

1. Introduction

This document describes GWG soft-proofing ticket version 1.

The intent of this job ticket is to track:

- Who has approved the document
- What was the viewing conditions during the approval
 - o Document output conditions
 - o Software used for the approval
 - o Monitor calibration, brightness, temperature, white point

This specification document is split in two sections:

- The definition of the XMP soft-proofing ticket
- The rules to follow in the PDF for PDF/X output intent and digital signature

2. GWG Soft-Proofing ticket

The soft-proofing ticket is using XMP to store information in the document. The following sections are a list of XMP tags with their description and XMP properties. The soft-proofing ticket is not only using XMP but also the PDF/X output conditions and the PDF digital signature to track who has approved the document (see 3).

2.1. List of approval tickets

Description	A set of approval tickets. The last ticket in the last in the last ticket input.
Cardinality	Required
XMP Property	gwg-spt:ProofingApprovals
XMP Value Type	An XMP Seq container

2.2. Approval ticket description

2.2.1. Use PDF/X output conditions flag

Description	A flag that indicates that the output conditions used for proofing are exactly the one found into the PDF/X output conditions. If this flag is false, this means that the document was approved without colour management.
Cardinality	Required
XMP Property	gwg-spt:UsePDFXOutputCondition
XMP Value Type	Boolean

2.2.2. Old output condition identifier

Description	A string identifying the intended output device or production condition in human- or machine-readable form that was formerly used in PDF/X.
Cardinality	Optional
XMP Property	gwg-spt:OldOutputConditionIdentifier
XMP Value Type	String

2.2.3. Old output profile

Description	An ICC profile stream defining the transformation from the PDF document's source colors to output device colorants that was formerly used in PDF/X.
Cardinality	Optional
XMP Property	gwg-spt:OldDestOutputProfile
XMP Value Type	Stream

2.2.4. Use simulation?

Description	A flag that indicates that the document was approved using a simulation profile.
Cardinality	Required
XMP Property	gwg-spt:UseSimulation
XMP Value Type	Boolean

2.2.5. Simulation condition identifier

Description	A string identifying the simulation profile.
Cardinality	Required if UseSimulation is true
XMP Property	gwg-spt:SimulationConditionIdentifier
XMP Value Type	String

2.2.6. Simulation profile

Description	An ICC profile used for simulation.
Cardinality	Required if UseSimulation is true
XMP Property	gwg-spt:SimulationProfile
XMP Value Type	Stream

2.2.7. User name

Description	A human readable name
Cardinality	Optional
XMP Property	gwg-spt:ProofingUserName
XMP Value Type	String

2.2.8. User login

Description	A user identification used by the user to connect on the proofing software.
Cardinality	Required
XMP Property	gwg-spt: ProofingUserLogin
XMP Value Type	String

2.2.9. Platform

Description	A human readable identification of the OS of the platform on which the proofing was performed – minimum "Mac", "Windows" etc.
Cardinality	Required
XMP Property	gwg-spt:ProofingSoftwarePlatform
XMP Value Type	String

2.2.10. Vendor

Description	A human readable identification of the vendor company that made the proofing solution.
Cardinality	Required
XMP Property	gwg-spt:ProofingSoftwareVendor
XMP Value Type	String

2.2.11. Make

Description	A human readable name describing the proofing solution used.
Cardinality	Required
XMP Property	gwg-spt:ProofingSoftwareMake
XMP Value Type	String

2.2.12. Version

Description	The version number of the solution used to proof the file.
Cardinality	Optional
XMP Property	gwg-spt:ProofingSoftwareVersion
XMP Value Type	String

2.2.13. Approval status

Description	The status of approval. Values can be “Approved” or “Rejected”.
Cardinality	Required
XMP Property	gwg-spt:ProofingApprovalStatus
XMP Value Type	String

2.2.14. Approval date

Description	The date and time of approval.
Cardinality	Optional
XMP Property	gwg-spt:ProofingApprovalDate
XMP Value Type	String

2.2.15. Proofing devices

Description	A set of devices.
Cardinality	Required
XMP Property	gwg-spt:ProofingDevices
XMP Value Type	An XMP Seq container

2.2.16. Proofing device description

2.2.16.1. Was monitor calibrated?

Description	A flag that describes whether the output device was calibrated or not, when the user approved the document.
Cardinality	Required
XMP Property	gwg-spt:ProofingDeviceCalibrated
XMP Value Type	Boolean

2.2.16.2. When was monitor calibrated?

Description	Date / Time when monitor was calibrated for the last time.
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceCalibrationDate
XMP Value Type	Date

2.2.16.3. Device luminance

Description	Integer of the display's luminance (cd/m ²) after calibration
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceLuminance
XMP Value Type	Number

2.2.16.4. Device colour temperature

Description	Integer of the display's color temperature (Kelvin) after calibration
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceColorTemperature
XMP Value Type	Number

2.2.16.5. Device white points X and Y

Description	X value of the device white point
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceWhitePointX
XMP Value Type	Number

Description	Y value of the device white point
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceWhitePointY
XMP Value Type	Number

2.2.16.6. Device identification

Description	A human readable identification of the manufacturer of the device used for proofing. In case of soft-proofing, this is the identification of the monitor used.
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceName
XMP Value Type	String

2.2.16.7. Device serial number

Description	The serial number of the device used.
Cardinality	Optional
XMP Property	gwg-spt:ProofingDeviceSerialNumber
XMP Value Type	String

2.3. Example of XMP ticket

```
<?xpacket begin="Ôø" id="W5M0MpCehiHzreSzNTczkc9d"?>
<x:xmpmeta xmlns:x="adobe:ns:meta/" x:xmptk="3.1-701">
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
<rdf:Description rdf:about="" xmlns:gwg-spt="http://gwg.org/spt/xmlns/">
<gwg-spt:ProofingApprovals>
<rdf:Seq>
<rdf:li rdf:parseType="Resource">
<gwg-spt:UsePDFXOutputCondition>true</gwg-spt:UsePDFXOutputCondition>
<gwg-spt:ProofingUserName>Jeremy Long</gwg-spt:ProofingUserName>
<gwg-spt:ProofingUserLogin>jeremy.long</gwg-spt:ProofingUserLogin>
<gwg-spt:ProofingSoftwarePlatform>Mac OS X</gwg-spt:ProofingSoftwarePlatform>
<gwg-spt:ProofingSoftwareVendor>ICS</gwg-spt:ProofingSoftwareVendor>
<gwg-spt:ProofingSoftwareMake>Remote Director</gwg-spt:ProofingSoftwareMake>
<gwg-spt:ProofingSoftwareVersion>1.0</gwg-spt:ProofingSoftwareVersion>
<gwg-spt:ProofingApprovalStatus>Approved</gwg-spt:ProofingApprovalStatus>
<gwg-spt:ProofingApprovalDate>2007-06-30T00:00:00Z</gwg-
spt:ProofingApprovalDate>
<gwg-spt:ProofingDevices>
<rdf:Seq>
<rdf:li rdf:parseType="Resource">
<gwg-spt:ProofingDeviceCalibrated>true</gwg-spt:ProofingDeviceCalibrated>
<gwg-spt:ProofingDeviceCalibrationDate>2007-06-24T06:42:23Z</gwg-
spt:ProofingDeviceCalibrationDate>
<gwg-spt:ProofingDeviceLuminance>183</gwg-spt:ProofingDeviceLuminance>
<gwg-spt:ProofingDeviceColorTemperature>4997</gwg-
spt:ProofingDeviceColorTemperature>
<gwg-spt:ProofingDeviceWhitePointX>0.9642</gwg-spt:ProofingDeviceWhitePointX>
<gwg-spt:ProofingDeviceWhitePointY>0.8249</gwg-spt:ProofingDeviceWhitePointY>
<gwg-spt:ProofingDeviceName>Apple Cinema Display 21"</gwg-
spt:ProofingDeviceName>
<gwg-spt:ProofingDeviceSerialNumber>AB0484674BC</gwg-
spt:ProofingDeviceSerialNumber>
</rdf:li>
</rdf:Seq>
</gwg-spt:ProofingDevices>
</rdf:li>
<rdf:li rdf:parseType="Resource">
<gwg-spt:UsePDFXOutputCondition>true</gwg-spt:UsePDFXOutputCondition>
<gwg-spt:ProofingUserName>Stephane Georges</gwg-spt:ProofingUserName>
```

```
<gwg-spt:ProofingUserLogin>stephaneg</gwg-spt:ProofingUserLogin>
<gwg-spt:ProofingSoftwarePlatform>Mac OS X</gwg-spt:ProofingSoftwarePlatform>
<gwg-spt:ProofingSoftwareVendor>Dalim Software</gwg-spt:ProofingSoftwareVendor>
<gwg-spt:ProofingSoftwareMake>DALim DiALOGUE</gwg-spt:ProofingSoftwareMake>
<gwg-spt:ProofingSoftwareVersion>4.0</gwg-spt:ProofingSoftwareVersion>
<gwg-spt:ProofingApprovalStatus>Rejected</gwg-spt:ProofingApprovalStatus>
<gwg-spt:ProofingApprovalDate>2007-07-01T00:00:00Z</gwg-
spt:ProofingApprovalDate>
<gwg-spt:ProofingDevices>
<rdf:Seq>
<rdf:li rdf:parseType="Resource">
<gwg-spt:ProofingDeviceCalibrated>true</gwg-spt:ProofingDeviceCalibrated>
<gwg-spt:ProofingDeviceCalibrationDate>2007-06-26T07:22:21Z</gwg-
spt:ProofingDeviceCalibrationDate>
<gwg-spt:ProofingDeviceLuminance>161</gwg-spt:ProofingDeviceLuminance>
<gwg-spt:ProofingDeviceColorTemperature>5012</gwg-
spt:ProofingDeviceColorTemperature>
<gwg-spt:ProofingDeviceWhitePointX>0.9640</gwg-spt:ProofingDeviceWhitePointX>
<gwg-spt:ProofingDeviceWhitePointY>0.8252</gwg-spt:ProofingDeviceWhitePointY>
<gwg-spt:ProofingDeviceName>EIZO CG210</gwg-spt:ProofingDeviceName>
<gwg-spt:ProofingDeviceSerialNumber>FF1323274CD</gwg-
spt:ProofingDeviceSerialNumber>
</rdf:li>
<rdf:li rdf:parseType="Resource">
<gwg-spt:ProofingDeviceCalibrated>true</gwg-spt:ProofingDeviceCalibrated>
<gwg-spt:ProofingDeviceCalibrationDate>2007-06-26T07:29:39Z</gwg-
spt:ProofingDeviceCalibrationDate>
<gwg-spt:ProofingDeviceLuminance>159</gwg-spt:ProofingDeviceLuminance>
<gwg-spt:ProofingDeviceColorTemperature>5008</gwg-
spt:ProofingDeviceColorTemperature>
<gwg-spt:ProofingDeviceWhitePointX>0.9640</gwg-spt:ProofingDeviceWhitePointX>
<gwg-spt:ProofingDeviceWhitePointY>0.8252</gwg-spt:ProofingDeviceWhitePointY>
<gwg-spt:ProofingDeviceName>EIZO CG210</gwg-spt:ProofingDeviceName>
<gwg-spt:ProofingDeviceSerialNumber>FF1327274CD</gwg-
spt:ProofingDeviceSerialNumber>
</rdf:li>
</rdf:Seq>
</gwg-spt:ProofingDevices>
</rdf:li>
</rdf:Seq>
</gwg-spt:ProofingApprovals>
</rdf:Description>
</rdf:RDF>
</x:xmpmeta>
<?xpacket end="w"?>
```

3. GWG Soft-Proofing PDF specifications

3.1. Encoding PDF/X output conditions

In order to have a clear specification not confusing with existing PDF/X standard, the output conditions, as specified in PDF/X standard, should match the condition in which a user has soft-proofed the file.

If the user approves the file with a given document profile, the output intent of the file should be switched to this one. If you do this, you should follow the rules relative to output intent as defined in PDF/X standard and as recommended by GWG best practices.

Optionally, the old output intent can be kept into PDF file and references in the soft-proofing job ticket (see 2.2.2 and 2.2.3).

If multiple approval ticket are stored in the file, the PDF/X output conditions apply to the last approval made (the last soft-proofing ticket in the list of gwg-spt:ProofingApprovals)

3.2. Using digital signature

In order to identify who has approved the document, it is required to digitally sign the provided PDF to be a valid soft-proofing ticket.