Technical Report

ISO/IEC TR 19566-9

Information technology — JPEG Systems —

Part 9: JPEG extensions mechanisms to facilitate forwards and backwards compatibility

Technologies de l'information — Systèmes JPEG —

Partie 9: Mécanismes d'extension JPEG pour faciliter la compatibilité ascendante et descendante

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Foreword

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Introduction

This document collects guiding principles on how standards discussed in ISO/IEC TR 19566-1 provide mechanisms for forwards compatibility, so called extension mechanisms, both on the basis of the codestream and the file format and lists specific implementations of these guiding principles in particular standards.

The purpose of this document is to provide documentation on these principles for the preparation of future extensions of these standards, and to ensure consistency of extension principles amongst standards.

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Information technology — JPEG Systems —

Part 9: JPEG extensions mechanisms to facilitate forwards and backwards compatibility

1 Scope

This document summarizes mechanisms by which existing file formats and codestreams, such as those specified in ISO/IEC TR 19566-1, can be extended in a forward and backward-compatible way.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Rec. ITU-T T.800 | ISO/IEC 15444-1, *Information technology — JPEG 2000 image coding system — Part 1: Core coding system*

Rec. ITU-T T.801 | ISO/IEC 15444-2, *Information technology — JPEG 2000 image coding system — Part 2: Extensions*

Rec. ITU-T T.802 | ISO/IEC 15444-3, *Information technology — JPEG 2000 image coding system — Part 3: Motion JPEG 2000*

ISO/IEC 18181-1, *Information technology — JPEG XL image coding system — Part 1: Core coding system*

ISO/IEC TR 19566-1, *Information technology — JPEG Systems — Part 1: Packaging of information using codestreams and file formats*

ISO/IEC 21122-1, *Information technology — JPEG XS low-latency lightweight image coding system — Part 1: Core coding system*

3 Terms, definitions, and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in Rec. ITU-T T.800 | ISO/IEC 15444-1, Rec. ITU-T T.801 | ISO/IEC 15444-2, Rec. ITU-T T.802 | ISO/IEC 15444-3, ISO/IEC 18181-1, ISO/IEC TR 19566-1, ISO/IEC 21122-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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