

# PDFX-ready Output-Test V3.0

Für die Zertifizierungen dürfen nur personalisierte Testformen verwendet werden!

## Zweck

Mit dieser Form kann getestet werden, ob ein Ausgabe-Workflow **PDF/X-4**-kompatibel ist. Sie enthält kritische Elemente, die grundsätzlich alle in **PDF/X-4**-Dateien zugelassen sind. Sie ist aber nicht PDFX-ready-konform, da zur Fehlerdarstellung teilweise extreme Definitionen verwendet werden.

## Vorgehen

Diese Testdatei soll genauso verarbeitet werden, wie eine normal angelieferte **PDF/X-4**-Datei. Die A4-Seiten sollen zu einer Form (mit Berücksichtigung der TrimBox) ausgeschnitten resp. in einem Umbruch (ohne Beschnitt) platziert werden. Achtung: unterschiedliche Beschnittswerte bei jeder Seitenkante!

**1** **GWG 6.0 - Use of shadings**

shading type 7 reference image a  
shading type 2 reference image c  
shading type 3 reference image b  
shading type 7 reference image d

The shadings should look like the reference image

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**2** **GWG 6.1 - Use of shadings**

shading type 3 reference image a  
shading type 2 reference image c  
shading type 2 reference image b  
shading type 3 reference image d

The shadings should look like the reference image

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**3** **GWG 1.1 - CMYK Overprint Mode**

OPM 0  
Rect (overpr) 0 / 0 / 10 / 50  
Cross 90 / 10 / 90 / 0

OPM 1  
Cross (overpr) 90 / 10 / 90 / 0  
Cross 0 / 0 / 10 / 50  
Rect 90 / 10 / 10 / 50

If an X appears the Overprint Mode (OPM) is not respected.

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**4** **GWG 1.0 - CMYK Overprint Test**

OPM 0  
font a  
vector b  
image c  
mask d  
shading e

OPM 1  
font f  
vector g  
image h  
mask i  
shading j

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**5** **GWG 19.0 – DeviceN Overprint (Black)**

OP is true for all topmost elements.

a: Vector  
b: Image  
c: Vector  
d: Image

Cyan (DeviceN - 100C)  
CMYK Black

a + b: must be rendered to solid Black (100C100K) rectangles  
A faint X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: X means, that 0% Channels might have been ignored or color was converted

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**6** **GWG 19.1 – DeviceN Overprint (Yellow)**

a: Vector  
b: Image  
c: Vector  
d: Image

Cross: Cyan (DeviceN - 100C)  
Overprinting: 0COM100Y0K  
Reference: 100COM100Y0K (Green)

Cross: Cyan (DeviceN - 100COY)  
Overprinting: 0COM100Y0K  
Reference: 100COM100Y0K (Green)

a + b: must be rendered to solid Green rectangles  
Cyan X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid Cyan rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: colored X means, that 0% Channels might have been ignored or color was converted

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**7** **GWG 19.2 – DeviceN Overprint (White)**

OP is true for all topmost elements.

a: Vector  
b: Image  
c: Vector  
d: Image

White (DeviceN - 0K)  
CMYK RED (100M100Y)

a + b: must be rendered to solid Red rectangles  
White X means, that OP is not honored (or image was converted to DeviceCMYK for b)

c + d: must be rendered to solid White rectangles

c: X means, that color space might have been converted to DeviceCMYK upfront (OPM 1)

d: colored X means, that 0% Channels might have been ignored or color was converted

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**8** **GWG 8.2 - DeviceN Support (4 colors)**

Duotone (Black and Cyan)  
Grayscale TIFF with Cyan background

If a check mark ✓ is visible in the upper right corner then DeviceN is respected (= GOOD).  
If no check mark appears then DeviceN color was transformed to CMYK (= ERROR).  
If the images are missing completely then DeviceN is not supported at all (= ERROR).

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## Native Transparenzverarbeitung mit PDF-RIP

Diese PDF/X-4-Datei enthält Transparenzen. Mit Vorteil wird für die Ausgabe ein PDF-RIP (z.B. Adobe PDF Print Engine oder Harlequin-RIP) verwendet. Dabei muss darauf geachtet werden, dass im vorgelagerten Workflow die Transparenzen erhalten bleiben und nativ an den RIP übergeben werden, damit sie dort verarbeitet werden können.

**GWG 16.0 - Transparency Basic Blend Modes (DeviceCMYK, Non-Knockout)**

Darken	Multiply	Color Burn	Lighten	Screen	Color dodge	Overlay	Soft Light

If an 'X' appears, rendering of Non-knockout Transparency Groups (a transparency effect) is not performed correctly.

PDF/X Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Non Knockout (Blend Mode Normal), TBCS*: DeviceCMYK
Source object	DeviceCMYK, using defined Blend Mode
Backdrop	DeviceCMYK

\* TBCS = Transparency Blending Color Space

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## Keine Veränderung der Überdrucken-Parameter

Sollte eine Transparenzreduktion stattfinden, muss unbedingt dafür Sorge getragen werden, dass die Überdrucken-Befehle vom Workflow nicht verändert werden, da die meisten Transparenzreduktionsmodule Überdrucken zur Simulation von Transparenzen einsetzen. Sonst erscheinen unweigerlich Kreuze.

**GWG 16.1 - Transparency Basic Blend Modes (DeviceCMYK, Knockout)**

Darken	Multiply	Color Burn	Lighten	Screen	Color dodge	Overlay	Soft Light

If an 'X' appears, rendering of Knockout Transparency Groups (a transparency effect) is not performed correctly.

PDF/X Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Knockout (Blend Mode Normal), TBCS*: DeviceCMYK
Source object	DeviceCMYK, using defined Blend Mode
Backdrop	DeviceCMYK

\* TBCS = Transparency Blending Color Space

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**GWG 16.2 - Transparency Basic Blend Modes (DeviceCMYK, Isolated)**

Darken	Multiply	Color Burn	Lighten	Screen	Color dodge	Overlay	Soft Light

If an 'X' appears, rendering of Isolated Transparency Groups (a transparency effect) is not performed correctly.

PDF/X Output Intent	ISO Coated v2 300% (ECI)
Transparency Group	Isolated (Blend Mode Normal), TBCS*: DeviceCMYK
Source object	DeviceCMYK, using defined Blend Mode
Backdrop	DeviceCMYK, using defined Blend Mode

\* TBCS = Transparency Blending Color Space

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**GWG 16.6 – Image Softmasks (DeviceCMYK)**

Actual test object	Reference Image

If a solid black contour appears at the edges of the left image, the Image Softmask (a transparency effect) is not rendered correctly.

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**GWG 16.8 – Vector Softmasks (part 1)**

Actual test objects		Reference Images		

Each of these transparency effects (vector soft masks) should match the reference images.

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**GWG 16.9 – Vector Softmasks (part 2)**

Actual test objects		Reference Images		

Each of these transparency effects (vector soft masks) should match the reference images.

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**GWG 16.10 – Text Softmasks (part 1)**

Actual test objects				
Reference Images				

Each of these transparency effects (Text Softmasks) should match the reference images.

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**GWG 16.11 – Text Softmasks (part 2)**

Actual test objects				
Reference Images				

Each of these transparency effects (Text Softmasks) should match the reference images.

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# PDFX-ready Output-Test V3.0

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## Farbqualität

Die Farbqualität spielt bei diesem Test keine Rolle! Es geht nur um die korrekte Verarbeitung der PDF/X-Definitionen. Für den Druck der Sonderfarbe GWG Green (50% Cyan, 100% Yellow) kann eine beliebige Sonderfarbe verwendet werden. Die Texte in den Testelementen erscheinen zur besseren Visualisierung in allen Auszügen.

### GWG 9.0 - Font Support

Type1 PostScript:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(NewCenturySchlbk Italic)
Expected result:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(NewCenturySchlbk Italic)
TrueType:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(BookAntiqua-BoldItalic)
Expected result:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(BookAntiqua-BoldItalic)
CID (Type1):	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(WarnockPro-BoldIt)
Expected result:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(WarnockPro-BoldIt)
CID (TrueType):	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(PalatinoLinotype BoldItalic)
Expected result:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰øþ½ð</code>	(PalatinoLinotype BoldItalic)
Multiple Master:	<code>dit is een multiple master ex punto mm dit is een multiple master ex punto mm</code>	(ExPontoMM)
Expected result:	<code>dit is een multiple master ex punto mm dit is een multiple master ex punto mm</code>	(ExPontoMM)
Type 3 Vector:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰ø\$£qABCD...XYZ</code>	(T1 / Garamond Bold)
Expected result:	<code>äöüÄÖÜáâäfifC®@DCEÆØæfjÿ‡‰ø\$£qABCD...XYZ</code>	(T1 / Garamond Bold)
Type 3 Bitmap:	<code>null fällt ein negativer Zahlungsstrom an. In den Jahren eins bis fünf (T10)</code>	
Expected result:	<code>null fällt ein negativer Zahlungsstrom an. In den Jahren eins bis fünf (T10)</code>	

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### GWG 5.1 - Font subset and substitution

	Placed EPS-file n°1 (VVLNX+Myriad-Roman)	Placed EPS-file n°2 (VVLNX+Myriad-Roman)
subsetted font	12345	45678
expected result	12345	45678

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

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### GWG 5.0 - Font Substitution



If a check mark ✓ appears above, then the embedded font is used (correct behavior). If an other character appears, the embedded font was substituted with a Symbol font installed in the system (host or RIP).

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### GWG 17.0 - JPEG2000 compression (DeviceCMYK)



No "X" must be visible when rendered correctly.

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## Referenz/Dokumentation

Die Datei **PDFX-ready\_Output-Test\_30d\_REFERENZ.pdf** enthält (gerenderte) Referenzbilder der Composite-Seiten und der einzelnen Farbseparationen. Die Testelemente (inklusive Fehlerbehebungsmöglichkeiten) sind in der Datei **PDFX-ready\_Output-Test\_30d\_DOKUMENTATION.pdf** ausführlich beschrieben.

### GWG 9.1 – OpenType Font Support

Warnock Pro Semibold – OpenType (Type 1)

äöüÄÖÜáâäfif fl©®@OEÆØæfjÿ†‰  
äöüÄÖÜáâäfif fl©®@OEÆØæfjÿ†‰

Arial Unicode MS – OpenType (TrueType)

äöüÄÖÜáâäfif fl©®@OEÆØæfjÿ†‰  
äöüÄÖÜáâäfif fl©®@OEÆØæfjÿ†‰

If the text in the line above does not look like the image in the line below an error in the rendering of the font occurred.

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### GWG 5.2 - Font subset and substitution

	Placed EPS-file n°1 (FEPUTI+Myriad-Roman)	Placed EPS-file n°2 (PGNBEO+Myriad-Roman)
subsetted font	12345	45678
expected result	12345	45678

- If all characters are correct and appear in the right order, the subset fonts have been processed correctly.
- If some characters do not appear or display in the wrong order, incorrect handling of subset fonts has occurred.

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### GWG 18.1 - 16Bit Image (DeviceCMYK)



No "X" must be visible when rendered correctly.

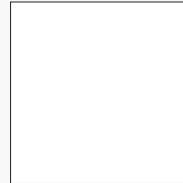
Reference image (cross): 8Bit, ZIP  
Test image: 16 Bit, ZIP

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### GWG 17.3 - JBIG2 compression



Black



White

No "X" must be visible when rendered correctly.

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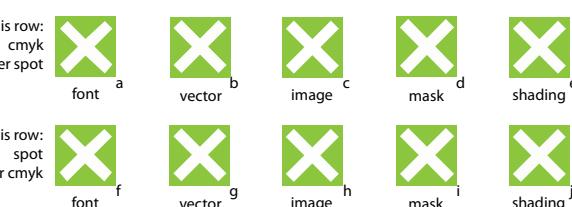
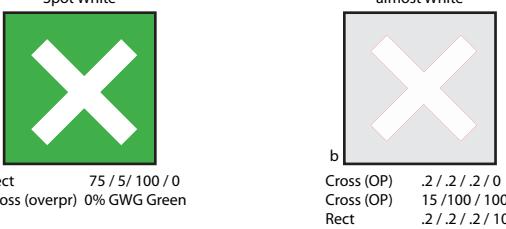
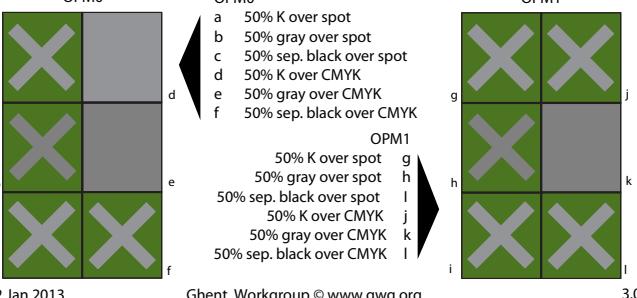
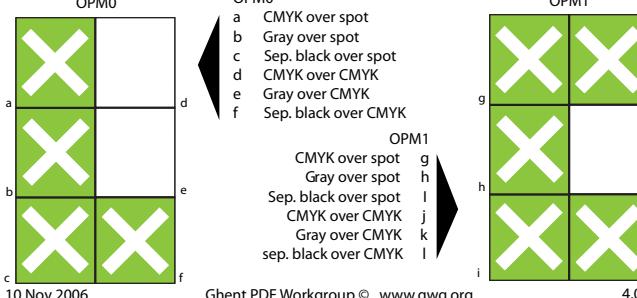
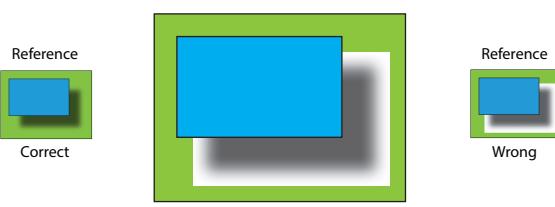
## Rechtliche Bestimmungen

Die nicht-personalisierte Testdatei darf frei verwendet und weitergegeben werden. Aber sie darf nicht verändert werden! Die rechtlichen Bestimmungen in der ReadMe-Datei der Ghent PDF Output Suite 4.0 sind zu beachten.

## Copyright

Das Copyright an diesen Seiten gehört der Ghent PDF Workgroup (<http://www.gwg.org>) und PDFX-ready Schweiz (<http://www.pdfx-ready.ch>). Außerdem gelten die allgemeinen Geschäftsbedingungen (AGB) von PDFX-ready.

**Fragen und Anregungen:** Bitte senden Sie Ihre Fragen und Anregungen an [info@pdfx-ready.ch](mailto:info@pdfx-ready.ch).

<p><b>25</b> <b>GWG 2.0 - Spot to CMYK Overprint</b></p>  <p>this row: cmyk over spot font a vector b image c mask d shading e</p> <p>this row: spot over cmyk font f vector g image h mask i shading j</p> <p>27 Nov 2005      Ghent PDF Workgroup © www.gwg.org      2.0</p>	<p><b>26</b> <b>GWG 4.1 - White Overprint Mode</b></p>  <p>Spot White almost White</p> <p>a Rect .2/.2/.2/.0 Cross (OP) 75/5 100/0 Cross (OP) 15/100/100/0 Rect .2/.2/.2/.10</p> <p>If a visible X appears, the "Overprinting White" is not handled.</p> <p>8 Apr 2008      Ghent PDF Workgroup © www.gwg.org      4.1</p>																		
<p><b>27</b> <b>GWG 3.0 - Gray Overprint Patch</b></p>  <p>OPM0 OPM1 OPM1</p> <p>a 50% K over spot b 50% gray over spot c 50% sep. black over spot d 50% K over CMYK e 50% gray over CMYK f 50% sep. black over CMYK</p> <p>g 50% K over spot h 50% gray over spot i 50% sep. black over spot j 50% K over CMYK k 50% gray over CMYK l 50% sep. black over CMYK</p> <p>02 Jan 2013      Ghent Workgroup © www.gwg.org      3.0</p>	<p><b>28</b> <b>GWG 4.0.1 - White Overprint Patch</b></p>  <p>OPM0 OPM1 OPM1</p> <p>a CMYK over spot b Gray over spot c Sep. black over spot d CMYK over CMYK e Gray over CMYK f Sep. black over CMYK</p> <p>g CMYK over spot h Gray over spot i Sep. black over spot j CMYK over CMYK k Gray over CMYK l sep. black over CMYK</p> <p>10 Nov 2006      Ghent PDF Workgroup © www.gwg.org      4.0.1</p>																		
<p><b>29</b> <b>GWG 3.1 - Gray Image Overprint (CMYK over Spot)</b></p> <p>During flattening (in InDesign or Acrobat) of drop shadows over spot colors overprinting grayscale images with a white background are created.</p>  <p>Reference Correct Wrong</p> <p>Overprinting must be honored for the output.</p> <p>21 Jan 2013      Ghent Workgroup © www.gwg.org      3.1</p>	<p><b>30</b> <b>GWG 12.0 - White Overprint/Knockout</b></p> <table border="1"> <thead> <tr> <th colspan="3">Overprint</th> <th colspan="3">Knockout</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CMYK</td> <td>Spot</td> <td>Vector</td> <td>Text big</td> <td>Text 6pt</td> <td>Text 6pt</td> </tr> </tbody> </table> <p>If filled X appear the Overprint settings were not respected.</p> <p>If filled X appear the Knockout settings were not respected.</p> <p>29 Aug 2013      Ghent Workgroup © www.gwg.org      12.0</p>	Overprint			Knockout									CMYK	Spot	Vector	Text big	Text 6pt	Text 6pt
Overprint			Knockout																
CMYK	Spot	Vector	Text big	Text 6pt	Text 6pt														
<p><b>31</b> <b>GWG 8.1 - DeviceN Support (5 colors)</b></p>  <p>Duotone (should appear only in Black and GWG Green separations) Colorized TIFF (should appear only in GWG Green separation)</p> <p>Spot color gradient (should appear only in GWG Green and Cyan separations)</p> <p>If a X appears instead of the green checkmarks ✓ then DeviceN is not supported!</p> <p>20 Jan 2013      Ghent PDF Workgroup © www.gwg.org      8.1</p>	<p><b>32</b> <b>PDFX-ready Output-Zertifizierung</b></p> <p>Ein Betrieb kann mit der PDFX-ready Output-Zertifizierung beweisen, dass er mit seinem Workflow in der Lage ist, eine gültige PDF/X-4-Datei korrekt zu verarbeiten und auszugeben.</p> <p>Für die PDFX-ready Output-Zertifizierung muss eine personalisierte Version dieser Testform verwendet werden.</p> <p>PDFX-ready-Mitglieder können diese beim PDFX-ready-Sekretariat (<a href="mailto:info@pdfx-ready.ch">info@pdfx-ready.ch</a>) oder auf <a href="http://www.pdfx-ready.ch/index.php?show=380">http://www.pdfx-ready.ch/index.php?show=380</a> anfordern.</p> <p>05 Oct 2012      © PDFX-ready Schweiz, <a href="http://www.pdfx-ready.ch">http://www.pdfx-ready.ch</a>      0.0</p>																		