

ISO20616-1PRX.xsd

Schema Documentation

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Published in Switzerland.

Elements

[AdditionalInfo](#)
[Barcode](#)
[BarcodeParameter](#)
[BarcodeScore](#)
[BarcodeScoringScale](#)
[BarcodeSymbology](#)
[BasisOfCalculation](#)
[Brand](#)
[Brand-Product](#)
[BuyerInfo](#)
[CalculatedValue](#)
[ChartType](#)
[Color](#)
[ColorParameter](#)
[ColorReportType](#)
[ColorScore](#)
[ColorScoringScale](#)
[CompanyName](#)
[ComplianceGoal](#)
[ContactDesignator](#)
[CustomerItem](#)
[CustomerItemIdLink](#)
[CustomerJob](#)
[CustomResources](#)
[CxFReferenceData](#)
[CxFReferenceObjectIdLink](#)

Complex types

[scoringScaleType](#)

Attributes

[Rank](#)

Simple types

[colorReportTypeType](#)
[connectorType](#)
[customerItemIdListType](#)
[customerItemIdType](#)
[customValueType](#)
[dateOrDateTime](#)
[gradeLabelListType](#)
[gradeLabelType](#)
[meterageUoMType](#)
[meterageValueType](#)
[one2tenType](#)
[operatorType](#)
[originType](#)
[percent](#)
[percentType](#)
[printMethodType](#)
[printSideType](#)
[registrationReportTypeType](#)
[UoMType](#)
[yesno](#)

[DefectArea](#)
[DefectCount](#)
[DefectDescription](#)
[DefectName](#)
[DefectOccurence](#)
[DefectParameter](#)
[DefectParameterScale](#)
[DefectPercent](#)
[Defects](#)
[DefectScore](#)
[DefectSeverity](#)
[DefectSize](#)
[DefectTypeDefinition](#)
[DefectXMeasure](#)
[DefectYMeasure](#)
[Definition](#)
[DesignersGoal](#)
[DesiredRank](#)
[EvaluationInfo](#)
[Formula](#)
[FormulaDescription](#)
[FormulaName](#)
[Grade](#)
[GradeWeightingFactor](#)
[GradingInfo](#)
[GradingScale](#)
[ItemDescription](#)
[JobDescription](#)
[JobTypeName](#)
[LocationDesignator](#)
[LogicalConnector](#)
[LogicalOperator](#)
[MarkType](#)
[MathOrMethod](#)
[MeasuredValue](#)
[MinimumAcceptableRank](#)
[Operator](#)
[Origin](#)
[ParameterName](#)
[ParameterScore](#)
[ParameterScoringScale](#)
[ParentCompany](#)
[PatchType](#)
[PercentAcceptableScores](#)
[PositionDefinition](#)
[PositionLocationImage](#)
[PrintMethod](#)
[PrintSide](#)

[Product](#)
[PRX](#)
[PRXDate](#)
[PRXId](#)
[PRXInfo](#)
[PRXSoftware-Version](#)
[QualityGoals](#)
[QualitySpecification](#)
[QualitySpecName](#)
[QualitySpecVersion](#)
[Registration](#)
[RegistrationParameter](#)
[RegistrationReportType](#)
[RegistrationScore](#)
[RegistrationScoringScale](#)
[RunLength](#)
[SamplingPosition](#)
[SamplingPositionImageData](#)
[SamplingPositionImageIdLink](#)
[SamplingPositionMatrix](#)
[Score](#)
[ScoreWeightingFactor](#)
[ScoringInfo](#)
[ScoringScale](#)
[Specifier](#)
[TagCollection](#)
[UoM](#)
[ValueRange](#)
[VerificationType](#)
[WeightedPercentage](#)
[XPosition](#)
[YPosition](#)
[ZeroBaseline](#)

element **AdditionalInfo**

diagram	
used by	elements Barcode Color Defects Registration
annotation	documentation string used to provide more information

element **Barcode**

diagram	
children	prx:ComplianceGoal prx:BarcodeScore prx:BarcodeParameter prx:AdditionalInfo prx:TagCollection
used by	element QualityGoals
annotation	documentation set of fields that provide quality requirements for barcodes and indicate how that parameter will be evaluated by the print buyer

element **BarcodeParameter**

diagram	
children	prx:BarcodeSymbology prx:CustomerItemidLink prx:SamplingPosition prx:ScoreWeightingFactor prx:TagCollection
used by	element Barcode
annotation	documentation set of fields that provide quality requirements for a barcode parameter and indicate how that parameter will be evaluated by the print buyer

element **BarcodeScore**

diagram	
children	prx:ScoringInfo prx:BarcodeScoringScale
used by	element Barcode

annotation	documentation set of fields that provide print buyer's barcode scoring
------------	---

element **BarcodeScoringScale**

diagram	
children	prx:Score prx:ZeroBaseline
used by	element BarcodeScore
annotation	documentation set of fields that provide the print buyer's enumerations for barcode verification evaluation levels, or scores, and the meaning of each

attribute **BarcodeScoringScale/@ScoringInput**

annotation	documentation set field indicating ISO verification scores as the input into barcode scoring calculation
------------	---

element **BarcodeSymbology**

diagram			
used by	element BarcodeParameter		
facets	Kind	Value	Annotation
	enumeration	AztecCode	documentation Aztec Code: a type of 2D barcode published as ISO/IEC 24778:2008 standard. Named after the resemblance of the central finder pattern to an Aztec pyramid, Aztec code has the potential to use less space than other matrix barcodes because it does not require a surrounding blank "quiet zone".
	enumeration	Codabar	documentation Codabar: (also called Ames Code, Code 2 of 7, NW-7, USD-4, and other names) was developed in 1972 by Pitney Bowes. The barcode was designed to be accurately read even when printed by dot matrix and impact printers (the most common print technology in use in the early 1970's).
	enumeration	Code11	documentation Code 11: barcode symbology developed by Intermec in 1977. It is used primarily in telecommunications. The symbol can encode any length string consisting of the digits 0-9 and the dash character (-).
	enumeration	Code128	documentation Code 128: high-density linear barcode symbology. It is used for alphanumeric or numeric-only barcodes. It can encode all 128 characters of ASCII and, by use of an extension symbol (FNC4), the Latin-1 characters defined in ISO/IEC 8859-1.
	enumeration	Code39	documentation Code 39: (also known as Alpha39, Code 3 of 9, Code 3/9, Type 39, USS Code 39, or USD-3) is a variable length, discrete barcode symbology defining 43 characters.
	enumeration	Code32	documentation Code 32: was used all over Italy for the encoding of pharmaceutical products.

enumeration	CrontoSign	documentation CrontoSign: graphical cryptogram consisting of a matrix of colored dots used to secure banking transactions.
enumeration	Pharmacode	documentation Pharmacode: 1D barcode used mainly in the pharmaceutical manufacturing.
enumeration	ExtendedCode39	documentation Extended Code 39: (also known as Alpha39, Code 3 of 9, Code 3/9, Type 39, USS Code 39, or USD-3) is a variable length, discrete barcode symbology.
enumeration	Code49	documentation Code 49: stacked symbol containing between 2 and 8 rows, each separated by a separator bar. Each row contains 16 "words" (which are generated from character pairs) and a start and stop character. The last row also contains the number of rows in the symbol and the check digit characters.
enumeration	Code93	documentation Code 93: barcode symbology designed in 1982 by Intermec to provide a higher density and data security enhancement to Code 39. It is an alphanumeric, variable length symbology. Code 93 is used primarily by Canada Post to encode supplementary delivery information.
enumeration	CompositeCode	documentation Composite Code: 2D barcode symbol included above a DataBar, UPC, EAN, or Code 128 barcode to encode additional data.
enumeration	CPCBinary	documentation CPC Binary Barcode: Canada Post's proprietary symbology used in its automated mail sortation operations.
enumeration	DataMatrix	documentation Data Matrix: two-dimensional matrix barcode consisting of black and white "cells" or modules arranged in either a square or rectangular pattern encoding either text or numeric data.
enumeration	EAN-2	documentation EAN-2: isupplement to the EAN-13 and UPC-A barcodes. It is often used on magazines and periodicals to indicate an issue number.
enumeration	EAN-5	documentation EAN-5: 5 digit supplement to the EAN-13 barcode used on books.
enumeration	EAN-8	documentation EAN-8: barcode and is derived from the longer International Article Number (EAN-13) code used on small packages.
enumeration	EAN-13	documentation EAN-13: superset of the original 12-digit Universal Product Code (UPC-A) standard with 3 added digits to indicate country and product.
enumeration	EANBookland	documentation Bookland EAN barcode: two barcodes placed next to each other, usually used to code the retail price of the book. On the left is a large barcode generated by the book's ISBN, while on the right, a smaller barcode accommodating only 5 digits.
enumeration	HAN-XINBarcode	documentation Han Xin barcode is a 2D barcode developed by China for the encoding the Chinese characters and other text information efficiently.
enumeration	HighCapacityColorBarcode	documentation High Capacity Color Barcode: (HCCB) is a technology developed by Microsoft for encoding data in a 2D "barcode" using clusters of colored triangles instead of the square pixels conventionally associated with 2D barcodes or QR codes.
enumeration	IntelligentMailBarcode	documentation

		<p>The Intelligent Mail Barcode: (IM barcode) is a 65-bar code for use to efficiently deliver mail in the United States.</p> <p>documentation</p>
enumeration	Industrial2of5	<p>Industrial 2 of 5: 1D barcode where each character consists of 2 wide Elements out of 5 barcode elements. Also known as Interleaved 2 of 5.</p> <p>documentation</p>
enumeration	Interleaved2of5	<p>Interleaved 2of5: 1D barcode with nine functional characters (123456789) and one symbol check character (5).</p> <p>documentation</p>
enumeration	ITF-14	<p>ITF 14: 1D barcode symbology which is derived from interleaved 2 of 5 and easily encodes 14 digits.</p> <p>documentation</p>
enumeration	JAN	<p>JAN: thirteen-digit EAN-13 where a prefix with the first two digits of "45" or "49" indicates a Japanese Article Number.</p> <p>documentation</p>
enumeration	KarTrak	<p>KarTrak: sometimes KarTrak ACI (for Automatic Car Identification) is a colored bar code system designed to automatically identify rail cars and other rolling stock.</p> <p>documentation</p>
enumeration	LOGMARS	<p>LOGMARS: stands for Logistics Applications of Automated Marking and Reading Symbols. It is a variation of code 39 as defined in Military Standard MIL-STD-1189B.</p> <p>documentation</p>
enumeration	MaxiCode	<p>MaxiCode: barcode used mainly by UPS (United Parcel Service) for sorting and tracking packages. Also known as maxi code, the MaxiCode specification is a 1-inch square that can store up to 83 characters of information.</p> <p>documentation</p>
enumeration	MMCC	<p>MMCC; mobile multi-coloured composite (MMCC) is a two dimensional coloured barcode designed to distribute media via traditional print media, without the need for network connectivity.</p> <p>documentation</p>
enumeration	MSIPlessey	<p>MSI: (also known as Modified Plessey) is a barcode symbology developed by the MSI Data Corporation, based on the original Plessey Code symbology. It is a continuous symbology that is not self-checking. MSI is used primarily for inventory control, marking storage containers and shelves in warehouse environments.</p> <p>documentation</p>
enumeration	OPCOpticalIndustryAssociation	<p>OPC: barcode for marking retail optical products.</p> <p>documentation</p>
enumeration	PDF-417	<p>PDF417: is a stacked linear barcode symbol format used in a variety of applications, primarily transport, identification cards, and inventory management. PDF stands for Portable Data File. The 417 signifies that each pattern in the code consists of 4 bars and spaces, and that each pattern is 17 units long.</p> <p>documentation</p>
enumeration	Plessey	<p>Plessey Code is a 1D barcode used in some libraries and for shelf tags in retail stores to support internal stock control.</p> <p>documentation</p>
enumeration	PostBar	<p>PostBar, also known as CPC 4-State, is the black-ink barcode system used by Canada Post in its automated mail sorting and delivery operations.</p> <p>documentation</p>
enumeration	POSTNET	<p>POSTNET (Postal Numeric Encoding Technique) is a barcode symbology used by the United States Postal Service to assist in directing mail. The ZIP Code or ZIP+4 code is encoded in half- and full-height bars.</p> <p>documentation</p>
enumeration	QRCode	<p>documentation</p>

	<p>enumeration SCC-14 documentation SCC 14 barcode or Shipping Container Code is a 14-digit number assigned to fixed content shipping containers.</p> <p>enumeration Standard2of5 documentation Standard 2 of 5 is a very simple symbology in that all encoding information is encoded in the width of the bars. The spaces in the barcode exist only to separate the bars themselves. Additionally, a bar may either be wide or narrow, a wide bar generally being 3 times as wide as a narrow bar.</p> <p>enumeration Telepen documentation Telepen is a name of a barcode symbology designed in 1972 in the UK to express all 128 ASCII characters without using shift characters for code switching, and using only two different widths for bars and spaces.</p> <p>enumeration UCC/EAN-128 documentation GS1-128 is an application standard of the GS1 implementation using the Code 128 barcode specification. The former correct name was UCC/EAN-128. Other no longer used names have included UCC-128 and EAN-128. GS1-128 uses a series of Application Identifiers to include additional data such as best before dates, batch numbers, quantities, weights and many other attributes needed</p> <p>enumeration UPC-ITF-14 documentation is the GS1 implementation of an Interleaved 2 of 5 bar code to encode a Global Trade Item Number. ITF-14 symbols are generally used on packaging levels of a product, such as a case box of 24 cans of soup. The ITF-14 will always encode 14 digits.</p> <p>enumeration UPC-A documentation The Universal Product Code is a 1D barcode symbology that is widely used in the United States for tracking trade items in stores, as well as books, magazines, and newspapers.</p> <p>enumeration UPC-E documentation UPC-E is a variation of UPC-A which allows for a more compact barcode by eliminating "extra" zeros. Since the resulting UPC-E barcode is about half the size as an UPC-A barcode, UPC-E is generally used on products with very small packaging where a full UPC-A barcode couldn't reasonably fit.</p> <p>enumeration other documentation Other is designated for a barcode not found on the PQX list of standard barcode types</p>
annotation	documentation set of fields that provide the specific type of barcode being evaluated

element **BasisOfCalculation**

diagram	<pre> graph LR A[BasisOfCalculation] --- B(()) B --- C[prx:WeightedPercentage] B --- D[prx:Formula] </pre>
children	prx:WeightedPercentage prx:Formula
used by	elements GradingInfo ScoringInfo
annotation	documentation set of fields that provide information about how print quality grades/scores will be calculated by the print buyer

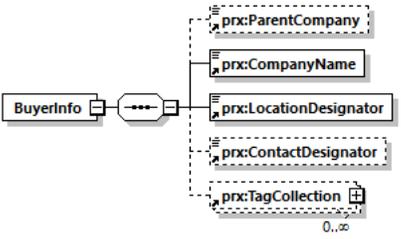
element **Brand**

diagram	
used by	elements CustomerItem CustomerJob
annotation	documentation field that provides a designation for a product or set of products for which print quality data was captured

element **Brand-Product**

diagram	
used by	elements CustomerItem CustomerJob
annotation	documentation field that identifies the owner's brand and product designation (expressed as a concatenated string with a vertical bar separator) for an item offered for sale

element **BuyerInfo**

diagram	
children	prx:ParentCompany prx:CompanyName prx:LocationDesignator prx>ContactDesignator prx:TagCollection
used by	element PRX
annotation	documentation set of fields designed to transmit print buyer metadata for this set of print quality requirements

element **CalculatedValue**

diagram	
used by	element ValueRange
annotation	documentation field that provides the result of a print-quality calculation based on the mathematical formula or method provided by the print buyer

element **ChartType**

diagram	
used by	element ColorParameter
annotation	documentation field that provides a classification of a color chart to be employed

element **Color**

diagram	
children	prx:ComplianceGoal prx:ColorScore prx:ColorParameter prx:AdditionalInfo prx:TagCollection
used by	element QualityGoals
annotation	documentation set of fields that provide quality requirements for print color and indicate how that parameter will be evaluated by the print buyer

element **ColorParameter**

diagram	
children	prx:ParameterName prx:ColorReportType prx:CustomerItemLinkId prx:SamplingPosition prx:ChartType prx:CxFReferenceObjectIdLink prx:PatchType prx:ScoreWeightingFactor prx:TagCollection
used by	element Color
annotation	documentation set of fields that provide quality requirements for a parameter of colour quality required by the print buyer

element **ColorReportType**

diagram										
used by	element ColorParameter									
facets	<table border="0"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>toneCalculation</td> <td>documentation Tone Calculation Type: a color report where tone values are calculated by the receiver</td> </tr> <tr> <td>enumeration</td> <td>direct</td> <td>documentation Direct Type: color report where CxF values are directly utilized by the receiver</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	toneCalculation	documentation Tone Calculation Type: a color report where tone values are calculated by the receiver	enumeration	direct	documentation Direct Type: color report where CxF values are directly utilized by the receiver
Kind	Value	Annotation								
enumeration	toneCalculation	documentation Tone Calculation Type: a color report where tone values are calculated by the receiver								
enumeration	direct	documentation Direct Type: color report where CxF values are directly utilized by the receiver								

annotation	documentation type of color report employed; default is "direct", "tone calculation" is the alternative
------------	--

element **ColorScore**

diagram	
children	prx:ScoringInfo prx:ColorScoringScale
used by	element Color
annotation	documentation set of fields that provide print buyer's evaluation of colour

element **ColorScoringScale**

diagram	
children	prx:UoM prx:ParameterScore prx:ZeroBaseline
used by	element ColorScore
annotation	documentation set of fields that provide the input parameter to the print buyer's colour evaluation

attribute **ColorScoringScale/@ScoringInput**

annotation	documentation set field indicating colour variance as the input into color scoring calculation
------------	---

element **CompanyName**

diagram	
used by	elements BuyerInfo Specifier
annotation	documentation field that identifies the name of a print buyer, printer, print quality service provider or other entity

element **ComplianceGoal**

diagram	
used by	elements Barcode Color
annotation	documentation field that designates a print buyer's compliance goal. Note 1 to Entry: the ComplianceGoal field may be a named specification or it may be a link to a specification. Note 2 to Entry: Only a single specification may be listed per field. If the print buyer has multiple compliance goals, multiple RequiredCompliance fields should be transmitted.

element **ContactDesignator**

diagram	
used by	elements BuyerInfo Specifier
annotation	documentation field that provides an identifier for the business contact such as a contact name, email, phone, contact Id or a combination of these

element **CustomerItem**

diagram	
children	prx:itemDescription prx:Brand prx:Product prx:Brand-Product prx:PrintSide prx:QualityGoals prx:DesignersGoal prx:TagCollection
used by	element QualitySpecification
annotation	documentation set of fields describing a printed item

attribute **CustomerItem/@Id**

annotation	documentation field that provides unique identification (within the scope of the PRX file) of this printed item
------------	--

attribute **CustomerItem/@IdDisplayName**

annotation	documentation type or name of the identifier code such as "SKU" "artCode" or "GCAS"
------------	--

element **CustomerItemIdLink**

diagram	
used by	elements BarcodeParameter ColorParameter DefectOccurence DefectParameter RegistrationParameter
annotation	documentation field that provides a connection from a customer item to print buyer quality requirements

element **CustomerJob**

diagram	
children	prx:JobTypeName prx:JobDescription prx:Brand prx:Product prx:Brand-Product prx:PrintSide prx:QualityGoals prx:DesignersGoal prx:TagCollection
used by	element QualitySpecification
annotation	documentation field that provides a name or label used by a print buyer to identify type of print job for which the quality specification was developed

element **CustomResources**

diagram	
used by	element PRX
annotation	documentation set of fields that provide extensibility to the PRX by allowing the inclusion of any structured XML-encoded content from any namespace

element **CxFReferenceData**

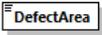
diagram	
children	cc:CxF
used by	element PRX
annotation	documentation set of fields made up of CxF reference (standard) data for quality color aims. Note: ID's of CxF objects in this block are referenced to provide direct addressability of object colour data stores for print quality requirements specification.

element **CxFReferenceObjectIdLink**

diagram	
used by	element ColorParameter
annotation	documentation CxF Reference Object Id-Link: An optional element of the color measurement that provides a link to the Standard/Aim CxF

	object Id for this measurement. Note to Entry: If standard aim values are known to both parties this field is not required to be transmitted back to the brand within the PRX message.
--	--

element **DefectArea**

diagram	
used by	element DefectSize
annotation	documentation field that indicates the area (or average area) of a defect expressed as the defect unit of measure squared

element **DefectCount**

diagram	
used by	element DefectOccurrence
annotation	documentation field that provides the count or frequency for a defect being reported across the inspections reported in this entry

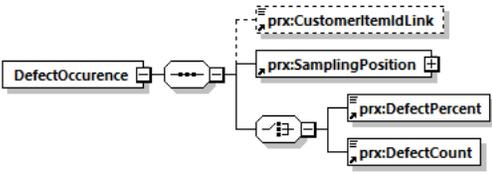
element **DefectDescription**

diagram	
annotation	documentation field that captures an account of the nature of the defect

element **DefectName**

diagram	
used by	element DefectTypeDefinition

element **DefectOccurrence**

diagram	
children	prx:CustomerItemIdLink prx:SamplingPosition prx:DefectPercent prx:DefectCount
annotation	documentation field that documents the defect occurrence factor that will be evaluated by the print buyer

element **DefectParameter**

diagram	
children	prx:ParameterName prx:DefectParameterScale prx:CustomerItemLinkId prx:SamplingPosition prx:ScoreWeightingFactor prx:TagCollection
used by	element Defects
annotation	documentation set of fields that provide quality requirements for a defect parameter and indicate how that parameter will be evaluated by the print buyer

element **DefectParameterScale**

diagram	
children	prx:UoM prx:ParameterScore prx:ZeroBaseline
used by	element DefectParameter
annotation	documentation set of fields that provide the print buyer's enumerations for print quality parameter set evaluation levels, or scores, and the meaning of each

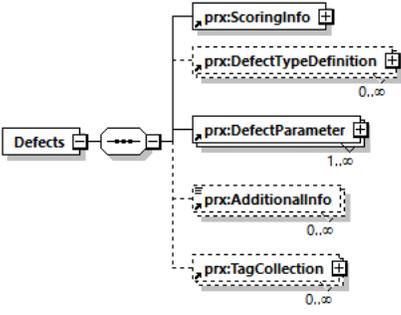
attribute **DefectParameterScale/@ScoringInput**

annotation	documentation set field indicating the input into defect scoring calculation. streak length, defect size, defect count, defect type or multiple parameters concatenated with a comma"
------------	--

element **DefectPercent**

diagram	
used by	element DefectOccurence
annotation	documentation field that provides the count or frequency for a defect being reported across the inspections reported in this entry

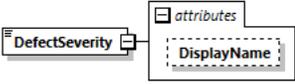
element **Defects**

diagram	
children	prx:ScoringInfo prx:DefectTypeDefinition prx:DefectParameter prx:AdditionalInfo prx:TagCollection
used by	element QualityGoals
annotation	documentation set of fields that provide quality requirements for defects and indicate how that parameter will be evaluated by the print buyer

element **DefectScore**

diagram	
annotation	documentation set of fields that indicate how Defects will be scored by the print buyer

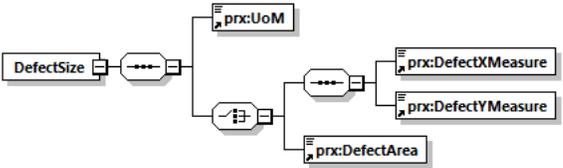
element **DefectSeverity**

diagram	
annotation	documentation field that provides values for the degree or seriousness of a print flaw on a scale of 1 to 10 with 1 being the least severe and 10 being the most severe

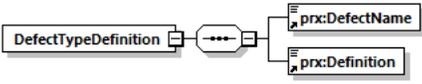
attribute **DefectSeverity/@DisplayName**

annotation	documentation label or name of the defect severity such as "moderate" "extreme" or "slight", typically employing a nomenclature provided by the print buyer
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element **DefectSize**

diagram	
children	prx:UoM prx:DefectXMeasure prx:DefectYMeasure prx:DefectArea
annotation	documentation set of fields that provides data that documents the height/width or area of a defect

element **DefectTypeDefinition**

diagram	
children	prx:DefectName prx:Definition
used by	element Defects
annotation	documentation field that provides nomenclature for defects that will be evaluated by the print buyer

element **DefectXMeasure**

diagram	
used by	element DefectSize
annotation	documentation field that provides the width of a defect along the X (horizontal) axis in the defect unit of measure

element **DefectYMeasure**

diagram	
used by	element DefectSize
annotation	documentation field that provides the height of a defect along the Y (vertical) axis in the defect unit of measure

element **Definition**

diagram	
used by	element DefectTypeDefinition

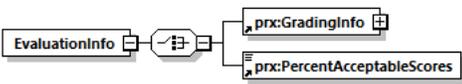
element **DesignersGoal**

diagram	
used by	elements CustomerItem CustomerJob
annotation	documentation field that carries designer quality intents that will be used by a print buyer to evaluate overall print quality

element **DesiredRank**

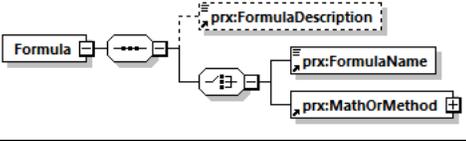
diagram	
used by	elements GradingInfo ScoringInfo
annotation	documentation field that provides the print buyer's target quality ranking on an integer scale greater than zero

element **EvaluationInfo**

diagram	
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children	prx:GradingInfo prx:PercentAcceptableScores
used by	element PRX
annotation	documentation set of fields that carry information that is used by a print buyer to evaluate overall print quality

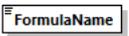
element **Formula**

diagram	
children	prx:FormulaDescription prx:FormulaName prx:MathOrMethod
used by	element BasisOfCalculation
annotation	documentation set of fields that provide the mathematical formula used by the print buyer to calculate print quality grades/scores

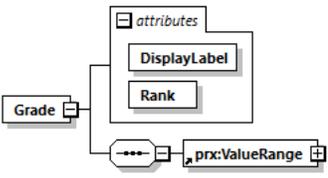
element **FormulaDescription**

diagram	
used by	element Formula
annotation	documentation field that provides a description of the formula

element **FormulaName**

diagram	
used by	element Formula
annotation	documentation field that provides the print buyer's designated name for the formula to be employed to calculate print quality scores or grades

element **Grade**

diagram	
children	prx:ValueRange
used by	element GradingScale
annotation	documentation field that provides the print buyer's method of assigning grades to the overall level of print quality for a printed item

attribute **Grade/@DisplayLabel**

attribute **Grade/@Rank**

element **GradeWeightingFactor**

diagram	
used by	element ScoringInfo

element **GradingInfo**

diagram	
children	prx:GradingScale prx:BasisOfCalculation prx:MinimumAcceptableRank prx:DesiredRank
used by	element EvaluationInfo
annotation	documentation set of fields that carry information that is used by a print buyer to grade print quality

element **GradingScale**

diagram	
children	prx:Grade prx:ZeroBaseline
used by	element GradingInfo
annotation	documentation set of fields that provide the print buyer's designation for overall print quality levels, or grades, and the meaning of each

element **ItemDescription**

diagram	
used by	element CustomerItem
annotation	documentation field that provides a description for this printed customer item

element **JobDescription**

diagram	
used by	element CustomerJob
annotation	documentation field that provides a description for this printed customer job type

element **JobTypeName**

diagram	
---------	--

used by	element CustomerJob
annotation	documentation field that provides a label or name for this customer job type

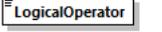
element **LocationDesignator**

diagram	
used by	elements BuyerInfo Specifier
annotation	documentation field that provides an identifier for the location of a company or party as a second level of identification for that company or party

element **LogicalConnector**

diagram										
used by	element ValueRange									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>AND</td> <td>documentation AND: and</td> </tr> <tr> <td>enumeration</td> <td>OR</td> <td>documentation OR: or</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	AND	documentation AND: and	enumeration	OR	documentation OR: or
Kind	Value	Annotation								
enumeration	AND	documentation AND: and								
enumeration	OR	documentation OR: or								
annotation	documentation field that provides a connector for combining complex functions used for ranking a print quality score or grade									

element **LogicalOperator**

diagram																									
used by	element ValueRange																								
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enumeration	PM	documentation PM: plus or minus																							
annotation	documentation field that provides the function used for ranking a print quality score or grade																								

element **MarkType**

diagram	
used by	element RegistrationParameter
annotation	documentation

	field that provides a classification or name of a registration mark to be employed
--	--

element **MathOrMethod**

diagram	
used by	element Formula
annotation	documentation field that provides the mathematical expression or written method label that the print buyer will employ to calculate or determine print quality grades/scores Note to Entry: Compliant PRX XML parsers are not required to process this data as it may be an XML-encoded formula (such as MathML or OpenMath) or it may be a formula expressed in a non-XML format such as LaTeX or ASCIImath or even a method described in written language.

element **MeasuredValue**

diagram	
annotation	documentation field that provides the value of a print-quality parameter measurement or observation

element **MinimumAcceptableRank**

diagram	
used by	elements GradingInfo ScoringInfo
annotation	documentation field that provides the print buyer's minimum quality ranking on an integer scale greater than zero

element **Operator**

diagram																									
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enumeration	PM	documentation PM: plus or minus																							
annotation	documentation field that provides the mathematical operator used to construct the function used for ranking a print quality score or grade																								

element **Origin**

diagram	
used by	element SamplingPositionMatrix

facets	Kind	Value	Annotation
	enumeration	BL	documentation BL: bottom left
	enumeration	BR	documentation BR: bottom right
	enumeration	TL	documentation TL: top left
	enumeration	TR	documentation TR: top right
annotation	documentation field that designates the starting point for a position definition		

element **ParameterName**

diagram	
used by	elements ColorParameter DefectParameter RegistrationParameter
annotation	documentation field that provides a label for the parameter being specified

element **ParameterScore**

diagram	
children	prx:ValueRange
used by	elements ColorScoringScale DefectParameterScale RegistrationScoringScale
annotation	documentation set of fields documenting the quality evaluation for an individual print quality parameter or a print quality parameter set

attribute **ParameterScore/@DisplayLabel**

attribute **ParameterScore/@Rank**

element **ParameterScoringScale**

diagram	
children	prx:Score prx:ZeroBaseline
annotation	documentation set of fields that provide the print buyer's enumerations for print parameter quality evaluation levels, or scores, and the meaning of each. Note to Entry: Not all print quality parameters have the same scoring scales. For example colour quality might be scored differently than barcode readability.

element **ParentCompany**

diagram	
used by	elements BuyerInfo Specifier

annotation	documentation field that identifies a company that controls a smaller, entity such as a printer, print buyer or agent
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element **PatchType**

diagram																									
used by	element ColorParameter																								
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annotation	documentation field that provides a classification for the patch being measured																								

element **PercentAcceptableScores**

diagram	
used by	element EvaluationInfo
annotation	documentation field that provides calculated percent of all scored parameters that must be within the print buyers acceptable scoring range

element **PositionDefinition**

diagram	
children	prx:XPosition prx:YPosition
used by	element SamplingPositionMatrix
annotation	documentation set of fields that define a single "PositionOnSample" location

attribute **PositionDefinition/@PositionLabel**

annotation	documentation field that provides name or identifier for the position
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element **PositionLocationImage**

diagram	
used by	element SamplingPositionImageData
annotation	documentation field in the location image data block that carries the unique identification of one sampling position image

attribute **PositionLocationImage/@Id**

annotation	documentation field that provides unique identification for a location image
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attribute **PositionLocationImage/@ImageLink**

annotation	documentation field that provides a link to the sampling position location image. If this is a local URI, the assumption is that the images are zipped along with the PRX Message that references them. A remote URL can be used to reference a remote secure server where images are stored.
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element **PrintMethod**

diagram																												
used by	element QualitySpecification																											
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>offsetLithography</td> <td>documentation Offset Lithography: printing method using a flat surface treated so as to repel the ink except where it is required for printing.</td> </tr> <tr> <td>enumeration</td> <td>dryOffset</td> <td>documentation Dry Offset: printing method in which the inked impression from letterpress or relief is etched on a thin metal surface, then printed on an intermediate rubber surface (as a blanket), and then offset onto the paper.</td> </tr> <tr> <td>enumeration</td> <td>flexography</td> <td>documentation Flexography: rotary relief printing method using rubber or plastic plates and fluid inks or dyes for printing on fabrics and impervious materials such as plastics, as well as on paper.</td> </tr> <tr> <td>enumeration</td> <td>gravure</td> <td>documentation Gravure: printing method that produces an image from etching a plate through an intaglio process and producing a print from it.</td> </tr> <tr> <td>enumeration</td> <td>inkjet</td> <td>documentation Ink Jet Printer: printing method that uses a computer peripheral that produces hard copy by spraying ink onto paper.</td> </tr> <tr> <td>enumeration</td> <td>screen</td> <td>documentation Screen Print: printing method that forces ink or metal onto (a surface) through a prepared screen of fine material so as to create a picture or pattern.</td> </tr> <tr> <td>enumeration</td> <td>electrophotography</td> <td>documentation Electrophotography: printing method that uses photography employing electricity to transfer an image onto paper, as in laser printing and photocopying</td> </tr> <tr> <td>enumeration</td> <td>dyeSublimation</td> <td>documentation</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	offsetLithography	documentation Offset Lithography: printing method using a flat surface treated so as to repel the ink except where it is required for printing.	enumeration	dryOffset	documentation Dry Offset: printing method in which the inked impression from letterpress or relief is etched on a thin metal surface, then printed on an intermediate rubber surface (as a blanket), and then offset onto the paper.	enumeration	flexography	documentation Flexography: rotary relief printing method using rubber or plastic plates and fluid inks or dyes for printing on fabrics and impervious materials such as plastics, as well as on paper.	enumeration	gravure	documentation Gravure: printing method that produces an image from etching a plate through an intaglio process and producing a print from it.	enumeration	inkjet	documentation Ink Jet Printer: printing method that uses a computer peripheral that produces hard copy by spraying ink onto paper.	enumeration	screen	documentation Screen Print: printing method that forces ink or metal onto (a surface) through a prepared screen of fine material so as to create a picture or pattern.	enumeration	electrophotography	documentation Electrophotography: printing method that uses photography employing electricity to transfer an image onto paper, as in laser printing and photocopying	enumeration	dyeSublimation	documentation
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	<p>enumeration <code>letterPress</code> documentation Dye Sublimation: printing method which uses heat to transfer dye onto materials such as a plastic, card, paper, or fabric. The sublimation name was first applied because the dye was considered to make the transition between the solid and gas states without going through a liquid stage.</p> <p>enumeration <code>hybrid</code> documentation Letterpress: oldest form of printing inking a surface with raised letters pressed to the surface of the printing substrate to reproduce an image in reverse.</p> <p>enumeration <code>other</code> documentation Hybrid Printing: printing using a combination of methods such as inkjet and digital.</p> <p>enumeration <code>any</code> documentation Other Method: another method not enumerated by PRX for printing an item. documentation Any Method: buyer does not specify the print method.</p>
annotation	documentation field that provides an account of the mechanism by which the sample was printed

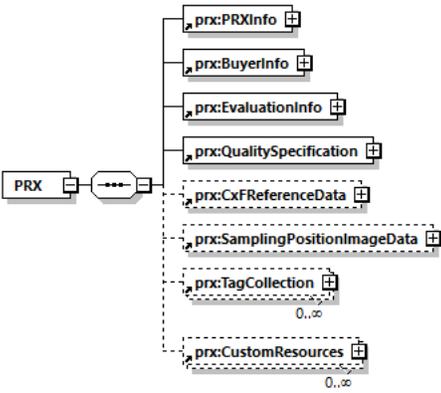
element **PrintSide**

diagram										
used by	elements CustomerItem CustomerJob									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td><code>surface</code></td> <td>documentation Surface Side Printed: The press prints the image on the surface of the substrate.</td> </tr> <tr> <td>enumeration</td> <td><code>reverse</code></td> <td>documentation Reverse Side Printed: The press prints the image on the reverse side of the substrate.</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	<code>surface</code>	documentation Surface Side Printed: The press prints the image on the surface of the substrate.	enumeration	<code>reverse</code>	documentation Reverse Side Printed: The press prints the image on the reverse side of the substrate.
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enumeration	<code>reverse</code>	documentation Reverse Side Printed: The press prints the image on the reverse side of the substrate.								
annotation	documentation field that provides the side of the substrate where the image is printed									

element **Product**

diagram	
used by	elements CustomerItem CustomerJob
annotation	documentation field that provides a word or words by which an item offered for sale is known

element **PRX**

diagram	
children	prx:PRXInfo prx:BuyerInfo prx:EvaluationInfo prx:QualitySpecification prx:CxFReferenceData prx:SamplingPositionImageData prx:TagCollection prx:CustomResources

annotation	documentation root element of a print quality requirements data exchange from print buyers to print service providers and relevant stake holders
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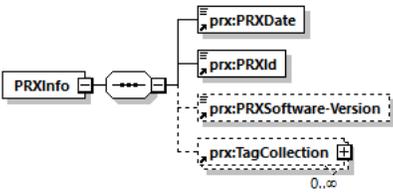
element **PRXDate**

diagram	
used by	element PRXInfo
annotation	documentation field that captures the transmission date or date/time in ISO format for this PRX message

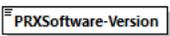
element **PRXId**

diagram	
used by	element PRXInfo
annotation	documentation field that provides an identifier for the PRX quality requirements data, unique within scope of the system of origin on the specified PRXDate

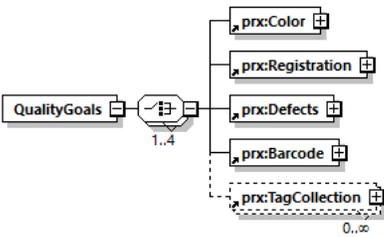
element **PRXInfo**

diagram	
children	prx:PRXDate prx:PRXId prx:PRXSoftware-Version prx:TagCollection
used by	element PRX
annotation	documentation set of fields that provide metadata about this PRX data exchange

element **PRXSoftware-Version**

diagram	
used by	element PRXInfo
annotation	documentation field that is used to indicate the software product and version used to generate this PRX message

element **QualityGoals**

diagram	
---------	---

children	prx:Color prx:Registration prx:Defects prx:Barcode prx:TagCollection
used by	elements CustomerItem CustomerJob
annotation	documentation set of fields that specify goals for print quality parameters that will be used by a print buyer to evaluate overall print quality

element **QualitySpecification**

diagram	
children	prx:QualitySpecName prx:QualitySpecVersion prx:PrintMethod prx:Specifier prx:CustomerJob prx:CustomerItem prx:TagCollection
used by	element PRX
annotation	documentation set of fields containing the quality goals and evaluation criteria set by a print buyer or their specifier for a specific printed item(s) or for a general job type

element **QualitySpecName**

diagram	
used by	element QualitySpecification
annotation	documentation field that provides a word or set of words used by a print buyer to identify a quality specification

element **QualitySpecVersion**

diagram	
used by	element QualitySpecification
annotation	documentation field that provides a version identifier for a quality specification that has been updated or changed over time

element **Registration**

diagram	
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children	prx:RegistrationScore prx:RegistrationParameter prx:AdditionalInfo prx:TagCollection
used by	element QualityGoals
annotation	documentation set of fields that provide quality requirements for registration and indicate how that parameter will be evaluated by the print buyer

element **RegistrationParameter**

diagram	
children	prx:ParameterName prx:RegistrationReportType prx:MarkType prx:CustomerItemIdLink prx:SamplingPosition prx:ScoreWeightingFactor prx:TagCollection
used by	element Registration
annotation	documentation field that provides a registration reporting to be employed

element **RegistrationReportType**

diagram										
used by	element RegistrationParameter									
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enumeration	channel	documentation Channel: registration reporting of the maximum variance of all printed inks relative to a reference ink channel for a printed sample								
annotation	documentation field that provides the type registration reporting to be employed									

element **RegistrationScore**

diagram	
children	prx:ScoringInfo prx:RegistrationScoringScale
used by	element Registration
annotation	documentation set of fields that indicate how registration will be evaluated by the print buyer

element **RegistrationScoringScale**

diagram	
children	prx:UoM prx:ParameterScore prx:ZeroBaseline
used by	element RegistrationScore
annotation	documentation set of fields that provide the print buyer's enumerations for registration evaluation levels, or scores, and the meaning of each

attribute **RegistrationScoringScale/@ScoringInput**

annotation	documentation set field indicating linear variance on printed registration mark as the input into color scoring calculation
------------	--

element **RunLength**

diagram	
annotation	documentation set of fields that provides the length of the press run that produced the printed sample from which print quality data was captured

attribute **RunLength/@TotalRolls**

annotation	documentation field that provides the total number of substrate rolls used for the press run
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attribute **RunLength/@TotalMeterage**

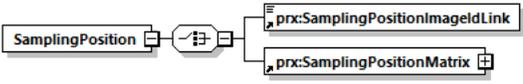
annotation	documentation field that provides the total meterage or count indicator value for the entire press run
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attribute **RunLength/@UoM**

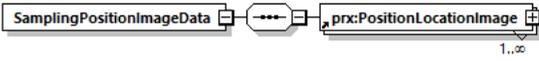
facets	Kind	Value	Annotation
	enumeration	ft	documentation Foot Type: abbreviation for foot
	enumeration	in	documentation Inch Type: abbreviation for inch
	enumeration	yd	documentation Yard Type: abbreviation for yard
	enumeration	m	documentation MeterType: abbreviation for meter
	enumeration	cm	documentation Centimeter Type: abbreviation for centimeter
	enumeration	mm	documentation Milimeter Type: abbreviation for milimeter

	enumeration nm	documentation Nanometer Type: abbreviation for nanometer
	enumeration um	documentation Micrometer Type: abbreviation for micron
	enumeration pt	documentation Point Type: abbreviation for relative measure of point
	enumeration pc	documentation Pica Type: abbreviation for relative measure of pica
	enumeration ln	documentation Line Type: abbreviation for relative measure of a line
	enumeration ft2	documentation FootSquared : abbreviation for square foot
	enumeration in2	documentation Inch Squared Type: abbreviation for square inch
	enumeration yd2	documentation Yard Squared Type: abbreviation for square yard
	enumeration m2	documentation Meter Squared Type: abbreviation for square meter
	enumeration cm2	documentation Centimeter Squared Type: abbreviation for square centimeter
	enumeration mm2	documentation Milimeter Squared Type: abbreviation for square millimeter
	enumeration nm2	documentation Nanometer Squared Type: abbreviation for square nanometer
	enumeration um2	documentation Micrometer Squared Type: abbreviation for square micron
	enumeration pt	documentation Point Type: abbreviation for relative measure of point
	enumeration pc	documentation Pica Type: abbreviation for relative measure of pica
	enumeration ln	documentation Line Type: abbreviation for relative measure of a line
	enumeration dE	documentation DeltaE Type: abbreviation for DeltaE
	enumeration dE2000	documentation DeltaE Type: abbreviation for DeltaE
	enumeration dE76	documentation DeltaE Type: abbreviation for DeltaE
	enumeration items	documentation Item Type: measure of the number of printed items such as cans, bottles, sheets, etc.
	enumeration percent	documentation Percent Type: measure of the percent of printed items such as cans, bottles, sheets, etc.
	enumeration count	documentation Count Type: measure of the occurrence number (such as defect count)
	enumeration severity	documentation Severity Type: the defect level of severity (on a scale of 1-10 with 1 being the least severe)
	enumeration ISONumericScore	documentation ISO Numeric Score: the ISO verification score employing a scale from 0.0 (low) to 4.0 (high)
annotation		documentation field that provides the unit used for expressing the meterage for the press-run position

element **SamplingPosition**

diagram	
children	prx:SamplingPositionImageLink prx:SamplingPositionMatrix
used by	elements BarcodeParameter ColorParameter DefectOccurence DefectParameter RegistrationParameter
annotation	documentation set of fields that provide the positions on a sample that the buyer requires quality measurement or observation and reporting

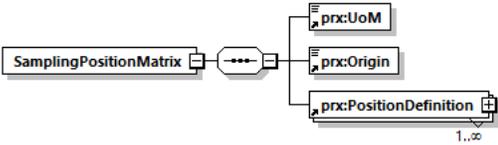
element **SamplingPositionImageData**

diagram	
children	prx:PositionLocationImage
used by	element PRX
annotation	documentation set of fields that identify the sampling position location images

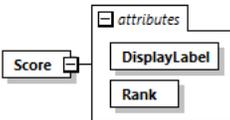
element **SamplingPositionImageLink**

diagram	
used by	element SamplingPosition
annotation	documentation link to the image of a samplinf position contained in the SamplingPositionImageData block

element **SamplingPositionMatrix**

diagram	
children	prx:UoM prx:Origin prx:PositionDefinition
used by	element SamplingPosition
annotation	documentation set of fields that provide the geometric coordinates for sampling on a printed customer items

element **Score**

diagram	
used by	element BarcodeScoringScale complexType scoringScaleType
annotation	documentation set of fields documenting the quality evaluation for an individual print quality parameter or a print quality parameter set

attribute **Score/@DisplayLabel**
 attribute **Score/@Rank**
 element **ScoreWeightingFactor**

diagram	
used by	elements BarcodeParameter ColorParameter DefectParameter RegistrationParameter
annotation	documentation positive integer used to provide an increased value to the rank of a scoring parameter when an overall score is calculated

element **ScoringInfo**

diagram	
children	prx:BasisOfCalculation prx:MinimumAcceptableRank prx:DesiredRank prx:GradeWeightingFactor
used by	elements BarcodeScore ColorScore Defects RegistrationScore
annotation	documentation set of fields that provide information required to indicate how that parameter will be scored by the print buyer

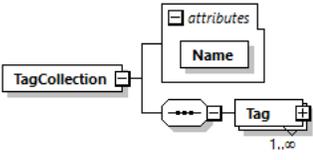
element **ScoringScale**

diagram	
children	prx:Score prx:ZeroBaseline
annotation	documentation set of fields that provide the print buyer's enumerations for print quality parameter set evaluation levels, or scores, and the meaning of each

element **Specifier**

diagram	
children	prx:ParentCompany prx:CompanyName prx:LocationDesignator prx>ContactDesignator
used by	element QualitySpecification
annotation	documentation set of fields that identify the party responsible for specifying print quality requirements

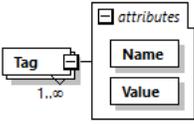
element **TagCollection**

diagram	
children	Tag
used by	elements Barcode BarcodeParameter BuyerInfo Color ColorParameter CustomerItem CustomerJob DefectParameter Defects PRX PRXInfo QualityGoals QualitySpecification Registration RegistrationParameter
annotation	documentation set of customizable generic XML tags that provide extensibility to the PRX

attribute **TagCollection/@Name**

annotation	documentation Name: The required key or name for a custom PRX tag.
------------	---

element **TagCollection/Tag**

diagram	
annotation	documentation element designed to transmit custom print quality metadata as a name / value pair.

attribute **TagCollection/Tag/@Name**

annotation	documentation required key or name for a custom PRX tag.
------------	---

attribute **TagCollection/Tag/@Value**

annotation	documentation required value for a custom PRX tag.
------------	---

element **UoM**

diagram																									
used by	elements ColorScoringScale DefectParameterScale DefectSize RegistrationScoringScale SamplingPositionMatrix																								
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	enumeration	um2	Nanometer Squared Type: abbreviation for square nanometer documentation
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	enumeration	ln	Pica Type: abbreviation for relative measure of pica documentation
	enumeration	dE	Line Type: abbreviation for relative measure of a line documentation
	enumeration	dE2000	DeltaE Type: abbreviation for DeltaE documentation
	enumeration	dE76	DeltaE Type: abbreviation for DeltaE documentation
	enumeration	items	DeltaE Type: abbreviation for DeltaE documentation
	enumeration	percent	Item Type: measure of the number of printed items such as cans, bottles, sheets, etc. documentation
	enumeration	count	Percent Type: measure of the percent of printed items such as cans, bottles, sheets, etc. documentation
	enumeration	severity	Count Type: measure of the occurrence number (such as defect count) documentation
	enumeration	ISONumericScore	Severity Type: the defect level of severity (on a scale of 1-10 with 1 being the least severe) documentation
			ISO Numeric Score: the ISO verification score employing a scale from 0.0 (low) to 4.0 (high)
annotation	documentation field that provides the unit of measure to be used for a value statement		

element **ValueRange**

diagram	
children	prx:LogicalOperator prx:CalculatedValue prx:LogicalConnector
used by	elements Grade ParameterScore
annotation	documentation set of fields that provide a logical expression used to assign a numeric rank to an overall print quality grade or score

element **VerificationType**

diagram	
annotation	documentation set of fields that provide the type of verification a print buyer employs

element **WeightedPercentage**

diagram	
used by	element BasisOfCalculation

element **XPosition**

diagram	
used by	element PositionDefinition
annotation	documentation field that provides the sampling location on a printed item measured along the X (horizontal) axis in the position unit of measure

element **YPosition**

diagram	
used by	element PositionDefinition
annotation	documentation field that provides the sampling location on a printed item measured along the Y (vertical) axis in the position unit of measure

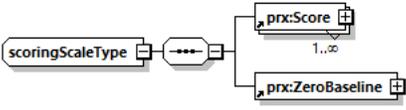
element **ZeroBaseline**

diagram	
used by	elements BarcodeScoringScale ColorScoringScale DefectParameterScale GradingScale RegistrationScoringScale complexType scoringScaleType

annotation	documentation field that identifies the lowest quality ranking based on a numeric value of zero
------------	--

attribute **ZeroBaseline/@DisplayLabel**

complexType **scoringScaleType**

diagram	
children	prx:Score prx:ZeroBaseline
used by	elements ParameterScoringScale ScoringScale

simpleType **colorReportTypeType**

used by	element ColorReportType									
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enumeration	direct	documentation Direct Type: color report where CxF values are directly utilized by the receiver								
annotation	documentation PQX datatype made up of a list of standard color report types									

simpleType **connectorType**

used by	element LogicalConnector									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>AND</td> <td>documentation AND: and</td> </tr> <tr> <td>enumeration</td> <td>OR</td> <td>documentation OR: or</td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	AND	documentation AND: and	enumeration	OR	documentation OR: or
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simpleType **customerItemIdListType**

used by	simpleType customerItemIdType															
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annotation	documentation PRX datatype made up of a list of standard print item identifier types															

simpleType **customerItemIdType**

used by	attribute CustomerItem/@IdDisplayName
annotation	documentation PRX datatype made up of the union of standard print item identifier types and a user-defined custom value

simpleType **customValueType**

used by	simpleTypes customerItemIdType gradeLabelType
---------	---

annotation	documentation PRX datatype used to define custom values
------------	--

simpleType **dateOrDateTime**

used by	element PRXDate
---------	---------------------------------

simpleType **gradeLabelListType**

used by	simpleType gradeLabelType																																																
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annotation	documentation PRX datatype made up of a list of standard grading label types																																																

simpleType **gradeLabelType**

used by	attributes Grade/@DisplayLabel ParameterScore/@DisplayLabel Score/@DisplayLabel ZeroBaseline/@DisplayLabel
annotation	documentation PRX datatype made up of the union of standard grade label types, non-negative integers and a user-defined custom value

simpleType **meterageUoMType**

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	enumeration	items	Line Type: abbreviation for relative measure of a line documentation Item Type: measure of the number of printed items such as cans, bottles, sheets, etc.
annotation	documentation		PQX datatype made up of a list of standard length measurement types

simpleType **meterageValueType**

used by	attribute	RunLength/@TotalMeterage
annotation	documentation	PQX datatype defining non-negative decimal values used to measure meterage

simpleType **one2tenType**

used by	element	DefectSeverity
annotation	documentation	PQX datatype defining the expression integers from 0 to 180 for expression of degree of angle

simpleType **operatorType**

used by	elements	LogicalOperator Operator	
facets	Kind	Value	Annotation
	enumeration	EQ	documentation EQ: equal to
	enumeration	NEQ	documentation NEQ: not equal to
	enumeration	GT	documentation GT: greater than
	enumeration	GTE	documentation GTE: greater than or equal to
	enumeration	LT	documentation LT: less than
	enumeration	LTE	documentation LTE: less than or equal to
	enumeration	PM	documentation PM: plus or minus

simpleType **originType**

used by	element	Origin	
facets	Kind	Value	Annotation
	enumeration	BL	documentation BL: bottom left
	enumeration	BR	documentation BR: bottom right
	enumeration	TL	documentation TL: top left
	enumeration	TR	documentation TR: top right
annotation	documentation		PRX datatype made up of a list of position origin types

simpleType **percent**

simpleType **percentType**

used by	elements DefectPercent PercentAcceptableScores
annotation	documentation PQX datatype defining the expression of a percentage

simpleType **printMethodType**

used by	element PrintMethod																																							
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annotation	documentation PRX datatype made up of a list of standard print method types																																							

simpleType **printSideType**

used by	element PrintSide
facets	Kind Value Annotation

	enumeration	surface	documentation Surface Side Printed: The press prints the image on the surface of the substrate.
	enumeration	reverse	documentation Reverse Side Printed: The press prints the image on the reverse side of the substrate.
annotation	documentation PRX datatype made up of a list standard print side indicator types		

simpleType **registrationReportType**

used by	element RegistrationReportType		
facets	Kind	Value	Annotation
	enumeration	variance	documentation Variance: registration reporting of the maximum variance of all printed inks for a printed sample
	enumeration	channel	documentation Channel: registration reporting of the maximum variance of all printed inks relative to a reference ink channel for a printed sample
annotation	documentation PRX datatype made up of a list of registration reporting types		

simpleType **UoMType**

used by	element UoM attribute RunLength/@UoM		
facets	Kind	Value	Annotation
	enumeration	ft	documentation Foot Type: abbreviation for foot
	enumeration	in	documentation Inch Type: abbreviation for inch
	enumeration	yd	documentation Yard Type: abbreviation for yard
	enumeration	m	documentation MeterType: abbreviation for meter
	enumeration	cm	documentation Centimeter Type: abbreviation for centimeter
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	enumeration	ISONumericScore	documentation ISO Numeric Score: the ISO verification score employing a scale from 0.0 (low) to 4.0 (high)
annotation	documentation PRX datatype made up of a list of standard length measurement types, area types and other relevant types		

simpleType **yesno**

facets	Kind	Value	Annotation
	enumeration	Yes	
	enumeration	No	

attribute **Rank**

annotation	documentation field that assigns an integer to a print quality grade or score based on a scale of zero or more, where the greater the integer, the higher the print quality evaluation
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