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 (ASCIIHexDecode 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: Alternate image type of compression filter
       Operator: is not contained in list
       "ASCIIHexDecode"
       "AHx"
       "ASCII85Decode"
       "A85"
       "FlateDecode"
       "Fl"
       "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)

   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

        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.

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

**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

      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

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

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

    **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:**

**Profile summary for "Verify compliance with PDF/A-2a"**
Last modified: Wednesday 5 June 2013 at 19:08, Summary created by olaf on ole

**Page**
**10**

**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 (ASCIIHexDecode 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
"ASCIIHexDecode"
"AHx"
"ASCII85Decode"
"A85"
"FlateDecode"
"Fl"
"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

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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.

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**15**

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 'mntr' (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
>> "mntr"
>> "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.

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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 (ASCIIHexDecode 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
>> "ASCIIHexDecode"
>> "AHx"
>> "ASCII85Decode"
>> "A85"
>> "FlateDecode"
>> "Fl"
>> "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: ""

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**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"

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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  Current file
Severity: Error
**Condition**
Group: Document
Property: Number of indirect objects
Operator: greater than
Number: "8388607"
Tolerance: ""
**Check:**
**Implementation limit: Name object with a length greater than 127 byte**
Comment: PDF-based ISO standards require that the length of a name object in a PDF is at least 1 byte and at most 127 bytes.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
Severity: Error
**Condition**
Group: Document
Property: Length of name object
Operator: greater than
Number: "127"
Tolerance: ""
**Check:**
**Implementation limit: Number of colorants for DeviceN too high**
Comment: Some PDF based ISO standards limit the maximum number of colorants in a DeviceN color space to 32.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Current file
Severity: Error
**Condition**
Group: Colors
Property: Number of components
Operator: greater than
Number: "32"
Tolerance: "0"
**Check:**
**Implementation limit: Real value out of range (negative value too close to zero)**
Comment: Some PDF based ISO standards require that real values in a PDF do not fall into the range of +/- 1.175 x 10**-38.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
Severity: Error
**Condition**
Group: Document
Property: Real number closest to zero (negative) used
Operator: greater than
Number: "-0.00000000000000000000000000000000001175"
Tolerance: ""
**Check:**
**Implementation limit: Real value out of range (positive value too close to zero)**
Comment: Some PDF based ISO standards require that real values in a PDF do not fall into the range of +/- 1.175 x 10**-38.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
Severity: Error
**Condition**
Group: Document
Property: Real number closest to zero (positive) used
Operator: less than
Number: "0.00000000000000000000000000000000001175"
Tolerance: ""
**Check:**
**Implementation limit: Real value out of range (too high)**
Comment: Some PDF based ISO standards require that real values in a PDF do not exceed the range of: +/- 3.403 x 10**38.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
Severity: Error
**Condition**
Group: Document
Property: Largest positive real number used
Operator: greater than
Number: "340300000000000000000000000000000000000000"

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**Page**
**22**

    Tolerance: ""
**Check:**
  **Implementation limit: Real value out of range (too low)**
  Comment: Some PDF based ISO standards require that real values in a PDF do not exceed the range of: +/- 3.403 x 10**38.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
  Severity: Error
    **Condition**
      Group: Document
      Property: Largest negative real number used
      Operator: less than
      Number: "-34030000000000000000000000000000000000"
      Tolerance: ""
**Check:**
  **Implementation limit: String too long**
  Comment: Some PDF based ISO standards require that the maximum length for strings must not exceed 32767 bytes.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Current file
  Severity: Error
    **Condition**
      Group: Document
      Property: Longest string used
      Operator: greater than
      Number: "32767"
      Tolerance: ""
**Check:**
  **Implementation limit: Width 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 width (default user space)
      Operator: less than
      Number: "3"
      Tolerance: ""
    **Condition**
      Group: Pages
      Property: Has ArtBox
      Operator: is true
**Check:**
  **Implementation limit: Width 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 width (default user space)
      Operator: greater than
      Number: "14400"
      Tolerance: ""
    **Condition**
      Group: Pages
      Property: Has ArtBox
      Operator: is true
**Check:**
  **Implementation limit: Width 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 width (default user space)
      Operator: less than
      Number: "3"

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**

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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**

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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

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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 Form XObject)

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 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  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

**Profile summary for "Verify compliance with PDF/A-2a"**
Last modified: Wednesday 5 June 2013 at 19:08, Summary created by olaf on ole

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**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 Actual Text 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

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**40**

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

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**Page
41**

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

**PDF document is not compliant with PDF/A-2b**

**Profile summary for "Verify compliance with PDF/A-2a"**
Last modified: Wednesday 5 June 2013 at 19:08, Summary created by olaf on ole

**Page**
**47**

**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"
>> "Fl"
>> "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"
"Fl"
"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 'mntr' (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

"mntr"
"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), 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: Type of compression filter
>> Operator: is not contained in list
>> "ASCIIHexDecode"
>> "AHx"
>> "ASCII85Decode"
>> "A85"
>> "FlateDecode"
>> "Fl"
>> "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

      Property: Number of indirect objects
      Operator: greater than
      Number: "8388607"
      Tolerance: ""

**Check:**

  **Implementation limit: Name object with a length greater than 127 byte**
  Comment: PDF-based ISO standards require that the length of a name object in a PDF is at least 1 byte and at most 127 bytes.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
  Severity: Error

    **Condition**

      Group: Document
      Property: Length of name object
      Operator: greater than
      Number: "127"
      Tolerance: ""

**Check:**

  **Implementation limit: Number of colorants for DeviceN too high**
  Comment: Some PDF based ISO standards limit the maximum number of colorants in a DeviceN color space to 32.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Embedded files
  Severity: Error

    **Condition**

      Group: Colors
      Property: Number of components
      Operator: greater than
      Number: "32"
      Tolerance: "0"

**Check:**

  **Implementation limit: Real value out of range (negative value too close to zero)**
  Comment: Some PDF based ISO standards require that real values in a PDF do not fall into the range of +/- 1.175 x 10**-38.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
  Severity: Error

    **Condition**

      Group: Document
      Property: Real number closest to zero (negative) used
      Operator: greater than
      Number: "-0.000000000000000000000000000000000001175"
      Tolerance: ""

**Check:**

  **Implementation limit: Real value out of range (positive value too close to zero)**
  Comment: Some PDF based ISO standards require that real values in a PDF do not fall into the range of +/- 1.175 x 10**-38.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
  Severity: Error

    **Condition**

      Group: Document
      Property: Real number closest to zero (positive) used
      Operator: less than
      Number: "0.000000000000000000000000000000000001175"
      Tolerance: ""

**Check:**

  **Implementation limit: Real value out of range (too high)**
  Comment: Some PDF based ISO standards require that real values in a PDF do not exceed the range of: +/- 3.403 x 10**38.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
  Severity: Error

    **Condition**

      Group: Document
      Property: Largest positive real number used
      Operator: greater than
      Number: "34030000000000000000000000000000000000"
      Tolerance: ""

**Check:**

  **Implementation limit: Real value out of range (too low)**
  Comment: Some PDF based ISO standards require that real values in a PDF do not exceed the range of: +/- 3.403 x 10**38.
  Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
  Severity: Error

    **Condition**

      Group: Document

Property: Largest negative real number used
Operator: less than
Number: "-3403000000000000000000000000000000000000"
Tolerance: ""

**Check:**

**Implementation limit: String too long**
Comment: Some PDF based ISO standards require that the maximum length for strings must not exceed 32767 bytes.
Analyze: Page contents  Appearance of annotations  Appearance of form fields  Soft masks  Embedded files
Severity: Error

> **Condition**
> Group: Document
> Property: Longest string used
> Operator: greater than
> Number: "32767"
> Tolerance: ""

**Check:**

**Implementation limit: Width 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 width (default user space)
> Operator: less than
> Number: "3"
> Tolerance: ""
> **Condition**
> Group: Pages
> Property: Has ArtBox
> Operator: is true

**Check:**

**Implementation limit: Width 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 width (default user space)
> Operator: greater than
> Number: "14400"
> Tolerance: ""
> **Condition**
> Group: Pages
> Property: Has ArtBox
> Operator: is true

**Check:**

**Implementation limit: Width 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 width (default user space)
> Operator: less than
> Number: "3"
> 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  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

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       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 form 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

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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

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Operator: is true

**Check:**

**PostScript embedded (PostScript Form XObject)**
Comment: Page description contains embedded PostScript (PostScript Form XObject)
Analyze: Page contents  Embedded files
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  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**