



Driver Application Programming Interface and Driver Attributes

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Authors (alphabetical)

<i>Authors</i>	<i>Company</i>	<i>Email</i>
Mark Hamzy	International Business Machines	hamzy@us.ibm.com
Till Kamppeter	Mandrake	till.kamppeter@gmx.net
Ira McDonald	High North	imcdonald@sharplabs.com
Glen Petrie	EPSON	glen.petrie@eitc.epson.com
Pete Zannucci	International Business Machines	pzaan@us.ibm.com

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1 INTRODUCTION

This specification describes and defines the Application Programming Interface (API) for the Printer Driver of the Free Standards Group.

[BACKGROUND < who >]

The purpose of this specification to define a Print Driver Application Programming Interface (JTAPI) for the Linux Printing.

This specification has been developed and is intent for software developers, designers and architects.

2 TERMINOLOGY AND ACRONYMS < all >

2.1 COMFORMANCE TERMINOLOGY < who >

In this document, the uppercase terms “MUST”, “MUST NOT”, “REQUIRED”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” are intended to be interpreted as described in [RFC2119]

In this document, each conformance statement uses one of the terms:

<i>Term</i>	<i>Meaning</i>
MUST	Implementation support of the element is REQUIRED.
SHOULD	Implementation support of the element is RECOMMENDED.
MAY	Implementation support of the element is OPTIONAL.

In this document, each operation, object, or attribute is defined as:

<i>Term</i>	<i>Meaning</i>
REQUIRED	Each implementation MUST support this element.
RECOMMENDED	Each implementation SHOULD support this element
OPTIONAL	Each implementation MAY support this element.

In this document, the term “support” is defined as:

<i>Term</i>	<i>Meaning</i>
“support an operation”	An implementation MUST accept a syntactically correct instance of the operation (includes all REQUIRED parameters) and MUST return one of the defined results for the invoked operation.
“support an object”	An implementation MUST accept a syntactically correct instance of the object (includes all REQUIRED attributes) and MUST return one of the defined results for the invoked operation.
“support an attribute”	An implementation MUST accept a syntactically correct instance of the attribute (includes a valid value) and MUST return one of the defined results for the invoked operation. Further, an implementation MUST accept at least one value (other than the empty value NOT_SET) defined for the given attribute.

2.2 OTHER TERMINOLOGY < who >

<i>Term</i>	<i>Meaning</i>
Job Ticket	A set of one or more document processing activities, contained within a file or stream, serialized into some file format (for example, the XML instance textual encoding of a CIP4 JDF Job Ticket)..
Job	A set of one or more document processing activities, contained within a “Job Ticket”, described by “Job Description” attributes, and processed according to “Job Processing” attributes.

<i>Term</i>	<i>Meaning</i>
Document	A single document to be processed, contained within a “JOB”, described by “Document Description” attributes, and processed according to “Document Processing” attributes..
Page	A single logical page in a source document. Multiple source pages may be included in a single “Impression” on a “Side” of a “Sheet”.
Sheet	A single physical piece of media.
Side	A single side (front or back) of “Sheet” of media.
Impression	A single image marked (by some means) on a “Side” of a “Sheet”.

2.3 ACRONYMS < All >

<i>Acronyms</i>	<i>Meaning</i>	<i>Source</i>
CIP4	International Cooperation for the Integration of Processes in Prepress, Press and Postpress	http://www.cip4.org/
JDF		
PWG		
FSG		

3 DRIVER ATTRIBUTES < all >

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			InputTray	
			AnySmallFormat	
			AnyLargeFormat	
			AutoSelect	
			Bottom	same as Lower
			BypassTray	
			BypassTray-n	where n is an integer
			Center	
			Envelope	
			Envelope-n	where n is an integer
			InsertTray	
			InsertTray-n	where n is an integer
			LargeCapacity	same as Main
			LargeCapacity-n	where n is an integer
			Left	
			Middle	
			Rear	
			Right	
			Side	
			Top	same as Upper
			Tray-n	where n is an integer, same as Cassette
			NotSet	
			None	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			OutputBin	
			Booklet	
			Bottom	same as lower
			Center	
			FaceDown	
			FaceUp	
			FitMedia	
			LargeCapacity	same as Main
			Left	
			MailBox-n	where n is an integer
			Middle	
			MyMailbox	
			Rear	
			Right	
			Side	
			Stacker-n	where n is an integer
			Top	same as Upper
			Tray-n	where n is an integer
			NotSet	
			None	
			Sides	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			OneSidedBackflipX	
			OneSidedBackflipY	
			OneSidedFront	
			TwoSidedFlipX	
			TwoSidedFlipY	
			NotSet	
			None	
			StitchingPosition	units are ? units are 1/100 mm. Could use string "8mm" or "0.5in"
			integer	
			NotSet	
			None	
			StitchingOffset	
			integer	
			NotSet	
			None	
			StitchingReferenceEdge	
			Bottom	
			Top	
			Left	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			Right	
			NotSet	
			None	
			StitchingType	
			Corner	
			Saddle	
			Side	
			NotSet	
			None	
			StitchingCount	
			integer	
			NotSet	
			None	
			StitchingAngle	
			integer	
			NotSet	
			None	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			SheetCollate	
			SheetCollated	
			SheetAndJobCollated	
			Uncollated	
			NotSet	
			None	
			Resolution	
			integerXinteger	
			NotSet	
			None	
			PrintQuality	
			Draft	
			Normal	
			High	
			NotSet	
			None	
			Rotation	It is the actual orientations that the printer supports.
			Portrait	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			Landscape	
			ReversePortrait	
			ReverseLandscape	
			NotSet	
			None	
			NumberUp	
			integerXinteger	
			NotSet	
			None	
			NumberUpPresentationDirection	
			TorightTobottom	
			TobottomToright	
			ToleftTobottom	
			TobottomToleft	
			TorightTotop	
			TotopToright	
			ToleftTotop	
			TotopToleft	
			NotSet	
			None	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			Copies	
			integer	
			NotSet	
			None	
			Trimming	
			Trim	
			Face	
			Gutter	
			Tab	
			NotSet	
			None	
			ScalingType	
			fit to page	
			rotate and/or fit	
			clip (to center)	
			notSet	
			none (do not scale)	
			ScalingPercentage	

<i>Required Recommended Optional</i>		<i>Type</i>	<i>Attribute</i>	<i>Comments</i>
			Double	
			notSet	
			none	
			Alignment	
			X position	
			Y position	