

Groupings of Data Items into Classes

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Note: notation "->" means "is-a" or "subclassed from"

grouping	data items	group class	table row class	comments	recent changes
prtGeneral	ConfigChanges		none, scalar	existing CIM_Printer class	
	CurrentLocalization		none, scalar	writable already in Printer as CurrentNaturalLanguage but not writable there	
	CurrentOperator ServicePerson	B	none, scalar none, scalar	writable writable	
	InputTrayDefaultId		move to subunit		boolean IsDefault property in subunit class
	OutputTrayDefaultId		move to subunit		boolean IsDefault property in subunit class
	MarkerDefaultId		move to subunit		boolean IsDefault property in subunit class
	MediaPathDefaultId		move to subunit		boolean IsDefault property in subunit class
	ConsoleLocalization		none, scalar	writable	must remain in Printer class
	ConsoleDisable		none, scalar	writable	
	PrinterName		none, scalar	writable already in Printer but not writable there	
	SerialNumber		none, scalar	mutable counter	
	AlertCriticalEvents	B	none, scalar	mutable counter	
	AlertAllEvents		none, scalar	mutable counter	
ConsoleNumberOfDisplayLines		none, scalar	from Console		
ConsoleNumberOfDisplayChars		none, scalar	from Console		

grouping	data items	group class	table row class	comments	recent changes
prtConsole	SNMPRowId	no group class	PrintConsoleDisplayBuffer	-> LogicalElement	retain this property: needed for ordering Could possibly represent this by a string array in the Printer class. Much simpler.
	Text		PrintConsoleDisplayBuffer	mutable	
	SNMPRowId	no group class	PrintConsoleLight	-> LogicalElement	eliminate this property; not needed for correlation or for ordering
	OnTime	B	PrintConsoleLight	mutable Maybe promote times to A. How else can you tell remotely if the light is on?	
	OffTime	B	PrintConsoleLight	mutable ditto	
	Color Description	B	PrintConsoleLight PrintConsoleLight		

grouping	data items	group class	table row class	comments	recent changes
prtInput	SNMPRowId	no group class	PrintInputTray	-> LogicalElement	SNMPRowId is always retained so that clients can correlate alerts or status logs between CIM and SNMP access paths.
	Type		PrintInputTray		
	DimUnit		PrintInputTray		
	CapacityUnit		PrintInputTray	must be colocated with CurrentLevel	
	MaxCapacity		PrintInputTray	mutable, believe it or not	Must add XxxBasis property for out-of-band values
	CurrentLevel		PrintInputTray	mutable status	Must add XxxBasis property for out-of-band values
	Status Name		PrintInputTray PrintInputTray	mutable status writable	No writable properties in new classes; use out-of-band interfaces or class methods instead.
Description (IsDefault: new property)		PrintInputTray PrintInputTray	writable	Added to subunit associated with Printer.	
prtInputMedia	MediaDimUnit		PrintInputTray		
	MediaDimFeedDirDeclared		PrintInputTray	writable	Must add XxxBasis property for out-of-band values
	MediaDimXFeedDirDeclared		PrintInputTray	writable	Must add XxxBasis property for out-of-band values
	MediaName		PrintInputTray	writable	
	MediaWeight	B	PrintInputTray	writable	
MediaType		PrintInputTray	writable		
MediaColor		PrintInputTray	writable		

grouping	data items	group class	table row class	comments	recent changes
prtOutput	SNMPRowId	no group class	PrintOutputTray	-> LogicalElement	
	Type		PrintOutputTray		
	CapacityUnit		PrintOutputTray	must be colocated with RemainingCapacity	
	MaxCapacity		PrintOutputTray		
	RemaningCapacity		PrintOutputTray	mutable status	
	Status		PrintOutputTray		
	Name		PrintOutputTray	writable	
	Description		PrintOutputTray		
	StackingOrder	B	PrintOutputTray		
	PageDeliveryOrientation	B	PrintOutputTray		
OffsetStacking (IsDefault: new property)	B	PrintOutputTray	writable	Added to subunit associated with Printer.	
prtLocalization	SNMPRowId	n/a	already in Printer adequately as NaturalLanguagesSupported array	existing array in Printer	
	Language			existing	
	Country			existing	
	CharacterSet		already in Printer adequately as CharSetsSupported array	existing array in Printer	
prtCover	SNMPRowId	no group class	PrintDeviceCover	-> LogicalElement	
	Description		PrintDeviceCover		
	Status		PrintDeviceCover	mutable status	

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prtMarker	SNMPRowId	no group class	PrintMarker	-> LogicalElement	
	MarkTech		PrintMarker		
	CounterUnit		PrintMarker	must be colocated with LifeCount	
	LifeCount	B	PrintMarker	mutable counter	
	PowerOnCount		PrintMarker	mutable counter	
	ProcessColorants		PrintMarker		
	SpotColorants	B	PrintMarker		
	AddressabilityUnit		PrintMarker		
	AddressabilityFeedDir		PrintMarker		
	AddressabilityXFeedDir	B	PrintMarker		
Status		PrintMarker	mutable		
prtMarkerSupplies	SNMPRowId	no group class	PrintSupply	-> LogicalElement	
	MarkerId		PrintSupply	not mutable	
	ColorantId		PrintSupply	not mutable	
	Class		PrintSupply		
	Type		PrintSupply		
	Description		PrintSupply		
	SupplyUnit		PrintSupply	must be colocated with Level	
	MaxCapacity		PrintSupply	must be colocated with Level	Must add XxxBasis property for out-of-band values
	Level		PrintSupply	mutable status	Must add XxxBasis property for out-of-band values
	prtMarkerColorant		SNMPRowId	no group class	no row class
Value		PrintSupply	move property to PrintSupply		
Tonality		B	PrintSupply		move property to PrintSupply

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prtMediaPath	SNMPRowId	no group class	PrintMediaPath	-> LogicalElement		
	MaxSpeedPrintUnit		PrintMediaPath			
	MediaSizeUnit		PrintMediaPath			
	MaxSpeed		PrintMediaPath			
	MaxMediaFeedDir		PrintMediaPath			Must add XxxBasis property for out-of-band values
	MaxMediaXFeedDir		PrintMediaPath			Must add XxxBasis property for out-of-band values
	MinMediaFeedDir		PrintMediaPath			Must add XxxBasis property for out-of-band values
	MinMediaXFeedDir		PrintMediaPath			Must add XxxBasis property for out-of-band values
	Type		PrintMediaPath			
	Description		PrintMediaPath			
Status	PrintMediaPath	mutable status				

grouping	data items	group class	table row class	comments	recent changes	
prtChannel	SNMPRowId	no group class	PrintChannel	-> LogicalElement		
	Type		PrintChannel			
	ProtocolVersion		PrintChannel			
	CurrentJobCtrlLangId		PrintChannel	writable	eliminate property in favor of AssociatedPrintJobControlLanguage association	
	DefaultPageDescLangId		PrintChannel	writable	eliminate property in favor of AssociatedPrintDescriptionLanguage association	
	State		PrintChannel	mutable status		
	InterfaceSNMPRowId		PrintChannel	writable		
Status	PrintChannel	mutable status				
AuxiliaryInformation	PrintChannel	mutable				
prtInterpreter	SNMPRowId	no group class	PrintInterpreter	-> LogicalElement		
	LangFamily		PrintInterpreter			
	LangLevel		B	PrintInterpreter		
	Description			PrintInterpreter		
	FeedAddressability		B	PrintInterpreter		Must add XxxBasis property for out-of-band values
	XFeedAddressability		B	PrintInterpreter		Must add XxxBasis property for out-of-band values
Status	A	PrintInterpreter	mutable status, added to correct previous modeling error			

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prtAlert	SNMPRowId		PrintAlertLog -> PrintAlertRecord	-> LogEntry	
			RecordLog, following the existing RecordLog Profile		
	SeverityLevel		PrintAlertRecord		
	TrainingLevel	B	PrintAlertRecord		
	GroupClass		PrintAlertRecord		may add an association directly to the subunit in question
	Location		PrintAlertRecord		
	Code		PrintAlertRecord		
Description		PrintAlertRecord			
Time		PrintAlertRecord			