

Last modified: Wednesday 5 June 2013 at 19:08, Summary created by olaf on ole

Purpose: Verifies compliance with PDF/A-2a for the current document.

Author: Acrobat 11

Email address:

Checks:

PDF document is not compliant with PDF/A-2a

Check:

Alternate image present

Comment: The image has an alternate image associated with it.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Image

Property: Has alternate image

Operator: is true

Check:

Alternate image uses compression type that is not listed in ISO 32000

Comment: An alternate image uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIIStrDecode or ASCIIHexDecode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Alternate image type of compression filter

Operator: is not contained in list

"ASCIIStrDecode"

"AHx"

"ASCIIHexDecode"

"A85"

"FlateDecode"

"FI"

"RunLengthDecode"

"RL"

"DCTDecode"

"DCT"

"CCITTFaxDecode"

"CCF"

"JBIG2Decode"

"JPXDecode"

"LZWDecode"

"LZW"

"Crypt"

Check:

Annotation (other than Popup) has no Flags entry

Comment: Some PDF based ISO standards require that the Flag entry is present for any annotation except for Popup annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Annotation has Flags entry

Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

Text: "Popup PopUp"

Check:

Annotation (other than Popup) not set to print

Comment: Some PDF based ISO standards require that all annotations except Popup annotations are set to print.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Flag 3 is set (Print)

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Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

Text: "Popup PopUp"

Check:

Annotation Hidden flag set

Comment: Some PDF-based ISO standards prohibit the use of the Hidden flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Flag 2 is set (Hidden)

Operator: is true

Check:

Annotation Invisible flag set

Comment: Some PDF-based ISO standards prohibit the use of the Invisible flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Flag 1 is set (Invisible)

Operator: is true

Check:

Annotation NoView flag set

Comment: Some PDF-based ISO standards prohibit the use of the NoView flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Flag 6 is set (NoView)

Operator: is true

Check:

Annotation ToggleNoView flag set

Comment: Some PDF based ISO standards prohibit the use of the ToggleNoView flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Flag 9 is set (ToggleNoView)

Operator: is true

Check:

Annotation has multiple appearances

Comment: According to PDF/A all annotations are required to have only one appearance.

Analyze: Page contents Appearance of annotations Current file

Severity: Error

Condition

Group: Annotations

Property: N appearance is a stream

Operator: is not true

Check:

Annotation has no appearance defined

Comment: Some PDF based ISO standards require that every annotation (except Popup or Link annotations) has at least one appearance dictionary.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Annotation has an appearance dictionary

Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

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Text: "Popup Link PopUp"

Condition

Group: Annotations
Property: Size of Annotation rectangle is zero
Operator: is not true

Check:

Annotation's AP (appearance) contains only N entry is not true

Comment: If is an requirement of some PDF-based ISO standards, that if an annotation contains an AP (appearance) entry, it must contain only the N entry (normal appearance and no alternate appearances).

Analyze: Page contents Appearance of annotations Current file

Severity: Error

Condition

Group: Annotations
Property: AP (appearance) entry contains only N
Operator: is not true

Check:

Blend mode not conform to PDF Reference

Comment: Some PDF/X standards, e.g. PDF/X-4, require that only blend modes as defined in the PDF specification are used within a compliant file. These blend modes are: Normal, Multiply, Screen, Overlay, Darken, Lighten, ColorDodge, ColorBurn, HardLight, SoftLight, Difference, Exclusion, Hue, Saturation, Color, Luminosity.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: General Graphic state properties
Property: Blend mode
Operator: is not contained in list
"Normal"
"Compatible"
"Multiply"
"Screen"
"Overlay"
"Darken"
"Lighten"
"ColorDodge"
"ColorBurn"
"HardLight"
"SoftLight"
"Difference"
"Exclusion"
"Hue"
"Saturation"
"Color"
"Luminosity"

Check:

CID font does not use Identity-H or -V encoding and Ordering strings are not identical

Comment: The CIDSystemInfo information is present in the CIDFont dictionary and in the Encoding dictionary of a CID font. If the value for the Encoding key is not Identity-H or Identity-V the values for the Ordering key must be the same according to some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font
Property: Font type is CID (Type 1)
Operator: is true

Condition

Group: Font
Property: Uses Identity-H or Identity-V encoding
Operator: is not true

Condition

Group: Font
Property: Ordering entries in CIDSystemInfo are identical
Operator: is not true

Check:

CID font does not use Identity-H or -V encoding but Registry strings are not identical

Comment: The CIDSystemInfo information is present in the CIDFont dictionary and in the Encoding dictionary of a CID font. If the value for the Encoding key is not Identity-H or Identity-V the values for Registry key must be the same according to some PDF based ISO standards.

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Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Font type is CID (Type 1)

Operator: is true

Condition

Group: Font

Property: Uses Identity-H or Identity-V encoding

Operator: is not true

Condition

Group: Font

Property: Registry entries in CIDSystemInfo are identical

Operator: is not true

Check:

CID font does not use Identity-H or -V encoding but Supplement entries are incompatible

Comment: If the Encoding key in an embedded Type 0 font is not Identity-H or Identity-V the Supplement key in the CIDSystemInfo dictionary of the CIDFont must be greater or equal to the respective key in the CIDSystemInfo of the CMap. This is required by PDF/A-2 and other PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: CIDSystemInfo Supplement value is equal to or greater than Supplement value in CIDFont

Operator: is not true

Check:

CID font uses CMap that is not predefined and not embedded

Comment: If a CID font does not use any of the CMaps that are predefined in ISO 32000-1 the respective CMap must be embedded into the file. This is required by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: CMap is predefined in ISO 32000-1

Operator: is not true

Condition

Group: Font

Property: CMap for CIDFont is embedded

Operator: is not true

Check:

CIDset in subset font is incomplete (font contains glyphs that are not listed)

Comment: PDF/A requires that a subset CID font contains a complete CIDSet entry.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: Is subset

Operator: is true

Condition

Group: Font

Property: Font type is CID

Operator: is true

Condition

Group: Font

Property: CIDSet stream contains all CIDs present in embedded CIDFont

Operator: is not true

Condition

Group: Font

Property: CIDFont descriptor contains CIDSet stream

Operator: is true

Check:

CMYK used but PDF/A OutputIntent not CMYK

Comment: Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

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Condition

Group: Colors
Property: Is DeviceCMYK
Operator: is true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "CMYK"

Check:**CMYK used for alt. color but PDF/A OutputIntent not CMYK**

Comment: Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Colors
Property: Alternate base color space name
Operator: equal to
Text: "DeviceCMYK"

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "CMYK"

Check:**CMYK used in blending color space of transparent object but PDF/A OutputIntent not CMYK**

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: General Graphic state properties
Property: Blending color space
Operator: contains
Text: "CMYK"

Condition

Group: General Graphic state properties
Property: Blending color space is device independent
Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "CMYK"

Check:**CMap references other CMap that is not predefined**

Comment: A CMap in a CID font may reference another CMap which in turn, according to some PDF based ISO standards, must be predefined in ISO 32000-1.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font
Property: CMap references CMap which is not predefined in ISO 32000-1
Operator: is true

Check:**CharSet in subset font is incomplete (font contains glyphs that are not listed)**

Comment: Some PDF based ISO standards require that a subset Type 1 font contains a CharSet string with all character names of the glyphs present in the embedded font program.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font
Property: Font type is Type 1 or Multiple Master Type 1
Operator: is true

Condition

Group: Font

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Property: Is subset

Operator: is true

Condition

Group: Font

Property: Type 1 font descriptor contains CharSet string

Operator: is true

Condition

Group: Font

Property: CharSet string contains all character names present in embedded font

Operator: is not true

Check:

Character references .notdef glyph

Comment: The text contains characters that are mapped to the .notdef glyph. The .notdef glyph should not be directly referenced but is used as a placeholder for missing glyphs instead.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Text

Property: Character references .notdef glyph

Operator: is true

Check:

Contains action of type GoTo3DView

Comment: Determines whether the document contains actions of type GoTo3DView for setting the current view of a 3D annotation.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type GoTo3DView

Operator: is true

Check:

Contains action of type Hide

Comment: Some PDF based ISO standards prohibit the use of actions of type Hide.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Hide

Operator: is true

Check:

Contains action of type ImportData

Comment: Some PDF-based ISO standards prohibit actions of type ImportData.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type ImportData

Operator: is true

Check:

Contains action of type JavaScript

Comment: Some PDF-based ISO standards prohibit actions of type JavaScript.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type JavaScript

Operator: is true

Check:

Contains action of type Launch

Comment: PDF/A prohibits actions of type Launch.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Launch

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Operator: is true

Check:

Contains action of type Movie

Comment: PDF/A prohibits actions of type Movie.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Movie

Operator: is true

Check:

Contains action of type Rendition

Comment: Determines whether the document contains actions of type Rendition controlling the playing of multimedia content.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Rendition

Operator: is true

Check:

Contains action of type ResetForm

Comment: PDF/A prohibits actions of type ResetForm.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type ResetForm

Operator: is true

Check:

Contains action of type SetOCGState

Comment: Determines whether the document contains actions of type SetOCGState for setting the states of optional content groups.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type SetOCGState

Operator: is true

Check:

Contains action of type Sound

Comment: PDF/A prohibits actions of type Sound.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Sound

Operator: is true

Check:

Contains action of type Trans

Comment: Determines whether the document contains actions of type Trans defining how the display of a document is updated after a sequence of actions.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has action of type Trans

Operator: is true

Check:

Deprecated action type (set-state or no-op)

Comment: The action types set-state or no-op are deprecated in PDF specification 1.4. Their use is prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

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Property: Type of action
Operator: is contained in list
"SetState"
"set-state"
"NOP"
"no-op"

Check:

Destination profiles in OutputIntents differ

Comment: PDF/A requires that all OutputIntents that are present in a PDF/A file must reference the same destination profile.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output intents for PDF/A
Property: DestOutputProfile is the same in all OutputIntents
Operator: is not true

Check:

Device process color used but no PDF/A OutputIntent

Comment: PDF/A requires that as soon as DeviceGray, DeviceRGB or DeviceCMYK are used an OutputIntent with a destination profile must be present.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Colors
Property: Base color space name
Operator: is contained in
Text: "DeviceGray DeviceRGB DeviceCMYK"

Condition

Group: Output intents for PDF/A
Property: Has Output Intent
Operator: is not true

Check:

Device process color used in alt. color space but no PDF/A OutputIntent

Comment: PDF/A requires that as soon as DeviceGray, DeviceRGB or DeviceCMYK are used an OutputIntent with a destination profile must be present.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Colors
Property: Alternate base color space name
Operator: is contained in
Text: "DeviceGray DeviceRGB DeviceCMYK"

Condition

Group: Output intents for PDF/A
Property: Has Output Intent
Operator: is not true

Check:

DeviceGray used but PDF/A OutputIntent not CMYK, RGB or Gray

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: is not contained in list
"GRAY"
"RGB "
"CMYK"

Condition

Group: Colors
Property: Is DeviceGray
Operator: is true

Check:

DeviceGray used for alt. color but PDF/A OutputIntent not CMYK, RGB or Gray

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

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Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: is not contained in list

"GRAY"

"RGB "

"CMYK"

Condition

Group: Colors

Property: Alternate base color space name

Operator: equal to

Text: "DeviceGray"

Check:**DeviceGray used in blending color space but no compatible PDF/A OutputIntent**

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceGray is prohibited by PDF/A if no OutputIntent is present with an RGB, CMYK or DeviceGray destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Blending color space

Operator: contains

Text: "Gray"

Condition

Group: General Graphic state properties

Property: Blending color space is device independent

Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: is not contained in list

"GRAY"

"RGB "

"CMYK"

Check:**DeviceN color does not have colorant entry for all spot colors**

Comment: The colorants entry describes the individual colorants used in a DeviceN color space. In particular it defines the alternate color of each spot color colorant in a DeviceN color space. (The DeviceN color space itself describes only the appearance of its colorants in combination). Some PDF based ISO standards (e.g. PDF/X-4) require that the colorant entry is present for all spot colorants in a DeviceN color space.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Colors

Property: DeviceN color space has Colorant entries for all spot colors

Operator: is not true

Check:**Document XMP metadata is not valid**

Comment: At least one aspect of the document XMP metadata is syntactically incorrect.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Document XMP metadata is not valid

Operator: is true

Check:**Document contains JavaScripts**

Comment: JavaScripts are an advanced feature in Acrobat to add interactivity to PDF pages as well as to form fields. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Has JavaScripts

Operator: is true

Check:

Document contains additional actions (AA)

Comment: Actions in a PDF file are often used to add interactivity. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has additional actions

Operator: is true

Check:

Document has alternate presentations

Comment: The alternate presentations entry specifies alternate ways in which a document may be viewed (e.g. as a slideshow).

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Has alternate presentations

Operator: is true

Check:

Document is damaged and needs repair

Comment: The PDF document is damaged. While Acrobat always tries to repair the document when it is opened, there is no guarantee that the document can be processed reliably.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Is damaged

Operator: is true

Check:

Document is encrypted

Comment: Even if an encrypted file does not require a password, many applications (incl. Photoshop and InDesign) won't allow one to do anything with the file. In addition, PDF/X and other PDF-based ISO standards prohibit encryption.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Is encrypted

Operator: is true

Check:

Document uses Requirements key

Comment: A PDF may specify requirements for a conforming reader in order to display and process it properly. Some PDF based ISO standards prohibit the use of this entry because no such specific requirements should exist in a standard PDF file.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Requirements key is present

Operator: is true

Check:

Document uses compression type that is not listed in ISO 32000-1

Comment: The document uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIISHexDecode or ASCII85Decode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Type of compression in stream

Operator: is not contained in list

"ASCIISHexDecode"

"AHx"

"ASCII85Decode"

"A85"

"FlateDecode"

"FI"

"RunLengthDecode"

"RL"

"DCTDecode"
"DCT"
"CCITTFaxDecode"
"CCF"
"JBIG2Decode"
"JPXDecode"
"LZWDecode"
"LZW"
"Crypt"

Check:**Embedded file present but no F key**

Comment: A PDF file can refer to the contents of another file by using a file specification. The F key specifies the location of the file by means of a platform independent path or an URL. Some PDF based ISO standards require the presence of the F key if a file specification is present.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document
Property: PDF contains EF (embedded file) entry
Operator: is true

Condition

Group: Document
Property: File specification dictionary for embedded file has no F key
Operator: is true

Check:**Embedded file present but no UF key**

Comment: A PDF file can refer to the contents of another file by using a file specification. The UF key specifies the location of the file by means of a Unicode text string. Some PDF based ISO standards require the presence of the UF key if a file specification is present.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document
Property: PDF contains EF (embedded file) entry
Operator: is true

Condition

Group: Document
Property: File specification dictionary for embedded file has no UF key
Operator: is true

Check:**Embedded file present that is not a PDF file**

Comment: A file is embedded which is not a PDF file. The PDF/A-2 standard permits embedded files but requires that all embedded files comply with PDF/A-1 or PDF/A-2.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document
Property: Embedded file is a PDF file
Operator: is not true

Check:**Encoding entry prohibited for symbolic TrueType font**

Comment: Some PDF-based ISO standards prohibit that symbolic TrueType fonts use the Encoding entry.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font
Property: Symbolic TrueType font has Encoding dictionary
Operator: is true

Check:**Encrypt key present in file trailer**

Comment: The use of the Encrypt key in the file trailer (and thus the use of encryption) is prohibited for PDF/A files.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document
Property: File trailer has Encrypt entry
Operator: is true

Check:

Extension schema present but not valid

Comment: The XMP extension schema in this document is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Extension schema in XMP is valid

Operator: is not true

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is true

Check:

Extension schema present in page but not valid

Comment: An XMP extension schema present in a page's XMP metadata stream is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Extension Schema in XMP is valid

Operator: is not true

Check:

Extension schema present in page object but not valid

Comment: An XMP extension schema present in a page object's XMP metadata stream is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata

Property: Extension Schema in XMP is valid

Operator: is not true

Check:

File header not compliant with PDF/A

Comment: PDF/A requires that a PDF file properly starts with the PDF header. It must not have any data before the PDF header, and in the second line of the header, at least four characters shall follow after the comment character '%' that have a value above 127.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: PDF file header is compliant with PDF/A

Operator: is not true

Check:

Font is not valid

Comment: At least one embedded font is syntactically incorrect.

Analyze: Page contents Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Font is not valid

Operator: is true

Check:

Font license flag prohibits embedding

Comment: TrueType fonts may have a flag indicating whether they may be embedded or not. The PDF file uses a font that may not be embedded.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Embedding flag "Restricted License embedding" is set in embedded TrueType font

Operator: is true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Condition

Group: Font

Property: Embedding flag "Bitmap embedding only" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Editable embedding" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Installable embedding" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Preview & Print embedding" is set in embedded TrueType font

Operator: is not true

Check:

Font name is not a valid UTF-8 string

Comment: Some PDF-based ISO standards require that all font names are internally encoded according to the UTF-8 standard. (This is a recommendation in the PDF specification which is made normative by the ISO standard.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Font name is UTF-8 encoded

Operator: is not true

Check:

Font not embedded (and text rendering mode not 3)

Comment: In order to make sure that all characters in a PDF are accurately displayed all required fonts should be embedded into a PDF file. Some PDF-based ISO standards require that all fonts used for text are embedded unless that text uses text rendering mode 3 (invisible text).

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: Is embedded

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:

Form XObject contains Ref key (referenced PDF)

Comment: Content from an external PDF file is being referenced (by use of the Ref key in a Form XObject). This entry is prohibited in PDF-based ISO standards which do not explicitly permit referenced content.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Form XObject contains Ref (referenced PDF) entry

Operator: is true

Check:

Form field has AA (additional actions) entry

Comment: Form fields may have an additional actions dictionary. Some PDF based ISO standards prohibit actions or additional actions.

Analyze: Page contents Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Form field has AA (additional action) entry

Operator: is true

Check:

Form field has actions

Comment: Form fields may have actions. Some PDF based ISO standards prohibit actions.

Analyze: Page contents Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Has actions

Operator: is true

Check:

Form field has multiple appearances (but is not a Button)

Comment: Some PDF based ISO standards require that form fields only have one appearance except when the form field is of type Button.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Type of form field

Operator: unequal to

Text: "Btn"

Condition

Group: Form fields

Property: N appearance is a dictionary

Operator: is true

Check:

Form field has no appearance defined

Comment: Some PDF based ISO standards require that every form field must have at least one appearance dictionary.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Form field has an appearance dictionary

Operator: is not true

Condition

Group: Form fields

Property: Size of Form field rectangle is zero

Operator: is not true

Check:

Form field of type button does not have multiple appearances

Comment: A Button form field should have more than one appearance.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Type of form field

Operator: equal to

Text: "Btn"

Condition

Group: Form fields

Property: N appearance is a dictionary

Operator: is not true

Check:

Form field's AP (appearance) contains only N entry is not true

Comment: If a form field contains an AP (appearance) entry, it must define only one "normal" appearance. Alternate appearances such as for mouse over effects are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: AP (appearance) contains only N entry

Operator: is not true

Check:

Glyphs missing in embedded font

Comment: All fonts embedded into a PDF have to contain glyphs for all characters used in the PDF. This is required by some PDF-based ISO standards such as PDF/X.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: Embedded font contains all glyphs needed in PDF

Operator: is not true

Condition

Group: Text

Property: Text is not rendered and not used as clipping path

Operator: is not true

Check:

Halftone not of type 1 or 5

Comment: Halftone entries other than type 1 or 5 are prohibited by some PDF based ISO standards. This prohibits the use of threshold screens that would produce different appearances at different resolutions.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Halftone

Property: Halftone type

Operator: is not contained in

Text: "1 5"

Check:

Halftone phase entry used

Comment: The halftone phase (HTP) entry is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Halftone

Property: Has halftone phase (HTP) information

Operator: is true

Check:

HalftoneName key present

Comment: The Halftone name key is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Halftone

Property: Halftone has name

Operator: is true

Check:

ICC profile in OutputIntent is older than version 2

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: less than

Number: "2.0.0"

Tolerance: "0"

Check:

ICC profile in OutputIntent uses incorrect color space

Comment: Some PDF based ISO standards require that the ICC profile in the output intent shall have a color space of either "GRAY", "RGB ", or "CMYK".

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: is not contained in list

"GRAY"

"RGB "

"CMYK"

Check:

ICC profile in OutputIntent uses incorrect type

Comment: Some PDF-based ISO standards such as PDF/A-1 or PDF/E-1 require that the type of the ICC profile in the output intent must be either 'mnr' (monitor) or 'prtr' (printer).

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Type of profile

Operator: is not contained in list

"mnr"

"prtr"

Check:

ICC profile in PDF/A OutputIntent is version 3

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: less than

Number: "4.0.0"

Tolerance: "0"

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: greater than or equal to

Number: "3.0.0"

Tolerance: "0"

Check:

ICC profile in PDF/A OutputIntent is version 5 or newer

Comment: Beginning with PDF 1.5 (Acrobat 6) version 4 ICC profiles are supported for ICC based color spaces. Some PDF based ISO standards prohibit the use of ICC profile versions newer than 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: greater than or equal to

Number: "5.0.0"

Tolerance: "0"

Check:

ICC profile is not valid

Comment: At least one ICC profile is syntactically incorrect.

Analyze: Page contents Soft masks Current file

Severity: Error

Condition

Group: ICC color spaces

Property: ICC profile is not valid

Operator: is true

Check:

ICC profile is not valid

Comment: At least one ICC profile is syntactically incorrect.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: ICC profile is not valid

Operator: is true

Check:

ICC profile is older than version 2

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: ICC color spaces

Property: Format version

Operator: less than

Number: "2.0.0"

Tolerance: "0"

Check:

ICC profile is version 3

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: ICC color spaces

Property: Format version

Operator: less than

Number: "4.0.0"

Tolerance: "0"

Condition

Group: ICC color spaces

Property: Format version

Operator: greater than or equal to

Number: "3.0.0"

Tolerance: "0"

Check:

ICC profile is version 5 or newer

Comment: Beginning with PDF 1.5 (Acrobat 6) version 4 ICC profiles are supported for ICC based color spaces. Some PDF based ISO standards prohibit the use of ICC profile versions newer than 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: ICC color spaces

Property: Format version

Operator: greater than or equal to

Number: "5.0.0"

Tolerance: "0"

Check:

ICC profile missing in PDF/A OutputIntent

Comment: PDF/A requires that the PDF/A OutputIntent if present contains a destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Has ICC output profile

Operator: is not true

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is true

Check:

ID in file trailer missing or incomplete

Comment: The ID entry in the file trailer must be present and must contain two hex strings.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: File trailer has ID array with two hex strings

Operator: is not true

Check:

Image has OPI information

Comment: OPI information is used in order to replace embedded images with external images. The use of OPI information is prohibited in PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Image

Property: Has OPI information

Operator: is true

Check:

Image is not valid

Comment: The data stream for at least one image is syntactically incorrect.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Image is not valid

Operator: is true

Check:

Image uses compression type that is not listed in ISO 32000

Comment: An image uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIIFilterDecode or ASCII85Decode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: is not contained in list

"ASCIIFilterDecode"

"AHx"

"ASCII85Decode"

"A85"

"FlateDecode"

"FI"

"RunLengthDecode"

"RL"

"DCTDecode"

"DCT"

"CCITTFaxDecode"

"CCF"

"JBIG2Decode"

"JPXDecode"

"LZWDecode"

"LZW"

"Crypt"

Check:

Implementation limit: CID (character identifier) greater than 65535

Comment: PDF-based ISO standards require that the CID numbers are below 65535.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Largest CID (character identifier) used

Operator: greater than

Number: "65535"

Tolerance: ""

Check:

Implementation limit: Height of ArtBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: ArtBox height (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has ArtBox

Operator: is true

Check:

Implementation limit: Height of ArtBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: ArtBox height (default user space)
Operator: greater than
Number: "14400"
Tolerance: ""

Condition

Group: Pages
Property: Has ArtBox
Operator: is true

Check:

Implementation limit: Height of CropBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: CropBox height (default user space)
Operator: less than
Number: "3"
Tolerance: ""

Condition

Group: Pages
Property: Has CropBox
Operator: is true

Check:

Implementation limit: Height of CropBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: CropBox height (default user space)
Operator: greater than
Number: "14400"
Tolerance: ""

Condition

Group: Pages
Property: Has CropBox
Operator: is true

Check:

Implementation limit: Height of MediaBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: MediaBox height (default user space)
Operator: less than
Number: "3"
Tolerance: ""

Check:

Implementation limit: Height of MediaBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: MediaBox height (default user space)
Operator: greater than
Number: "14400"
Tolerance: ""

Check:

Implementation limit: Height of TrimBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: TrimBox height (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Height of TrimBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: TrimBox height (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Integer value out of range (too high)

Comment: PDF-based ISO standards require that integer values in a PDF do not exceed the range of integer values on 32 bit systems.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Largest positive integer used

Operator: greater than

Number: "2147483647"

Tolerance: ""

Check:

Implementation limit: Integer value out of range (too low)

Comment: PDF-based ISO standards require that integer values in a PDF do not exceed the range of integer values on 32 bit systems.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Largest negative integer used

Operator: less than

Number: "-2147483648"

Tolerance: ""

Check:

Implementation limit: Max. number of nested graphic states (q/Q operators) exceeded

Comment: PDF-based ISO standards require that the number of nested q/Q operators must not exceed 28.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Page description

Property: Nesting level of q/Q operator

Operator: greater than

Number: "28"

Tolerance: ""

Condition

Group: Pages

Property: Has CropBox

Operator: is true

Check:

Implementation limit: Width of CropBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: CropBox width (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages

Property: Has CropBox

Operator: is true

Check:

Implementation limit: Width of MediaBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: MediaBox width (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Check:

Implementation limit: Width of MediaBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: MediaBox width (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Check:

Implementation limit: Width of TrimBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: TrimBox width (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Width of TrimBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages
Property: TrimBox width (default user space)
Operator: greater than
Number: "14400"
Tolerance: ""

Condition

Group: Pages
Property: Has TrimBox
Operator: is true

Check:

Inconsistent WMode entries

Comment: PDF-based ISO standards require that the WMode entry in a CMap dictionary is identical to the WMode entry in the CMap stream.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font
Property: WMode in CMap dictionary is identical to WMode in CMap stream
Operator: is not true

Check:

Incorrect PDF/A conformance level (must be "A")

Comment: Incorrect PDF/A conformance level (must be "A") for conformance level a.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: PDF/A ID: Conformance
Operator: unequal to
Text: "A"

Check:

Incorrect PDF/A version number (must be 2)

Comment: Incorrect PDF/A version number - must be 2 for PDF/A-2.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: PDF/A ID: Part
Operator: unequal to
Text: "2"

Check:

Incorrect annotation type used: 3D

Comment: In PDF/A files annotations of type 3D may not be used because such content is not within the scope of this standard.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations
Property: Annotation is of type
Operator: is contained in list
"3D"

Check:

Incorrect annotation type used: Multimedia annotation

Comment: In PDF/A files annotations of type 3D, Sound, Screen or Movie may not be used.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations
Property: Annotation is of type
Operator: is contained in list
"Sound"
"Movie"
"Screen"

Check:

Incorrect annotation type used: Not defined in PDF (ISO 32000-1)

Comment: An annotation type is used which is not defined in PDF 1.7 (ISO 32000-1)

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in list

"Text"

"Link"

"FreeText"

"Line"

"Square"

"Circle"

"Polygon"

"PolyLine"

"Highlight"

"Underline"

"Squiggly"

"StrikeOut"

"Stamp"

"Caret"

"Ink"

"Popup"

"FileAttachment"

"Sound"

"Movie"

"Widget"

"Screen"

"PrinterMark"

"TrapNet"

"Watermark"

"3D"

"Redact"

Check:

Indirect object "endobj" keyword not followed by an EOL marker

Comment: In an indirect object the keyword "endobj" is not accurately followed by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Indirect object "endobj" keyword not followed by an EOL marker

Operator: is true

Check:

Inline image uses Crypt filter

Comment: An inline image uses the Crypt filter. This is not permitted in some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: contains

Text: "Crypt"

Condition

Group: Image

Property: Is inline image

Operator: is true

Check:

Interactive forms make use of the XFA

Comment: Interactive forms may be defined using XFA (Adobe XML Forms Architecture). This is prohibited in some PDF based ISO standards.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: AcroForm dictionary contains XFA entry

Operator: is true

Check:

Interpolate key for image not false

Comment: Some PDF-based ISO standards require that the Interpolate key for an image - if present - is set to false.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Image

Property: Value of Interpolate entry

Operator: is true

Check:

Invalid rendering intent

Comment: PDF-based ISO standards only allow the following rendering intents: RelativeColorimetric, AbsoluteColorimetric, Perceptual, Saturation.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Rendering intent

Operator: is not contained in

Text: "RelativeColorimetric AbsoluteColorimetric Perceptual Saturation"

Check:

Invalid rendering intent

Comment: PDF-based ISO standards only allow the following rendering intents: RelativeColorimetric, AbsoluteColorimetric, Perceptual, Saturation.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Image

Property: Rendering intent

Operator: is not contained in

Text: "RelativeColorimetric AbsoluteColorimetric Perceptual Saturation"

Check:

JPEG2000 Image uses bit-depth value below 1

Comment: JPEG2000 images should use bit depths between 1 and 38 only.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: Bits per color component

Operator: less than

Number: "1"

Tolerance: ""

Check:

JPEG2000 Image uses bit-depth value greater than 38

Comment: JPEG2000 images should use bit depths between 1 and 38 only.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: Bits per color component

Operator: greater than

Number: "38"

Tolerance: ""

Check:

JPEG2000 compressed image has ambiguous entries for color space with best fidelity

Comment: JPEG2000 images may have more than one color space specification. A color space with the best color fidelity is identified by the 0x01 entry in the APPROX field. This check determines whether there is more than one color space with this entry. Having more than one color space identified by this value is prohibited in some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Number of color spaces in JPEG2000 compressed image

Operator: unequal to

Number: "1"

Tolerance: ""

Condition

Group: Image

Property: Number of '0x01' APPROX entries in JPEG2000 image data

Operator: greater than

Number: "1"

Tolerance: ""

Check:

JPEG2000 image does not have 1, 3 or 4 channels

Comment: JPEG2000 images may use color spaces with an arbitrary number of channels. Some PDF-based ISO standards require that JPEG2000 images use either 1, 3 or 4 channels.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: Number of color channels for JPEG2000 compressed image

Operator: unequal to

Number: "3"

Tolerance: ""

Condition

Group: Image

Property: Number of color channels for JPEG2000 compressed image

Operator: unequal to

Number: "4"

Tolerance: ""

Condition

Group: Image

Property: Number of color channels for JPEG2000 compressed image

Operator: unequal to

Number: "1"

Tolerance: ""

Check:

JPEG2000 image uses CIEJab compression

Comment: Some PDF based ISO standards prohibit the use of the CIEJab compression filter in JPEG2000 images.

Analyze: Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: JPEG2000 compressed image uses CIEJab color space

Operator: is true

Check:

JPEG2000 image uses inconsistent bit-depth in its channels

Comment: In a JPEG2000 image it is possible to use a different bit-depth in each of the color channels. Some PDF based ISO standards require that the bit depth is the same in all color channels.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: All color channels in JPEG2000 compressed image have same bit-depth

Operator: is not true

Check:

JPEG2000 image uses incorrect value for the METH entry

Comment: The METH entry in a 'colr' box of a JPEG2000 image specifies the method to define the color space of the decompressed image. Some PDF based ISO standards require that the value is either 1, 2 or 3.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Image

Property: Value of the METH entry in 'colr' box of a JPEG2000 compressed image

Operator: is not contained in list

"1"

"2"

"3"

Check:

LZW compression used

Comment: Due to patent and licensing issues LZW compression is prohibited in all PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Stream uses LZW compression

Operator: is true

Check:

MarkInfo missing

Comment: This document is not tagged. Try saving in conformance level "b" or "u" instead.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Document has MarkInfo dictionary

Operator: is not true

Check:

Marked entry in MarkInfo missing

Comment: PDF/A conformance level "a" requires that the MarkInfo entry in the document's Catalog dictionary contains a Marked entry.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Document has Marked entry in MarkInfo dictionary

Operator: is not true

Check:

Marked entry in MarkInfo not boolean

Comment: PDF/A conformance level "a" requires that the MarkInfo entry in the document's Catalog dictionary contains a Marked entry with a value of type boolean.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Value for Marked entry in MarkInfo dictionary is of type boolean

Operator: is not true

Check:

Marked entry in MarkInfo not set to true

Comment: PDF/A conformance level "a" requires that the MarkInfo entry in the document's Catalog dictionary contains a Marked entry with a value of true.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Value for Marked entry in MarkInfo dictionary

Operator: is not true

Check:

Metadata does not conform to XMP

Comment: Some PDF-based ISO standards require that the Metadata form to the XMP specification.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: XMP Metadata entry conforms to XMP 1.5

Operator: is not true

Check:

Metadata missing (XMP)

Comment: PDF may contain metadata information in the document properties as well as in the XMP metadata stream. Some PDF-based ISO standards require the presence of XMP metadata.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Has XMP Metadata

Operator: is not true

Check:

Metadata not embedded as plain text

Comment: Some PDF-based ISO standards require that the Metadata dictionary does not contain the Filter key, which in essence means that it must be embedded as plain text.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: XMP Metadata is plain text

Operator: is not true

Check:

More than one encoding in symbolic TrueType font's cmap and no Microsoft Symbol encoding

Comment: Some PDF based ISO standards require that symbolic TrueType fonts contain exactly one encoding in their cmap tables or that at least the Microsoft Symbol (3,0) encoding is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Font type is TrueType

Operator: is true

Condition

Group: Font

Property: Number of encodings in cmap entry of embedded TrueType font

Operator: unequal to

Number: "1"

Tolerance: "0"

Condition

Group: Font

Property: Is symbolic font

Operator: is true

Condition

Group: Font

Property: Embedded font contains character encoding for Microsoft Symbol (3.0)

Operator: is not true

Check:

Name object is not a valid UTF-8 string

Comment: Some PDF based ISO standards require that all name objects are UTF-8 encoded.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Name object is UTF-8 encoded

Operator: is not true

Check:

Named action with a value other than standard page navigation used

Comment: PDF/A requires that a PDF uses no actions except the named actions NextPage, PrevPage, FirstPage and LastPage.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: Has named action with value other than page navigation

Operator: is true

Check:

NeedAppearances flag present but not set to false

Comment: PDF/A and PDF/E require that an interactive form field either does not have a NeedAppearances flag or that it is set to false.

Analyze: Page contents Appearance of form fields Current file

Severity: Error

Condition

Group: Form fields

Property: Form field has a NeedAppearances flag

Operator: is true

Condition

Group: Form fields

Property: Form field has a NeedAppearances flag with a value of true

Operator: is true

Check:

NeedsRendering entry present

Comment: The NeedsRendering flag in the Catalog dictionary indicates whether the document shall be regenerated when first opened. It is used in conjunction with XFA forms. Some PDF based ISO standards prohibit the use of this flag.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Document has NeedsRendering entry

Operator: is true

Condition

Group: Document

Property: Value of NeedsRendering entry is true

Operator: is true

Check:

No transparency group entry for transparent object and no PDF/A OutputIntent present

Comment: Some PDF based ISO standards require that for all page objects which use transparency a transparency group must be in effect if no PDF/A OutputIntent is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Condition

Group: Pages

Property: Page is a transparency group

Operator: is not true

Condition

Group: General Graphic state properties

Property: Has transparency

Operator: is true

Check:

Number of PDF/A OutputIntent entries > 1

Comment: The PDF/A ISO standard requires that within a PDF file there is only one OutputIntent.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Number of PDF/A-1 OutputIntent entries

Operator: greater than

Number: "1"

Tolerance: ""

Check:

OCCD contains Order key that does not reference all layers

Comment: Some PDF based ISO standards require that the Order entry in an OCCD (optional content configuration dictionary) contains references to all OCGs (optional content groups) present in the file.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Layers

Property: Optional content configuration dictionary has Order entry

Operator: is true

Condition

Group: Layers

Property: Order entry in OCCD references all OCGs

Operator: is not true

Check:

Object XMP metadata is not valid

Comment: The XMP metadata associated with one or more objects in the PDF is syntactically incorrect.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Object Metadata

Property: Object XMP metadata is not valid

Operator: is true

Check:

Object uses resources that are inherited from the page

Comment: The Resources dictionary contains all resources that are required by any content streams, Form XObjects, patterns or Type 3 fonts. If the Resources dictionary is missing the resources may be inherited from the Resources dictionary of the page on which they are used. Some PDF based ISO standards require that the Resources dictionary is present and that resources are not inherited from the Resources dictionary on the page level.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Page description

Property: Resources dictionary is inherited

Operator: is true

Check:

Optional content configuration dictionary has AS entry

Comment: An AS entry in an optional content configuration dictionary (OCCD) specifies the display of layers based on external factors like current system language or viewing magnification. Some PDF-based ISO standards prohibit the use of this entry.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Layers

Property: Optional content configuration has AS entry

Operator: is true

Check:

Optional content configuration dictionary has no Name entry

Comment: The name entry of an optional content configuration dictionary (OCCD) is used to identify the respective view state. Some PDF-based ISO standards (namely PDF/X-4) require that each OCCD has a name entry which is unique throughout the PDF.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Layers

Property: Optional content configuration dictionary has Name entry

Operator: is not true

Check:

Optional content configuration dictionary name is not unique

Comment: The name entry of an optional content configuration dictionary (OCCD) is used to identify the respective view state. Some PDF-based ISO standards (namely PDF/X-4) require that each OCCD has a name entry which is unique throughout the PDF.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Layers

Property: Optional content configuration dictionary name is unique

Operator: is not true

Check:

OutputIntent uses a referenced destination profile

Comment: The PDF files has an OutputIntent and does reference an ICC profile not embedded into the PDF file. This is not allowed in some PDF-based ISO standards.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Output Intents for PDF/X

Property: OutputIntent has DestOutputProfileRef entry

Operator: is true

Check:

Overprint mode (OPM) used for ICCbased CMYK object

Comment: Overprint mode (OPM) is on (1) for an overprinting object using ICCbased CMYK color space. This may lead to unpredictable rendering and is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Is Illustrator overprint mode

Operator: is true

Condition

Group: Colors

Property: Uses ICCbased CMYK

Operator: is true

Condition

Group: Graphic state properties for fill

Property: Is overprint enabled for fill

Operator: is true

Check:

Overprint mode (OPM) used for ICCbased CMYK object (stroked)

Comment: Overprint mode (OPM) is on (1) for an overprinting stroked object using ICCbased CMYK color space. This may lead to unpredictable rendering and is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Is Illustrator overprint mode

Operator: is true

Condition

Group: Colors

Property: Uses ICCbased CMYK

Operator: is true

Condition

Group: Graphic state properties for stroke

Property: Is overprint enabled for stroke

Operator: is true

Check:

PDF version number in file header below 1.0

Comment: Some PDF based ISO standards require that the version number in the PDF header is between 1.0 and 1.7

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: PDF format version

Operator: less than

Number: "1.0"

Tolerance: ""

Check:

PDF version number in file header greater than 1.7

Comment: Some PDF based ISO standards require that the version number in the PDF header is between 1.0 and 1.7

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: PDF format version

Operator: greater than

Number: "1.7"

Tolerance: ""

Check:

PDF/A entry missing

Comment: The document's XMP Metadata does not contain a PDF/A entry, or the PDF/A entry is not stored under the correct namespace URI which must be "http://www.aiim.org/pdfa/ns/id/" (including the trailing slash).

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: Has PDF/A entry

Operator: is not true

Check:

Page contains additional actions (AA)

Comment: Actions in a PDF file are often used to add interactivity. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Pages

Property: Has additional actions

Operator: is true

Check:

Page does not have Resources dictionary

Comment: The Resources dictionary contains all resources that are required by a page. Some PDF based ISO standards require that the Resources dictionary is present on every page.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Resources dictionary is missing

Operator: is true

Check:

Page has PresSteps defined

Comment: PresSteps allow for navigating not only between pages but also between different states of the same page. This entry is intended for interactive viewers and is not permitted in some PDF based ISO standards.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Page has PresSteps entry

Operator: is true

Check:

Permissions dictionary has key other than DocMDP and UR3

Comment: Some PDF based ISO standards prohibit the use of keys other than DocMDP or UR3 in a document's permissions dictionary.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Signatures

Property: Permissions dictionary has key other than DocMDP and UR3

Operator: is true

Check:

PostScript embedded (PostScript FormXObject)

Comment: Page description contains embedded PostScript (PostScript Form XObject)

Analyze: Page contents Current file

Severity: Error

Condition

Group: Embedded PostScript

Property: Uses PostScript Form XObject

Operator: is true

Check:

PostScript embedded (XObject)

Comment: Embedded PostScript is not allowed in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Embedded PostScript
Property: Uses PostScriptXObject
Operator: is true

Check:

PostScript operator embedded

Comment: Embedded PostScript is not allowed PDF in some based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Embedded PostScript
Property: Uses PostScript operator
Operator: is true

Check:

RGB used but PDF/A OutputIntent not RGB

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Colors
Property: Is DeviceRGB
Operator: is true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "RGB"

Check:

RGB used for alt. color but PDF/A OutputIntent not RGB

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Colors
Property: Alternate base color space name
Operator: equal to
Text: "DeviceRGB"

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "RGB"

Check:

RGB used in blending color space of transparent object but PDF/A OutputIntent not RGB

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: General Graphic state properties
Property: Blending color space
Operator: contains
Text: "RGB"

Condition

Group: General Graphic state properties
Property: Blending color space is device independent
Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: does not contain
Text: "RGB"

Check:

Signature dictionary has no SubFilter entry

Comment: Signature dictionary has no SubFilter entry

Analyze: Page contents Current file

Severity: Error

Condition

Group: Signatures
Property: Signature dictionary has SubFilter entry
Operator: is not true

Check:

Signature reference dictionary has DigestLocation entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestLocation entry in conjunction with DocMDP.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Signatures
Property: Permissions dictionary has DocMDP entry
Operator: is true

Condition

Group: Signatures
Property: Signature reference dictionary has DigestLocation entry
Operator: is true

Check:

Signature reference dictionary has DigestMethod entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestMethod entry in conjunction with DocMDP.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Signatures
Property: Permissions dictionary has DocMDP entry
Operator: is true

Condition

Group: Signatures
Property: Signature reference dictionary has DigestMethod entry
Operator: is true

Check:

Signature reference dictionary has DigestValue entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestValue entry in conjunction with DocMDP.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Signatures
Property: Permissions dictionary has DocMDP entry
Operator: is true

Condition

Group: Signatures
Property: Signature reference dictionary has DigestValue entry
Operator: is true

Check:

Spot color name is not a valid UTF-8 string

Comment: Some PDF-based ISO standards require that all spot color names are internally encoded according to the UTF-8 standard. (This is a recommendation in the PDF specification which is made normative by the ISO standard.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Colors
Property: Spot color name is UTF-8 encoded
Operator: is not true

Check:

Spot color representations are inconsistent

Comment: A spot color uses different representations throughout the PDF. This may lead to unpredictable results if the spot color is converted to CMYK (or RGB). Some PDF-based ISO standards require that the representations are consistent.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document
Property: Spot color representations are inconsistent
Operator: is true

Check:**Stream object contains F entry**

Comment: The F key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: A stream object contains F entry

Operator: is true

Check:**Stream object contains FDecodeParams entry**

Comment: The FDecodeParams key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: A stream object contains FDecodeParams entry

Operator: is true

Check:**Stream object contains FFilter entry**

Comment: The FFilter key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Document

Property: A stream object contains FFilter entry

Operator: is true

Check:**Stream object uses Crypt filter with a name other than "Identity"**

Comment: Some PDF based ISO standards only allow "Identity" as the name in a Crypt filter.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Name key in decode parameters dictionary of Crypt filter

Operator: unequal to

Text: "Identity"

Check:**Structure type name is not a valid UTF-8 string**

Comment: Some PDF based ISO standards require that all structure type names are UTF-8 encoded.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Structured PDF

Property: Structure type name is UTF-8 encoded

Operator: is not true

Check:**Structured PDF: Element does not use standard type in ISO 32000-1**

Comment: Some PDF based ISO standards require the use of standard tags in structured PDF.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Structured PDF

Property: Element does not use standard type (ISO 32000-1)

Operator: is true

Check:**Structured PDF: Invalid language identifier**

Comment: The PDF specification as well as PDF-based ISO standards require that a Lang (language) entry is compliant with applicable specifications such as RFC 1766, ISO 639, ISO 3166. Typically the language will then be specified using a 2-character code such as 'en' for English.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Structured PDF
Property: Lang (language) entry is valid
Operator: is not true

Check:**Structured PDF: Standard tag mapped to non-standard tag in role map**

Comment: Standard tags as defined in ISO 32000-1 should not be mapped to other tags.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Structured PDF
Property: Standard tag mapped to non-standard tag in role map
Operator: is true

Check:**Structured PDF: Structure tree root entry missing**

Comment: In structured PDF the document's structure is described by a hierarchy of objects. At the root of the hierarchy is the structure tree root, located via the StructTreeRoot entry in the document catalog.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Structured PDF
Property: Structure tree root entry missing
Operator: is true

Check:**Syntax problem: Cross reference subsection not properly separated**

Comment: The cross-reference section does not properly begin with the keyword "xref" followed by a single EOL marker followed by one or more cross-reference subsections. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document
Property: Cross reference subsection not separated by a single EOL marker
Operator: is true

Check:**Syntax problem: Indirect object has object number not preceded by an EOL marker**

Comment: In an indirect object the object number is not accurately preceded by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document
Property: Indirect object has object number not preceded by an EOL marker
Operator: is true

Check:**Syntax problem: Indirect object uses improper separation (object and generation number)**

Comment: An indirect object uses improper separation between object number and generation number. These numbers must be separated by a single white-space character. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document
Property: Indirect object uses improper separation between object number and generation number
Operator: is true

Check:**Syntax problem: Indirect object uses improper separation ("obj" keyword and generation number)**

Comment: An indirect object uses improper separation between the keyword "obj" and the generation number, which must be separated by a single white-space character. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document
Property: Indirect object uses improper separation between obj keyword and generation number
Operator: is true

Check:**Syntax problem: Indirect object "endobj" keyword not preceded by an EOL marker**

Comment: In an indirect object the keyword "endobj" is not accurately preceded by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Indirect object "endobj" keyword not preceded by an EOL marker

Operator: is true

Check:

Syntax problem: Indirect object "obj" keyword not followed by an EOL marker

Comment: In an indirect object the keyword "obj" is not accurately followed by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Indirect object "obj" keyword not followed by an EOL marker

Operator: is true

Check:

Syntax problem: PDF contains data after end of file marker

Comment: PDF/A requires that a PDF file does not contain any data after the last end of file marker.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document

Property: PDF file contains data after the end-of-file marker

Operator: is true

Check:

Syntax problem: Stream dictionary has improper length entry

Comment: PDF-based ISO standards require that the length of a stream object is always exactly defined. This requirement removes potential ambiguity regarding the ending of stream content.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Stream dictionary has invalid length entry

Operator: is true

Check:

Syntax problem: Stream dictionary improperly formatted

Comment: A stream object is not properly formatted. A stream object must contain the keyword "stream" followed by an optional carriage return (0Dh) followed by a single line feed (0Ah). It must also contain the keyword "endstream" preceded by an EOL marker. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Stream dictionary improperly formatted

Operator: is true

Check:

Syntax problem: String object invalid (odd number of hexadecimal characters)

Comment: A hexadecimal string requires two digits for each byte of the string and an odd number of (non-white-space) characters indicates that one digit is missing. This is not prohibited in a PDF file (missing characters may be replaced with "0"). However, in order to ensure predictable results it is prohibited by PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Hexadecimal string has even number of non-white-space characters

Operator: is not true

Check:

Syntax problem: String object invalid (prohibited characters in a hexadecimal string)

Comment: A hexadecimal string uses characters not in the permitted range 0 to 9, A to F or a to f. This is prohibited in PDF files.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Document

Property: Hexadecimal string contains invalid character

Operator: is true

Check:**Syntax problem: Unknown operator in page description**

Comment: This condition filters for operators that are not defined in the PDF specification and almost always will cause errors.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Page description

Property: Unknown operator in PDF 1.3 through PDF 1.6

Operator: is true

Check:**TR2 entry used with value other than Default**

Comment: Some PDF-based ISO standards prohibit the use of the transfer curve entry TR2 with any value other than Default.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Has TR2 entry

Operator: is true

Condition

Group: General Graphic state properties

Property: Has TR2 entry with a value of Default

Operator: is not true

Check:**Text cannot be mapped to Unicode**

Comment: PDF/A conformance level "a" and "u" require that all text can be mapped to Unicode, either by means of the ToUnicode map or implicitly through encoding information (MacRomanEncoding, MacExpertEncoding, WinAnsiEncoding, Adobe standard Latin character set for Type 1 fonts, or predefined character collections Adobe-Japan1, Adobe GB1, Adobe-CNS1 or Adobe-Korea1 for CID-Fonts).

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: All text can be mapped to Unicode

Operator: is not true

Check:**Text is mapped to Unicode Private Use Area but no ActualText entry is present**

Comment: Text may be mapped to a Private Use Area in Unicode. In this case some PDF based ISO standards require the presence of an ActualText entry.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Text

Property: Character is mapped to Unicode Private Use Area (PUA)

Operator: is true

Condition

Group: Text

Property: Character has ActualText entry

Operator: is not true

Check:**ToUnicode CMap contains a Unicode value of zero**

Comment: Some PDF based ISO standards require that Unicode values in a ToUnicode entry are positive values and do not use U+FEFF or U+FFFE.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Text

Property: ToUnicode CMap uses zero as Unicode value

Operator: is true

Check:**Transfer curve used**

Comment: Transfer curves are prohibited in some PDF-based ISO standards. Use Acrobat Distiller 5's "Apply transfer curves" to avoid transfer curves in PDF files without compromising page contents.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: Has transfer function

Operator: is true

Condition

Group: General Graphic state properties

Property: Has TR2 entry

Operator: is not true

Check:

Transfer function in halftone dictionary improperly used

Comment: PDF-based ISO standards prohibit the use of transfer functions in halftone dictionaries if not explicitly required by the PDF specification for the respective halftone type. (If the halftone dictionary is a component of a type 5 halftone and represents either a non primary or nonstandard primary color component a transfer function is required.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: General Graphic state properties

Property: TransferFunction in halftone dictionary not required by PDF reference

Operator: is true

Check:

Transparency group on page level without color space entry and no PDF/A OutputIntent present

Comment: Some PDF based ISO standards require that for all page objects that use transparency a transparency group entry with an CS (color space) entry is in effect if no PDF/A OutputIntent is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Condition

Group: General Graphic state properties

Property: Has transparency

Operator: is true

Condition

Group: Pages

Property: Transparency group has a CS (color space) entry

Operator: is not true

Condition

Group: Pages

Property: Page is a transparency group

Operator: is true

Check:

TrueType font has Differences array but does not contain a Microsoft Unicode encoding

Comment: Some PDF based ISO standards require that a TrueType font does not define a Differences array unless all glyph names in this array are listed in the Adobe Glyph List and the embedded font program contains at least the Microsoft Unicode (3,1) encoding.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font has Differences array

Operator: is true

Condition

Group: Font

Property: All glyph names in Differences array are listed in Adobe Glyph List

Operator: is true

Condition

Group: Font

Property: Embedded font contains character encoding for Microsoft Unicode (3.1)

Operator: is not true

Check:

TrueType font has Differences array with glyph names that are not listed in Adobe Glyph list

Comment: Some PDF based ISO standards require that a TrueType font does not define a Differences array unless all glyph names in this array are listed in the Adobe Glyph List.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font has Differences array

Operator: is true

Condition

Group: Font

Property: All glyph names in Differences array are listed in Adobe Glyph List

Operator: is not true

Check:

Type 2 CID font: CIDToGIDMap invalid or missing

Comment: Some PDF-based ISO standards require that a Type 2 CIDFont has a stream mapping from CIDs to glyph indices or the name Identity as its value.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: CIDFont dictionary contains a CIDToGIDMap with a stream or the name Identity

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:

Unicode CMap uses inappropriate values

Comment: Some PDF based ISO standards require that Unicode values in a ToUnicode entry are positive values and do not use U+FEFF or U+FFFE.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Current file

Severity: Error

Condition

Group: Text

Property: ToUnicode CMap uses inappropriate Unicode values

Operator: is true

Check:

Width information for rendered glyphs is inconsistent

Comment: Some PDF-based ISO standards require that the glyph widths in the font dictionary and the glyph widths in the embedded font are consistent.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: Glyph width info in PDF matches width info in embedded font

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:

Wrong encoding for non-symbolic TrueType font

Comment: Some PDF-based ISO standards require that non-symbolic TrueType fonts use MacRomanEncoding or WinAnsiEncoding.

Analyze: Page contents Appearance of annotations Appearance of form fields Current file

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font specifies MacRomanEncoding or WinAnsiEncoding

Operator: is not true

Check:

XMP History entry has no "action" field

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "action" field defines the action that occurred. Defined values are: converted, copied, created, cropped, edited, filtered, formatted, version_updated, printed, published, managed, produced, resized. Other values may be used. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: XMP History entry has "action" field
Operator: is not true

Check:

XMP History entry has no "parameters" field

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "parameters" field contains some additional description of an action. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: XMP History entry has "parameters" field
Operator: is not true

Check:

XMP History entry has no "when" field

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "when" field contains a timestamp of when an action occurred. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: XMP History entry has "when" field
Operator: is not true

Check:

XMP PDF/A extension schema container schema does not use 'pdfaExtension' prefix

Comment: The PDF/A standard requires that an XMP schema that is used for an extension schema uses the namespace prefix 'pdfaExtension' and the namespace URI <http://www.aiim.org/pdfa/ns/extension/>.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: Metadata namespace for PDF/A extension schema container schema uses 'pdfaExtension' prefix
Operator: is not true

Check:

XMP PDF/A identification schema does not use 'pdfaid' prefix

Comment: The PDF/A standard requires that the XMP schema that is used for identification of a PDF file as conforming to the standard uses the namespace prefix 'pdfaid' and the namespace URI <http://www.aiim.org/pdfa/ns/id#>.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata
Property: Metadata namespace for PDF/A Identification schema uses 'pdfaid' prefix
Operator: is not true

Check:

XMP for a page object uses deprecated attribute: "bytes"

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata
Property: XMP metadata uses bytes attribute
Operator: is true

Check:

XMP for a page object uses deprecated attribute: "encoding"

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata
Property: XMP metadata uses encoding attribute
Operator: is true

Check:**XMP for a page uses deprecated attribute: "bytes"**

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: XMP metadata uses bytes attribute

Operator: is true

Check:**XMP for a page uses deprecated attribute: "encoding"**

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: XMP metadata uses encoding attribute

Operator: is true

Check:**XMP property does not match definitions of the extension schema (XMP 2005)**

Comment: An XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Document Metadata

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is true

Condition

Group: Document Metadata

Property: Property is defined in extension schema

Operator: is true

Check:**XMP property for page does not match definitions of the extension schema (XMP 2005)**

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Pages

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is true

Condition

Group: Pages

Property: Property is defined in extension schema

Operator: is true

Check:**XMP property for page is predefined but not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property of a page is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Predefined XMP property in PDF/A-2 standard matches definition

Operator: is not true

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is true

Check:**XMP property for page neither predefined nor defined in extension schema (XMP 2005)**

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Pages

Property: Property is defined in extension schema

Operator: is not true

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is not true

Check:**XMP property for page not predefined and no extension schema present (XMP 2005)**

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is not true

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Check:**XMP property for page object does not match definitions of the extension schema (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Object Metadata

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Object Metadata

Property: Extension schema is present in XMP

Operator: is true

Condition

Group: Object Metadata

Property: Property is defined in extension schema

Operator: is true

Check:**XMP property for page object is predefined but not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property of a page object is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata

Property: Predefined XMP property in PDF/A-2 standard matches definition

Operator: is not true

Condition

Group: Object Metadata

Property: Property exists in PDF/A-2 standard

Operator: is true

Check:**XMP property for page object neither predefined nor defined in extension schema (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Object Metadata

Property: Property is defined in extension schema

Operator: is not true

Condition

Group: Object Metadata

Property: Extension schema is present in XMP

Operator: is true

Check:**XMP property for page object not predefined and no extension schema present (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Object Metadata

Property: Extension schema is present in XMP

Operator: is not true

Condition

Group: Object Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Check:**XMP property is predefined but is not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Predefined XMP property in PDF/A-2 standard matches definition

Operator: is not true

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is true

Check:

XMP property neither predefined nor defined in extension schema (XMP 2005)

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Document Metadata

Property: Property is defined in extension schema

Operator: is not true

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is true

Check:

XMP property not predefined and no extension schema present (XMP 2005)

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is not true

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Check:

XMP uses deprecated attribute: "bytes"

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: XMP metadata uses bytes attribute

Operator: is true

Check:

XMP uses deprecated attribute: "encoding"

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Current file

Severity: Error

Condition

Group: Document Metadata

Property: XMP metadata uses encoding attribute

Operator: is true

Check:

Alternate image present

Comment: The image has an alternate image associated with it.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Image

Property: Has alternate image

Operator: is true

Check:

Alternate image uses compression type that is not listed in ISO 32000

Comment: An alternate image uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIIHexDecode or ASCII85Decode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Alternate image type of compression filter

Operator: is not contained in list

"ASCIIHexDecode"

"AHx"

"ASCII85Decode"

"A85"

"FlateDecode"

"FI"

"RunLengthDecode"

"RL"

"DCTDecode"

"DCT"

"CCITTFaxDecode"

"CCF"

"JBIG2Decode"

"JPXDecode"

"LZWDecode"

"LZW"

"Crypt"

Check:

Annotation (other than Popup) has no Flags entry

Comment: Some PDF based ISO standards require that the Flag entry is present for any annotation except for Popup annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Annotation has Flags entry

Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

Text: "Popup PopUp"

Check:

Annotation (other than Popup) not set to print

Comment: Some PDF based ISO standards require that all annotations except Popup annotations are set to print.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Flag 3 is set (Print)

Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

Text: "Popup PopUp"

Check:

Annotation Hidden flag set

Comment: Some PDF-based ISO standards prohibit the use of the Hidden flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Flag 2 is set (Hidden)

Operator: is true

Check:

Annotation Invisible flag set

Comment: Some PDF-based ISO standards prohibit the use of the Invisible flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Flag 1 is set (Invisible)

Operator: is true

Check:

Annotation NoView flag set

Comment: Some PDF-based ISO standards prohibit the use of the NoView flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Flag 6 is set (NoView)

Operator: is true

Check:

Annotation ToggleNoView flag set

Comment: Some PDF based ISO standards prohibit the use of the ToggleNoView flag for annotations.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Flag 9 is set (ToggleNoView)

Operator: is true

Check:

Annotation has multiple appearances

Comment: According to PDF/A all annotations are required to have only one appearance.

Analyze: Page contents Appearance of annotations Embedded files

Severity: Error

Condition

Group: Annotations

Property: N appearance is a stream

Operator: is not true

Check:

Annotation has no appearance defined

Comment: Some PDF based ISO standards require that every annotation (except Popup or Link annotations) has at least one appearance dictionary.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations

Property: Annotation has an appearance dictionary

Operator: is not true

Condition

Group: Annotations

Property: Annotation is of type

Operator: is not contained in

Text: "Popup Link PopUp"

Condition

Group: Annotations

Property: Size of Annotation rectangle is zero

Operator: is not true

Check:

Annotation's AP (appearance) contains only N entry is not true

Comment: If is an requirement of some PDF-based ISO standards, that if an annotation contains an AP (appearance) entry, it must contain only the N entry (normal appearance and no alternate appearances).

Analyze: Page contents Appearance of annotations Embedded files

Severity: Error

Condition

Group: Annotations

Property: AP (appearance) entry contains only N

Operator: is not true

Check:

Blend mode not conform to PDF Reference

Comment: Some PDF/X standards, e.g. PDF/X-4, require that only blend modes as defined in the PDF specification are used within a compliant file. These blend modes are: Normal, Multiply, Screen, Overlay, Darken, Lighten, ColorDodge, ColorBurn, HardLight, SoftLight, Difference, Exclusion, Hue, Saturation, Color, Luminosity.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Blend mode

Operator: is not contained in list

"Normal"

"Compatible"

"Multiply"

"Screen"

"Overlay"

"Darken"

"Lighten"

"ColorDodge"

"ColorBurn"

"HardLight"

"SoftLight"

"Difference"

"Exclusion"

"Hue"

"Saturation"

"Color"

"Luminosity"

Check:

CID font does not use Identity-H or -V encoding and Ordering strings are not identical

Comment: The CIDSystemInfo information is present in the CIDFont dictionary and in the Encoding dictionary of a CID font. If the value for the Encoding key is not Identity-H or Identity-V the values for the Ordering key must be the same according to some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Font type is CID (Type 1)

Operator: is true

Condition

Group: Font

Property: Uses Identity-H or Identity-V encoding

Operator: is not true

Condition

Group: Font

Property: Ordering entries in CIDSystemInfo are identical

Operator: is not true

Check:

CID font does not use Identity-H or -V encoding but Registry strings are not identical

Comment: The CIDSystemInfo information is present in the CIDFont dictionary and in the Encoding dictionary of a CID font. If the value for the Encoding key is not Identity-H or Identity-V the values for Registry key must be the same according to some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Font type is CID (Type 1)

Operator: is true

Condition

Group: Font
Property: Uses Identity-H or Identity-V encoding
Operator: is not true

Condition

Group: Font
Property: Registry entries in CIDSystemInfo are identical
Operator: is not true

Check:

CID font does not use Identity-H or -V encoding but Supplement entries are incompatible

Comment: If the Encoding key in an embedded Type 0 font is not Identity-H or Identity-V the Supplement key in the CIDSystemInfo dictionary of the CIDFont must be greater or equal to the respective key in the CIDSystemInfo of the CMap. This is required by PDF/A-2 and other PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font
Property: CIDSystemInfo Supplement value is equal to or greater than Supplement value in CIDFont
Operator: is not true

Check:

CID font uses CMap that is not predefined and not embedded

Comment: If a CID font does not use any of the CMaps that are predefined in ISO 32000-1 the respective CMap must be embedded into the file. This is required by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font
Property: CMap is predefined in ISO 32000-1
Operator: is not true

Condition

Group: Font
Property: CMap for CIDFont is embedded
Operator: is not true

Check:

CIDset in subset font is incomplete (font contains glyphs that are not listed)

Comment: PDF/A requires that a subset CID font contains a complete CIDSet entry.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font
Property: Is subset
Operator: is true

Condition

Group: Font
Property: Font type is CID
Operator: is true

Condition

Group: Font
Property: CIDSet stream contains all CIDs present in embedded CIDFont
Operator: is not true

Condition

Group: Font
Property: CIDFont descriptor contains CIDSet stream
Operator: is true

Check:

CMYK used but PDF/A OutputIntent not CMYK

Comment: Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors
Property: Is DeviceCMYK
Operator: is true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data

Operator: does not contain

Text: "CMYK"

Check:

CMYK used for alt. color but PDF/A OutputIntent not CMYK

Comment: Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors

Property: Alternate base color space name

Operator: equal to

Text: "DeviceCMYK"

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: does not contain

Text: "CMYK"

Check:

CMYK used in blending color space of transparent object but PDF/A OutputIntent not CMYK

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceCMYK is prohibited by PDF/A if the OutputIntent does not contain a CMYK destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Blending color space

Operator: contains

Text: "CMYK"

Condition

Group: General Graphic state properties

Property: Blending color space is device independent

Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: does not contain

Text: "CMYK"

Check:

CMap references other CMap that is not predefined

Comment: A CMap in a CID font may reference another CMap which in turn, according to some PDF based ISO standards, must be predefined in ISO 32000-1.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: CMap references CMap which is not predefined in ISO 32000-1

Operator: is true

Check:

CharSet in subset font is incomplete (font contains glyphs that are not listed)

Comment: Some PDF based ISO standards require that a subset Type 1 font contains a CharSet string with all character names of the glyphs present in the embedded font program.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Font type is Type 1 or Multiple Master Type 1

Operator: is true

Condition

Group: Font

Property: Is subset

Operator: is true

Condition

Group: Font

Property: Type 1 font descriptor contains CharSet string

Operator: is true

Condition

Group: Font

Property: CharSet string contains all character names present in embedded font

Operator: is not true

Check:

Character references .notdef glyph

Comment: The text contains characters that are mapped to the .notdef glyph. The .notdef glyph should not be directly referenced but is used as a placeholder for missing glyphs instead.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Text

Property: Character references .notdef glyph

Operator: is true

Check:

Contains action of type GoTo3DView

Comment: Determines whether the document contains actions of type GoTo3DView for setting the current view of a 3D annotation.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has action of type GoTo3DView

Operator: is true

Check:

Contains action of type Hide

Comment: Some PDF based ISO standards prohibit the use of actions of type Hide.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has action of type Hide

Operator: is true

Check:

Contains action of type ImportData

Comment: Some PDF-based ISO standards prohibit actions of type ImportData.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has action of type ImportData

Operator: is true

Check:

Contains action of type JavaScript

Comment: Some PDF-based ISO standards prohibit actions of type JavaScript.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has action of type JavaScript

Operator: is true

Check:

Contains action of type Launch

Comment: PDF/A prohibits actions of type Launch.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has action of type Launch

Operator: is true

Check:

Contains action of type Movie

Comment: PDF/A prohibits actions of type Movie.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type Movie
Operator: is true

Check:

Contains action of type Rendition

Comment: Determines whether the document contains actions of type Rendition controlling the playing of multimedia content.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type Rendition
Operator: is true

Check:

Contains action of type ResetForm

Comment: PDF/A prohibits actions of type ResetForm.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type ResetForm
Operator: is true

Check:

Contains action of type SetOCGState

Comment: Determines whether the document contains actions of type SetOCGState for setting the states of optional content groups.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type SetOCGState
Operator: is true

Check:

Contains action of type Sound

Comment: PDF/A prohibits actions of type Sound.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type Sound
Operator: is true

Check:

Contains action of type Trans

Comment: Determines whether the document contains actions of type Trans defining how the display of a document is updated after a sequence of actions.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has action of type Trans
Operator: is true

Check:

Deprecated action type (set-state or no-op)

Comment: The action types set-state or no-op are deprecated in PDF specification 1.4. Their use is prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document
Property: Type of action
Operator: is contained in list
"SetState"
"set-state"
"NOP"
"no-op"

Check:

Destination profiles in OutputIntents differ

Comment: PDF/A requires that all OutputIntents that are present in a PDF/A file must reference the same destination profile.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output intents for PDF/A

Property: DestOutputProfile is the same in all OutputIntents

Operator: is not true

Check:

Device process color used but no PDF/A OutputIntent

Comment: PDF/A requires that as soon as DeviceGray, DeviceRGB or DeviceCMYK are used an OutputIntent with a destination profile must be present.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors

Property: Base color space name

Operator: is contained in

Text: "DeviceGray DeviceRGB DeviceCMYK"

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Check:

Device process color used in alt. color space but no PDF/A OutputIntent

Comment: PDF/A requires that as soon as DeviceGray, DeviceRGB or DeviceCMYK are used an OutputIntent with a destination profile must be present.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors

Property: Alternate base color space name

Operator: is contained in

Text: "DeviceGray DeviceRGB DeviceCMYK"

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Check:

DeviceGray used but PDF/A OutputIntent not CMYK, RGB or Gray

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: is not contained in list

"GRAY"

"RGB "

"CMYK"

Condition

Group: Colors

Property: Is DeviceGray

Operator: is true

Check:

DeviceGray used for alt. color but PDF/A OutputIntent not CMYK, RGB or Gray

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: is not contained in list

"GRAY"

"RGB "

"CMYK"

Condition

Group: Colors
Property: Alternate base color space name
Operator: equal to
Text: "DeviceGray"

Check:**DeviceGray used in blending color space but no compatible PDF/A OutputIntent**

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceGray is prohibited by PDF/A if no OutputIntent is present with an RGB, CMYK or DeviceGray destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: General Graphic state properties
Property: Blending color space
Operator: contains
Text: "Gray"

Condition

Group: General Graphic state properties
Property: Blending color space is device independent
Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: is not contained in list
"GRAY"
"RGB "
"CMYK"

Check:**DeviceN color does not have colorant entry for all spot colors**

Comment: The colorants entry describes the individual colorants used in a DeviceN color space. In particular it defines the alternate color of each spot color colorant in a DeviceN color space. (The DeviceN color space itself describes only the appearance of its colorants in combination). Some PDF based ISO standards (e.g. PDF/X-4) require that the colorant entry is present for all spot colorants in a DeviceN color space.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Colors
Property: DeviceN color space has Colorant entries for all spot colors
Operator: is not true

Check:**Document XMP metadata is not valid**

Comment: At least one aspect of the document XMP metadata is syntactically incorrect.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata
Property: Document XMP metadata is not valid
Operator: is true

Check:**Document contains JavaScripts**

Comment: JavaScripts are an advanced feature in Acrobat to add interactivity to PDF pages as well as to form fields. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document
Property: Has JavaScripts
Operator: is true

Check:**Document contains additional actions (AA)**

Comment: Actions in a PDF file are often used to add interactivity. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document
Property: Has additional actions

Operator: is true

Check:**Document has alternate presentations**

Comment: The alternate presentations entry specifies alternate ways in which a document may be viewed (e.g. as a slideshow).

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Has alternate presentations

Operator: is true

Check:**Document is damaged and needs repair**

Comment: The PDF document is damaged. While Acrobat always tries to repair the document when it is opened, there is no guarantee that the document can be processed reliably.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Is damaged

Operator: is true

Check:**Document is encrypted**

Comment: Even if an encrypted file does not require a password, many applications (incl. Photoshop and InDesign) won't allow one to do anything with the file. In addition, PDF/X and other PDF-based ISO standards prohibit encryption.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Is encrypted

Operator: is true

Check:**Document uses Requirements key**

Comment: A PDF may specify requirements for a conforming reader in order to display and process it properly. Some PDF based ISO standards prohibit the use of this entry because no such specific requirements should exist in a standard PDF file.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Requirements key is present

Operator: is true

Check:**Document uses compression type that is not listed in ISO 32000-1**

Comment: The document uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIIHexDecode or ASCII85Decode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Type of compression in stream

Operator: is not contained in list

"ASCIIHexDecode"

"AHx"

"ASCII85Decode"

"A85"

"FlateDecode"

"F"

"RunLengthDecode"

"RL"

"DCTDecode"

"DCT"

"CCITTFaxDecode"

"CCF"

"JBIG2Decode"

"JPXDecode"

"LZWDecode"

"LZW"

"Crypt"

Check:**Embedded file present but no F key**

Comment: A PDF file can refer to the contents of another file by using a file specification. The F key specifies the location of the file by means of a platform independent path or an URL. Some PDF based ISO standards require the presence of the F key if a file specification is present.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: PDF contains EF (embedded file) entry

Operator: is true

Condition

Group: Document

Property: File specification dictionary for embedded file has no F key

Operator: is true

Check:**Embedded file present but no UF key**

Comment: A PDF file can refer to the contents of another file by using a file specification. The UF key specifies the location of the file by means of a Unicode text string. Some PDF based ISO standards require the presence of the UF key if a file specification is present.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: PDF contains EF (embedded file) entry

Operator: is true

Condition

Group: Document

Property: File specification dictionary for embedded file has no UF key

Operator: is true

Check:**Embedded file present that is not a PDF file**

Comment: A file is embedded which is not a PDF file. The PDF/A-2 standard permits embedded files but requires that all embedded files comply with PDF/A-1 or PDF/A-2.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Embedded file is a PDF file

Operator: is not true

Check:**Encoding entry prohibited for symbolic TrueType font**

Comment: Some PDF-based ISO standards prohibit that symbolic TrueType fonts use the Encoding entry.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font

Property: Symbolic TrueType font has Encoding dictionary

Operator: is true

Check:**Encrypt key present in file trailer**

Comment: The use of the Encrypt key in the file trailer (and thus the use of encryption) is prohibited for PDF/A files.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: File trailer has Encrypt entry

Operator: is true

Check:**Extension schema present but not valid**

Comment: The XMP extension schema in this document is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata
Property: Extension schema in XMP is valid
Operator: is not true

Condition

Group: Document Metadata
Property: Extension schema is present in XMP
Operator: is true

Check:

Extension schema present in page but not valid

Comment: An XMP extension schema present in a page's XMP metadata stream is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages
Property: Extension Schema in XMP is valid
Operator: is not true

Check:

Extension schema present in page object but not valid

Comment: An XMP extension schema present in a page object's XMP metadata stream is syntactically incorrect, inconsistent or incomplete, or does not comply with the requirements for XMP extension schemas according to PDF/A.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata
Property: Extension Schema in XMP is valid
Operator: is not true

Check:

File header not compliant with PDF/A

Comment: PDF/A requires that a PDF file properly starts with the PDF header. It must not have any data before the PDF header, and in the second line of the header, at least four characters shall follow after the comment character '%' that have a value above 127.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document
Property: PDF file header is compliant with PDF/A
Operator: is not true

Check:

Font is not valid

Comment: At least one embedded font is syntactically incorrect.

Analyze: Page contents Soft masks Embedded files

Severity: Error

Condition

Group: Font
Property: Font is not valid
Operator: is true

Check:

Font license flag prohibits embedding

Comment: TrueType fonts may have a flag indicating whether they may be embedded or not. The PDF file uses a font that may not be embedded.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font
Property: Embedding flag "Restricted License embedding" is set in embedded TrueType font
Operator: is true

Condition

Group: Text
Property: Text rendering mode
Operator: unequal to
Number: "3"
Tolerance: "0"

Condition

Group: Font
Property: Embedding flag "Bitmap embedding only" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Editable embedding" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Installable embedding" is set in embedded TrueType font

Operator: is not true

Condition

Group: Font

Property: Embedding flag "Preview & Print embedding" is set in embedded TrueType font

Operator: is not true

Check:**Font name is not a valid UTF-8 string**

Comment: Some PDF-based ISO standards require that all font names are internally encoded according to the UTF-8 standard. (This is a recommendation in the PDF specification which is made normative by the ISO standard.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Font name is UTF-8 encoded

Operator: is not true

Check:**Font not embedded (and text rendering mode not 3)**

Comment: In order to make sure that all characters in a PDF are accurately displayed all required fonts should be embedded into a PDF file. Some PDF-based ISO standards require that all fonts used for text are embedded unless that text uses text rendering mode 3 (invisible text).

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font

Property: Is embedded

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:**Form XObject contains Ref key (referenced PDF)**

Comment: Content from an external PDF file is being referenced (by use of the Ref key in a Form XObject). This entry is prohibited in PDF-based ISO standards which do not explicitly permit referenced content.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Form XObject contains Ref (referenced PDF) entry

Operator: is true

Check:**Form field has AA (additional actions) entry**

Comment: Form fields may have an additional actions dictionary. Some PDF based ISO standards prohibit actions or additional actions.

Analyze: Page contents Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields

Property: Form field has AA (additional action) entry

Operator: is true

Check:**Form field has actions**

Comment: Form fields may have actions. Some PDF based ISO standards prohibit actions.

Analyze: Page contents Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields
Property: Has actions
Operator: is true

Check:

Form field has multiple appearances (but is not a Button)

Comment: Some PDF based ISO standards require that form fields only have one appearance except when the form field is of type Button.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields
Property: Type of form field
Operator: unequal to
Text: "Btn"

Condition

Group: Form fields
Property: N appearance is a dictionary
Operator: is true

Check:

Form field has no appearance defined

Comment: Some PDF based ISO standards require that every form field must have at least one appearance dictionary.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields
Property: Form field has an appearance dictionary
Operator: is not true

Condition

Group: Form fields
Property: Size of Form field rectangle is zero
Operator: is not true

Check:

Form field of type button does not have multiple appearances

Comment: A Button form field should have more than one appearance.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields
Property: Type of form field
Operator: equal to
Text: "Btn"

Condition

Group: Form fields
Property: N appearance is a dictionary
Operator: is not true

Check:

Form field's AP (appearance) contains only N entry is not true

Comment: If a form field contains an AP (appearance) entry, it must define only one "normal" appearance. Alternate appearances such as for mouse over effects are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields
Property: AP (appearance) contains only N entry
Operator: is not true

Check:

Glyphs missing in embedded font

Comment: All fonts embedded into a PDF have to contain glyphs for all characters used in the PDF. This is required by some PDF-based ISO standards such as PDF/X.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font
Property: Embedded font contains all glyphs needed in PDF
Operator: is not true

Condition

Group: Text
Property: Text is not rendered and not used as clipping path
Operator: is not true

Check:

Halftone not of type 1 or 5

Comment: Halftone entries other than type 1 or 5 are prohibited by some PDF based ISO standards. This prohibits the use of threshold screens that would produce different appearances at different resolutions.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Halftone
Property: Halftone type
Operator: is not contained in
Text: "1 5"

Check:

Halftone phase entry used

Comment: The halftone phase (HTP) entry is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Halftone
Property: Has halftone phase (HTP) information
Operator: is true

Check:

HalftoneName key present

Comment: The Halftone name key is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Halftone
Property: Halftone has name
Operator: is true

Check:

ICC profile in OutputIntent is older than version 2

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Format version
Operator: less than
Number: "2.0.0"
Tolerance: "0"

Check:

ICC profile in OutputIntent uses incorrect color space

Comment: Some PDF based ISO standards require that the ICC profile in the output intent shall have a color space of either "GRAY", "RGB ", or "CMYK".

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Color space of data
Operator: is not contained in list
"GRAY"
"RGB "
"CMYK"

Check:

ICC profile in OutputIntent uses incorrect type

Comment: Some PDF-based ISO standards such as PDF/A-1 or PDF/E-1 require that the type of the ICC profile in the output intent must be either 'mnr' (monitor) or 'prtr' (printer).

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)
Property: Type of profile
Operator: is not contained in list

"mnr"

"prtr"

Check:

ICC profile in PDF/A OutputIntent is version 3

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: less than

Number: "4.0.0"

Tolerance: "0"

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: greater than or equal to

Number: "3.0.0"

Tolerance: "0"

Check:

ICC profile in PDF/A OutputIntent is version 5 or newer

Comment: Beginning with PDF 1.5 (Acrobat 6) version 4 ICC profiles are supported for ICC based color spaces. Some PDF based ISO standards prohibit the use of ICC profile versions newer than 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Format version

Operator: greater than or equal to

Number: "5.0.0"

Tolerance: "0"

Check:

ICC profile is not valid

Comment: At least one ICC profile is syntactically incorrect.

Analyze: Page contents Soft masks Embedded files

Severity: Error

Condition

Group: ICC color spaces

Property: ICC profile is not valid

Operator: is true

Check:

ICC profile is not valid

Comment: At least one ICC profile is syntactically incorrect.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: ICC profile is not valid

Operator: is true

Check:

ICC profile is older than version 2

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: ICC color spaces

Property: Format version

Operator: less than

Number: "2.0.0"

Tolerance: "0"

Check:

ICC profile is version 3

Comment: Some PDF based ISO standards prohibit the use of ICC profile versions other than 2 or 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: ICC color spaces
Property: Format version
Operator: less than
Number: "4.0.0"
Tolerance: "0"

Condition

Group: ICC color spaces
Property: Format version
Operator: greater than or equal to
Number: "3.0.0"
Tolerance: "0"

Check:

ICC profile is version 5 or newer

Comment: Beginning with PDF 1.5 (Acrobat 6) version 4 ICC profiles are supported for ICC based color spaces. Some PDF based ISO standards prohibit the use of ICC profile versions newer than 4.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: ICC color spaces
Property: Format version
Operator: greater than or equal to
Number: "5.0.0"
Tolerance: "0"

Check:

ICC profile missing in PDF/A OutputIntent

Comment: PDF/A requires that the PDF/A OutputIntent if present contains a destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Output intents for PDF/A
Property: Has ICC output profile
Operator: is not true

Condition

Group: Output intents for PDF/A
Property: Has Output Intent
Operator: is true

Check:

ID in file trailer missing or incomplete

Comment: The ID entry in the file trailer must be present and must contain two hex strings.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document
Property: File trailer has ID array with two hex strings
Operator: is not true

Check:

Image has OPI information

Comment: OPI information is used in order to replace embedded images with external images. The use of OPI information is prohibited in PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Image
Property: Has OPI information
Operator: is true

Check:

Image is not valid

Comment: The data stream for at least one image is syntactically incorrect.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image
Property: Image is not valid
Operator: is true

Check:

Image uses compression type that is not listed in ISO 32000

Comment: An image uses a filter type that is not listed in the ISO PDF standard (ISO 32000-1:2008): ZIP (FlateDecode), RunLengthDecode, CCITTFaxDecode, JBIG2Decode, JPEG (DCTDecode), JPEG2000 (JPXDecode), ASCII (ASCIIFilter or ASCII85Decode), LZWDecode or Crypt.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

- Group: Image
- Property: Type of compression filter
- Operator: is not contained in list
- "ASCIIFilter"
- "AHx"
- "ASCII85Decode"
- "A85"
- "FlateDecode"
- "FI"
- "RunLengthDecode"
- "RL"
- "DCTDecode"
- "DCT"
- "CCITTFaxDecode"
- "CCF"
- "JBIG2Decode"
- "JPXDecode"
- "LZWDecode"
- "LZW"
- "Crypt"

Check:

Implementation limit: CID (character identifier) greater than 65535

Comment: PDF-based ISO standards require that the CID numbers are below 65535.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

- Group: Font
- Property: Largest CID (character identifier) used
- Operator: greater than
- Number: "65535"
- Tolerance: ""

Check:

Implementation limit: Height of ArtBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

- Group: Pages
- Property: ArtBox height (default user space)
- Operator: less than
- Number: "3"
- Tolerance: ""

Condition

- Group: Pages
- Property: Has ArtBox
- Operator: is true

Check:

Implementation limit: Height of ArtBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

- Group: Pages
- Property: ArtBox height (default user space)
- Operator: greater than
- Number: "14400"
- Tolerance: ""

Condition

- Group: Pages

Property: Has ArtBox

Operator: is true

Check:

Implementation limit: Height of CropBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: CropBox height (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has CropBox

Operator: is true

Check:

Implementation limit: Height of CropBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: CropBox height (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages

Property: Has CropBox

Operator: is true

Check:

Implementation limit: Height of MediaBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: MediaBox height (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Check:

Implementation limit: Height of MediaBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: MediaBox height (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Check:

Implementation limit: Height of TrimBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: TrimBox height (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Height of TrimBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: TrimBox height (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Integer value out of range (too high)

Comment: PDF-based ISO standards require that integer values in a PDF do not exceed the range of integer values on 32 bit systems.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Largest positive integer used

Operator: greater than

Number: "2147483647"

Tolerance: ""

Check:

Implementation limit: Integer value out of range (too low)

Comment: PDF-based ISO standards require that integer values in a PDF do not exceed the range of integer values on 32 bit systems.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Largest negative integer used

Operator: less than

Number: "-2147483648"

Tolerance: ""

Check:

Implementation limit: Max. number of nested graphic states (q/Q operators) exceeded

Comment: PDF-based ISO standards require that the number of nested q/Q operators must not exceed 28.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Page description

Property: Nesting level of q/Q operator

Operator: greater than

Number: "28"

Tolerance: ""

Check:

Implementation limit: More than 8388607 indirect objects

Comment: PDF-based ISO standards require that the number of indirect objects is at most 8388607.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: CropBox width (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages

Property: Has CropBox

Operator: is true

Check:

Implementation limit: Width of MediaBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: MediaBox width (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Check:

Implementation limit: Width of MediaBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: MediaBox width (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Check:

Implementation limit: Width of TrimBox below 3 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be less than 3 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: TrimBox width (default user space)

Operator: less than

Number: "3"

Tolerance: ""

Condition

Group: Pages

Property: Has TrimBox

Operator: is true

Check:

Implementation limit: Width of TrimBox greater than 14400 units

Comment: Some PDF based ISO standards require that the boundaries of any page box (ArtBox, TrimBox, CropBox or MediaBox) must not be greater than 14400 units in either direction.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: TrimBox width (default user space)

Operator: greater than

Number: "14400"

Tolerance: ""

Condition

Group: Pages
Property: Has TrimBox
Operator: is true

Check:

Inconsistent WMode entries

Comment: PDF-based ISO standards require that the WMode entry in a CMap dictionary is identical to the WMode entry in the CMap stream.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font
Property: WMode in CMap dictionary is identical to WMode in CMap stream
Operator: is not true

Check:

Incorrect PDF/A conformance level (must be "B")

Comment: Incorrect PDF/A conformance level (must be "B") for conformance level b.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata
Property: PDF/A ID: Conformance
Operator: unequal to
Text: "B"

Check:

Incorrect PDF/A version number (must be 2)

Comment: Incorrect PDF/A version number - must be 2 for PDF/A-2.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata
Property: PDF/A ID: Part
Operator: unequal to
Text: "2"

Check:

Incorrect annotation type used: 3D

Comment: In PDF/A files annotations of type 3D may not be used because such content is not within the scope of this standard.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations
Property: Annotation is of type
Operator: is contained in list
"3D"

Check:

Incorrect annotation type used: Multimedia annotation

Comment: In PDF/A files annotations of type 3D, Sound, Screen or Movie may not be used.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations
Property: Annotation is of type
Operator: is contained in list
"Sound"
"Movie"
"Screen"

Check:

Incorrect annotation type used: Not defined in PDF (ISO 32000-1)

Comment: An annotation type is used which is not defined in PDF 1.7 (ISO 32000-1)

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Annotations
Property: Annotation is of type
Operator: is not contained in list

"Text"
 "Link"
 "FreeText"
 "Line"
 "Square"
 "Circle"
 "Polygon"
 "PolyLine"
 "Highlight"
 "Underline"
 "Squiggly"
 "StrikeOut"
 "Stamp"
 "Caret"
 "Ink"
 "Popup"
 "FileAttachment"
 "Sound"
 "Movie"
 "Widget"
 "Screen"
 "PrinterMark"
 "TrapNet"
 "Watermark"
 "3D"
 "Redact"

Check:**Indirect object "endobj" keyword not followed by an EOL marker**

Comment: In an indirect object the keyword "endobj" is not accurately followed by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object "endobj" keyword not followed by an EOL marker

Operator: is true

Check:**Inline image uses Crypt filter**

Comment: An inline image uses the Crypt filter. This is not permitted in some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: contains

Text: "Crypt"

Condition

Group: Image

Property: Is inline image

Operator: is true

Check:**Interactive forms make use of the XFA**

Comment: Interactive forms may be defined using XFA (Adobe XML Forms Architecture). This is prohibited in some PDF based ISO standards.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: AcroForm dictionary contains XFA entry

Operator: is true

Check:**Interpolate key for image not false**

Comment: Some PDF-based ISO standards require that the Interpolate key for an image - if present - is set to false.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Image

Property: Value of Interpolate entry

Operator: is true

Check:

Invalid rendering intent

Comment: PDF-based ISO standards only allow the following rendering intents: RelativeColorimetric, AbsoluteColorimetric, Perceptual, Saturation.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Image

Property: Rendering intent

Operator: is not contained in

Text: "RelativeColorimetric AbsoluteColorimetric Perceptual Saturation"

Check:

Invalid rendering intent

Comment: PDF-based ISO standards only allow the following rendering intents: RelativeColorimetric, AbsoluteColorimetric, Perceptual, Saturation.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Rendering intent

Operator: is not contained in

Text: "RelativeColorimetric AbsoluteColorimetric Perceptual Saturation"

Check:

JPEG2000 Image uses bit-depth value below 1

Comment: JPEG2000 images should use bit depths between 1 and 38 only.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: Bits per color component

Operator: less than

Number: "1"

Tolerance: ""

Check:

JPEG2000 Image uses bit-depth value greater than 38

Comment: JPEG2000 images should use bit depths between 1 and 38 only.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Type of compression filter

Operator: equal to

Text: "JPXDecode"

Condition

Group: Image

Property: Bits per color component

Operator: greater than

Number: "38"

Tolerance: ""

Check:

JPEG2000 compressed image has ambiguous entries for color space with best fidelity

Comment: JPEG2000 images may have more than one color space specification. A color space with the best color fidelity is identified by the 0x01 entry in the APPROX field. This check determines whether there is more than one color space with this entry. Having more than one color space identified by this value is prohibited in some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Number of color spaces in JPEG2000 compressed image

Operator: unequal to

Number: "1"
Tolerance: ""

Condition

Group: Image
Property: Number of '0x01' APPROX entries in JPEG2000 image data
Operator: greater than
Number: "1"
Tolerance: ""

Check:

JPEG2000 image does not have 1, 3 or 4 channels

Comment: JPEG2000 images may use color spaces with an arbitrary number of channels. Some PDF-based ISO standards require that JPEG2000 images use either 1, 3 or 4 channels.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image
Property: Type of compression filter
Operator: equal to
Text: "JPXDecode"

Condition

Group: Image
Property: Number of color channels for JPEG2000 compressed image
Operator: unequal to
Number: "3"
Tolerance: ""

Condition

Group: Image
Property: Number of color channels for JPEG2000 compressed image
Operator: unequal to
Number: "4"
Tolerance: ""

Condition

Group: Image
Property: Number of color channels for JPEG2000 compressed image
Operator: unequal to
Number: "1"
Tolerance: ""

Check:

JPEG2000 image uses CIEJab compression

Comment: Some PDF based ISO standards prohibit the use of the CIEJab compression filter in JPEG2000 images.

Analyze: Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image
Property: Type of compression filter
Operator: equal to
Text: "JPXDecode"

Condition

Group: Image
Property: JPEG2000 compressed image uses CIEJab color space
Operator: is true

Check:

JPEG2000 image uses inconsistent bit-depth in its channels

Comment: In a JPEG2000 image it is possible to use a different bit-depth in each of the color channels. Some PDF based ISO standards require that the bit depth is the same in all color channels.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image
Property: All color channels in JPEG2000 compressed image have same bit-depth
Operator: is not true

Check:

JPEG2000 image uses incorrect value for the METH entry

Comment: The METH entry in a 'colr' box of a JPEG2000 image specifies the method to define the color space of the decompressed image. Some PDF based ISO standards require that the value is either 1, 2 or 3.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Image

Property: Value of the METH entry in 'colr' box of a JPEG2000 compressed image

Operator: is not contained in list

"1"

"2"

"3"

Check:

LZW compression used

Comment: Due to patent and licensing issues LZW compression is prohibited in all PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Stream uses LZW compression

Operator: is true

Check:

Metadata does not conform to XMP

Comment: Some PDF-based ISO standards require that the Metadata conform to the XMP specification.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: XMP Metadata entry conforms to XMP 1.5

Operator: is not true

Check:

Metadata missing (XMP)

Comment: PDF may contain metadata information in the document properties as well as in the XMP metadata stream. Some PDF-based ISO standards require the presence of XMP metadata.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Has XMP Metadata

Operator: is not true

Check:

Metadata not embedded as plain text

Comment: Some PDF-based ISO standards require that the Metadata dictionary does not contain the Filter key, which in essence means that it must be embedded as plain text.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: XMP Metadata is plain text

Operator: is not true

Check:

More than one encoding in symbolic TrueType font's cmap and no Microsoft Symbol encoding

Comment: Some PDF based ISO standards require that symbolic TrueType fonts contain exactly one encoding in their cmap tables or that at least the Microsoft Symbol (3,0) encoding is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Font type is TrueType

Operator: is true

Condition

Group: Font

Property: Number of encodings in cmap entry of embedded TrueType font

Operator: unequal to

Number: "1"

Tolerance: "0"

Condition

Group: Font

Property: Is symbolic font

Operator: is true

Condition

Group: Font

Property: Embedded font contains character encoding for Microsoft Symbol (3.0)

Operator: is not true

Check:

Name object is not a valid UTF-8 string

Comment: Some PDF based ISO standards require that all name objects are UTF-8 encoded.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Name object is UTF-8 encoded

Operator: is not true

Check:

Named action with a value other than standard page navigation used

Comment: PDF/A requires that a PDF uses no actions except the named actions NextPage, PrevPage, FirstPage and LastPage.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: Has named action with value other than page navigation

Operator: is true

Check:

NeedAppearances flag present but not set to false

Comment: PDF/A and PDF/E require that an interactive form field either does not have a NeedAppearances flag or that it is set to false.

Analyze: Page contents Appearance of form fields Embedded files

Severity: Error

Condition

Group: Form fields

Property: Form field has a NeedAppearances flag

Operator: is true

Condition

Group: Form fields

Property: Form field has a NeedAppearances flag with a value of true

Operator: is true

Check:

NeedsRendering entry present

Comment: The NeedsRendering flag in the Catalog dictionary indicates whether the document shall be regenerated when first opened. It is used in conjunction with XFA forms. Some PDF based ISO standards prohibit the use of this flag.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Document has NeedsRendering entry

Operator: is true

Condition

Group: Document

Property: Value of NeedsRendering entry is true

Operator: is true

Check:

No transparency group entry for transparent object and no PDF/A OutputIntent present

Comment: Some PDF based ISO standards require that for all page objects which use transparency a transparency group must be in effect if no PDF/A OutputIntent is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Condition

Group: Pages

Property: Page is a transparency group

Operator: is not true

Condition

Group: General Graphic state properties
Property: Has transparency
Operator: is true

Check:

Number of PDF/A OutputIntent entries > 1

Comment: The PDF/A ISO standard requires that within a PDF file there is only one OutputIntent.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output intents for PDF/A
Property: Number of PDF/A-1 OutputIntent entries
Operator: greater than
Number: "1"
Tolerance: ""

Check:

OCCD contains Order key that does not reference all layers

Comment: Some PDF based ISO standards require that the Order entry in an OCCD (optional content configuration dictionary) contains references to all OCGs (optional content groups) present in the file.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Layers
Property: Optional content configuration dictionary has Order entry
Operator: is true

Condition

Group: Layers
Property: Order entry in OCCD references all OCGs
Operator: is not true

Check:

Object XMP metadata is not valid

Comment: The XMP metadata associated with one or more objects in the PDF is syntactically incorrect.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Object Metadata
Property: Object XMP metadata is not valid
Operator: is true

Check:

Object uses resources that are inherited from the page

Comment: The Resources dictionary contains all resources that are required by any content streams, Form XObjects, patterns or Type 3 fonts. If the Resources dictionary is missing the resources may be inherited from the Resources dictionary of the page on which they are used. Some PDF based ISO standards require that the Resources dictionary is present and that resources are not inherited from the Resources dictionary on the page level.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Page description
Property: Resources dictionary is inherited
Operator: is true

Check:

Optional content configuration dictionary has AS entry

Comment: An AS entry in an optional content configuration dictionary (OCCD) specifies the display of layers based on external factors like current system language or viewing magnification. Some PDF-based ISO standards prohibit the use of this entry.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Layers
Property: Optional content configuration has AS entry
Operator: is true

Check:

Optional content configuration dictionary has no Name entry

Comment: The name entry of an optional content configuration dictionary (OCCD) is used to identify the respective view state. Some PDF-based ISO standards (namely PDF/X-4) require that each OCCD has a name entry which is unique throughout the PDF.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Layers

Property: Optional content configuration dictionary has Name entry

Operator: is not true

Check:

Optional content configuration dictionary name is not unique

Comment: The name entry of an optional content configuration dictionary (OCCD) is used to identify the respective view state. Some PDF-based ISO standards (namely PDF/X-4) require that each OCCD has a name entry which is unique throughout the PDF.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Layers

Property: Optional content configuration dictionary name is unique

Operator: is not true

Check:

OutputIntent uses a referenced destination profile

Comment: The PDF files has an OutputIntent and does reference an ICC profile not embedded into the PDF file. This is not allowed in some PDF-based ISO standards.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Output Intents for PDF/X

Property: OutputIntent has DestOutputProfileRef entry

Operator: is true

Check:

Overprint mode (OPM) used for ICCbased CMYK object

Comment: Overprint mode (OPM) is on (1) for an overprinting object using ICCbased CMYK color space. This may lead to unpredictable rendering and is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Is Illustrator overprint mode

Operator: is true

Condition

Group: Colors

Property: Uses ICCbased CMYK

Operator: is true

Condition

Group: Graphic state properties for fill

Property: Is overprint enabled for fill

Operator: is true

Check:

Overprint mode (OPM) used for ICCbased CMYK object (stroked)

Comment: Overprint mode (OPM) is on (1) for an overprinting stroked object using ICCbased CMYK color space. This may lead to unpredictable rendering and is prohibited by some PDF based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Is Illustrator overprint mode

Operator: is true

Condition

Group: Colors

Property: Uses ICCbased CMYK

Operator: is true

Condition

Group: Graphic state properties for stroke

Property: Is overprint enabled for stroke

Operator: is true

Check:

PDF version number in file header below 1.0

Comment: Some PDF based ISO standards require that the version number in the PDF header is between 1.0 and 1.7

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document
Property: PDF format version
Operator: less than
Number: "1.0"
Tolerance: ""

Check:

PDF version number in file header greater than 1.7

Comment: Some PDF based ISO standards require that the version number in the PDF header is between 1.0 and 1.7

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document
Property: PDF format version
Operator: greater than
Number: "1.7"
Tolerance: ""

Check:

PDF/A entry missing

Comment: The document's XMP Metadata does not contain a PDF/A entry, or the PDF/A entry is not stored under the correct namespace URI which must be "http://www.aiim.org/pdfa/ns/id/" (including the trailing slash).

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document
Property: Has PDF/A entry
Operator: is not true

Check:

Page contains additional actions (AA)

Comment: Actions in a PDF file are often used to add interactivity. They are prohibited in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Pages
Property: Has additional actions
Operator: is true

Check:

Page does not have Resources dictionary

Comment: The Resources dictionary contains all resources that are required by a page. Some PDF based ISO standards require that the Resources dictionary is present on every page.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages
Property: Resources dictionary is missing
Operator: is true

Check:

Page has PresSteps defined

Comment: PresSteps allow for navigating not only between pages but also between different states of the same page. This entry is intended for interactive viewers and is not permitted in some PDF based ISO standards.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages
Property: Page has PresSteps entry
Operator: is true

Check:

Permissions dictionary has key other than DocMDP and UR3

Comment: Some PDF based ISO standards prohibit the use of keys other than DocMDP or UR3 in a document's permissions dictionary.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Signatures
Property: Permissions dictionary has key other than DocMDP and UR3

Operator: is true

Check:

PostScript embedded (PostScript FormXObject)

Comment: Page description contains embedded PostScript (PostScript FormXObject)

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Embedded PostScript

Property: Uses PostScript FormXObject

Operator: is true

Check:

PostScript embedded (XObject)

Comment: Embedded PostScript is not allowed in some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Embedded PostScript

Property: Uses PostScript XObject

Operator: is true

Check:

PostScript operator embedded

Comment: Embedded PostScript is not allowed PDF in some based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Embedded PostScript

Property: Uses PostScript operator

Operator: is true

Check:

RGB used but PDF/A OutputIntent not RGB

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors

Property: Is DeviceRGB

Operator: is true

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: does not contain

Text: "RGB"

Check:

RGB used for alt. color but PDF/A OutputIntent not RGB

Comment: Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Colors

Property: Alternate base color space name

Operator: equal to

Text: "DeviceRGB"

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: does not contain

Text: "RGB"

Check:

RGB used in blending color space of transparent object but PDF/A OutputIntent not RGB

Comment: The blending color space defines the color space that is used for rendering transparent objects. Use of DeviceRGB is prohibited by PDF/A if the OutputIntent does not contain an RGB destination profile.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Blending color space

Operator: contains

Text: "RGB"

Condition

Group: General Graphic state properties

Property: Blending color space is device independent

Operator: is not true

Condition

Group: Output Intent for PDF/A (ICC profile properties)

Property: Color space of data

Operator: does not contain

Text: "RGB"

Check:

Signature dictionary has no SubFilter entry

Comment: Signature dictionary has no SubFilter entry

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Signatures

Property: Signature dictionary has SubFilter entry

Operator: is not true

Check:

Signature reference dictionary has DigestLocation entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestLocation entry in conjunction with DocMDP.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Signatures

Property: Permissions dictionary has DocMDP entry

Operator: is true

Condition

Group: Signatures

Property: Signature reference dictionary has DigestLocation entry

Operator: is true

Check:

Signature reference dictionary has DigestMethod entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestMethod entry in conjunction with DocMDP.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Signatures

Property: Permissions dictionary has DocMDP entry

Operator: is true

Condition

Group: Signatures

Property: Signature reference dictionary has DigestMethod entry

Operator: is true

Check:

Signature reference dictionary has DigestValue entry and permissions dictionary has DocMDP entry

Comment: Some PDF based ISO standards prohibit the use of the deprecated DigestValue entry in conjunction with DocMDP.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Signatures

Property: Permissions dictionary has DocMDP entry

Operator: is true

Condition

Group: Signatures

Property: Signature reference dictionary has DigestValue entry

Operator: is true

Check:

Spot color name is not a valid UTF-8 string

Comment: Some PDF-based ISO standards require that all spot color names are internally encoded according to the UTF-8 standard. (This is a recommendation in the PDF specification which is made normative by the ISO standard.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Colors

Property: Spot color name is UTF-8 encoded

Operator: is not true

Check:

Spot color representations are inconsistent

Comment: A spot color uses different representations throughout the PDF. This may lead to unpredictable results if the spot color is converted to CMYK (or RGB). Some PDF-based ISO standards require that the representations are consistent.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Spot color representations are inconsistent

Operator: is true

Check:

Stream object contains F entry

Comment: The F key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: A stream object contains F entry

Operator: is true

Check:

Stream object contains FDecodeParams entry

Comment: The FDecodeParams key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: A stream object contains FDecodeParams entry

Operator: is true

Check:

Stream object contains FFilter entry

Comment: The FFilter key is used to point to document content external to the file. It's use is prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Document

Property: A stream object contains FFilter entry

Operator: is true

Check:

Stream object uses Crypt filter with a name other than "Identity"

Comment: Some PDF based ISO standards only allow "Identity" as the name in a Crypt filter.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Name key in decode parameters dictionary of Crypt filter

Operator: unequal to

Text: "Identity"

Check:

Structure type name is not a valid UTF-8 string

Comment: Some PDF based ISO standards require that all structure type names are UTF-8 encoded.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Structured PDF

Property: Structure type name is UTF-8 encoded

Operator: is not true

Check:

Syntax problem: Cross reference subsection not properly separated

Comment: The cross-reference section does not properly begin with the keyword "xref" followed by a single EOL marker followed by one or more cross-reference subsections. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: Cross reference subsection not separated by a single EOL marker

Operator: is true

Check:**Syntax problem: Indirect object has object number not preceded by an EOL marker**

Comment: In an indirect object the object number is not accurately preceded by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object has object number not preceded by an EOL marker

Operator: is true

Check:**Syntax problem: Indirect object uses improper separation (object and generation number)**

Comment: An indirect object uses improper separation between object number and generation number. These numbers must be separated by a single white-space character. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object uses improper separation between object number and generation number

Operator: is true

Check:**Syntax problem: Indirect object uses improper separation ("obj" keyword and generation number)**

Comment: An indirect object uses improper separation between the keyword "obj" and the generation number, which must be separated by a single white-space character. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object uses improper separation between obj keyword and generation number

Operator: is true

Check:**Syntax problem: Indirect object "endobj" keyword not preceded by an EOL marker**

Comment: In an indirect object the keyword "endobj" is not accurately preceded by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object "endobj" keyword not preceded by an EOL marker

Operator: is true

Check:**Syntax problem: Indirect object "obj" keyword not followed by an EOL marker**

Comment: In an indirect object the keyword "obj" is not accurately followed by an EOL marker. This is explicitly prohibited by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Indirect object "obj" keyword not followed by an EOL marker

Operator: is true

Check:**Syntax problem: PDF contains data after end of file marker**

Comment: PDF/A requires that a PDF file does not contain any data after the last end of file marker.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document

Property: PDF file contains data after the end-of-file marker

Operator: is true

Check:**Syntax problem: Stream dictionary has improper length entry**

Comment: PDF-based ISO standards require that the length of a stream object is always exactly defined. This requirement removes potential ambiguity regarding the ending of stream content.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Stream dictionary has invalid length entry

Operator: is true

Check:**Syntax problem: Stream dictionary improperly formatted**

Comment: A stream object is not properly formatted. A stream object must contain the keyword "stream" followed by an optional carriage return (0Dh) followed by a single line feed (0Ah). It must also contain the keyword "endstream" preceded by an EOL marker. This is explicitly required by some PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Stream dictionary improperly formatted

Operator: is true

Check:**Syntax problem: String object invalid (odd number of hexadecimal characters)**

Comment: A hexadecimal string requires two digits for each byte of the string and an odd number of (non-white-space) characters indicates that one digit is missing. This is not prohibited in a PDF file (missing characters may be replaced with "0"). However, in order to ensure predictable results it is prohibited by PDF-based ISO standards.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Hexadecimal string has even number of non-white-space characters

Operator: is not true

Check:**Syntax problem: String object invalid (prohibited characters in a hexadecimal string)**

Comment: A hexadecimal string uses characters not in the permitted range 0 to 9, A to F or a to f. This is prohibited in PDF files.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Document

Property: Hexadecimal string contains invalid character

Operator: is true

Check:**Syntax problem: Unknown operator in page description**

Comment: This condition filters for operators that are not defined in the PDF specification and almost always will cause errors.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Page description

Property: Unknown operator in PDF 1.3 through PDF 1.6

Operator: is true

Check:**TR2 entry used with value other than Default**

Comment: Some PDF-based ISO standards prohibit the use of the transfer curve entry TR2 with any value other than Default.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Has TR2 entry

Operator: is true

Condition

Group: General Graphic state properties

Property: Has TR2 entry with a value of Default

Operator: is not true

Check:

Transfer curve used

Comment: Transfer curves are prohibited in some PDF-based ISO standards. Use Acrobat Distiller 5's "Apply transfer curves" to avoid transfer curves in PDF files without compromising page contents.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: Has transfer function

Operator: is true

Condition

Group: General Graphic state properties

Property: Has TR2 entry

Operator: is not true

Check:**Transfer function in halftone dictionary improperly used**

Comment: PDF-based ISO standards prohibit the use of transfer functions in halftone dictionaries if not explicitly required by the PDF specification for the respective halftone type. (If the halftone dictionary is a component of a type 5 halftone and represents either a non primary or nonstandard primary color component a transfer function is required.)

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: General Graphic state properties

Property: TransferFunction in halftone dictionary not required by PDF reference

Operator: is true

Check:**Transparency group on page level without color space entry and no PDF/A OutputIntent present**

Comment: Some PDF based ISO standards require that for all page objects that use transparency a transparency group entry with an CS (color space) entry is in effect if no PDF/A OutputIntent is present.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Output intents for PDF/A

Property: Has Output Intent

Operator: is not true

Condition

Group: General Graphic state properties

Property: Has transparency

Operator: is true

Condition

Group: Pages

Property: Transparency group has a CS (color space) entry

Operator: is not true

Condition

Group: Pages

Property: Page is a transparency group

Operator: is true

Check:**TrueType font has Differences array but does not contain a Microsoft Unicode encoding**

Comment: Some PDF based ISO standards require that a TrueType font does not define a Differences array unless all glyph names in this array are listed in the Adobe Glyph List and the embedded font program contains at least the Microsoft Unicode (3,1) encoding.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font has Differences array

Operator: is true

Condition

Group: Font

Property: All glyph names in Differences array are listed in Adobe Glyph List

Operator: is true

Condition

Group: Font

Property: Embedded font contains character encoding for Microsoft Unicode (3.1)

Operator: is not true

Check:

TrueType font has Differences array with glyph names that are not listed in Adobe Glyph list

Comment: Some PDF based ISO standards require that a TrueType font does not define a Differences array unless all glyph names in this array are listed in the Adobe Glyph List.

Analyze: Page contents Appearance of annotations Appearance of form fields Soft masks Embedded files

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font has Differences array

Operator: is true

Condition

Group: Font

Property: All glyph names in Differences array are listed in Adobe Glyph List

Operator: is not true

Check:**Type 2 CID font: CIDToGIDMap invalid or missing**

Comment: Some PDF-based ISO standards require that a Type 2 CIDFont has a stream mapping from CIDs to glyph indices or the name Identity as its value.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font

Property: CIDFont dictionary contains a CIDToGIDMap with a stream or the name Identity

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:**Width information for rendered glyphs is inconsistent**

Comment: Some PDF-based ISO standards require that the glyph widths in the font dictionary and the glyph widths in the embedded font are consistent.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font

Property: Glyph width info in PDF matches width info in embedded font

Operator: is not true

Condition

Group: Text

Property: Text rendering mode

Operator: unequal to

Number: "3"

Tolerance: "0"

Check:**Wrong encoding for non-symbolic TrueType font**

Comment: Some PDF-based ISO standards require that non-symbolic TrueType fonts use MacRomanEncoding or WinAnsiEncoding.

Analyze: Page contents Appearance of annotations Appearance of form fields Embedded files

Severity: Error

Condition

Group: Font

Property: Non-symbolic TrueType font specifies MacRomanEncoding or WinAnsiEncoding

Operator: is not true

Check:**XMP History entry has no "action" field**

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "action" field defines the action that occurred. Defined values are: converted, copied, created, cropped, edited, filtered, formatted, version_updated, printed, published, managed, produced, resized. Other values may be used. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: XMP History entry has "action" field

Operator: is not true

Check:**XMP History entry has no "parameters" field**

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "parameters" field contains some additional description of an action. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: XMP History entry has "parameters" field

Operator: is not true

Check:**XMP History entry has no "when" field**

Comment: The XMP History entry contains a high-level list of user actions that resulted in the respective PDF. The "when" field contains a timestamp of when an action occurred. Some PDF based ISO standards require that this entry is present in all XMP History entries.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: XMP History entry has "when" field

Operator: is not true

Check:**XMP PDF/A extension schema container schema does not use 'pdfaExtension' prefix**

Comment: The PDF/A standard requires that an XMP schema that is used for an extension schema uses the namespace prefix 'pdfaExtension' and the namespace URI <http://www.aiim.org/pdfa/ns/extension/>.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Metadata namespace for PDF/A extension schema container schema uses 'pdfaExtension' prefix

Operator: is not true

Check:**XMP PDF/A identification schema does not use 'pdfaid' prefix**

Comment: The PDF/A standard requires that the XMP schema that is used for identification of a PDF file as conforming to the standard uses the namespace prefix 'pdfaid' and the namespace URI <http://www.aiim.org/pdfa/ns/id#>.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Metadata namespace for PDF/A Identification schema uses 'pdfaid' prefix

Operator: is not true

Check:**XMP for a page object uses deprecated attribute: "bytes"**

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata

Property: XMP metadata uses bytes attribute

Operator: is true

Check:**XMP for a page object uses deprecated attribute: "encoding"**

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata

Property: XMP metadata uses encoding attribute

Operator: is true

Check:**XMP for a page uses deprecated attribute: "bytes"**

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: XMP metadata uses bytes attribute

Operator: is true

Check:

XMP for a page uses deprecated attribute: "encoding"

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: XMP metadata uses encoding attribute

Operator: is true

Check:

XMP property does not match definitions of the extension schema (XMP 2005)

Comment: An XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Document Metadata

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is true

Condition

Group: Document Metadata

Property: Property is defined in extension schema

Operator: is true

Check:

XMP property for page does not match definitions of the extension schema (XMP 2005)

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Pages

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is true

Condition

Group: Pages

Property: Property is defined in extension schema

Operator: is true

Check:**XMP property for page is predefined but not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property of a page is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: Predefined XMP property in PDF/A-2 standard matches definition

Operator: is not true

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is true

Check:**XMP property for page neither predefined nor defined in extension schema (XMP 2005)**

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Pages

Property: Property is defined in extension schema

Operator: is not true

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is not true

Check:**XMP property for page not predefined and no extension schema present (XMP 2005)**

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Pages

Property: Extension schema is present in XMP

Operator: is not true

Condition

Group: Pages

Property: Property exists in PDF/A-2 standard

Operator: is not true

Check:**XMP property for page object does not match definitions of the extension schema (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but the property is not used in accordance with the definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema and used accordingly.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Object Metadata

Property: Property matches definition in extension schema

Operator: is not true

Condition

Group: Object Metadata
Property: Extension schema is present in XMP
Operator: is true

Condition

Group: Object Metadata
Property: Property is defined in extension schema
Operator: is true

Check:**XMP property for page object is predefined but not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property of a page object is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata
Property: Predefined XMP property in PDF/A-2 standard matches definition
Operator: is not true

Condition

Group: Object Metadata
Property: Property exists in PDF/A-2 standard
Operator: is true

Check:**XMP property for page object neither predefined nor defined in extension schema (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata
Property: Property exists in PDF/A-2 standard
Operator: is not true

Condition

Group: Object Metadata
Property: Property is defined in extension schema
Operator: is not true

Condition

Group: Object Metadata
Property: Extension schema is present in XMP
Operator: is true

Check:**XMP property for page object not predefined and no extension schema present (XMP 2005)**

Comment: In XMP metadata for a page object, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Object Metadata
Property: Extension schema is present in XMP
Operator: is not true

Condition

Group: Object Metadata
Property: Property exists in PDF/A-2 standard
Operator: is not true

Check:**XMP property is predefined but is not used in accordance with the definition (XMP 2005)**

Comment: An XMP Metadata property is used that is defined in the XMP specification from 2005, that is relevant for the ISO PDF/A-2 standard and other ISO standards. However, the property is not used in accordance with its definition in this XMP specification.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Predefined XMP property in PDF/A-2 standard matches definition

Operator: is not true

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is true

Check:

XMP property neither predefined nor defined in extension schema (XMP 2005)

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005. There is an XMP extension schema present in the PDF but it does not contain a definition for this property. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Condition

Group: Document Metadata

Property: Property is defined in extension schema

Operator: is not true

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is true

Check:

XMP property not predefined and no extension schema present (XMP 2005)

Comment: In XMP metadata for a page, an XMP metadata property is used, which is not predefined in the XMP specification dated September 2005, and there is no XMP extension schema present in the PDF. Some PDF based ISO standards require that all XMP metadata properties are either predefined or defined in an embedded extension schema.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: Extension schema is present in XMP

Operator: is not true

Condition

Group: Document Metadata

Property: Property exists in PDF/A-2 standard

Operator: is not true

Check:

XMP uses deprecated attribute: "bytes"

Comment: The "bytes" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: XMP metadata uses bytes attribute

Operator: is true

Check:

XMP uses deprecated attribute: "encoding"

Comment: The "encoding" attribute is deprecated in the XMP Specification of June 2005. Some PDF-based ISO standards prohibit the use of this attribute.

Analyze: Page contents Embedded files

Severity: Error

Condition

Group: Document Metadata

Property: XMP metadata uses encoding attribute

Operator: is true

Fixups:

None