

Overview ICS Sheet

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ICS Workgroup

Abstract



This CIP4 spread sheet contains all the Manager and Worker conformance columns of the conformance tables for all of the published CIP4 Interoperability Conformance Specifications (ICSs). Because ICS's are purposefully not redundant and because some ICSs require conformance to other ICSs, an implementer of a JDF-enabled product must consult multiple ICS documents in order to get a complete picture of the applicable conformance requirements. This spread sheet provides a compact overview and summary the ICSs and provides an easy method to find which ICSs require which elements, attributes, and values. While every effort has been made to ensure that this spread sheet accurately reflects the ICSs, including ICS errata, the ICSs shall prevail in case of any differences.



Legend / Instruction of ICSs matrix table

row of Item	Style	Description
Attribute	Black character	Attribute.
Node	Blue character	Node name.
Value(s)	Yellow background	Attribute's value.
Node (with condition)	Green character	Node name with some condition.

ICSs marks	Style	Description
	blank	Nothing
r?	Black character	MAY read or/and write.
w?		
r?		
w?		
r r w?	Green background	MUST read. Also including the case of 'rw?'
w w< r? w r? w< r w r w<	Blue background	MUST write (sometimes with a condition). These marks is defined in ICSs that System (Application) MUST write. In case of including 'r' or 'r?', it is the same, too.
!w	Red background	Also including combination with 'r' and 'r?'
- See Appendix A in Base ICS for details.		

Frame marks	Style	Description
	Red frame	Indicates conflicting conformance specifications between ICSs. Both the name and the conflicting conformance should be framed.
	Orange frame	Indicates conformance specifications that are not conflicting but may require attention.

Code	Date	Description
Base	2004-12-22	Base Interoperability Conformance Specification (Base ICS)
MIS	2005-01-29	MIS ICS
MISPRE	2005-01-20	MIS to Prepress ICS
MISCPS	2005-01-29	MIS to Conventional Printing - Sheet Fed ICS
Binding	2005-01-20	Binding ICS
IDP	2005-02-07	Integrated Digital Printing ICS
PRECP	2005-01-17	Prepress to Conventional Printing ICS

ICS Table	Element	Item(Attrib, Val, Element)	Base						MIS						MISPRE		MISCPS				Binding		IDP		PRECP			
			L1		L2		L3		L1		L2		L3		L1		L1		L2		L1		L1					
			M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W		
MIS 4 IDP 7	Comment (Mng)	Language																					w?	r				
		Name							w	r?														w	r			
		JobDescription							w<	r?														w<	r?			
		Description																							w<	r?		
		Instruction																							w<	r?		
		<content of element>							w	r?															w	r?		
MIS 6	CustomerInfo	CustomerID						w	r?																			
		CustomerJobName							w<	r?																		
		CustomerProjectID							w?	r?																		
		Contact							w	r?																		
MIS 7	CustomerInfo/ Contact	ContactTypes						w	r?																			
		Customer							w	r?																		
		Administrator							w	r?																		
		Company							w	r?																		
	Person							w	r?																			
MIS 8	CustomerInfo/ Contact/ Company	OrganizationName						w	r?																			
MIS 9	CustomerInfo/ Contact/ Person	FamilyName						w	r?																			
Base 7 MIS 2 IDP 8	NodeInfo	BusinessInfo						lw	r?																			
		Employee							w	r?																		
		JobPriority																							w<	r		
		TargetRoute																										
		file:							w?	r																		
	all remaining values							w<	r?																			
	JMF																											
MIS 3	NodeInfo/ Employee (Mng)	PersonallID						w	r?																			
		Roles							w	r?																		
		CSR							w	r?																		

ICS Table	Element	Item(Attrib, Val, Element)	Base						MIS						MISPRE		MISCPS				Binding		IDP		PRECP	
			L1		L2		L3		L1		L2		L3		L1		L1		L2		L1		L1			
			M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W		
Base 9	StatusPool/ PartStatus	Status	w	r																						
		Pool	r	w																						
		all remaining values	r?	w																						
		Part	w<	r																						

ICS Table	Element	Item(Attrib, Val, Element)	Base						MIS						MISPRE		MISCPS				Binding		IDP		PRECP			
			L1		L2		L3		L1		L2		L3		L1	L1	L1	L2	L1	L1	L1	L1						
			M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W		
MISPRE 1	Gray Box	ImpositionPreparation												w?	r													
		ImpositionProofing													w?	r												
		ImpositionRIPing													w?	r?												
		PageProofing													w?	r?												
		PlateMaking													w<	r												
		PrePressPreparation													w<	r												
		Proof&PlateMaking													w?	r?												
MISCPS 4	GB ConventionalPrinting (Input)	Preview																w	r									
		ColorantControl																w	r									
		Component (Input)																w<	r									
		ConventionalPrintingParams																w	r									
		ExposedMedia (Plate)																w	r									
		Media Device																w<	r									
MISCPS 5	GB ConventionalPrinting (Output)	Component (Output)															w	r										
MISPRE 2	GB ImpositionPreparation (Input)	Assembly												w<	r													
		StrippingParams													w?	r												
		Runlist (Document)													w?	r												
MISPRE 3	GB ImpositionPreparation	Layout															w	r										
		RunList (Marks)																w	r									
MISPRE 4	GB ImpositionProofing (Input)	ColorantControl															w	r										
		Device																w?	r									
		Layout																w	r									
		Media																w	r									
		Runlist (Document)																r?	w<									
		Runlist (Marks)																w	r									
MISPRE 5	GB ImpositionProofing (Output)	ExposedMedia														w	r											
MISPRE 6	GB ImpositionRIPing (Input)	ColorantControl															w	r										
		Device?																w?	r									
		InterpretingParams																w?	r									
		Layout																w	r									
		Runlist (Document)																w	r									
		Runlist (Marks)																w	r									
MISPRE 7	GB ImpositionRIPing (Output)	Preview (Separation)															w<	r										
		Preview (Thumbnail)																w<	r									
		RunList																w	r									
MISPRE 8	GB PageProofing (Input)	ColorantControl															w?	r										
		Device																w?	r									
		InterpretingParams																w?	r									
		Media																w	r									
		Runlist (Document)																r?	w<									
MISPRE 9	GB PageProofing (Output)	ExposedMedia															w	r										
		Device																r?	w									
MISPRE10	GB PlateMaking (Input)	ColorantControl															w	r										
		Device																w?	r									
		InterpretingParams																w?	r									
		Layout																w	r									
		Media																w	r									
		Runlist (Document)																w	r									
		Runlist (Marks)																w	r									
MISPRE11	GB PlateMaking (Output)	ExposedMedia															w	r										
		Preview (Separation)																w	r									
		Preview (Thumbnail)																w?	r?									
MISPRE12	GB PrePressPreparation (Input)	RunList (Document)															w	r										
		Device																r?	w?									
MISPRE13	GB PrePressPreparation (Output)	RunList (Document)															w	r										
MISPRE14	GB Proof&PlateMaking (Input)	ColorantControl															w	r										
		Device (Proofer)																w?	r									
		Device (Plate Setter)																w?	r									
		InterpretingParams																w?	r									
		Layout																w	r									
		Media (Proof)																w	r									
		Media (Plate)																w	r									
		Runlist (Document)																w	r									
		Runlist (Marks)																w	r									
		MISPRE15	GB Proof&PlateMaking (Output)	ExposedMedia (Proof)															w	r								
ExposedMedia (Plate)																		r	w<									
Preview (Separation)																		w	r									
Preview (Thumbnail)																		w?	r?									
Device																		r?	w?									
MISPRE16	Processes	ImageSetting															w?	r?										
		Stripping																w?	r?									
		Imposition																										
		PreviewGeneration																										
MISCPS 2	ConventionalPrinting (Input)	ColorantControl															w	r										
		Component (Input)																w<	r									
		ConventionalPrintingParams																w	r									
		ExposedMedia (Plate)																w	r									
		Media Device																w<	r									
MISCPS 3	ConventionalPrinting (Output)	Component														w?	r											
MISPRE17	ImageSetting (Input)	ColorantControl															w	r?										
		Device																w?	r									
		Media (Plate)																w<	r									

ICS Table	Element	Item(Attrib, Val, Element)	Base						MIS						MISPRE		MISCPS				Binding		IDP		PRECP			
			L1		L2		L3		L1		L2		L3		L1	L2	L1	L2	L1	L2	L1	L2	L1	L2				
			M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W		
Base20 MIS20	JMF	DeviceID			w<	r																						
		ResponseURL							lw	r?																		
		SenderID			w	r?																						
		TimeStamp			w	r?																						
		Version			w	r?																						
		1.2			w	r?																						
		xmlns			w	r?																						
		http://www.CIP4.org/JDFSchema_1_1			w	r?																						
		xmlns:xsi			w	r?																						
http://www.w3.org/2001/XMLSchema-instance			w	r?																								
Message			w	r					w	r																		
Base21	Message	Type			w	r																						
		xsi:type			w	r?																						
Base22	Query	<message family> <value of JDF/Message/ @Type>			w	r																						
Base23	Response	QueryTypeObj			w?	r																						
		Subscription			w<	r																						
		Acknowledged					w<	r																				
Base24	Signal	refID			w<	r																						
		ReturnCode			w<	r																						
		Subscribed			w<	r?																						
Base25	Command	true				w<	r?																					
Base26	Acknowledge	LastRepeat			w<	r?																						
		refID			w<	r																						
Base27	Message (Families)	Time			w	r																						
		AcknowledgeURL					w<	r?																				
MIS21	MISCPS17	PRECP11	AcknowledgeType					w<	r																			
			all values					w<	r																			
MIS21	MISCPS17	PRECP11	refID			w	r																					
			ReturnCode			w<	r																					
			KnownDevices (Query)					w?	r																			
			KnownDevices (Response)					r?	w																			
			KnownMessages (Query)					w?	r																			
			KnownMessages (Response)					r?	w																			
			NewJDF (Command)																r	w								
			NewJDF (Response)																w	r								
			NewJDF (Query)																w	r								
			NewJDF (Acknowledge)																w	r								
			NewJDF (Signal)																									
			Status (Query)									w?	r?		w	r												
			Status (Response)									r?	w?		r	w												
			Status (Signal)																									
			RemoveQueueEntry (Command)																				w	r				
			RemoveQueueEntry (Response)																				r	w				
			RemoveQueueEntry (Acknowledge)																				r	w?				
			ResubmitQueueEntry (Command)																									
			ResubmitQueueEntry (Response)																									
			ResubmitQueueEntry (Acknowledge)																									
			Resource (Command)																								w	r
			Resource (Query)																									
			Resource (Response)																									
			Resource (Signal)																									
			ReturnQueueEntry (Command)																									
			ReturnQueueEntry (Response)																									
			StopPersistentChannel (Command)																									
			StopPersistentChannel (Response)																									
			SubmissionMethods (Query)																									
			SubmissionMethods (Response)																									
SubmitQueueEntry (Command)																												
SubmitQueueEntry (Response)																												
SubmitQueueEntry (Acknowledge)																												
Base28	KnownDevices[Q]	Type			w	r																						
		Query			w	r																						
		xsi:type			w	r?																						
		QueryKnownDevices			w	r																						
Base29	KnownDevices[Q]/ DeviceFilter	DeviceFilter			w	r																						
		DeviceDetails			w<	r																						
		None			lw	r?																						
Base30	KnownDevices[R]	Brief			w?	r																						
		Details			w?	r																						
		Type					r	w																				
Base31	KnownDevices[R]/ DeviceList	KnownDevices					r	w																				
		xsi:type					r?	w																				
		ResponseKnownDevices					r	w																				
Base32	KnownDevices[R]/ DeviceList/ DeviceInfo	DeviceList					r	w																				
		DeviceInfo					r	w<																				
Base33	KnownDevices[R]/ DeviceList/ DeviceInfo/ Device	DeviceID					r	w																				
		JDFErrorURL					r	w?																				
		JDFInputURL					r	w?																				
		JDFOutputURL					r	w?																				
		JDFVersions					r	w?																				
		JMFSenderID					r	w																				
Base34	KnownMessages[Q]	JMFURL					r	w																				
		Type			w	r																						
		KnownMessages			w	r																						
		xsi:type			w	r?																						

ICS Table	Element	Item(Attrib, Val, Element)	Base						MIS						MISPRE		MISCPS				Binding		IDP		PRECP	
			L1		L2		L3		L1		L2		L3		L1		L1		L1		L1		L1			
			M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W
		ProductionCounter								r?	w<															
		Speed								r?	w<															
		StatusDetails								r?	w<															
		TotalProductionCounter								r?	w?															
		Device								r?	w															
		Employee								r?	w?		w<													
		JobPhase								r?	w?		w<													
		ModuleStatus								r?	w?															
MIS31	Status[S]/ DeviceInfo/ Device	DeviceID								r?	w															
MIS32	Status[S]/ DeviceInfo/ Employee (Operator)	PersonalID								r?	w															
		Roles								r?	w															
		Operator								r?	w<															
		Assistant								r?	w?															
MIS33	Status[S]/ DeviceInfo/ JobPhase	Amount								r?	w<															
MIS34		JobID								r?	w															
MIS35		JobPartID								r?	w															
		PhaseAmount								r?	w?		w<													
		PhaseStartTime								r?	w?		w													
		PhaseWaste								r?	w?		w<													
		StartTime								r?	w?		w													
		Status								r?	w															
		Setup								r?	w<															
		InProgress								r?	w<															
		Cleanup								r?	w<															
		Stopped								r?	w<															
		Completed								r?	w<															
		Aborted								r?	w<															
		Pool								r?	w<															
		all remaining values								r?	w?															
		StatusDetails								r?	w?															
		Interrupted								r?	w<															
		TotalAmount								r?	w?															
		Waste								r?	w<															
		JDF								r?	w<															
		MISDetails								r?	w?															
		Part								r?	w<															
MIS36	Status[S]/ DeviceInfo/ ModuleStatus	DeviceStatus								r?	w															
		ModuleIndex								r?	w															
		Employee								r?	w?															
MIS37	Status[S]/ DeviceInfo/ ModuleStatus/ MISDetails	CostType								r?	w?															
		DeviceOperationMode								r?	w<															
		all values								r?	w<															
		WorkType								r?	w?															
		all values								r?	w<															
Base41	StopPersistentChannel[C]	ID				w	r					w	r													
MIS48		Type				w	r					w	r													
		StopPersistentChannel				w	r					w	r													
		xsi:type				w	r?					w	r?													
		CommandStopPersistentChannel				w	r					w	r													
		StopPersChParams				w	r					w	r													
Base42	StopPersistentChannel[C]	ChannelID				w?	r			w?	r															
MIS49	/	Message Type				w?	r			w?	r															
		Status				w?	r			w?	r															
		Response				w?	r			w?	r															
		DeviceID				w?	r			w?	r															
		URL				w?	r			w?	r															
		http://...				w	r			w	r															
		all remaining values	!w	r?				!w	r?																	
Base43	StopPersistentChannel[R]	Type				w	r																			
		StopPersistentChannel				w	r																			
		xsi:type				w	r?																			
		ResponseStopPersistentChannel				w	r																			
Base44	SubmissionMethods[Q]	Type				w	r																			
		SubmissionMethods				w	r																			
		xsi:type				w	r?																			
		QuerySubmissionMethods				w	r																			
Base45	SubmissionMethods[R]	Type				r	w																			
		SubmissionMethods				r	w																			
		xsi:type				r?	w																			
		ResponseSubmissionMethods				r	w																			
		SubmissionMethods				r	w																			
Base46	SubmissionMethods[R]/ SubmissionMethods	HotFolder				r	w																			
		Packaging				r	w<																			
		URLSchemes				r	w<																			
Base47	SubmitQueueEntry[C]	AcknowledgeURL				w	r?																			
		Type				w	r																			
		SubmitQueueEntry				w	r																			
		xsi:type				w	r?																			
		CommandSubmitQueueEntry				w	r																			
		QueueSubmissionParams				w	r																			
		QueueFilter				w	r																			
Base48	SubmitQueueEntry[C]/ QueueSubmissionParams	ReturnJMF				w	r																			
		http:...				w	r																			
		ReturnURL				!w	r?																			
		URL				w	r																			
		file:...				w	r																			
		ftp:...				w?	r?																			
		http:...				w	r																			
		cid:...				w	r																			
		all remaining values	!w	r?																						
Base49	SubmitQueueEntry[C]/ QueueFilter	MaxEntries				w?	r																			
		QueueEntryDetails				w?	r																			
Base50	SubmitQueueEntry[R]	Type				r	w																			

