

DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2024-06-03
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Correction Number	CP-2385
Log Summary: Fix inconsistent names of Transfer Syntaxes	
Name of Standard PS3.11	
<p>Rationale for Correction:</p> <p>Throughout DICOM PS3.11, the names of the Transfer Syntaxes are not consistent with the official names associated with the Transfer Syntax UIDs according to PS3.6. This results in a wrong use of terms, e.g., in DICOM Conformance Statements (at least when based on the “old” DCS template according to DICOM PS3.2-2022d Annex A). In this context, there are also other inconsistencies that are proposed to be fixed with this CP, e.g., in relation to the difference between Application Profile and profile class.</p> <p><i>Editorial change:</i> The spelling of defined terms such as “Application Profile” should be harmonized in this Part of the DICOM Standard, i.e., written with capital initial letters. The same is true for terms like “SOP Instance”, “Transfer Syntax”, “File-set Creator”, “File-set Updater”, “File-set Reader”, etc.</p>	
Correction Wording:	

Change PS3.11 Section A.3.1

A.3.1 SOP Classes and Transfer Syntaxes

This Application Profile is based on the Media Storage Service Class (see PS3.4).

SOP Classes and corresponding Transfer Syntaxes supported by this Application Profile are specified in the Table A.3-1.

Table A.3-1. STD-XABC-CD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Mandatory	Mandatory	Optional

Note

1. This ~~an~~Application ~~pp~~Profile does not allow the use of the X-Ray Angiographic Bi-Plane Image ~~IObjec~~D. Bi-plane acquisitions must therefore be transferred as two single plane SOP ~~i~~nstances. ~~A future Application Profile that permits X-Ray Angiographic Bi-Plane Image Object transfer is under development.~~
2. This Application Profile includes only the X-Ray Angiographic Image SOP Instances. It does not include Standalone Curve, Modality LUT, VOI LUT, or Overlay SOP Instances.

Change PS3.11 Section B.3.1

B.3.1 SOP Classes and Transfer Syntaxes

This Application Profile Class is based on the Media Storage Service Class (see PS3.4).

SOP Classes and corresponding Transfer Syntaxes supported by this Application Profile are specified in Table B.3-1.

Table B.3-1. STD-XA1K-CD and STD-XA1K-DVD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement (see Note 1)
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Mandatory	Mandatory	Optional
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossy , Baseline Sequential with Huffman Coding (Process 1) 1.2.840.10008.1.2.4.50	Optional for DVD; Disallowed for CD	Mandatory for DVD; Disallowed for CD	Undefined for DVD; Disallowed for CD
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Extended (Process 2 & 4); Default Transfer Syntax for Lossy JPEG 12-Bit Image Compression (Process 4 only) 1.2.840.10008.1.2.4.51	Optional for DVD; Disallowed for CD	Mandatory for DVD; Disallowed for CD	Undefined for DVD; Disallowed for CD
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory	Optional
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional	Optional

Note

1. The FSU requirement is not defined for STD-XA1K-DVD profile.
2. The Standalone Overlay, Standalone Curve and Detached Patient ~~m~~Management SOP Classes were formerly defined in these profiles, but have been retired. The Grayscale Softcopy Presentation State Storage **SOP Class** has been added as the preferred mechanism for conveying annotations.

Change PS3.11 Section C.3.1

C.3.1 Abstract **SOP Classes** and Transfer Syntaxes

Application Profiles in this class, STD-US, shall support the appropriate Information Object Definitions (IOD) and Transfer Syntaxes ~~for the Media Storage SOP Class~~ in the following table. In the role of FS-~~Updater~~ or FS-~~Creator~~, the application can choose one of the three possible ~~t~~Transfer Syntaxes to create an ~~IOD SOP Instance~~. In the role of FS-~~Reader~~, an application shall support all ~~t~~Transfer Syntaxes defined for the ~~respective~~ STD-US ~~a~~Application ~~p~~Profile.

Table C.3-1. Ultrasound SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u>	Transfer Syntax UID
DICOM Media Storage Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed	1.2.840.10008.1.2.1 (see Section 8.6 in PS3.10)
Ultrasound Image- Storage	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Little Endian Uncompressed	1.2.840.10008.1.2.1
Ultrasound Image- Storage	1.2.840.10008.5.1.4.1.1.6.1	RLE Lossless- Image Compression	1.2.840.10008.1.2.5
Ultrasound Image- Storage	1.2.840.10008.5.1.4.1.1.6.1	JPEG Lossy , Baseline Sequential with Huffman Coding -(Process 1)	1.2.840.10008.1.2.4.50
Ultrasound Multi-frame Image- Storage	1.2.840.10008.5.1.4.1.1.3.1	Explicit VR Little Endian Uncompressed	1.2.840.10008.1.2.1
Ultrasound Multi-frame Image- Storage	1.2.840.10008.5.1.4.1.1.3.1	RLE Lossless- Image Compression	1.2.840.10008.1.2.5
Ultrasound Multi-frame Image- Storage	1.2.840.10008.5.1.4.1.1.3.1	JPEG Lossy , Baseline Sequential with Huffman Coding -(Process 1)	1.2.840.10008.1.2.4.50

C.3.1.1 Ultrasound Single and Multi-frame Pixel Formats Supported

The **Application Profiles of the** STD-US ~~application-profile~~class requires that all ultrasound image objects only be stored using the values described in ~~PS3.3the US Image Module in PS3.3~~ and the specializations used for the Ultrasound Single and Multi-Frame IODs.

In the role of FS-~~Updater~~ or FS-~~Creator~~ the application can choose any of the supported Photometric Interpretations described in ~~PS3.3the US Image Module in PS3.3~~ to create an ~~IOD SOP Instance~~. In the role of FS-~~Reader~~, an application shall support all Photometric Interpretations described in ~~PS3.3the US Image Module in PS3.3~~.

Table C.3-2 describes restrictions on the use of various Transfer Syntaxes with the supported Photometric Interpretations for both single and multi-frame images.

Table C.3-2. Defined Photometric Interpretation and Transfer Syntax Pairs

Photometric Interpretation Value	Transfer Syntax <u>Name</u>	Transfer Syntax UID
MONOCHROME2	Uncompressed <u>Explicit VR Little Endian</u>	1.2.840.10008.1.2.1
	RLE Lossless Image Compression	1.2.840.10008.1.2.5
RGB	Uncompressed <u>Explicit VR Little Endian</u>	1.2.840.10008.1.2.1
	RLE Lossless Image Compression	1.2.840.10008.1.2.5
PALETTE COLOR	Uncompressed <u>Explicit VR Little Endian</u>	1.2.840.10008.1.2.1
	RLE Lossless Image Compression	1.2.840.10008.1.2.5
YBR_FULL	RLE Lossless Image Compression	1.2.840.10008.1.2.5
YBR_FULL_422	Uncompressed <u>Explicit VR Little Endian</u>	1.2.840.10008.1.2.1
	JPEG Lossy <u>Baseline (Process 1)</u>	1.2.840.10008.1.2.4.50

Change PS3.11 Section C.3.3.2

C.3.3.2 File Component IDs

Note

File Component IDs should be created using a random number filename to minimize File Component ID collisions as described in PS3.12. The FS-~~Updater~~ ~~should~~ **update** should check the existence of a Component ID prior to creating that ID. Should an ID collision occur, the FS-~~Updater~~ ~~should~~ **update** should try another ID.

Change PS3.11 Section D.3.1

D.3.1 SOP Classes and Transfer Syntaxes

These Application Profiles ~~is are~~ based on the Media Storage Service Class (see PS3.4).

Table D.3-1. ~~STD-GEN~~ STD-GEN-CD, STD-GEN-DVD-RAM, STD-GEN-SEC-CD, STD-GEN-SEC-DVD-RAM, STD-GEN-BD, STD-GEN-SEC-BD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
<u>Composite Image & Stand-alone Storage Composite IODs for which a Media Storage SOP Class is defined in PS3.4</u>	See PS3.4	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Defined in Conformance Statement	Defined in Conformance Statement	Optional

The SOP Classes and corresponding Transfer Syntax supported by these Application Profiles are specified in the Table D.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement **using a table of the same form.**

E.3.1 SOP Classes and Transfer Syntaxes

These Application Profiles are based on the Media Storage Service Class (see PS3.4).

SOP Classes and corresponding Transfer Syntaxes supported by these Application Profiles are specified in the Table E.3-1.

Table E.3-1. STD-CTMR SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement (see Note 1)
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
CT Image	1.2.840.10008.5.1.4.1.1.2	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Optional	Mandatory	Optional
CT Image	1.2.840.10008.5.1.4.1.1.2	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory	Optional
MR Image	1.2.840.10008.5.1.4.1.1.4	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Optional	Mandatory	Optional
MR Image	1.2.840.10008.5.1.4.1.1.4	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory	Optional
Secondary Capture Image (Grayscale)	1.2.840.10008.5.1.4.1.1.7	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Optional	Mandatory	Optional
Secondary Capture Image (Grayscale)	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory	Optional
Secondary Capture Image (Palette Color)	1.2.840.10008.5.1.4.1.1.7	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 {s[Selection vValue 1]}) 1.2.840.10008.1.2.4.70	Optional	Optional	Optional

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement (see Note 1)
Secondary Capture Image (Palette Color)	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional	Optional
Grayscale Softcopy Presentation State	1.2.840.10008.5.1.4.1.1.11.1	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional	Optional
X-Ray Radiation Dose SR	1.2.840.10008.5.1.4.1.1.88.67	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional	Optional

Note

1. The FSU requirement is not defined for the STD-CTMR-DVD profile.
2. The Detached Patient ~~m~~Management SOP Class was formerly defined in these profiles, but has been retired.

Change PS3.11 Section G.3.1

G.3.1 SOP Classes and Transfer Syntaxes

This Application Profile is based on the Media Storage Service Class (see PS3.4).

Table G.3-1. STD-GEN-MIME SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional
Composite Image & Stand-alone Storage Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	Defined in Conformance Statement	Defined in Conformance Statement	Defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntaxes supported by this Application Profile are specified in the Table G.3-1. The supported Storage SOP Class(es) and Transfers Syntax(es) shall be listed in the Conformance Statement ~~using a table of the same form~~.

Change PS3.11 Section G.3.1

H.3.1 SOP Classes and Transfer Syntaxes

~~The~~These Application Profiles ~~is~~are based on the Media Storage Service Class (see PS3.4).

Table H.3-1. STD-GEN-DVD and STD-GEN-SEC-DVD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14) (s[Selection vValue 1]) 1.2.840.10008.1.2.4.70	Defined in Conformance Statement	Mandatory for -JPEG profiles for all SOP Classes defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossy , Baseline Sequential with Huffman Coding (Process 1) 1.2.840.10008.1.2.4.50	Defined in Conformance Statement	Mandatory for -JPEG profiles for all SOP Classes defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Extended (Process 2 & 4); Default Transfer Syntax for Lossy JPEG 12-Bit Image Compression (Process 4 only) 1.2.840.10008.1.2.4.51	Defined in Conformance Statement	Mandatory for -JPEG profiles for all SOP Classes defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression (Lossless Only) 1.2.840.10008.1.2.4.90	Defined in Conformance Statement	Mandatory for -J2K profiles for all SOP Classes defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression 1.2.840.10008.1.2.4.91	Defined in Conformance Statement	Mandatory for -J2K profiles for all SOP Classes defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntaxes supported by these Application Profiles are specified in the Table H.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement **using a table of the same form.**

Change PS3.11 Section I.3.1

I.3.1 SOP Classes and Transfer Syntaxes

The ~~these~~ Application Profiles ~~s~~ **is/are** based on the Media Storage Service Class (see PS3.4).

Table I.3-1. STD-DVD-MPEG2-MPML and STD-DVD-SEC-MPEG2-MPML SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG2 Main Profile @ Main Level Image Compression 1.2.840.10008.1.2.4.100	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntax supported by ~~these~~ Application Profiles are specified in the Table I.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement ~~using a table of the same form.~~

Change PS3.11 Section J.3.1

J.3.1 SOP Classes and Transfer Syntaxes

The ~~these~~ Application Profiles ~~isare~~ based on the Media Storage Service Class (see PS3.4).

Table J.3-1. STD-GEN-USB, STD-GEN-SEC-USB, STD-GEN-MMC, STD-GEN-SEC-MMC, STD-GEN-CF, STD-GEN-SEC-CF, STD-GEN-SD and STD-GEN-SEC-SD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 (s Selection v Value 1)) 1.2.840.10008.1.2.4.70	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossy , Baseline Sequential with Huffman Coding (Process 1) 1.2.840.10008.1.2.4.50	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage	See PS3.4	JPEG Extended (Process 2 & 4) ;	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in	Defined in Conformance Statement

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
SOP Class is defined in PS3.4		Default Transfer Syntax for Lossy JPEG 12 Bit Image Compression (Process 4 only) 1.2.840.10008.1.2.4.51		Conformance Statement	
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression (Lossless Only) 1.2.840.10008.1.2.4.90	Defined in Conformance Statement	Mandatory for 2 J2K profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression 1.2.840.10008.1.2.4.91	Defined in Conformance Statement	Mandatory for 2 J2K profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntaxes supported by these Application Profiles are specified in the Table J.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement ~~using a table of the same form.~~

Change PS3.11 Section K.3.1

K.3.1 SOP Classes and Transfer Syntaxes

The Application Profile STD-DEN-CD shall support the SOP Classes and Transfer Syntaxes in the following table.

Table K.3-1. ~~Dental Abstract~~STD-DEN-CD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory
Basic Structured Display Storage	1.2.840.10008.5.1.4.1.1.1.131	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Grayscale Softcopy Presentation State	1.2.840.10008.5.1.4.1.1.11.1	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Optional

Note

The Digital X-Ray Image Storage and Digital Intra-oral X-Ray Image Storage ~~_For Presentation~~ SOP Classes can also be used for scanned film.

A File-~~S~~~~et~~ Creator (~~FSC~~) shall support at least one of the specified image storage SOP Classes.

Change PS3.11 Section L.3.1

L.3.1 STD-GEN-ZIP-MAIL and STD-GEN-SEC-ZIP-MAIL ~~Abstract~~SOP Classes and Transfer Syntaxes

Applications interchanging data under the STD-GEN-ZIP-MAIL and STD-GEN-SEC-ZIP-MAIL profiles shall support the Information Object Definitions (IOD) and Transfer Syntaxes ~~for the Media Storage SOP Class~~ specified in Table L.3-1.

Table L.3-1. STD-GEN-ZIP-MAIL and STD-GEN-SEC-ZIP-MAIL SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory
Composite Image & Stand-alone Storage <u>Composite IODs for which a Media Storage SOP Class is defined in PS3.4</u>	See PS3.4	Defined in Conformance Statement	Defined in Conformance Statement	Defined in Conformance Statement

Equipment claiming conformance to these Application Profiles shall list the subset of ~~Media~~ Storage SOP Classes and Transfer Syntaxes that it supports in its Conformance Statement.

Change PS3.11 Section L.4.1

L.4.1 STD-DTL-SEC-ZIP-MAIL ~~Abstract~~SOP Classes and Transfer Syntaxes

Applications interchanging data under the STD-DTL-SEC-ZIP-MAIL profile shall support the Information Object Definitions (IOD) and Transfer Syntaxes ~~for the Media Storage SOP Class~~ specified in Table L.3-2. File-~~S~~~~et~~ Creators for the STD-FTL-SEC-ZIP-MAIL shall support at least one of the optional IODs.

Table L.3-2. STD-DTL-SEC-ZIP-MAIL ~~Abstract~~SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory

Change PS3.11 Section M.3.1

M.3.1 SOP Classes and Transfer Syntaxes

The ~~these~~ Application Profiles ~~is~~are based on the Media Storage Service Class ~~with the Interchange Option~~ (see PS3.4).

Table M.3-1. STD-GEN-BD and STD-GEN-SEC-BD SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossless Non-Hierarchical, First-Order Prediction (Process 14 (s <u>Selection</u> v <u>Value</u> 1)) 1.2.840.10008.1.2.4.70	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Lossy , Baseline Sequential with Huffman Coding (Process 1) 1.2.840.10008.1.2.4.50	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG Extended (Process 2 & 4); Default Transfer Syntax for Lossy JPEG 12 Bit Image	Defined in Conformance Statement	Mandatory for ; JPEG profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
		Compression (Process 4 only) 1.2.840.10008.1.2.4.51			
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression (Lossless Only) 1.2.840.10008.1.2.4.90	Defined in Conformance Statement	Mandatory for J2K profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	JPEG 2000 Image Compression 1.2.840.10008.1.2.4.91	Defined in Conformance Statement	Mandatory for J2K profiles for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG2 Main Profile @ Main Level 1.2.840.10008.1.2.4.100	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG2 Main Profile @ High Level 1.2.840.10008.1.2.4.101	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG-4 AVC/H.264 High Profile / Level 4.1 1.2.840.10008.1.2.4.102	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG-4 AVC/H.264 BD-compatible High Profile / Level 4.1 1.2.840.10008.1.2.4.103	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntaxes supported by these Application Profiles are specified in the Table M.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement ~~using a table of the same form.~~

Change PS3.11 Section N.3.1

N.3.1 SOP Classes and Transfer Syntaxes

The ~~these~~ Application Profiles ~~is are~~ based on the Media Storage Service Class ~~with the Interchange Option~~ (see PS3.4).

**Table N.3-1. STD-GEN-BD-MPEG4-LV42 and STD-GEN-SEC-BD-MPEG4-LV42 SOP
Classes and Transfer Syntaxes**

Information Object Definition	SOP Class UID	Transfer Syntax <u>Name</u> and UID	FSC Requirement	FSR Requirement	FSU Requirement
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG-4 AVC/H.264 High Profile / Level 4.2 For 2D Video 1.2.840.10008.1.2.4.104	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG-4 AVC/H.264 High Profile / Level 4.2 For 3D Video 1.2.840.10008.1.2.4.105	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement
Multi-frame Composite IODs for which a Media Storage SOP Class is defined in PS3.4	See PS3.4	MPEG-4 AVC/H.264 Stereo High Profile / Level 4.2 1.2.840.10008.1.2.4.106	Defined in Conformance Statement	Mandatory for all SOP Classes defined in Conformance Statement	Defined in Conformance Statement

The SOP Classes and corresponding Transfer Syntaxes supported by these Application Profiles are specified in the Table N.3-1. The supported Storage SOP Class(es) shall be listed in the Conformance Statement **using a table of the same form.**