Object Delivery, August 2011

SMPTE2022-1, Forward Error Correction for Real-Time Video/Audio Transport Over IP Networks