

SMPTE OVERVIEW



Interoperable Master Format

Introduction

The IMF is a file-based framework for the exchange and processing of multiple content versions (airline edits, special edition, languages...) of the same high-quality finished work (feature, episode, trailer, advertisement, etc) destined for distribution channels worldwide. Specialization of the IMF Framework designed to meet the requirements of specific domains is achieved through the definition of IMF Applications.

Provisions common to all IMF Applications are specified in SMPTE ST 2067-2 ("Core Constraints"), while separate documents contain provisions specific to individual IMF Applications – see Table 2 below.

Document Roadmap

The IMF Framework and its Applications are specified in the SMPTE 2067 suite of documents, which is organized according to Table 1.

Table 1. Organization of the SMPTE 2067 Suite of Documents

Parts	Scope
1 – 19	Core specifications generally applicable to all IMF Applications
20 – 29	Related to IMF Application #2
30 – 39	Related to IMF Application #3
40 – 49	Related to IMF Application #4 Cinema Mezzanine
50 – 59	Related to IMF Application #5 ACES
100 – 119	Related to the Output Profile List

Table 2 lists the latest versions of the documents of the suite available at the time of publication of this document.

Table 2. Documents of the SMPTE 2067 Suite (Latest Versions)

Document	Title	Library URL
ST 2067-2:2016	Core Constraints	https://doi.org/10.5594/SMPTE.ST2067-2.2016
ST 2067-3:2016	Composition Playlist	https://doi.org/10.5594/SMPTE.ST2067-3.2016
ST 2067-5:2013	Essence Component	https://doi.org/10.5594/SMPTE.ST2067-5.2013
ST 2067-5:2013 Am1:2016		https://doi.org/10.5594/SMPTE.ST2067-5.2013Am1.2016
ST 2067-8:2013	Common Audio Labels	https://doi.org/10.5594/SMPTE.ST2067-8.2013
ST 2067-9:2018	Sidecar Composition Map	https://doi.org/10.5594/SMPTE.ST2067-9.2018
ST 2067-20:2016	Application #2	https://doi.org/10.5594/SMPTE.ST2067-20.2016
ST 2067-21:2016	Application #2E	https://doi.org/10.5594/SMPTE.ST2067-21.2016
ST 2067-30:2013	Application #3	https://doi.org/10.5594/SMPTE.ST2067-30.2013
ST 2067-40:2016	Application #4 Cinema Mezzanine	https://doi.org/10.5594/SMPTE.ST2067-40.2016
ST 2067-40:2016 AM1:2017	Application #4 Cinema Mezzanine Amendment 1:2017	https://doi.org/10.5594/SMPTE.ST2067-40.2016Am1.2017
ST 2067-50:2018	Application #5 (ACES)	https://doi.org/10.5594/SMPTE.ST2067-50.2018
ST 2067-100:2014	Output Profile List	https://doi.org/10.5594/SMPTE.ST2067-100.2014
ST 2067-101:2018	Output Profile List — Common Image Definitions and Macros	https://doi.org/10.5594/SMPTE.ST2067-101.2018
ST 2067-102:2017	Common Image Pixel Color Schemes	https://doi.org/10.5594/SMPTE.ST2067-102.2017
ST 2067-103:2014	Common Audio Definition and Macros	https://doi.org/10.5594/SMPTE.ST2067-103.2014

XML Namespaces and Schema Documents

Table 3 lists the XML namespaces defined by the latest version of the documents of the SMPTE 2067 suite. Any XML Schema Document associated with each namespace, if any, can be retrieved at the namespace URL. Please note that in case of a conflict between schema and the prose in the defining document, the prose takes precedence.

Table 3. XML Namespaces defined in the SMPTE 2067 Suite (Latest Versions)

Defining document	ST 2067-2:2016
Namespaces	http://www.smpte-ra.org/schemas/2067-2/2016
	http://www.smpte-ra.org/schemas/2067-2/2016/PKL

Defining document	ST 2067-3:2016
Namespaces	http://www.smpte-ra.org/schemas/2067-3/2016

Defining document	ST 2067-9:2018
Namespaces	http://www.smpte-ra.org/ns/2067-9/2018

Defining document	ST 2067-21:2016
Namespaces	http://www.smpte-ra.org/schemas/2067-21/2016

Defining document	ST 2067-50:2018
Namespaces	http://www.smpte-ra.org/ns/2067-50/2017 http://www.smpte-ra.org/ns/2067-50/2017/opl-color-scheme

Defining document	ST 2067-100:2014
Namespaces	http://www.smpte-ra.org/schemas/2067-100/2014

Defining document	ST 2067-101:2018
Namespaces	http://www.smpte-ra.org/ns/2067-101/2018/lanczos
	http://www.smpte-ra.org/ns/2067-101/2018/pixel-decoder
	http://www.smpte-ra.org/ns/2067-101/2018/pixel-encoder
	http://www.smpte-ra.org/ns/2067-101/2018/scale-macro
	http://www.smpte-ra.org/ns/2067-101/2018/color-schemes
	http://www.smpte-ra.org/ns/2067-101/2018/crop-macro

Defining document	ST 2067-102:2017
Namespaces	http://www.smpte-ra.org/schemas/2067-102/2017

Defining document	ST 2067-103:2014
Namespaces	http://www.smpte-ra.org/schemas/2067-103/2014