

# **Newspaper: MIS to WebPress ICS**

**Version 1.3**

**Date: 2008-01-03**

File: *ICS-MIS-WebPress-News-1.3.doc, .pdf*

## **Newspaper WG**

### **Abstract**

This CIP4 JDF Interoperability Conformance Specification (ICS) defines the interoperability requirements for JDF NewsPrinting (Web/Rotary Offset Printing). This ICS defines the Conformance Requirements for an implementation of a JDF Device that consumes Job Tickets for NewsPrinting, and returns the Job Tickets. This ICS defines two Conformance Levels. The first level, describes the conventional plate handling and the second describes direct imaging on a press.



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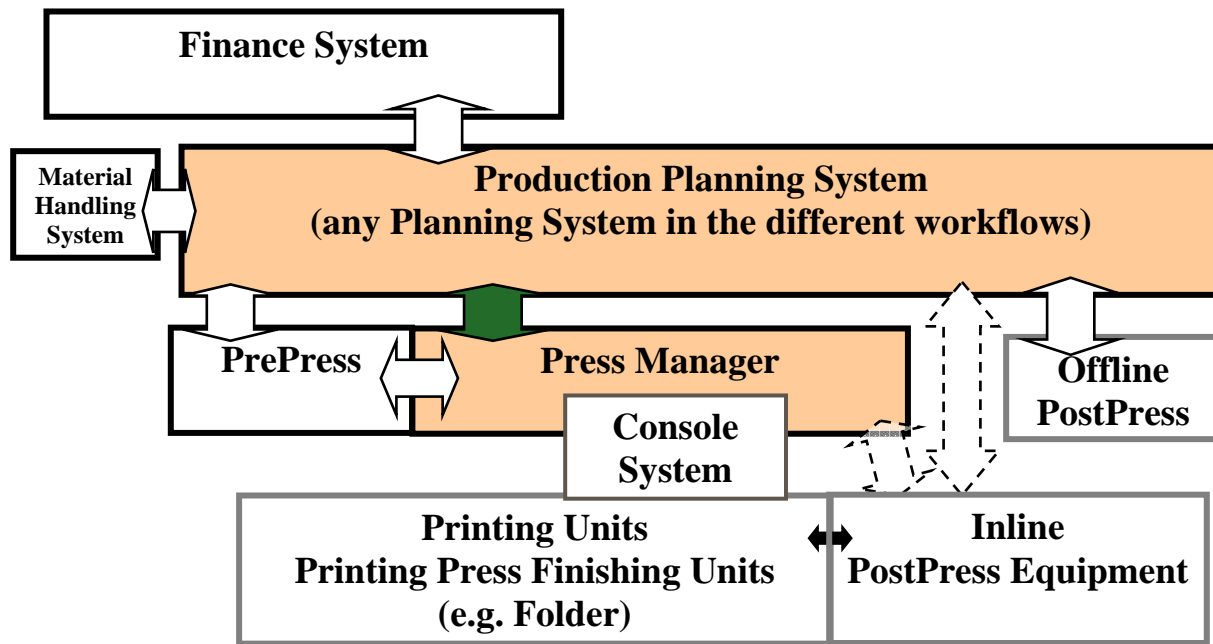
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# 1 Introduction

This ICS describes the Interface between any PPS (Production Planning System) and a Press Management System.

This CIP4 Interface Conformance Specification (ICS) defines the Conformance Requirements for a subset of [JDF1.3] for job tickets to be processed on conventional printing newspaper offset presses. This ICS is intended to represent a Job that is suitable for producing products like newspaper and selected commercials on newspaper offset presses. Figure 1 illustrates the hierarchical structure of a newspaper. For an explanation of the terms *Issue*, *Edition*, *Edition Version*, *WebProduct* and *Page*, see section 2 *Glossary*.

Figure 1: Interconnection points to a Press Management System in general



# 2 Glossary

This section defines terminology used throughout this document. References to other documents are indicated with square brackets, e.g. [JDF1.3]. For most terms, see the Terminology section in [Base-ICS].

This section contains terms that pertain to this ICS:

Table 1: Glossary

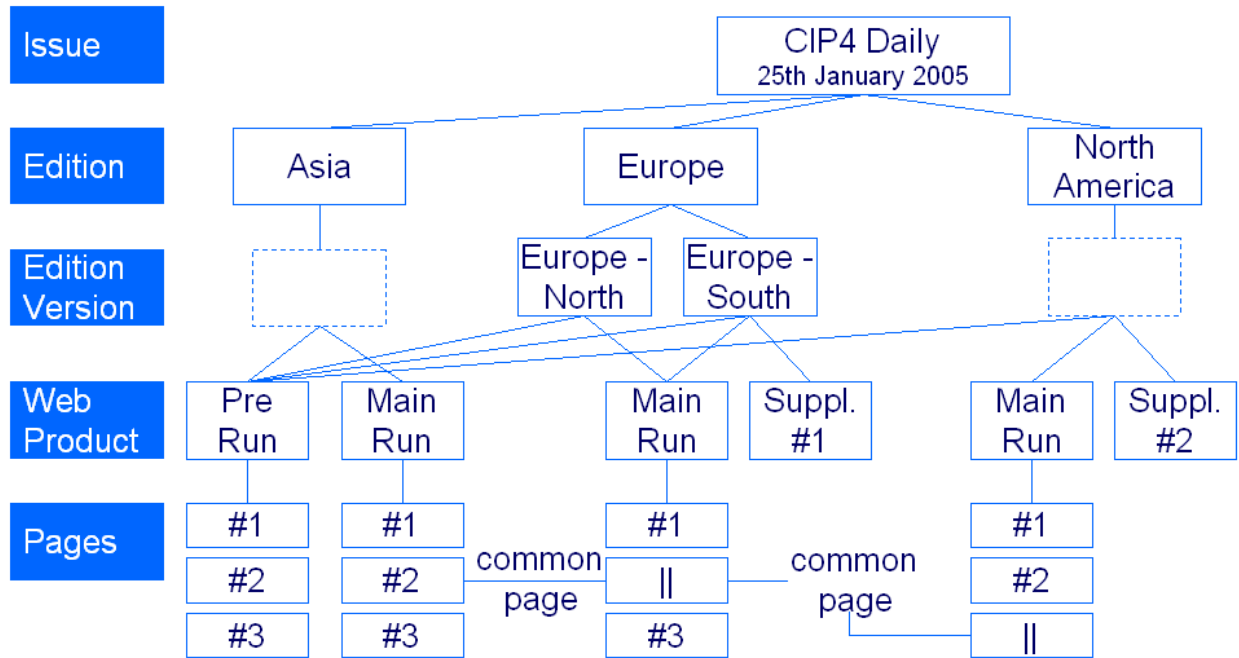
Term	Definition
<i>Broadsheet</i>	The largest of the various newspaper formats. It is characterized by long vertical pages.
<i>Common Page</i>	Specifies an identical <i>Page</i> that is placed into two or more <i>WebProducts</i> .
<i>Copy</i>	Individual Final Product; it specifies a single exemplar of an <i>Edition</i> or <i>Edition Version</i> . So, a <i>Copy</i> represents one single newspaper that the reader holds in his

Term	Definition
	hands.
<b><i>Double-Truck Page</i></b>	Refers to a pair of facing Pages, usually in a newspaper or magazine, with content that stretches over both Pages. On a <b><i>Double-Truck Page</i></b> , the gutter belongs to the printable area of a Page. Therefore, the gutter might contain content (e.g., editorial text or advertisement).
<b><i>Edition</i></b>	Addresses a subset of a newspaper <b><i>Issue</i></b> . The content of each <b><i>Copy</i></b> of one <b><i>Edition</i></b> is the same. Usually, an <b><i>Edition</i></b> is published for a specific region and/or publishing time, e.g. Asia/Europe Edition or Morning/Evening Edition. <b><i>Editions</i></b> might be subdivided into <b><i>Edition Versions</i></b> . Both <b><i>Edition</i></b> and <b><i>Edition Version</i></b> refer to the same editorial content. See Figure 2: Hierarchical newspaper structure.
<b><i>Edition Version</i></b>	An optional subset of a single <b><i>Edition</i></b> . In order to ship <b><i>Inserts</i></b> , <b><i>Editions</i></b> could be subdivided into <b><i>Edition Versions</i></b> . However, an <b><i>Edition Version</i></b> represents a geographical subset of the area covered by an <b><i>Edition</i></b> . Both <b><i>Edition</i></b> and <b><i>Edition Version</i></b> refer to the same editorial content. See Figure 2: Hierarchical newspaper structure.
<b><i>GearSide</i></b>	The side of the press where the drives/gears are mounted. See <b><i>OperatingSide</i></b> ; it is the other side of the press.
<b><i>Insert</i></b>	A component inserted into another component. For example, an <b><i>Insert</i></b> is inserted into a <b><i>WebProduct</i></b> to form an <b><i>Edition Version</i></b> . An <b><i>Insert</i></b> may be an advertisement (commercial <b><i>Insert</i></b> ).
<b><i>Issue</i></b>	Describes every <b><i>Copy</i></b> of the published Product for one <b><i>Issue Date</i></b> . Therefore, <b><i>Issue</i></b> provides a logic bracket over all <b><i>Editions</i></b> that belong to it. See Figure 2: Hierarchical newspaper structure.
<b><i>Issue Date</i></b>	The calendar date on which the <b><i>Issue</i></b> (i.e., the newspaper,) is published.
<b><i>Manager</i></b>	In this ICS, refers to the <b><i>Production Management System</i></b> .
<b><i>MIS</i></b>	In this ICS, refers to a system that manages and/or controls business related topics of a print Job. You may look at this system as the upper most top-level Controller in a JDF workflow. Usually it communicates with a <b><i>Production Management System</i></b> .
<b><i>OperatingSide</i></b>	The side of the press where the operator works. See <b><i>GearSide</i></b> ; it is the other side of the press.
<b><i>Page</i></b>	A single reader page of a newspaper. See Figure 2: Hierarchical newspaper structure.
<b><i>Physical Section</i></b>	A detachable part of a <b><i>WebProduct</i></b> . It is built up from single (finished) paper Sheets, each containing two or four Pages. Another term for it may be "book section".
<b><i>Prepress Workflow System</i></b>	One partner system that communicates with <b><i>Press Controllers</i></b> using JDF and JMF and can provide all Prepress information. A <b><i>Prepress Workflow System</i></b> may provide only the Resource updates [PRECP-ICS] if it works together with a <b><i>Manager</i></b> .
<b><i>Press Controller</i></b>	A Device or Controller that controls press Devices and handles all the communication via JDF and JMF. It typically communicates with a <b><i>Production Management System</i></b> and a <b><i>MIS</i></b> (partner system that communicates with <b><i>Press Controllers</i></b> using JDF and JMF).

Term	Definition
<b><i>Production Management System</i></b>	Refers to a system that controls the production processes by communicating to sub-level Controllers and/or Devices. The <b><i>Production Management System</i></b> may be an integrated part of an <b><i>MIS</i></b> implementation.
<b><i>Production Run</i></b>	Specifies one run of a <b><i>Web Press</i></b> . Such a run produces one or more components in parallel.
<b><i>Roll</i></b>	A kind of media that is mainly used in connection with <b><i>Web Printing</i></b> . In British English the name “reel” for “roll” is in widespread use. In [JDF1.3] “Roll” is used as synonym of “reel”.
<b><i>Tabloid</i></b>	Page Format with two Pages placed adjacent to one another on one <b><i>Broadsheet</i></b> printing plate.
<b><i>Web</i></b>	The paper that is unwound from the <b><i>Roll</i></b> and fed into the <b><i>Web Press</i></b> without cutting it.
<b><i>Web Press</i></b>	The physical Device that performs <b><i>Web Printing</i></b> .
<b><i>Web Printing</i></b>	A printing Process that is fed by paper <b><i>Rolls</i></b> . Within the press, the paper may be cut parallel to its moving direction and/or folded. While exiting the press, the paper is always cut perpendicular to its moving direction.
<b><i>WebProduct</i></b>	The printed Product that comes out of a <b><i>Web Press</i></b> . A single <b><i>WebProduct</i></b> consists of one or many <b><i>Physical Sections</i></b> that are piled up over each other. In contrast to a Product from a sheet-fed press, a <b><i>WebProduct</i></b> is usually already folded and cut. See Figure 2: Hierarchical newspaper structure.
<b><i>WebSetup</i></b>	In this ICS, refers to a Device configuration of the printing <b><i>Web Press</i></b> Device or parts of it. The press consists of a set of modules, where some subsets may be run in parallel, e.g. print modules. With one <b><i>WebSetup</i></b> , multiple <b><i>Webs</i></b> may be printed in parallel forming one single or multiple output components.

## 2.1 Illustration of Newspaper Structure

Figure 2: Hierarchical newspaper structure



## 2.2 Certification

Certification against the ICS for the Worker role can be performed with three types of data:

- The physical output.
- The JMF Messages or returned JDF file.
- User Interface, log files or screen representations.

## 3 Conformance Levels

This ICS defines one Conformance Level of Conformance Requirements for defining a *Web Printing* Job for NewsPrinting.

This ICS defines two Conformance Levels, namely Levels 1 and 2. Level 1 is for a *Web Press* Device that reads JDF instances and writes back the results into the JDF instance, with conventional plates. Level 2 augments level 1 by supporting direct imaging inside a press.

See Appendix A “*How to Read ICS Documents*” in [Base-ICS] for an explanation of Conformance Tables.

To be conformant to a level of this ICS specified in the first column of Table 2, a *Production Management System* or *Prepress Workflow System* MUST conform to the Manager part and a *Press Controller* MUST conform to the Worker part of the ICSs and levels specified in all but the first and last columns of Table 2 below.



**Table 2: Conformance Levels**

Level of this ICS	[Base-ICS]	[JMF-ICS]	[MIS-ICS]	Description
1	2	2	1 or higher	For conventional plates.
2	2	2	1 or higher	For direct imaging of plates inside a press.

## 4 Conformance Tables – JDF Instances

### 4.1 JDF Node

In order to gain flexibility in the press room, the *Press Controller* always receives a Gray Box, even if the Gray Box has to be expanded to one Process only.

**Table 3: JDF Node**  
**Root Node of: JDF Instance**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>Category</i>		w			r?		
<i>MisNews.NewsPrinting</i>		w			r		
<i>all remaining values</i>		!w			r?		
<i>ICSVersions</i>		w←			r?		MUST be written in Root Node only.
<i>MISNews_L1-1.3</i>		w←			r?		
<i>MISNews_L2-1.3</i>			w←		r?		
<i>RelatedJobID</i>		w←			r?		See [MIS-ICS].
<i>RelatedJobPartID</i>		w←			r?		See [MIS-ICS].
<i>Type</i>		w			r		<b>r-Test:</b> see @Types.
<i>ProcessGroup</i>		w			r		In order to define a Gray Box.
<i>Types</i>		w			r		<b>r-Test:</b> The respective values for <i>Category</i> , <i>ICSVersions</i> , <i>Type</i> and <i>Types</i> in this ICS MUST result in an expansion of the <i>Gray Box</i> . The expansion MUST contain all <i>Types</i> values supplied in the <i>Gray Box</i> . The Worker MUST reject JDF Instances with <i>Types</i> values that the Worker does not Support.
<i>ImageSetting</i>			w←			r	For direct imaging inside a press.
<i>ConventionalPrinting</i>		w			r		

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>WebInlineFinishing</i>		w			r		
<i>InkZoneCalculation</i>		w←			r		If Preview Images are present.
<i>Stitching</i>		w←			r		If stitching is planned for a <b>WebProduct</b> .
<i>Gluing</i>		w←			r		If gluing is planned for a <b>WebProduct</b> .
<i>Version</i>		w			r?		
1.3		w			r		

## 5 Conformance Tables – Gray Boxes

### 5.1 GB NewsPrinting

The *Types* values in Table 3: JDF Node specify the Processes for this *Gray Box*. For details of *Gray Boxes*, see [MIS-ICS].

Table 4: GB NewsPrinting – Input Resources

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<b>Assembly</b>		w			r		See Table 6: Assembly.
<b>ColorantControl</b>		w			r		See Table 11: ColorantControl.
<b>ConventionalPrintingParams</b>		w			r		See Table 15: ConventionalPrintingParams.
<b>CustomerInfo</b>		w			r		See [Base-ICS].
<b>Device</b>		w?			r		See Table 16: Device.
<b>ExposedMedia</b>		w	w←		r	r	See Table 17: ExposedMedia – Plate.
<b>GluingParams</b>		w?			r		See Table 19: GluingParams.
<b>Ink</b>		w←			r?		See Table 21: Ink.
<b>Media</b>		w			r		See Table 22: Media – Paper and see Table 23: MediaLink – Paper.
<b>NodeInfo</b>		w			r		See Table 25: NodeInfo.
<b>Preview</b>		w?			r		See Table 28: Preview - Separation.
<b>ProductionPath</b>		w?			r		See Table 29: ProductionPath.
<b>RunList</b>			w←		r		See Table 31: RunList.
<b>StitchingParams</b>		w?			r		See Table 33: StitchingParams.
<b>WebInlineFinishingParams</b>		w?			r		See Table 34: WebInlineFinishingParams.

**Table 5: GB NewsPrinting – Output Resources**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
Component		w			r		See Table 13: Component.

## 6 Conformance Tables – Resources

### 6.1 Assembly

The **Assembly** Resource specifies the component as it is when it leaves the *Web Press*. In case of NewsPrinting, a *Broadsheet* Product always leaves the press including a crossfold. Hence, the outer *Physical Section* encloses all other *Physical Sections*. which is described by Assembly[@Order="Collecting"].

**Table 6: Assembly**  
**Referenced by: Component**  
**Input to: GB NewsPrinting**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>Order</i>		w			r		
<i>Collecting</i>		w←			r		Defines the assembly of <i>Physical Sections</i> within a <i>WebProduct</i> .
<i>List</i>		w←			r		Defines a structure of multiple <i>Physical Sections</i> .
<i>all remaining values</i>		!w			r?		
<i>PartIDKeys</i>		w?			r		
<i>WebSetup</i>		w			r		Used for defining one <i>Production Run</i> of a press.
<i>WebProduct</i>		w?			r		Used to define one or multiple Products, which will be produced with one <i>WebSetup</i> ..
<i>PhysicalSection</i>		w			r		
AssemblySection		w←			r		MUST be specified if <i>Order</i> ="List". Defines multiple <i>Physical Sections</i> within a <i>WebProduct</i> . See Table 7: AssemblySection.
PageAssignedList		w←			r		MUST supply exactly one if <i>Order</i> ="Collecting". See Table 8: PageAssignedList.
PageList		w←			r		MUST be supplied if PageAssignedList is supplied.

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
							See Table 26: PageList.

### 6.1.1 AssemblySection

**Table 7: AssemblySection**  
**Referenced by: Assembly**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>Order</i>		w			r		
<i>Collecting</i>		w←			r		Defines the assembly within a <i>Physical Section</i> .
<i>Gathering</i>		w?			r		
PageAssignedList		w			r		Defines the Page sequence of an AssemblySection. See Table 8: PageAssignedList.

### 6.1.2 PageAssignedList

**Table 8: PageAssignedList**  
**Referenced by: AssemblySection, Assembly**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>BroadsheetNumber</i>		w			r		
<i>PageListIndex</i>		w			r		Printing MUST NOT start until PageData/@PageStatus = " <i>PagePlanned</i> " in every Assembly/PageList/PageData that <i>PageListIndex</i> references.

## 6.2 ByteMap

**Table 9: ByteMap**  
**Referenced by: RunList**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
FileSpec			w		r		See Table 18: FileSpec.

## 6.3 Color

**Table 10: Color**  
**Referenced by: ColorPool**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>CMYK</i>	w←			r			MUST be supplied if the color is a standard CMYK Process colorant regardless of the value of @Name. For example, a black text plate can be defined with <i>Separation="Text"</i> and <i>CMYK="0 0 0 1"</i> .
<i>ActualColorName</i>	w?			r			If the Manager determines the <i>ActualColorName</i> from the PDL file, it MUST supply the PDL color name (e.g. not "Spot1").
<i>Name</i>	w			r			A real color name is preferable. However, <i>Name</i> MAY be a generic placeholder like "Spot", "Spot1", "Spot02", "Metalic01".

## 6.4 ColorantControl

The **ColorantControl** Resource defines the colors used on a *Web-Press* and provides additional data about colors.

The Worker determines the colors used and their order by evaluating the following two Elements of **ColorantControl** in the order listed:

- DeviceColorantOrder
- ColorantOrder

The Worker MUST NOT determine the ordering of colors used on a *Web-Press* from the following Elements and Attributes of **ColorantControl**:

- ColorantParams
- *ProcessColorModel*

In contrast to other offset printing Processes described by JDF, NewsPrinting does NOT use or require ColorantControl/DeviceColorantOrder.

**Table 11: ColorantControl**  
**Input to: GB NewsPrinting**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>ProcessColorModel</i>	w			r?			
<i>PartIDKeys</i>	w?			r			See Section 7 “Conformance Rules – Partitioning Summary”.

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>WebSetup</i>		w			r		
<i>WebProduct</i>		w←			r		If more then one Product will be produced in one process-step, than <i>WebProduct</i> as Partition is needed. MUST be specified if partitioned by <i>PageNumber</i> .
<i>PageNumber</i>		w←			r		References the <i>Broadsheet</i> Page that is defined in the <i>PageList</i> at this index. MUST be specified if partitioned by <i>PlateLayout</i> .
<i>PlateLayout</i>		w?			r		Used for split ink duct.
<i>all remaining values</i>		!w			r?		
ColorantParams		w←			r?		Must be specified if spot colors are present. See [JDF1.3].
ColorantOrder		w			r		Colorant order on a Sheet. It contains the colors that ColorantParams and <i>ProcessColorModel</i> define. If the Manager doesn't know the names of spot colors, then it MAY use "Spot1", "Spot2", or any other generic name. The Manager SHOULD NOT designate standard Process colors like Cyan, Magenta; Yellow, and Black with a generic name. See [MISPRES-ICS].
ColorPool		w			r		See Table 12: ColorPool.
DeviceColorantOrder		w?			r		Colorant order on the press. If supplied, it is strongly recommended to be the color order for printing. See [JDF1.3].

## 6.5 ColorPool

**Table 12: ColorPool**  
**Referenced by: ColorantControl**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
Color		w			r		See Table 10: Color.

## 6.6 Component

**Table 13: Component**  
Output from: *GB NewsPrinting*

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>ComponentType</i>	w			r			A pair of exactly two values MUST be supplied. One of these values MUST either be <i>PartialProduct</i> or <i>FinalProduct</i> .
<i>Block</i>	w			r			
<i>FinalProduct</i>	w←			r			If a final is produced on a <i>Web Press</i> .
<i>PartialProduct</i>	w←			r			If a Partial Product is produced (value for the most cases).
<i>DescriptiveName</i>	w			r			MUST be specified in each leaf Partition.
<i>Dimensions</i>	w			r?			
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>WebProduct</i>	w←			r			Must be defined, if more then one <i>WebProduct</i> will be produced with one <i>WebSetup</i> .
<i>PartVersion</i>	w?			r?			If required, <i>PartVersion</i> SHOULD be used for different language versions.
<i>all remaining values</i>	! w			r?			
<i>ProductType</i>	w			r			
<i>Newspaper</i>	w			r			
<b>Assembly</b>	w			r?			References the <b>Assembly</b> Element describing this <b>Component</b> . See Table 6: Assembly.
<i>SourceResource</i>	w			r			See Table 14: SourceResource.

### 6.6.1 SourceResource

**Table 14: SourceResource**  
**Referenced by: Component**

Name or Value	Manager			Worker			Description	
	Level →	1	2	3	1	2		3
<b>PublishingIntent</b>		w			r			<p>MUST reference the <b>PublishingIntent</b>.</p> <p>The <b>PublishingIntent</b> acts as a workaround to submit the publication date to the Worker. Note that in future JDF Versions there may be a better way of transmitting metadata through the workflow.</p> <p>Transports required information from Business / Planning to Production, for example IssueDate.</p> <p>See Table 30: PublishingIntent.</p>

### 6.7 ConventionalPrintingParams

**Table 15: ConventionalPrintingParams**  
**Input to: GB NewsPrinting**

Name	Manager			Worker			Description	
	Level →	1	2	3	1	2		3
<i>PartIDKeys</i>		w?			r			
<i>WebSetup</i>		w			r			
<i>all remaining values</i>		! w			r?			
<i>PrintingType</i>		w			r			
<i>WebMultiple</i>		w←			r			If the press required multiple plates per cylinder – the NewsPrinting default.
<i>WebSingle</i>		w←			r			If the press required only one plate per cylinder.



## 6.8 Device

**Table 16: Device**  
**Input to: GB NewsPrinting**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>DeviceID</i>	w			r			
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>all remaining values</i>	!w			r?			

## 6.9 ExposedMedia

### 6.9.1 ExposedMedia – Plate

**Table 17: ExposedMedia – Plate**  
**Input to: GB NewsPrinting**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>PartIDKeys</i>	w			r			
<i>WebSetup</i>	w			r			
<i>PlateLayout</i>	w			r			
<i>Separation</i>	w			r			
<i>PartVersion</i>	w?			r?			If used, <i>PartVersion</i> SHOULD be for different language versions.
<i>all remaining values</i>	!w			r?			
<b>Media</b>	w			r			See Table 24: Media – Plate.

## 6.10 FileSpec

**Table 18: FileSpec**  
**Referenced by: ByteMap**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>URL</i>		w			r		Location of the needed Files for direct imaging.

## 6.11 GluingParams

**Table 19: GluingParams**  
**Input to: GB NewsPrinting**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>WebProduct</i>	w?			r			
Glue	w			r			See Table 20: Glue.

### 6.11.1 Glue

**Table 20: Glue**  
**Referenced by: GluingParams**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>WorkingDirection</i>	w			r			

## 6.12 Ink

**Table 21: Ink**  
**Input to: GB NewsPrinting**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>ColorName</i>	! w			r?			The <i>Separation</i> Partition Key MUST be used instead of <i>ColorName</i> .
<i>InkName</i>	w←			r?			The fully qualified name of the ink, for example: "Pantone 47" or "Varnish glossy". The Manager MUST provide an identical <i>InkName</i> if the same ink is used for multiple separations. The Manager MUST NOT set the value of this Attribute to non-specified values like "Spot 01" or any other non-describing text.
<i>PartIDKeys</i>	w			r			If the physical ink of a definite <i>Separation</i> does not vary over Partitions, it is strongly RECOMMENDED to Partition by <i>Separation</i> only. Otherwise the Partition structure MUST be identical to the Partitioning of <b>ColorantControl</b> with an additional <i>Separation</i> key at the leaves.
<i>WebSetup</i>	w←			r			
<i>WebProduct</i>	w←			r			If more then one Product will be produced in one process-step, than <i>WebProduct</i> as Partition is needed.
<i>PageNumber</i>	w←			r			References the <b>Broadsheet</b> Page that is defined in the <b>PageList</b> at this index.
<i>PlateLayout</i>	w←			r			Used for split ink duct.
<i>Separation</i>	w			r			
<i>all remaining values</i>	! w			r?			

## 6.13 Media

### 6.13.1 Media – Paper

**Table 22: Media – Paper**  
**Input to: GB NewsPrinting**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>DescriptiveName</i>	w			r			Human readable name to help the operator select the correct media. See [Base-ICS].
<i>Dimension</i>	w			r			If paper length is set to zero, the paper length is undefined / unknown.
<i>MediaType</i>	w			r			
<i>Paper</i>	w			r			
<i>MediaUnit</i>	w			r			
<i>Roll</i>	w			r			
<i>all remaining values</i>	!w			r?			
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			If the Media will be used for more than one <b>Production Run</b> . MUST be specified if partitioned by <i>WebName</i> .
<i>WebName</i>	w?			r			
<i>Thickness</i>	w?			r			
<i>Weight</i>	w?			r			

### 6.13.2 MediaLink – Paper

**Table 23: MediaLink – Paper**  
**Input to: GB NewsPrinting**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>Transformation</i>	w?			r			Shift of the paper relative to the press coordinate system.

### 6.13.3 Media – Plate

**Table 24: Media – Plate**  
**Referenced by: ExposedMedia – Plate**

Name or Value Level →	Manager			Worker			Description
	1	2	3	1	2	3	
<i>MediaType</i>	w			r			
<i>Plate</i>	w			r			
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>PlateLayout</i>	w←			r			MUST be specified if partitioned by <i>Separation</i> .
<i>Separation</i>	w?			r			
<i>all remaining values</i>	!w			r?			

### 6.14 NodeInfo

**Table 25: NodeInfo**  
**Input to: GB NewsPrinting**

Name or Value Level →	Manager			Worker			Description
	1	2	3	1	2	3	
<i>DescriptiveName</i>	w?			r			Human readable name of the <b>Production Run</b> .
<i>End</i>	w←			r			Estimated time when the Node execution will end. An optional clean-up phase belongs to this <b>Production Run</b> . MUST be provided for scheduling.
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>PartVersion</i>	w?			r?			If used, <i>PartVersion</i> SHOULD be for different language versions.
<i>Start</i>	w←			r			Estimated time when the Node execution will start. An optional setup phase belongs to this <b>Production Run</b> . MUST be provided for scheduling.

## 6.15 PageList

**Table 26: PageList**  
**Referenced by: Assembly**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
PageData		w			r		See Table 27: PageData.

### 6.15.1 PageData

**Table 27: PageData**  
**Referenced by: PageList**

Name	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>DescriptiveName</i>		w?			r		Human readable text. The Page's name.
<i>FoldOutPages</i>		w←			r		MUST be supplied if the Page is a <b>Double-Truck Page</b> and/or fold-out Page. The indices belong to the corresponding Pages contributing to this <b>Double-Truck Page</b> and/or fold-out Page.
<i>PageFormat</i>		w			r		
<i>Broadsheet</i>		w←			r		If the Page format is <b>Broadsheet</b> .
<i>Tabloid</i>		w←			r		If the Page format is <b>Tabloid</b> .
<i>PageLabel</i>		w			r		
<i>PageStatus</i>		w			r		
<i>PageDeleted</i>		w←			r		If the originally planned Page was deleted in the meantime.
<i>PagePlanned</i>		w←			r		If the planning process for this Page is finished.
<i>PagePreliminary</i>		w←			r		If the planning process for this Page is not finished yet. This status MAY be used for information purposes only. The data of this Page is not valid for production yet.
<b>SeparationSpec</b>		w			r		See Table 32: SeparationSpec.

## 6.16 Preview

### 6.16.1 Preview – Separation

**Table 28: Preview - Separation**

Input to: *GB NewsPrinting*

Name or Value	Manager			Worker			Description	
	Level →	1	2	3	1	2		3
<i>PartIDKeys</i>		w			r			See conformance rules Partitioning.
<i>WebSetup</i>		w			r			
<i>PlateLayout</i>		w			r			
<i>Separation</i>		w			r			
<i>PartVersion</i>		w?			r?			If used, <i>PartVersion</i> SHOULD be for different language versions.
<i>all remaining values</i>		!w			r?			
<i>PreviewUsage</i>		w			r			
<i>Separation</i>		w			r			
<i>Status</i>		w			r			
<i>Available</i>		w←			r			If Previews are available.
<i>Incomplete</i>		w←			r			If Previews are not available yet.
<i>URL</i>		w←			r			MUST be supplied if <i>Status</i> = "Available".
<i>file:...</i>		w?			r			URL whose scheme is "file" MUST be an absolute URL.
<i>http:...</i>		w?			r			URL whose scheme is "http" MUST be an absolute URL.
<i>cid:...</i>		w?			r?			URL whose scheme is "cid". Is optional.
<i>ftp:...</i>		w?			r?			URL whose scheme is "ftp". Is optional.
<i>all remaining values</i>		!w			r?			

## 6.17 ProductionPath

**Table 29: ProductionPath**  
**Input to: GB NewsPrinting**

Name or Value Level →	Manager			Worker			Description
	1	2	3	1	2	3	
<i>PartIDKeys</i>	w?			r			
<i>WebSetup</i>	w			r			
<i>ProductionPathID</i>	w			r			

## 6.18 PublishingIntent

**Table 30: PublishingIntent**  
**Referenced by: SourceResource**

Name or Value Level →	Manager			Worker			Description
	1	2	3	1	2	3	
<i>IssueDate</i>	w			r			
<i>IssueName</i>	w			r			
<i>IssueType</i>	w			r			
<i>Newspaper</i>	w←			r			
<i>Supplement</i>	w←			r			not in [JDF1.3] – will be in [JDF 1.4].

## 6.19 RunList

**Table 31: RunList**  
**Input to: GB NewsPrinting**

Name or Value Level →	Manager			Worker			Description
	1	2	3	1	2	3	
<i>PartIDKeys</i>		w			r		See Section 7 Conformance Rules – Partitioning Summary.
<i>WebSetup</i>		w			r		
<i>PlateLayout</i>		w			r		
<i>Separation</i>		w			r		



Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>PartVersion</i>		w?			r?		If used, <i>PartVersion</i> SHOULD be e.g. for different language versions.
<i>all remaining values</i>		!w			r?		
<b>ByteMap</b>		w			r		See Table 9: ByteMap.

## 6.20 SeparationSpec

**Table 32: SeparationSpec**  
Referenced by: PageData

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>Name</i>		w			r		Name of the referenced color.

## 6.21 StitchingParams

**Table 33: StitchingParams**  
Input to: GB NewsPrinting

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>PartIDKeys</i>		w?			r		
<i>WebSetup</i>		w			r		
<i>WebProduct</i>		w?			r		

## 6.22 WebInlineFinishingParams

**Table 34: WebInlineFinishingParams**  
Input to: GB NewsPrinting

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>PartIDKeys</i>		w?			r		
<i>WebSetup</i>		w			r		

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>WebProduct</i>	w?			r			
FolderProduction	w			r			See Table 35: FolderProduction.

### 6.22.1 FolderProduction

**Table 35: FolderProduction**  
**Referenced by: WebInlineFinishingParams**

Name or Value	Manager			Worker			Description
	Level →	1	2	3	1	2	
<i>FolderModuleIndex</i>	w?			r			If Device/Module/@ModuleIndex is specified, it MUST have the same value as <i>FolderModuleIndex</i> .
<i>ProductionType</i>	w			r			
<i>Collect</i>	w←			r			If the <b>WebProduct</b> is collected.
<i>NonCollect</i>	w←			r			If the <b>WebProduct</b> is not collected.

## 7 Conformance Rules – Partitioning Summary

The following table provides a summary of the Manager Conformance values for *PartIDKeys* values for all the tables in this ICS. **Note:** all information in this table comes from other tables in this ICS. The order of the *PartIDKeys* is defined by the Resource tables.

**Table 36: PartIDKeys Overview – NewsPrinting**

<i>PartIDKeys</i> values	Assembly	ColorantControl	Component	ConventionalPrintingParams	Device	ExposedMedia – Plate	GluingParams	Ink	Media – Paper	Media – Plate	NodeInfo	Preview – Separation	ProductionPath	RunList	StitchingParams	WebInlineFinishingParams
<i>PartIDKeys</i>	w?	w?	w?	w?	w?	w	w?	w	w?	w?	w?	w	w?	w	w?	w?
<i>WebSetup</i>	w	w	w	w	w	w	w	w←	w	w	w	w	w	w	w	w
<i>WebProduct</i>	w?	w←	w←				w?	w←							w?	w?
<i>WebName</i>									w?							
<i>PageNumber</i>		w←						w←								
<i>PlateLayout</i>		w?				w		w←		w←		w		w		
<i>Separation</i>						w		w		w?		w		w		
<i>PartVersion</i>			w?			w?					w?	w?		w?		

## 8 References

### 8.1 Normative References

- [Base-ICS] Base ICS, Version 1.3, published July 2007. Available at: <http://www.cip4.org>.
- [MIS-ICS] MIS ICS, Version 1.3, published July 2007. Available at: <http://www.cip4.org>.
- [JMF-ICS] JMF ICS, Version 1.3, published July 2007. Available at: <http://www.cip4.org>.
- [MISCPS-ICS] MIS to Conventional Printing – Sheet-Fed ICS, Version 1.3, published January, 2008, available at: <http://www.cip4.org>.
- [MISPRES-ICS] MIS to Prepress ICS, Version 1.3, published July 2007. Available at: <http://www.cip4.org>.
- [PRECP-ICS] PRECP ICS, Version 1.3, published January, 2008. Available at: <http://www.cip4.org>.
- [JDF1.3] JDF Specification, Version 1.3, published September 30, 2005, and Errata, JDF Specification, Version 1.3. Available at: <http://www.cip4.org>.
- [RFC2396] Berners-Lee, T., Fielding, R. and L. Masinter, "Uniform Resource Identifiers (URI): Generic Syntax", RFC 2396, August 1998.