

# ISO20616-2PQX.xsd

## Schema Documentation

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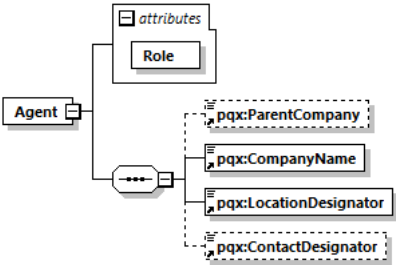
<a href="#"><u>Codewords</u></a>	<a href="#"><u>uoTimeType</u></a>
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## element **Agent**

diagram						
namespace	http://idealliance.org/ppx					
children	<a href="#">ppx:ParentCompany</a> <a href="#">ppx:CompanyName</a> <a href="#">ppx:LocationDesignator</a> <a href="#">ppx:ContactDesignator</a>					
used by	element <a href="#">CustomerItem</a>					
attributes	Name <a href="#">Role</a>	Type <a href="#">ppx:agentRoleType</a>	Use required	Default	Fixed	Annotation documentation field indicating the part played by an entity as part of a complex print buying supply chain
annotation	documentation field that identifies a secondary party interested in print quality such as a broker, print buyer or supplier					

## attribute **Agent/@Role**


type	<a href="#">pqx:agentRoleType</a>		
facets	Kind	Value	Annotation
	enumeration	broker	<a href="#">documentation</a> Broker: agent that sells print service.
	enumeration	preMediaCompany	<a href="#">documentation</a> Pre-media Company: agent that prepares digital media to be printed.
	enumeration	printQualityServiceProvider	<a href="#">documentation</a> Print Quality Service Provider: agent that provides quality assurance services to a print buyer.
	enumeration	supplier	<a href="#">documentation</a> Supplier: agent that provides supplies, such as inks or substrates, to the printer or is a supplier to the print buyer.
	enumeration	other	<a href="#">documentation</a> Other Agent: any other party that plays a role in the print quality supply chain.
	enumeration	NA	<a href="#">documentation</a> NA: an indication that an agent does not participate in this activity.
annotation	<a href="#">documentation</a> field indicating the part played by an entity as part of a complex print buying supply chain		

## element **AlignmentDescription**

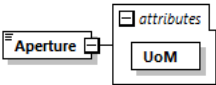
diagram						
namespace	http://idealliance.org/ppx					

type	<b>xs:string</b>
used by	element <a href="#">ObservedChannel</a>
annotation	documentation field that provides an account of the registration alignment of a printed ink on the sample that comes from a visual observation of the registration mark or simply from observing the printed sample

#### element **AngleOfLight**

diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:zero2180Type</a>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the angle of incidence (relative to the plane of the barcode symbol) of the illumination of the barcode verifier

#### element **Aperture**

diagram						
namespace	http://idealliance.org/pqx					
type	extension of <b>xs:decimal</b>					
used by	elements <a href="#">Traditional1DVerification</a> <a href="#">Traditional2DVerification</a>					
attributes	Name <a href="#">UoM</a>	Type <a href="#">pqx:linearUoMType</a>	Use required	Default	Fixed	Annotation documentation aperture unit of measure such as "mil" or "mm".
annotation	documentation field of a barcode report that expresses the diameter of the circular opening on a verifier that provides the field of view for barcode verification					

#### attribute **Aperture/@UoM**

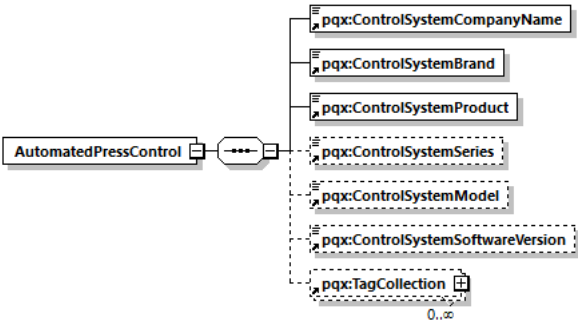
type	<a href="#">pqx:linearUoMType</a>					
facets	Kind enumeration	Value ft	Annotation documentation Foot Type: abbreviation for foot			
	enumeration	in	documentation Inch Type: abbreviation for inch			

enumeration	mil	documentation Thou Type: abbreviation for .001 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	ft2	documentation Square foot Type: abbreviation for square foot
enumeration	in2	documentation Sqare Inch Type: abbreviation for square inch
enumeration	yd2	documentation Square Yard Type: abbreviation for square yard
enumeration	m2	documentation Square MeterType: abbreviation for square meter
enumeration	cm2	documentation Square Centimeter Type: abbreviation for square centimeter
enumeration	mm2	documentation Square Milimeter Type: abbreviation for square milimeter
enumeration	nm2	documentation Square Nanometer Type: abbreviation for square nanometer
enumeration	um2	documentation Square Micrometer 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




annotation	documentation aperture unit of measure such as "mil" or "mm".
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#### element **AutomatedPressControl**

diagram	 <pre> graph LR     APC[AutomatedPressControl] --- CS[ControlSystem]     CS --- CS_CN[pqx:ControlSystemCompanyName]     CS --- CS_B[pqx:ControlSystemBrand]     CS --- CS_P[pqx:ControlSystemProduct]     CS --- CS_S[pqx:ControlSystemSeries]     CS --- CS_M[pqx:ControlSystemModel]     CS --- CS_SV[pqx:ControlSystemSoftwareVersion]     CS --- TC[pqx:TagCollection]     TC --- TC_01[0..∞] </pre>
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ControlSystemCompanyName</a> <a href="#">pqx:ControlSystemBrand</a> <a href="#">pqx:ControlSystemProduct</a> <a href="#">pqx:ControlSystemSeries</a> <a href="#">pqx:ControlSystemModel</a> <a href="#">pqx:ControlSystemSoftwareVersion</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">Reporter</a>
annotation	documentation set of fields that describe the digital, on-press system responsible for data capture for a quality report


#### element **AverageBarGain**

diagram	 <pre> graph LR     ABG[AverageBarGain] </pre>
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that indicates the amount of physical spreading of a printed bar due to ink wicking and/or impression force or pressure

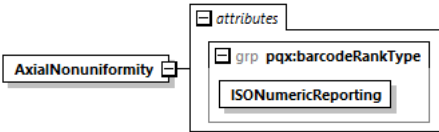
#### element **AverageGrade**

diagram	 <pre> graph LR     AG[AverageGrade] </pre>
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the average grade for the for the fixed pattern based on the grades for the L-sides, quiet zones and the overall grade for the clock track and adjacent solid pattern

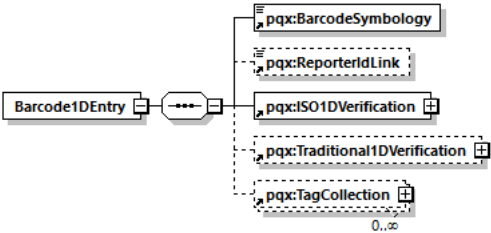
## element **AveragingMethod**

diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:averagingMethodType</a>		
used by	elements <a href="#">MeasuredChannel</a> <a href="#">MeasuredMax</a> <a href="#">Measurement</a>		
facets	Kind	Value	Annotation
	enumeration	arithmeticMean	documentation Arithmetic Mean: the average of a set of numerical values contributing equally to the final average, calculated by adding them together and dividing by the number of terms in the set.
	enumeration	weightedMean	documentation Weighted Mean: the average of a set of numerical values, calculated by multiplying each value by a weighting factor, then adding them together and dividing by the number of terms in the set.
	enumeration	median	documentation Median: value or quantity lying at the midpoint of a frequency distribution of observed values or quantities, such that there is an equal probability of falling above or below it:
	enumeration	custom	documentation Custom Averaging: average calculated by a custom formula.
	enumeration	none	documentation No Averaging: no average is calculated or employed.
	enumeration	NA	documentation NA: Averaging does not apply in this situation.
annotation	documentation field that describes the technique used to generate reporting values for this PQX report		

## element **AxialNonuniformity**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">ISO2DVerification</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">ISONumericReporting</a>	<a href="#">pqx:numericGradeType</a>	required			documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation (AUX) field of a barcode report that measures uneven scaling of the 2D barcode symbol					

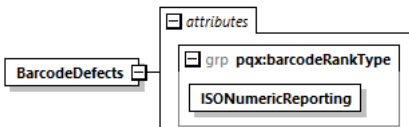
## element **Barcode1DEntry**

diagram	 The diagram shows the Barcode1DEntry element as a container for a sequence of child elements. The children are: pqx:BarcodeSymbology, pqx:ReporterIdLink, pqx:ISO1DVerification, pqx:Traditional1DVerification, and pqx:TagCollection. The pqx:TagCollection element is marked with a cardinality of 0..∞.
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:BarcodeSymbology</a> <a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:ISO1DVerification</a> <a href="#">pqx:Traditional1DVerification</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">VerificationSet</a>
annotation	documentation set of fields in the barcode report that contains quality data about a linear barcode

## element **Barcode2DEntry**

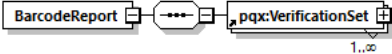
diagram	 The diagram shows the Barcode2DEntry element as a container for a sequence of child elements. The children are: pqx:BarcodeSymbology, pqx:ReporterIdLink, pqx:Codewords, pqx:ISO2DVerification, pqx:FPDDetails, pqx:Traditional2DVerification, and pqx:TagCollection. The pqx:TagCollection element is marked with a cardinality of 0..∞.
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:BarcodeSymbology</a> <a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:Codewords</a> <a href="#">pqx:ISO2DVerification</a> <a href="#">pqx:FPDDetails</a> <a href="#">pqx:Traditional2DVerification</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">VerificationSet</a>
annotation	documentation set of fields in the barcode report that contains quality data about a two-dimensional barcode

## element **BarcodeDefects**

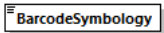
diagram						
namespace	http://idealliance.org/pqx					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a> <a href="#">Traditional1DVerification</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">ISONumericReporting</a>	<a href="#">pqx:numericGradeType</a>	required			documentation ISO Numeric Reporting:

	employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures the percent of voids in the bars or artefacts in the spaces between bars resulting in an inability to verify the barcode

### element **BarcodeReport**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:VerificationSet</a>
used by	element <a href="#">Sample</a>
annotation	documentation set of fields that provide an account of the quality of the printed barcode on a sample

### element **BarcodeSymbology**

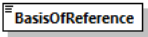
diagram			
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
type	<a href="#">pqx:barcodeSymbolType</a>		
used by	elements <a href="#">Barcode1DEntry</a> <a href="#">Barcode2DEntry</a>		
facets	Kind	Value	Annotation
	enumeration	AztecCode	<a href="#">documentation</a> Aztec 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	<a href="#">documentation</a> 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	<a href="#">documentation</a> 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	<a href="#">documentation</a> 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	<a href="#">documentation</a> 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

enumeration	Code32	<p>symbology defining 43 characters.</p> <p><a href="#">documentation</a></p> <p>Code 32: was used all over Italy for the encoding of pharmaceutical products.</p>
enumeration	CrontoSign	<p><a href="#">documentation</a></p> <p>CrontoSign: graphical cryptogram consisting of a matrix of colored dots used to secure banking transactions.</p>
enumeration	Pharmacode	<p><a href="#">documentation</a></p> <p>Pharmacode: 1D barcode used mainly in the pharmaceutical manufacturing.</p>
enumeration	ExtendedCode39	<p><a href="#">documentation</a></p> <p>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.</p>
enumeration	Code49	<p><a href="#">documentation</a></p> <p>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.</p>
enumeration	Code93	<p><a href="#">documentation</a></p> <p>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.</p>
enumeration	CompositeCode	<p><a href="#">documentation</a></p> <p>Composite Code: 2D barcode symbol included above a DataBar, UPC, EAN, or Code 128 barcode to encode additional data.</p>
enumeration	CPCBinary	<p><a href="#">documentation</a></p> <p>CPC Binary Barcode: Canada Post's proprietary symbology used in its automated mail sortation operations.</p>
enumeration	DataMatrix	<p><a href="#">documentation</a></p> <p>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.</p>
enumeration	EAN-2	<p><a href="#">documentation</a></p> <p>EAN-2: isupplement to the EAN-13 and UPC-A barcodes. It is often used on magazines and periodicals to indicate an issue number.</p>
enumeration	EAN-5	<p><a href="#">documentation</a></p> <p>EAN-5: 5 digit supplement to the EAN-13 barcode used on books.</p>
enumeration	EAN-8	<p><a href="#">documentation</a></p> <p>EAN-8: barcode and is derived from the longer International Article Number (EAN-13) code used on small packages.</p>
enumeration	EAN-13	<p><a href="#">documentation</a></p> <p>EAN-13: superset of the original 12-digit Universal Product Code (UPC-A) standard with 3 added digits to indicate country and product.</p>
enumeration	EANBookland	<p><a href="#">documentation</a></p> <p>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.</p>
enumeration	HAN-XINBarcode	<p><a href="#">documentation</a></p> <p>Han Xin barcode is a 2D barcode developed by China for the encoding the Chinese characters and other text information efficiently.</p>
enumeration	HighCapacityColorBarcode	<p><a href="#">documentation</a></p>

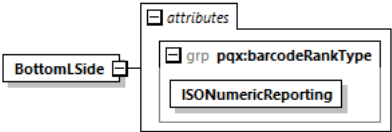
enumeration	IntelligentMailBarcode	<p>High Capacity Color Barcode: (HCCB) is a technology developed by Microsoft for encoding data in a 2D "barcode" using clusters of colored triangles instead of the square pixels conventionally associated with 2D barcodes or QR codes.</p> <p><a href="#">documentation</a></p> <p>The Intelligent Mail Barcode: (IM barcode) is a 65-bar code for use to efficiently deliver mail in the United States.</p>
enumeration	Industrial2of5	<p><a href="#">documentation</a></p> <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>
enumeration	Interleaved2of5	<p><a href="#">documentation</a></p> <p>Interleaved 2of5: 1D barcode with nine functional characters (123456789) and one symbol check character (5).</p>
enumeration	ITF-14	<p><a href="#">documentation</a></p> <p>ITF 14: 1D barcode symbology which is derived from interleaved 2 of 5 and easily encodes 14 digits.</p>
enumeration	JAN	<p><a href="#">documentation</a></p> <p>JAN: thirteen-digit EAN-13 where a prefix with the first two digits of "45" or "49" indicates a Japanese Article Number.</p>
enumeration	KarTrak	<p><a href="#">documentation</a></p> <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>
enumeration	LOGMARS	<p><a href="#">documentation</a></p> <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>
enumeration	MaxiCode	<p><a href="#">documentation</a></p> <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>
enumeration	MMCC	<p><a href="#">documentation</a></p> <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>
enumeration	MSIPlessey	<p><a href="#">documentation</a></p> <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>
enumeration	OPCOpticalIndustryAssociation	<p><a href="#">documentation</a></p> <p>OPC: barcode for marking retail optical products.</p>
enumeration	PDF-417	<p><a href="#">documentation</a></p> <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>
enumeration	Plessey	<p><a href="#">documentation</a></p> <p>Plessey Code is a 1D barcode used in some libraries and for shelf tags in retail stores to support internal stock control.</p>
enumeration	PostBar	<p><a href="#">documentation</a></p> <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>

	enumeration	POSTNET	documentation 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.
	enumeration	QRCode	documentation QR Code (Quick Response Code) is a machine-readable code consisting of an array of black and white squares, typically used for storing URLs or other information for reading by the camera on a smartphone.
	enumeration	SCC-14	documentation SCC 14 barcode or Shipping Container Code is a 14-digit number assigned to fixed content shipping containers.
	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.
	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.
	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
	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.
	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.
	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.
	enumeration	other	documentation Other is designated for a barcode not found on the PQX list of standard barcode types
annotation	documentation field that provides a classification of a barcode image		

## element **BasisOfReference**

diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:referenceType</a>		
used by	element <a href="#">DefectSet</a>		
facets	Kind enumeration	Value prepressFile	Annotation documentation Defect Prepress Reference: Defect evaluation was made by comparison to a reference prepress file such as a pdf or JPG image.
	enumeration	okSheet	documentation defect evaluation was made by comparison to a printed item designated as the "OK Sheet". The "OK Sheet" may be from a previous press run.
	enumeration	proof	documentation Defect Proof Reference: Defect evaluation was made by comparison to a proof.
annotation	documentation field that specifies the reason behind the determination of a defect through comparison to an acceptable item		

## element **BottomLSide**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures the damage occurring in the bottom solid side of the L border of a Data Matrix 2D barcode					


## element **BottomQZ**

diagram						
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namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field that captures damage to the required minimum blank space at the bottom of a 2D barcode					

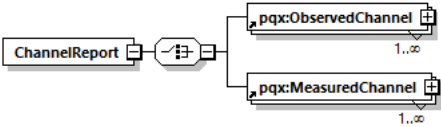
#### element **Brand**

diagram						
namespace	http://idealliance.org/pqx					
type	<b>xs:string</b>					
used by	element <a href="#">CustomerItem</a>					
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						
namespace	http://idealliance.org/pqx					
type	<b>xs:string</b>					
used by	element <a href="#">CustomerItem</a>					
annotation	documentation field that identifies the product brand owner's brand and product designation (expressed as a concatenated string with a vertical bar separator) for an item offered for sale					

#### element **ChannelReport**


diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:ObservedChannel</a> <a href="#">pqx:MeasuredChannel</a>					
used by	element <a href="#">RegistrationSet</a>					
annotation	documentation set of fields that provide a description of the quality of print registration based on the offset of each printed ink from a					

	printed reference ink
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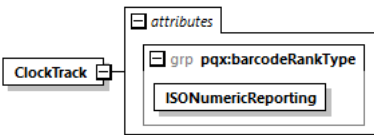
### element **ChartType**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">MeasurementSet</a>
annotation	documentation field that provides a classification for the specific, pre-defined configuration of colour patches that is being measured for colour evaluation purposes

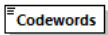
### element **CheckCharacter**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that expresses the presence (where applicable) of a correctly calculated security digit added to prevent undetected errors

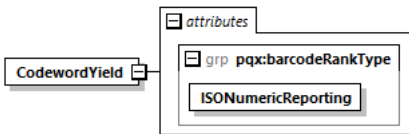
### element **ClockTrack**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that reports the accurate reproduction of the sequence of dark and light modules in a Data Matrix symbol					

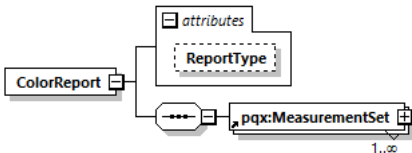
### element **Codewords**

diagram							
namespace	http://idealliance.org/pqx						
type	<a href="#">pqx:codewordsType</a>						
used by	element <a href="#">Barcode2DEntry</a>						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>[0{1}1-9{2} {1}]*[0{1}1-9{2}]</td><td></td></tr></table>	Kind	Value	Annotation	pattern	[0{1}1-9{2} {1}]*[0{1}1-9{2}]	
Kind	Value	Annotation					
pattern	[0{1}1-9{2} {1}]*[0{1}1-9{2}]						
annotation	<div>documentation</div> <div>field of a barcode report that enumerates ASCII codewords contained within the barcode</div>						

### element **CodewordYield**

diagram													
namespace	http://idealliance.org/pqx												
used by	element <a href="#">ISO2DVerification</a>												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td><a href="#">ISONumericReporting</a></td><td><a href="#">pqx:numericGradeType</a></td><td>required</td><td></td><td></td><td>documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">ISONumericReporting</a>	<a href="#">pqx:numericGradeType</a>	required			documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">ISONumericReporting</a>	<a href="#">pqx:numericGradeType</a>	required			documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).								
annotation	documentation field of a barcode report that indicates interference between adjacent rows in a 2D barcode												

### element **ColorReport**

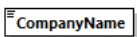
diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:MeasurementSet</a>					
used by	element <a href="#">Sample</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">ReportType</a>	<a href="#">pqx:colorReportTypeType</a>		direct		documentation field that provides the colour report

	type; default is type "Direct"
annotation	documentation set of fields that provide an account of the accuracy of colour reproduction on a printed sample

#### attribute **ColorReport/@ReportType**

type	<a href="#">pqx:colorReportTypeType</a>		
facets	Kind	Value	Annotation
	enumeration	toneCalculation	documentation Tone Calculation Type: a color report where tone values are calculated by the receiver
facets	enumeration	direct	documentation Direct Type: color report where CxF values are directly utilized by the receiver
annotation	documentation field that provides the colour report type; default is type "Direct"		

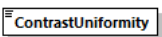
#### element **CompanyName**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">Agent</a> <a href="#">Customer</a> <a href="#">QualityServiceProvider</a>
annotation	documentation field that identifies the print buyer, printer, print quality service provider or other entity

#### element **ContactDesignator**

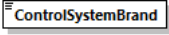
diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">Agent</a> <a href="#">Customer</a> <a href="#">PrinterInfo</a> <a href="#">PrinterQA</a> <a href="#">QualityServiceProvider</a>
annotation	documentation field that provides an identifier for the business contact such as a contact name, email, phone, contact Id or a combination of these

#### element **ContrastUniformity**

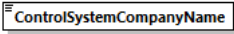
diagram			
namespace	http://idealliance.org/pqx		
type	<b>xs:string</b>		
used by	element	<a href="#">Traditional2DVerification</a>	

annotation	documentation field of a barcode report that captures the degree of uniformity of the light and dark barcode elements
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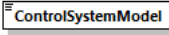
#### element **ControlSystemBrand**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that identifies the brand name of the automated system used to capture quality data

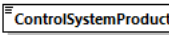
#### element **ControlSystemCompanyName**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that identifies the name of the company that manufactures the automated system used to capture quality data

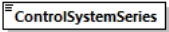
#### element **ControlSystemModel**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that provides the automated control system model identification

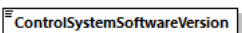
#### element **ControlSystemProduct**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that provides the automated control system product identification

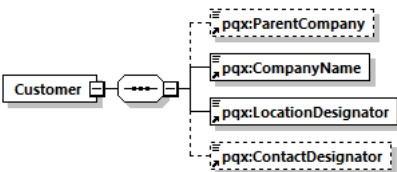
### element **ControlSystemSeries**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that provides the automated control system series identification

### element **ControlSystemSoftwareVersion**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">AutomatedPressControl</a>
annotation	documentation field that provides the automated control system software and version

### element **Customer**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ParentCompany</a> <a href="#">pqx:CompanyName</a> <a href="#">pqx:LocationDesignator</a> <a href="#">pqx:ContactDesignator</a>
used by	element <a href="#">CustomerItem</a>
annotation	documentation field that identifies the party for which print quality data was captured

## element **CustomerItem**

diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:Customer</a> <a href="#">pqx:Brand</a> <a href="#">pqx:Product</a> <a href="#">pqx:Brand-Product</a> <a href="#">pqx:Agent</a> <a href="#">pqx:QualitySpecEmployed</a> <a href="#">pqx:ItemDescription</a> <a href="#">pqx:TagCollection</a>					
used by	element <a href="#">CustomerItemCollection</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">Id</a>	<b>xs:ID</b>	required			documentation field that provides unique identification (within the scope of the PQX file) of this printed item
	<a href="#">IdDisplayName</a>	<a href="#">pqx:customerItemIdType</a>	required			documentation type or name of the identifier code such as "SKU" "artCode" or "GCAS"
annotation	documentation set of fields describing a printed item					

## attribute **CustomerItem/@Id**

type	<b>xs:ID</b>
annotation	documentation field that provides unique identification (within the scope of the PQX file) of this printed item


### attribute **CustomerItem/@IdDisplayName**

type	<a href="#">pqx:customerItemIdType</a>		
facets	Kind	Value	Annotation
	enumeration	SKU	documentation SKU: stock-keeping unit.
	enumeration	UPC	documentation UPC: universal product code.
	enumeration	artCode	documentation Art Code: identifier for art that is printed.
	enumeration	other	documentation Other Code: any other identifier for the item printed.
annotation	documentation type or name of the identifier code such as "SKU" "artCode" or "GCAS"		

### element **CustomerItemCollection**

element CustomerItemCollection	
diagram	<pre>classDiagram     CustomerItemCollection "1" -- "1..∞" pqx:CustomerItem</pre>
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:CustomerItem</a>
used by	element <a href="#">PQX</a>
annotation	documentation set of fields that provide information about all items that were printed for a print buyer

### element **CustomerItemIdLink**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:NCName</b>
used by	elements <a href="#">DefectSet</a> <a href="#">MeasurementSet</a> <a href="#">RegistrationSet</a> <a href="#">VerificationSet</a>
annotation	documentation field that provides a connection from a quality report to the customer item that was printed for purposes of quality reporting

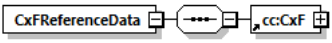
### element **CustomResources**

diagram						
namespace	http://idealliance.org/pqx					
used by	element	<a href="#">PQX</a>				
attributes	Name	Type	Use	Default	Fixed	Annotation

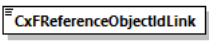


annotation	documentation data container used to extend the PQX file format to include additional XML encoded print quality information that is considered application specific in nature and not generally of use to all other applications
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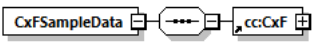
#### element **CxReferenceData**

diagram	
namespace	http://idealliance.org/pqx
children	<b>cc:CxF</b>
used by	element <a href="#">PQX</a>
annotation	documentation data container for standard aim data in an ISO 17972-3 format

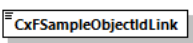
#### element **CxReferenceObjectLinkId**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Measurement</a>
annotation	documentation field that provides a connection to the CxF object in the CxF reference data block for this measurement

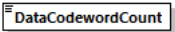
#### element **CxFSampleData**

diagram	
namespace	http://idealliance.org/pqx
children	<b>cc:CxF</b>
used by	element <a href="#">PQX</a>
annotation	documentation data container for sample measurement data in an ISO 17972-3 format

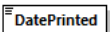
#### element **CxFSampleObjectLinkId**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Measurement</a>
annotation	documentation field that provides a connection to the CxF object in the CxF sample data block for this measurement


element **DataCodewordCount**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the number of data codewords that are encoded in a barcode

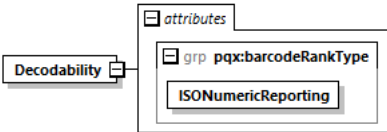
element **DatePrinted**

diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:dateOrDateTime</a>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field that provides the date of the press run in an ISO date or date/time format

element **DateReceivedFromPrinter**


diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:dateOrDateTime</a>
used by	element <a href="#">QualityServiceProvider</a>
annotation	documentation field that provides the date or date/time in the ISO format that a quality sample was delivered from the printer to a third-party service provider for evaluation

element **Decodability**

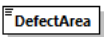
diagram						
namespace	http://idealliance.org/pqx					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting:

	employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that indicates the measure of how easily a scanner can decode the barcode

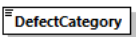
#### element **Decode**

diagram										
namespace	http://idealliance.org/pqx									
type	<a href="#">pqx:passFailType</a>									
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>									
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>pass</td><td>documentation Pass: indication that the value is acceptable.</td></tr><tr><td>enumeration</td><td>fail</td><td>documentation Fail: indication that the value is not acceptable.</td></tr></table>	Kind	Value	Annotation	enumeration	pass	documentation Pass: indication that the value is acceptable.	enumeration	fail	documentation Fail: indication that the value is not acceptable.
Kind	Value	Annotation								
enumeration	pass	documentation Pass: indication that the value is acceptable.								
enumeration	fail	documentation Fail: indication that the value is not acceptable.								
annotation	<p>documentation</p> <p>field of a barcode report that provides a pass/fail statement about whether the bars and spaces in a barcode represent the intended characters</p>									

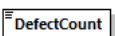
#### element **DefectArea**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">DefectSize</a>
annotation	documentation field that indicates the area (or average area) of a defect expressed as the defect unit of measure squared

#### element **DefectCategory**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">DefectData</a>
annotation	documentation field that provides a second level classification for print defect types

#### element **DefectCount**

diagram	
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namespace	http://idealliance.org/pqx
type	<b>xs:positiveInteger</b>
used by	element <a href="#">DefectData</a>
annotation	documentation field that provides the count or frequency for a defect being reported across the inspections reported in this entry

#### element **DefectData**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:DefectName</a> <a href="#">pqx:DefectSeverity</a> <a href="#">pqx:DefectCategory</a> <a href="#">pqx:DefectSize</a> <a href="#">pqx:DefectDescription</a> <a href="#">pqx:DefectImageIdLink</a> <a href="#">pqx:DefectCount</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">DefectSet</a>
annotation	documentation field that provides quality data about a defect found on a printed item

#### element **DefectDescription**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">DefectData</a>
annotation	documentation field that captures an account of the nature of the defect

#### element **DefectImage**

diagram	
namespace	http://idealliance.org/pqx
used by	element <a href="#">DefectImageData</a>

attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">Id</a>	<b>xs:ID</b>	required			documentation field that provides unique identification (within the scope of the PQX file) for a defect image
	<a href="#">ImageLink</a>	<b>xs:anyURI</b>	required			documentation field that provides a link to the image of the defect listed in the defect image block. Note to Entry: If this is a local URI, the assumption is that the images are somehow packaged along with the PQX file that references them. A remote URL can be used to reference a remote secure server where images are stored and accessed.
annotation	documentation field that that carries access information and unique identification (within the scope of the PQX file) for one defect image generated by an on-press, camera-based defect tracking system					

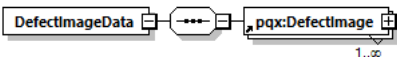
attribute **DefectImage/@Id**

type	<b>xs:ID</b>
annotation	documentation field that provides unique identification (within the scope of the PQX file) for a defect image


attribute **DefectImage/@ImageLink**

type	<b>xs:anyURI</b>
annotation	documentation field that provides a link to the image of the defect listed in the defect image block. Note to Entry: If this is a local URI, the assumption is that the images are somehow packaged along with the PQX file that references them. A remote URL can be used to reference a remote secure server where images are stored and accessed.

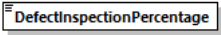
### element **DefectImageData**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:DefectImage</a>
used by	element <a href="#">PQX</a>
annotation	documentation is a data container used to provide linkages to the defect images generated from on-press camera-based defect detection systems


### element **DefectImageIdLink**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:anyURI</b>
used by	element <a href="#">DefectData</a>
annotation	documentation field that provides a connection to the unique identifier for an image of the defect so it may be retrieved from the defect image data block

### element **DefectInspectionPercentage**

diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">DefectReport</a>
annotation	documentation field that provides the percent of defect inspections taken throughout the press run and reflected in the defect data for this PQX report

### element **DefectName**

diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:defectNameType</a>		
used by	element <a href="#">DefectData</a>		
facets	Kind enumeration	Value hickey	Annotation documentation Hickey: printing defect caused by a particle either of paper or other source of debris attaching itself to the printing plate, blanket, gravure cylinder, or other image-carrying surface. Debris produces either a blank, unprinted spot in a printed area (a void hickey) or a

	enumeration	bullseye	solid printed area ringed by a blank unprinted area (a doughnut hickey). documentation Bullseye: printing defect which is characterized by circular voids.
	enumeration	streak	documentation Streak: printing defect which is characterized by a mark or band of a different substance or color from its surroundings.
	enumeration	scratch	documentation Scratch: printing defect which is characterized by a score or damage to the surface of the substrate on which an image is printed.
	enumeration	line	documentation Line: printing defect which is characterized by a very thin band of a different substance or color from its surroundings.
	enumeration	slur	documentation Slur: printing defect which is characterized by a blur on the image, often caused by movement of the paper.
	enumeration	other	documentation Other Defect: printing defect not included in the PQX standard defect list.
annotation	documentation	field that provides a first level of categorization for a print flaw	

#### element **DefectReport**

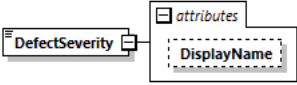
diagram			
namespace	http://idealliance.org/pqx		
children	<a href="#">pqx:OverallVisualAppearance</a> <a href="#">pqx:DefectInspectionPercentage</a> <a href="#">pqx:DefectSet</a>		
used by	element	<a href="#">Sample</a>	
annotation	documentation	set of fields that provide an account of the print defects on a printed sample	

#### element **DefectSet**

diagram			
namespace	http://idealliance.org/pqx		
children	<a href="#">pqx:BasisOfReference</a> <a href="#">pqx:CustomerItemIdLink</a> <a href="#">pqx:PositionOnSample</a> <a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:DefectData</a> <a href="#">pqx:NoDefectFound</a> <a href="#">pqx:TagCollection</a>		

used by	element <a href="#">DefectReport</a>
annotation	documentation set of fields that provide quality data about a defect at a specified position on a selected customer item

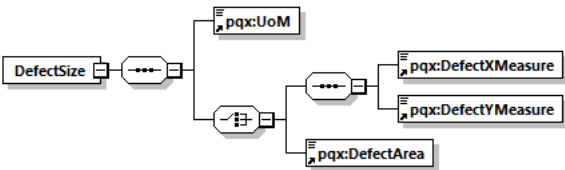
### element **DefectSeverity**

diagram						
namespace	http://idealliance.org/pqx					
type	extension of <a href="#">pqx:one2tenType</a>					
used by	element <a href="#">DefectData</a>					
attributes	Name <a href="#">DisplayName</a>	Type <b>xs:NMTOKEN</b>	Use	Default	Fixed	Annotation documentation label or name of the defect severity such as "moderate" "extreme" or "slight", typically employing a nomenclature provided by the print buyer
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**

type	<b>xs:NMTOKEN</b>
annotation	documentation label or name of the defect severity such as "moderate" "extreme" or "slight", typically employing a nomenclature provided by the print buyer

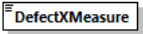
### element **DefectSize**

diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:UoM</a> <a href="#">pqx:DefectXMeasure</a> <a href="#">pqx:DefectYMeasure</a> <a href="#">pqx:DefectArea</a>					
used by	element <a href="#">DefectData</a>					
annotation	documentation					




	set of fields that provides data that documents the height/width or area of a defect
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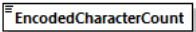
#### element **DefectXMeasure**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">DefectSize</a>
annotation	documentation field that provides the width of a defect along the X (horizontal) axis in the defect unit of measure

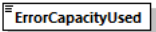
#### element **DefectYMeasure**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">DefectSize</a>
annotation	documentation field that provides the height of a defect along the Y (vertical) axis in the defect unit of measure

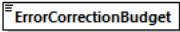
#### element **EncodedCharacterCount**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the number of data characters that are encoded in a barcode

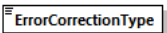
#### element **ErrorCapacityUsed**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the capacity, as a percent, of a 2D barcode codewords used to correct for errors or missing data, in a barcode

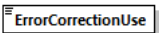
element **ErrorCorrectionBudget**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the level of error correction, as a percent, encoded into a 2D barcode symbol

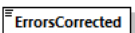
element **ErrorCorrectionType**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field that captures the error correction algorithm employed

element **ErrorCorrectionUse**

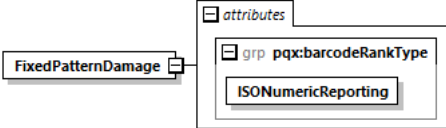
diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the number of 2D barcode codewords used for error correction

element **ErrorsCorrected**

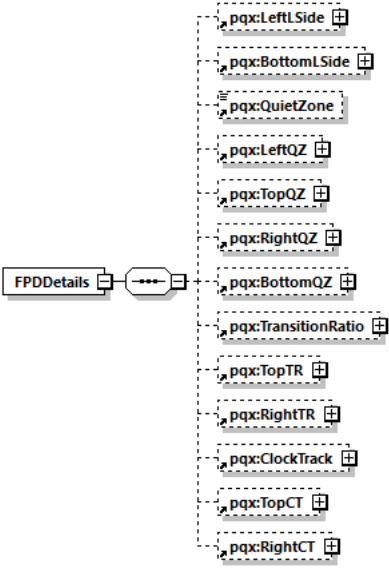
diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the number of errors corrected by the barcode verification scanner

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## element **FixedPatternDamage**


diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that measures any damage to the finder patterns, quiet zones, clock tracks, timing, navigation and other fixed patterns that scanners use to locate and decode a barcode symbol					

## element **FPDDetails**

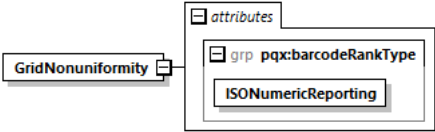
diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:LeftSide</a> <a href="#">pqx:BottomLSide</a> <a href="#">pqx:QuietZone</a> <a href="#">pqx:LeftQZ</a> <a href="#">pqx:TopQZ</a> <a href="#">pqx:RightQZ</a> <a href="#">pqx:BottomQZ</a> <a href="#">pqx:TransitionRatio</a> <a href="#">pqx:TopTR</a> <a href="#">pqx:RightTR</a> <a href="#">pqx:ClockTrack</a> <a href="#">pqx:TopCT</a> <a href="#">pqx:RightCT</a>					
used by	element <a href="#">Barcode2DEntry</a>					
annotation	documentation					

	set of fields of a barcode report that capture the details of a barcode fixed pattern damage
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#### element **GlobalThreshold**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of the barcode report entry that captures the point half way between the highest detected reflectance or Rmax value and the lowest detected reflectance or Rmin value where the actual decoding of a barcode takes place


#### element **GridNonuniformity**

diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
used by	element <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISO Numeric Reporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation (GNU) field of a barcode report that measures the largest vector deviation of the grid intersections					

#### element **HorizontalBWG**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the percent of horizontal spreading (bar width growth) of a printed 2D barcode element

## element **ImageType**

diagram			
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
type	<a href="#">pqx:barcodeSymbolType</a>		
used by	element <a href="#">Traditional2DVerification</a>		
facets	Kind	Value	Annotation
	enumeration	AztecCode	<p>documentation</p> <p>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".</p>
	enumeration	Codabar	<p>documentation</p> <p>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).</p>
	enumeration	Code11	<p>documentation</p> <p>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 (-).</p>
	enumeration	Code128	<p>documentation</p> <p>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.</p>
	enumeration	Code39	<p>documentation</p> <p>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.</p>
	enumeration	Code32	<p>documentation</p> <p>Code 32: was used all over Italy for the encoding of pharmaceutical products.</p>
	enumeration	CrontoSign	<p>documentation</p> <p>CrontoSign: graphical cryptogram consisting of a matrix of colored dots used to secure banking transactions.</p>
	enumeration	Pharmacode	<p>documentation</p> <p>Pharmacode: 1D barcode used mainly in the pharmaceutical manufacturing.</p>
	enumeration	ExtendedCode39	<p>documentation</p> <p>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.</p>
	enumeration	Code49	<p>documentation</p> <p>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.</p>
	enumeration	Code93	<p>documentation</p> <p>Code 93: barcode symbology designed in 1982 by Intermec to provide a higher density and data security enhancement to Code 39.</p>

	enumeration	CompositeCode	<p>It is an alphanumeric, variable length symbology. Code 93 is used primarily by Canada Post to encode supplementary delivery information.</p> <p><a href="#">documentation</a></p> <p>Composite Code: 2D barcode symbol included above a DataBar, UPC, EAN, or Code 128 barcode to encode additional data.</p>
	enumeration	CPCBinary	<p><a href="#">documentation</a></p> <p>CPC Binary Barcode: Canada Post's proprietary symbology used in its automated mail sortation operations.</p>
	enumeration	DataMatrix	<p><a href="#">documentation</a></p> <p>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.</p>
	enumeration	EAN-2	<p><a href="#">documentation</a></p> <p>EAN-2: isupplement to the EAN-13 and UPC-A barcodes. It is often used on magazines and periodicals to indicate an issue number.</p>
	enumeration	EAN-5	<p><a href="#">documentation</a></p> <p>EAN-5: 5 digit supplement to the EAN-13 barcode used on books.</p>
	enumeration	EAN-8	<p><a href="#">documentation</a></p> <p>EAN-8: barcode and is derived from the longer International Article Number (EAN-13) code used on small packages.</p>
	enumeration	EAN-13	<p><a href="#">documentation</a></p> <p>EAN-13: superset of the original 12-digit Universal Product Code (UPC-A) standard with 3 added digits to indicate country and product.</p>
	enumeration	EANBookland	<p><a href="#">documentation</a></p> <p>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.</p>
	enumeration	HAN-XINBarcode	<p><a href="#">documentation</a></p> <p>Han Xin barcode is a 2D barcode developed by China for the encoding the Chinese characters and other text information efficiently.</p>
	enumeration	HighCapacityColorBarcode	<p><a href="#">documentation</a></p> <p>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.</p>
	enumeration	IntelligentMailBarcode	<p><a href="#">documentation</a></p> <p>The Intelligent Mail Barcode: (IM barcode) is a 65-bar code for use to efficiently deliver mail in the United States.</p>
	enumeration	Industrial2of5	<p><a href="#">documentation</a></p> <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>
	enumeration	Interleaved2of5	<p><a href="#">documentation</a></p> <p>Interleaved 2of5: 1D barcode with nine functional characters (123456789) and one symbol check character (5).</p>
	enumeration	ITF-14	<p><a href="#">documentation</a></p> <p>ITF 14: 1D barcode symbology which is derived from interleaved 2 of 5 and easily encodes 14 digits.</p>
	enumeration	JAN	<p><a href="#">documentation</a></p> <p>JAN: thirteen-digit EAN-13 where a prefix with the first two digits of "45" or "49" indicates a Japanese Article Number.</p>
	enumeration	KarTrak	<p><a href="#">documentation</a></p> <p>KarTrak: sometimes KarTrak ACI (for Automatic Car Identification) is a colored bar code system designed to automatically identify rail</p>

	enumeration	LOGMARS	cars and other rolling stock. <a href="#">documentation</a> 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.
	enumeration	MaxiCode	<a href="#">documentation</a> 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.
	enumeration	MMCC	<a href="#">documentation</a> 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.
	enumeration	MSIPlessey	<a href="#">documentation</a> 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.
	enumeration	OPCOpticalIndustryAssociation	<a href="#">documentation</a> OPC: barcode for marking retail optical products.
	enumeration	PDF-417	<a href="#">documentation</a> 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.
	enumeration	Plessey	<a href="#">documentation</a> Plessey Code is a 1D barcode used in some libraries and for shelf tags in retail stores to support internal stock control.
	enumeration	PostBar	<a href="#">documentation</a> 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.
	enumeration	POSTNET	<a href="#">documentation</a> 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.
	enumeration	QRCode	<a href="#">documentation</a> QR Code (Quick Response Code) is a machine-readable code consisting of an array of black and white squares, typically used for storing URLs or other information for reading by the camera on a smartphone.
	enumeration	SCC-14	<a href="#">documentation</a> SCC 14 barcode or Shipping Container Code is a 14-digit number assigned to fixed content shipping containers.
	enumeration	Standard2of5	<a href="#">documentation</a> 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.
	enumeration	Telepen	<a href="#">documentation</a> 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.

	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
	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.
	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.
	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.
	enumeration	other	documentation Other is designated for a barcode not found on the PQX list of standard barcode types
annotation	documentation field of a barcode report that captures the characteristics of a barcode symbol image		

## element **Ink**

diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:InkPrintOrder</a> <a href="#">pqx:InkName</a> <a href="#">pqx:InkChannelName</a> <a href="#">pqx:InkChannelType</a> <a href="#">pqx:InkType</a> <a href="#">pqx:InkPrintMethod</a> <a href="#">pqx:TagCollection</a>					
used by	element <a href="#">InkCollection</a>					
attributes	Name <a href="#">Id</a>	Type <b>xs:ID</b>	Use required	Default	Fixed	Annotation documentation

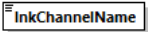


		field that provides unique identification (within the scope of the PQX file) for this ink
annotation	documentation	set of fields that provide a description of the fluid or viscous substance used for this press run

#### attribute **Ink/@Id**

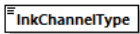
type	<b>xs:ID</b>
annotation	documentation field that provides unique identification (within the scope of the PQX file) for this ink

#### element **InkChannelName**

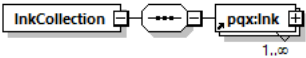
diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:inkChannelNameType</a>		
used by	element <a href="#">Ink</a>		
facets	Kind	Value	Annotation
	enumeration	cyan	documentation Cyan Channel: The cyan ink channel.
	enumeration	magenta	documentation Magenta Channel: The magenta ink channel.
	enumeration	yellow	documentation Yellow Channel: The yellow ink channel.
	enumeration	black	documentation Black Channel: The black ink channel.
	enumeration	orange	documentation Orange Channel: The orange ink channel.
	enumeration	violet	documentation Violet Channel: The violet ink channel.
	enumeration	red	documentation Red Channel: The red ink channel.
	enumeration	blue	documentation Blue Channel: The blue ink channel.
	enumeration	green	documentation Green Channel: The green ink channel.

	<p>enumeration spot documentation Spot Color Channel: A spot color ink channel.</p> <p>enumeration coating documentation Coating Channel: An ink channel for a coating or varnish.</p> <p>enumeration other documentation Other Channel: A non-standard ink channel type.</p>
annotation	documentation field that provides a name for a channel on press

### element **InkChannelType**

diagram													
namespace	http://idealliance.org/pqx												
type	<a href="#">pqx:inkChannelTypeType</a>												
used by	element <a href="#">Ink</a>												
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>process</td><td><a href="#">documentation</a> Process Ink Channel Type: an ink channel carrying a member of a process ink set (2 or more inks), intended to be printed in combination with other process ink(s) in order to reproduce a range of colors or "gamut"</td></tr><tr><td>enumeration</td><td>spot</td><td><a href="#">documentation</a> Spot Ink Channel Type: an ink channel carrying a single ink, intended to produce a specific color printed color – often associated with a brand equity color</td></tr><tr><td>enumeration</td><td>coating</td><td><a href="#">documentation</a> Coating Ink Channel Type: an ink channel carrying a coating or varnish</td></tr></table>	Kind	Value	Annotation	enumeration	process	<a href="#">documentation</a> Process Ink Channel Type: an ink channel carrying a member of a process ink set (2 or more inks), intended to be printed in combination with other process ink(s) in order to reproduce a range of colors or "gamut"	enumeration	spot	<a href="#">documentation</a> Spot Ink Channel Type: an ink channel carrying a single ink, intended to produce a specific color printed color – often associated with a brand equity color	enumeration	coating	<a href="#">documentation</a> Coating Ink Channel Type: an ink channel carrying a coating or varnish
Kind	Value	Annotation											
enumeration	process	<a href="#">documentation</a> Process Ink Channel Type: an ink channel carrying a member of a process ink set (2 or more inks), intended to be printed in combination with other process ink(s) in order to reproduce a range of colors or "gamut"											
enumeration	spot	<a href="#">documentation</a> Spot Ink Channel Type: an ink channel carrying a single ink, intended to produce a specific color printed color – often associated with a brand equity color											
enumeration	coating	<a href="#">documentation</a> Coating Ink Channel Type: an ink channel carrying a coating or varnish											
annotation	<a href="#">documentation</a> field that provides a classification for the ink channel as process, spot or coating												

### element **InkCollection**


diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ink</a>
used by	element <a href="#">PQX</a>
annotation	documentation set of fields that provide information about all inks that were used to print customer items for quality reporting

### element **InkIdLink**

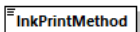
diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:NCName</b>

used by	elements <a href="#">MeasuredChannel</a> <a href="#">ObservedChannel</a> <a href="#">PrintedInkInfo</a>
annotation	documentation field that provides a connection to the definition of the ink

#### element **InkName**


diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:string</b>
used by	element <a href="#">Ink</a>
annotation	documentation field that provides a word or set of words by which an ink is known

#### element **InkPrintMethod**


diagram			
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
type	<a href="#">pqx:printMethodType</a>		
used by	element <a href="#">Ink</a>		
facets	Kind	Value	Annotation
	enumeration	offsetLithography	<a href="#">documentation</a> Offset Lithography: printing method using a flat surface treated so as to repel the ink except where it is required for printing.
	enumeration	dryOffset	<a href="#">documentation</a> 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	<a href="#">documentation</a> 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	<a href="#">documentation</a> Gravure: printing method that produces an image from etching a plate through an intaglio process and producing a print from it.
	enumeration	inkjet	<a href="#">documentation</a> Ink Jet Printer: printing method that uses a computer peripheral that produces hard copy by spraying ink onto paper.
	enumeration	screen	<a href="#">documentation</a> 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	<a href="#">documentation</a> Electrophotography: printing method that uses photography employing electricity to transfer an image onto paper, as in laser printing and photocopying
	enumeration	dyeSublimation	<a href="#">documentation</a> 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

	<p>enumeration   letterPress   solid and gas states without going through a liquid stage. 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   hybrid   documentation Hybrid Printing: printing using a combination of methods such as inkjet and digital.</p> <p>enumeration   other   documentation Other Method: any other method not enumerated by PQX for printing an item.</p>
annotation	<p>documentation field that provides an account of the mechanism by which this ink was printed on the sample</p>

### element **InkPrintOrder**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:positiveInteger</b>
used by	element <a href="#">Ink</a>
annotation	<p>documentation field that provides the numerical order that this ink prints among all the inks on a sample with "1" being the first ink printed on a substrate</p>

### element **InkType**

diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:inkTypeType</a>		
used by	element <a href="#">Ink</a>		
facets	Kind	Value	Annotation
	enumeration	solventBasedDye	<a href="#">documentation</a> Solvent Based Ink Type: an ink that carries a colorant in a solvent such as a ketone.
	enumeration	waterBasedDye	<a href="#">documentation</a> Water Based Ink Type: an ink that carries a colorant in water.
	enumeration	solventBasedPigment	<a href="#">documentation</a> Solvent Based Ink Type: an ink that carries a colorant in a solvent such as a ketone.
	enumeration	waterBasedPigment	<a href="#">documentation</a> Water Based Ink Type: an ink that carries a colorant in water.
	enumeration	UVCured	<a href="#">documentation</a> UV-Cured Ink Type: an ink that is cured with UV.
	enumeration	eBeamCured	<a href="#">documentation</a> eBeam-Cured Ink Type: an ink that is cured with eBeams.
	enumeration	latex	<a href="#">documentation</a> Latex Ink Type: an ink that is latex based.
	enumeration	dryToner	<a href="#">documentation</a> Dry Toner Ink Type: a laser printer ink that is powder-based

	enumeration	liquidToner	documentation Liquid Toner Ink Type: a laser printer ink that is fluid-based
	enumeration	other	documentation Other Ink Type: an ink type that is not defined by listed ink type values
annotation	documentation	field that provides the classification of an ink printed in terms of colorant, vehicle and curing etc.	

#### element **ISO1DVerification**


diagram			
namespace	http://idealliance.org/pqx		
children	<a href="#">pqx:OverallSymbolGrade</a> <a href="#">pqx:MinimumReflectance</a> <a href="#">pqx:SymbolContrast</a> <a href="#">pqx:MinimumEdgeContrast</a> <a href="#">pqx:Modulation</a> <a href="#">pqx:BarcodeDefects</a> <a href="#">pqx:Decodability</a> <a href="#">pqx:Decode</a>		
used by	element	<a href="#">Barcode1DEntry</a>	
annotation	documentation	set of fields in the barcode report that contain ISO quality data scores for the print quality of a linear barcode.	

#### element **ISO2DVerification**

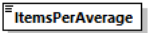
diagram			
namespace	http://idealliance.org/pqx		

children	<a href="#">pqx:OverallSymbolGrade</a> <a href="#">pqx:MinimumReflectance</a> <a href="#">pqx:SymbolContrast</a> <a href="#">pqx:MinimumEdgeContrast</a> <a href="#">pqx:Modulation</a> <a href="#">pqx:BarcodeDefects</a> <a href="#">pqx:Decodability</a> <a href="#">pqx:Decode</a> <a href="#">pqx:UnusedErrorCorrection</a> <a href="#">pqx:CodewordYield</a> <a href="#">pqx:GridNonuniformity</a> <a href="#">pqx:AxialNonuniformity</a> <a href="#">pqx:FixedPatternDamage</a>
used by	element <a href="#">Barcode2DEntry</a>
annotation	documentation set of fields in the barcode report that contain ISO quality data scores for the print quality of a two-dimensional barcode.

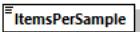
#### element **ItemDescription**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:string</b>
used by	element <a href="#">CustomerItem</a>
annotation	documentation field that provides a description for this printed customer item

#### element **ItemsPerAverage**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:nonNegativeInteger</b>
used by	elements <a href="#">MeasuredChannel</a> <a href="#">MeasuredMax</a> <a href="#">Measurement</a>
annotation	documentation field that provides a way to specify the number of item sample measurements were averaged for the same patch to generate a single reporting value

#### element **ItemsPerSample**


diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:positiveInteger</b>
used by	element <a href="#">SampleDescription</a>
annotation	documentation field that provides the number of contiguous items that were inspected either visually or digitally for this sample

#### element **LeftLSide**

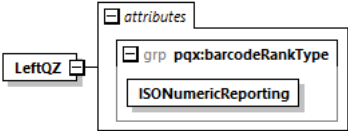
diagram	
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namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures the damage occurring in the left solid side of the L border of a Data Matrix 2D barcode					


#### element **LeftMargin**

diagram						
namespace	http://idealliance.org/pqx					
type	<b>xs:string</b>					
used by	element <a href="#">Traditional1DVerification</a>					
annotation	documentation field of a barcode report that expresses the presence of a minimum blank space preceding a barcode					

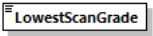
#### element **LeftQZ**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures damage to the required minimum blank space at the left of a 2D barcode					

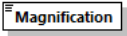
### element **LocationDesignator**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">Agent</a> <a href="#">Customer</a> <a href="#">PrinterInfo</a> <a href="#">QualityServiceProvider</a>
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 **LowestScanGrade**

diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that expresses the lowest scan reflectance profile grade measured where the scan reflectance profile grade is the lowest grade of minimum reflectance, minimum edge contrast, symbol contrast, modulation, defects, decodability and decode

### element **Magnification**


diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that expresses the factor used to vary the nominal size of each barcode to ensure it is scannable

### element **MarkType**


diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">RegistrationSet</a>
annotation	documentation field that provides a classification of a registration mark employed



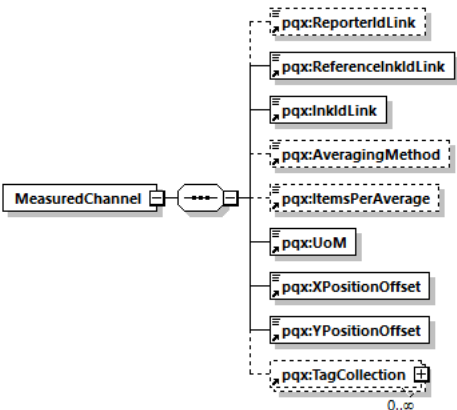
element **MatrixSize**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:string</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the dimension of a 2D barcode in horizontal element count by vertical element count

element **MaximumReflectance**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that provides the maximum reflective difference between the printed barcode and the background

element **MeasuredChannel**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:ReferenceInkIdLink</a> <a href="#">pqx:InkIdLink</a> <a href="#">pqx:AveragingMethod</a> <a href="#">pqx:ItemsPerAverage</a> <a href="#">pqx:UoM</a> <a href="#">pqx:XPositionOffset</a> <a href="#">pqx:YPositionOffset</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">ChannelReport</a>
annotation	documentation set of fields that provide the measured maximum registration variance of all printed inks relative to a reference ink channel for a printed sample

## element **MeasuredMax**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:AveragingMethod</a> <a href="#">pqx:ItemsPerAverage</a> <a href="#">pqx:PatchesPerAverage</a> <a href="#">pqx:UoM</a> <a href="#">pqx:XMaxOffset</a> <a href="#">pqx:YMaxOffset</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">VarianceReport</a>
annotation	documentation set of fields that provide the measured maximum registration variance of all printed inks for a printed sample

## element **Measurement**

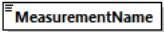
diagram													
namespace	http://idealliance.org/pqx												
children	<a href="#">pqx:MeasurementName</a> <a href="#">pqx:PatchType</a> <a href="#">pqx:AveragingMethod</a> <a href="#">pqx:ItemsPerAverage</a> <a href="#">pqx:PatchesPerAverage</a> <a href="#">pqx:PXSubstrateIdLink</a> <a href="#">pqx:PrintedInkInfo</a> <a href="#">pqx:CxFSampleObjectIdLink</a> <a href="#">pqx:CxFReferenceObjectIdLink</a> <a href="#">pqx:TagCollection</a>												
used by	element <a href="#">MeasurementSet</a>												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td><a href="#">Id</a></td><td><b>xs:ID</b></td><td>required</td><td></td><td></td><td>documentation field that</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">Id</a>	<b>xs:ID</b>	required			documentation field that
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">Id</a>	<b>xs:ID</b>	required			documentation field that								

		provides unique identification (within the scope of the PQX file) for this colour measurement
annotation	documentation set of fields that describe a single colour measurement taken to evaluate print quality	

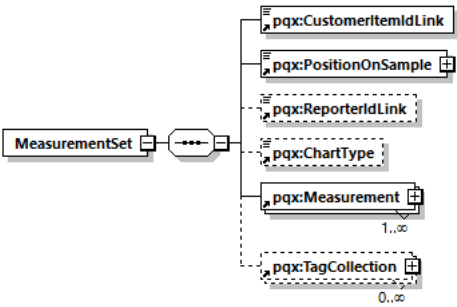
#### attribute **Measurement/@Id**

type	<b>xs:ID</b>
annotation	documentation field that provides unique identification (within the scope of the PQX file) for this colour measurement

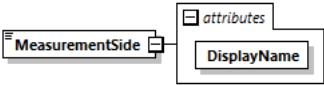
#### element **MeasurementName**

diagram		
namespace	http://idealliance.org/pqx	
type	<b>xs:string</b>	
used by	element	<a href="#">Measurement</a>
annotation	documentation field that provides a word or set of words by which this measurement is known	

#### element **MeasurementSet**

diagram		
namespace	http://idealliance.org/pqx	
children	<a href="#">pqx:CustomerItemIdLink</a> <a href="#">pqx:PositionOnSample</a> <a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:ChartType</a> <a href="#">pqx:Measurement</a> <a href="#">pqx:TagCollection</a>	
used by	element	<a href="#">ColorReport</a>
annotation	documentation set of fields that provide colour measurements of a customer item taken at a single position on a sample	

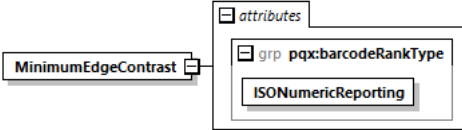
## element **MeasurementSide**

diagram						
namespace	http://idealliance.org/pqx					
type	extension of <a href="#">pqx:one2twoType</a>					
used by	element <a href="#">SampleDescription</a>					
attributes	Name <a href="#">DisplayName</a>	Type <b>xs:NMTOKEN</b>	Use required	Default	Fixed	Annotation documentation label or name of the measurement side such as "top" / "bottom" or "SideA" or "SideB"
annotation	documentation field that provides an indication of from which side of a printed item a measurement or observation was taken					

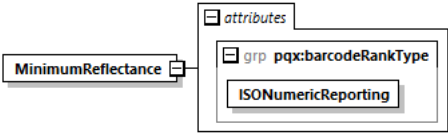
## attribute **MeasurementSide/@DisplayName**

type	<b>xs:NMTOKEN</b>
annotation	documentation label or name of the measurement side such as "top" / "bottom" or "SideA" or "SideB"

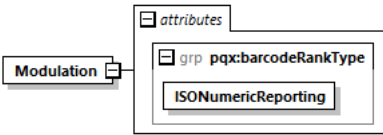
## element **MinimumEdgeContrast**

diagram						
namespace	http://idealliance.org/pqx					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that grades the percent of contrast difference in every transition, from light to dark and back to light, across the barcode					


### element **MinimumReflectance**

diagram	 <p>The diagram shows the structure of the <b>MinimumReflectance</b> element. It is a container element with an <b>attributes</b> group and a <b>grp pqx:barcodeRankType</b> group. Inside the <b>grp pqx:barcodeRankType</b> group is the <b>ISONumericReporting</b> element.</p>					
namespace	http://idealliance.org/pqx					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a> <a href="#">Traditional1DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of the barcode report that provides minimum amount of reflective difference between the printed barcode and the background					

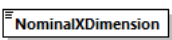
### element **Modulation**

diagram	 <p>The diagram shows the structure of the <b>Modulation</b> element. It is a container element with an <b>attributes</b> group and a <b>grp pqx:barcodeRankType</b> group. Inside the <b>grp pqx:barcodeRankType</b> group is the <b>ISONumericReporting</b> element.</p>					
namespace	http://idealliance.org/pqx					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that documents how a scanner “sees” wide elements (bars or spaces) in relationship to narrow elements or the consistency of the reflectance of dark to light areas throughout the barcode					

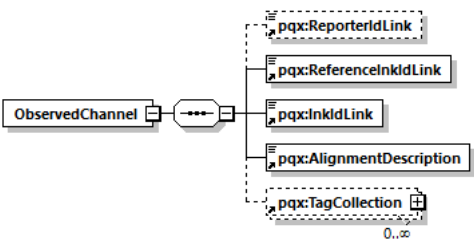
### element **NoDefectFound**

diagram	 <p>The diagram shows the structure of the <b>NoDefectFound</b> element. It is a simple container element with no sub-elements or groups.</p>					
namespace	http://idealliance.org/pqx					
used by	element <a href="#">DefectSet</a>					
annotation	documentation field that indicates that no defects were found for a printed customer item					

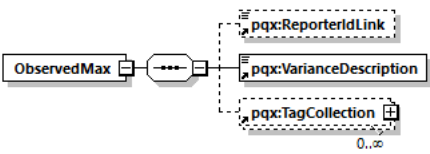
### element **NominalXDimension**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:string</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the width of the narrow element in a barcode; sometimes used to describe the element size in a 2D symbol

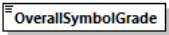
### element **ObservedChannel**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:ReferenceInkIdLink</a> <a href="#">pqx:InkIdLink</a> <a href="#">pqx:AlignmentDescription</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">ChannelReport</a>
annotation	documentation set of fields that provide the observed maximum registration variance of all printed inks relative to a reference ink channel for a printed sample


### element **ObservedMax**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:ReporterIdLink</a> <a href="#">pqx:VarianceDescription</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">VarianceReport</a>
annotation	documentation set of fields that provide the observed maximum registration variance of all printed inks for a printed sample


element **OverallSymbolGrade**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>
annotation	documentation field of an ISO barcode verification that provides an overall grade for the print quality of a barcode

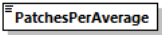
element **OverallVisualAppearance**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">DefectReport</a>
annotation	documentation field of the defect report that provides a comment about the overall visual appearance of images printed for the quality press run


element **ParentCompany**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">Agent</a> <a href="#">Customer</a> <a href="#">PrinterInfo</a>
annotation	documentation field that identifies a company that controls a smaller, entity such as a printer, print buyer or agent

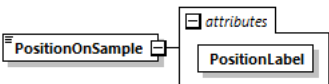
element **PatchesPerAverage**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:nonNegativeInteger</b>
used by	elements <a href="#">MeasuredMax</a> <a href="#">Measurement</a>
annotation	documentation field that provides the number of measurements for the same patch on a single item that were averaged to generate a single reporting value for this PQX report

## element **PatchType**

diagram			
namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">Measurement</a>		
facets	Kind	Value	Annotation
	enumeration	substrate	documentation Substrate Patch: A patch used to measure substrate color.
	enumeration	solid	documentation Solid Patch: A patch used to measure a 100% solid color.
	enumeration	tint	documentation Tint Patch: A patch used to measure partial ink coverage. TintValue element gives the percent coverage.
	enumeration	grayBalance	documentation Gray Balance Patch: A patch to be gray.
	enumeration	overprint	documentation Overprint Patch: A patch color made with 2 or more solids at a 100% tint value.
	enumeration	build	documentation Build Patch: A patch that is a generic build, not intended to produce a specific color, like a patch in an image.
	enumeration	special	documentation Special Patch: A patch that is designed to produce a specific color (like an ECG recipe).
annotation	documentation field that provides a classification for the patch being measured		

## element **PositionOnSample**

diagram						
namespace	http://idealliance.org/pqx					
type	extension of <a href="#">pqx:one2tenType</a>					
used by	elements <a href="#">DefectSet</a> <a href="#">MeasurementSet</a> <a href="#">RegistrationSet</a> <a href="#">VerificationSet</a>					
attributes	Name <a href="#">PositionLabel</a>	Type <b>xs:string</b>	Use required	Default	Fixed	Annotation documentation label or descriptor for the position on sample such as "lane 1, row2" or "baby's cheek on image"



annotation	documentation field that provides a numeric descriptor (1 - 10) for this set of data based on the position on a printed sample
------------	---

#### attribute **PositionOnSample/@PositionLabel**

type	<b>xs:string</b>
annotation	documentation label or descriptor for the position on sample such as "lane 1, row2" or "baby's cheek on image"


#### element **PQX**

diagram	<pre> graph LR     PQX[PQX] --- PQXInfo[pqx:PQXInfo]     PQX --- PrinterInfo[pqx:PrinterInfo]     PQX --- PressRunInfo[pqx:PressRunInfo]     PQX --- InkCollection[pqx:InkCollection]     PQX --- ReporterCollection[pqx:ReporterCollection]     PQX --- CustomerItemCollection[pqx:CustomerItemCollection]     PQX --- SampleCollection[pqx:SampleCollection]     PQX --- CxFSampleData[pqx:CxFSampleData]     PQX --- CxFSampleReferenceData[pqx:CxFSampleReferenceData]     PQX --- DefectImageData[pqx:DefectImageData]     PQX --- TagCollection[pqx:TagCollection]     PQX --- CustomResources[pqx:CustomResources]     </pre>
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:PQXInfo</a> <a href="#">pqx:PrinterInfo</a> <a href="#">pqx:PressRunInfo</a> <a href="#">pqx:InkCollection</a> <a href="#">pqx:ReporterCollection</a> <a href="#">pqx:CustomerItemCollection</a> <a href="#">pqx:SampleCollection</a> <a href="#">pqx:CxFSampleData</a> <a href="#">pqx:CxFSampleReferenceData</a> <a href="#">pqx:DefectImageData</a> <a href="#">pqx:TagCollection</a> <a href="#">pqx:CustomResources</a>
annotation	documentation root element of a print quality data exchange from print service providers to relevant stake holders, brand owners or print buyers

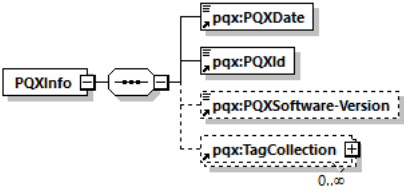
#### element **PQXDate**

diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:dateOrDateTime</a>
used by	element <a href="#">PQXInfo</a>
annotation	documentation field that provides the file generation date or date/time in ISO format for this PQX file

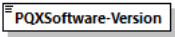
### element **PQXId**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PQXInfo</a>
annotation	documentation field that provides an identifier for the PQX quality report, unique within scope of the system of origin on the specified PQXDate


### element **PQXInfo**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:PQXDate</a> <a href="#">pqx:PQXId</a> <a href="#">pqx:PQXSoftware-Version</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">PQX</a>
annotation	documentation set of fields that provide metadata about this print quality report


### element **PQXSoftware-Version**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PQXInfo</a>
annotation	documentation field that provides the software and version used to generate this PQX file


### element **PQXSolidInkParentIdLink**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:NCName</b>
used by	element <a href="#">PrintedInkInfo</a>
annotation	documentation field that provides a connection to the PQX measurement for the solid ink parent of a tint patch

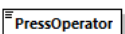
element **PQXSubstrateIdLink**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:NCName</b>
used by	element <a href="#">Measurement</a>
annotation	documentation field that provides a connection to the PQX measurement for the substrate

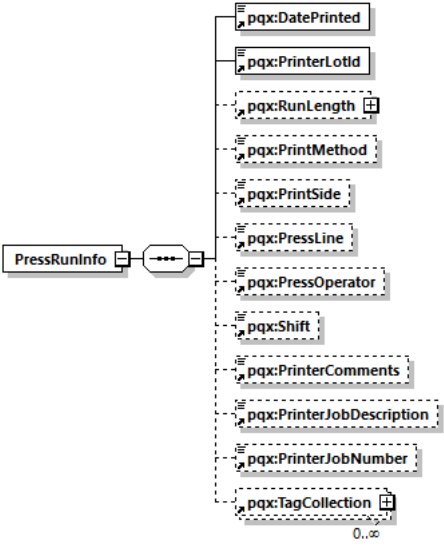
element **PressLine**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field that provides the line within a print shop where the press run took place

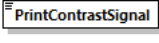
element **PressOperator**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field that identifies the person running the press

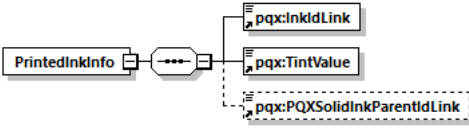
## element **PressRunInfo**

diagram	 <pre> graph LR     PressRunInfo[PressRunInfo] --- Container[ ]     Container --- ppxDatePrinted[ppx:DatePrinted]     Container --- ppxPrinterLotId[ppx:PrinterLotId]     Container --- ppxRunLength[ppx:RunLength]     Container --- ppxPrintMethod[ppx:PrintMethod]     Container --- ppxPrintSide[ppx:PrintSide]     Container --- ppxPressLine[ppx:PressLine]     Container --- ppxPressOperator[ppx:PressOperator]     Container --- ppxShift[ppx:Shift]     Container --- ppxPrinterComments[ppx:PrinterComments]     Container --- ppxPrinterJobDescription[ppx:PrinterJobDescription]     Container --- ppxPrinterJobNumber[ppx:PrinterJobNumber]     Container --- ppxTagCollection[ppx:TagCollection]     </pre> <p>The diagram shows the <b>PressRunInfo</b> element connected to a container, which then branches into twelve child elements: <b>ppx:DatePrinted</b>, <b>ppx:PrinterLotId</b>, <b>ppx:RunLength</b>, <b>ppx:PrintMethod</b>, <b>ppx:PrintSide</b>, <b>ppx:PressLine</b>, <b>ppx:PressOperator</b>, <b>ppx:Shift</b>, <b>ppx:PrinterComments</b>, <b>ppx:PrinterJobDescription</b>, <b>ppx:PrinterJobNumber</b>, and <b>ppx:TagCollection</b>. The <b>ppx:TagCollection</b> element has a cardinality of 0..∞.</p>
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">ppx:DatePrinted</a> <a href="#">ppx:PrinterLotId</a> <a href="#">ppx:RunLength</a> <a href="#">ppx:PrintMethod</a> <a href="#">ppx:PrintSide</a> <a href="#">ppx:PressLine</a> <a href="#">ppx:PressOperator</a> <a href="#">ppx:Shift</a> <a href="#">ppx:PrinterComments</a> <a href="#">ppx:PrinterJobDescription</a> <a href="#">ppx:PrinterJobNumber</a> <a href="#">ppx:TagCollection</a>
used by	element <a href="#">PQX</a>
annotation	<p>documentation</p> <p>set of fields that provide the physical characteristics of the continuous operation of a printing press for the job that produced the printed item from which print quality data was captured</p>

## element **PrintContrastSignal**


diagram	 <pre> graph LR     PrintContrastSignal[PrintContrastSignal]     </pre> <p>The diagram shows the <b>PrintContrastSignal</b> element as a single box.</p>
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<a href="#">ppx:percentType</a>
used by	element <a href="#">Traditional1DVerification</a>
annotation	<p>documentation</p> <p>field of a barcode report that expresses the ratio of the background (space) reflectance minus the bar reflectance to the background (space) reflectance as a percentage</p>

## element **PrintedInkInfo**


diagram	 <pre> graph LR     PrintedInkInfo[PrintedInkInfo] --- Container[ ]     Container --- ppxInkIdLink[ppx:InkIdLink]     Container --- ppxTintValue[ppx:TintValue]     Container --- ppxPQXSolidInkParentIdLink[ppx:PQXSolidInkParentIdLink]     </pre> <p>The diagram shows the <b>PrintedInkInfo</b> element connected to a container, which then branches into three child elements: <b>ppx:InkIdLink</b>, <b>ppx:TintValue</b>, and <b>ppx:PQXSolidInkParentIdLink</b>.</p>
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">ppx:InkIdLink</a> <a href="#">ppx:TintValue</a> <a href="#">ppx:PQXSolidInkParentIdLink</a>

used by	element <a href="#">Measurement</a>
annotation	documentation set of fields that providing information about an ink that is required for tone value calculaltions

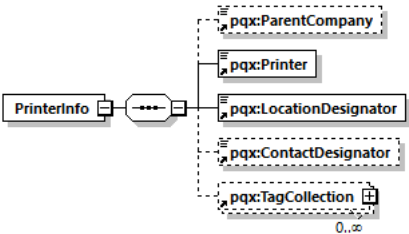
#### element **Printer**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PrinterInfo</a>
annotation	documentation field that provides the name of the print service provider responsible for printing items purchased by a print buyer

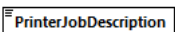
#### element **PrinterComments**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field provided for the printer to transmit additional data to the print buyer

#### element **PrinterInfo**


diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ParentCompany</a> <a href="#">pqx:Printer</a> <a href="#">pqx:LocationDesignator</a> <a href="#">pqx:ContactDesignator</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">PQX</a>
annotation	documentation set of fields that describe the print service provider that printed the items from which print quality data was captured

#### element **PrinterJobDescription**


diagram	
namespace	http://idealliance.org/pqx

type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field used by the printer to provide a human-readable account of the print run from which print quality data was captured.

#### element **PrinterJobNumber**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field that captures a printer-generated identifier for the press run

#### element **PrinterLotId**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field used by the printer to uniquely identify the press run, or collection of items (pieces of art) and press sheets, panels, cans, etc. from which print quality data was captured

#### element **PrinterQA**


diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ReportingPerson</a> <a href="#">pqx:ContactDesignator</a> <a href="#">pqx:ReporterComments</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">Reporter</a>
annotation	documentation set of fields that carry information about the party at the printer, that was responsible for reporting on a printed item

#### element **PrintGrowth**

diagram	
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
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that captures the deviation as a percentage (larger or smaller) of actual element size from intended element size due to printing problems

## element **PrintMethod**


diagram			
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
type	<a href="#">pqx:printMethodType</a>		
used by	element <a href="#">PressRunInfo</a>		
facets	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 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.
	enumeration	letterPress	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.
	enumeration	hybrid	documentation Hybrid Printing: printing using a combination of methods such as inkjet and digital.
	enumeration	other	documentation Other Method: any other method not enumerated by PQX for printing an item.

annotation	documentation field that provides an account of the mechanism by which the sample was printed
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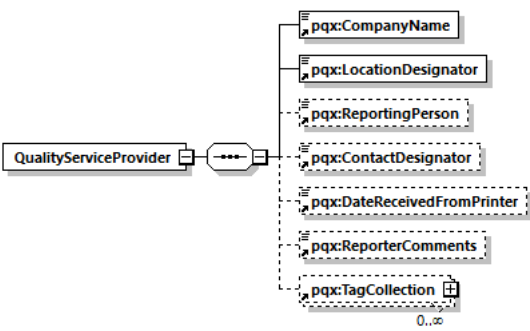
### element **PrintSide**

diagram			
namespace	http://idealliance.org/pqx		
type	<a href="#">pqx:printSideType</a>		
used by	element	<a href="#">PressRunInfo</a>	
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.
	enumeration	both	documentation Both Sides Printed: The press prints the image on the both the surface and reverse sides of the substrate.
annotation	documentation field that provides the side of the substrate where the image is printed		

### element **Product**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">CustomerItem</a>
annotation	documentation field that provides a word or words by which an item offered for sale is known

### element **QualityServiceProvider**

diagram			
namespace	http://idealliance.org/pqx		
children	<a href="#">pqx:CompanyName</a> <a href="#">pqx:LocationDesignator</a> <a href="#">pqx:ReportingPerson</a> <a href="#">pqx:ContactDesignator</a> <a href="#">pqx:DateReceivedFromPrinter</a> <a href="#">pqx:ReporterComments</a> <a href="#">pqx:TagCollection</a>		



used by	element <a href="#">Reporter</a>
annotation	documentation set of fields that carry information about a party, other than the printer, that was responsible for observing or measuring the printed item

### element **QualitySpecEmployed**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">CustomerItem</a>					
attributes	Name <a href="#">QualitySpecName</a>	Type <b>xs:string</b>	Use required	Default	Fixed	Annotation documentation field that provides the Choice between Brand followed by Product or the combined Brand-Product element may be employed at the request of the print buyer or at the discretion of the printer or reporter. documentation field that provides the version of the customer's quality specification
	<a href="#">QualitySpecVersion</a>	<b>xs:string</b>	required			
annotation	documentation set of fields that provides an informational reference to the quality specification employed for the press run					

### attribute **QualitySpecEmployed/@QualitySpecName**


type	<b>xs:string</b>
annotation	documentation field that provides the Choice between Brand followed by Product or the combined Brand-Product element may be employed at the request of the print buyer or at the discretion of the printer or reporter.

### attribute **QualitySpecEmployed/@QualitySpecVersion**


type	<b>xs:string</b>
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annotation	documentation field that provides the version of the customer's quality specification
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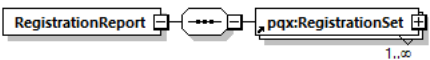
#### element **QuietZone**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	elements <a href="#">FPDDetails</a> <a href="#">Traditional1DVerification</a>
annotation	documentation field of a barcode report that captures damage to the required minimum blank space preceding (left margin) and trailing (right margin) of a barcode

#### element **ReferenceInkIdLink**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:NCName</b>
used by	elements <a href="#">MeasuredChannel</a> <a href="#">ObservedChannel</a>
annotation	documentation field that provides a connection to the ink that will serve as the point of reference to which the alignment of all other ink channels will be compared for channel-based registration reporting

#### element **RegistrationReport**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:RegistrationSet</a>
used by	element <a href="#">Sample</a>
annotation	documentation set of fields that provide an account of the accuracy of the alignment of inks printed on a sample

## element **RegistrationSet**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqq:CustomerItemIdLink</a> <a href="#">pqq:PositionOnSample</a> <a href="#">pqq:MarkType</a> <a href="#">pqq:VarianceReport</a> <a href="#">pqq:ChannelReport</a> <a href="#">pqq:TagCollection</a>
used by	element <a href="#">RegistrationReport</a>
annotation	documentation set of fields that provides data about the accuracy of the alignment of inks on a printed sample

## element **Reporter**

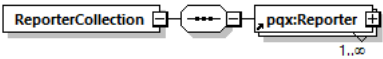
diagram													
namespace	http://idealliance.org/pqx												
children	<a href="#">pqq:QualityServiceProvider</a> <a href="#">pqq:PrinterQA</a> <a href="#">pqq:AutomatedPressControl</a> <a href="#">pqq:TagCollection</a>												
used by	element <a href="#">ReporterCollection</a>												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td><a href="#">Id</a></td><td>xs:ID</td><td>required</td><td></td><td></td><td>documentation field that provides unique identification (within the scope of the PQX file) for this reporter</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">Id</a>	xs:ID	required			documentation field that provides unique identification (within the scope of the PQX file) for this reporter
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">Id</a>	xs:ID	required			documentation field that provides unique identification (within the scope of the PQX file) for this reporter								
annotation	documentation field that identifies the automated system or person/company that captured the quality data used to generate this PQX file												

## attribute **Reporter/@Id**

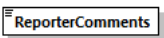
type	xs:ID
------	-------

annotation	documentation field that provides unique identification (within the scope of the PQX file) for this reporter
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### element **ReporterCollection**

diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
children	<a href="#">ppx:Reporter</a>
used by	element <a href="#">PQX</a>
annotation	documentation set of fields that provide information about all the systems and/or individuals responsible for the quality data capture for the reports in the PQX file


### element **ReporterComments**

diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
type	<b>xs:string</b>
used by	elements <a href="#">PrinterQA</a> <a href="#">QualityServiceProvider</a>
annotation	documentation field provided for the party that conducted measurement and visual evaluations to transmit additional reporting data

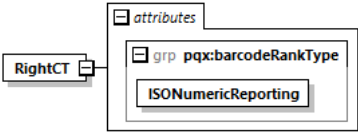
### element **ReporterIdLink**

diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
type	<b>xs:NCName</b>
used by	elements <a href="#">Barcode1DEntry</a> <a href="#">Barcode2DEntry</a> <a href="#">DefectSet</a> <a href="#">MeasuredChannel</a> <a href="#">MeasuredMax</a> <a href="#">MeasurementSet</a> <a href="#">ObservedChannel</a> <a href="#">ObservedMax</a>
annotation	documentation field that provides a connection to the system or company/individual responsible for data capture for a quality report


### element **ReportingPerson**

diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
type	<b>xs:string</b>
used by	elements <a href="#">PrinterQA</a> <a href="#">QualityServiceProvider</a>
annotation	documentation field that identifies the person that captured the quality data used to generate this PQX file

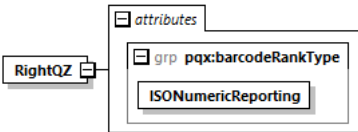
### element **RightCT**

diagram						
namespace	http://idealliance.org/ppx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">ppx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that reports damage to the right clock track of a data matrix 2D barcode					

### element **RightMargin**

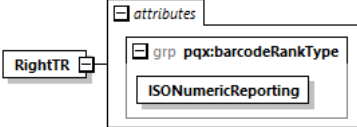
diagram						
namespace	http://idealliance.org/ppx					
type	<b>xs:string</b>					
used by	element <a href="#">Traditional1DVerification</a>					
annotation	documentation field of a barcode report that expresses the presence of a minimum blank space trailing a barcode					

### element **RightQZ**

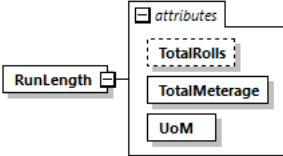
diagram						
namespace	http://idealliance.org/ppx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">ppx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures damage to the required minimum blank space to the right of a 2D barcode					

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## element **RightTR**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field that captures the ratio between the number of transitions on the right clock track and the associated solid area of the 2D barcode					

## element **RunLength**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">PressRunInfo</a>					
attributes	Name <a href="#">TotalRolls</a>	Type <b>xs:positiveInteger</b>	Use	Default	Fixed	Annotation documentation field that provides the total number of substrate rolls used for the press run
	<a href="#">TotalMeterage</a>	<a href="#">pqx:meterageValueType</a>	required			documentation field that provides the total meterage or count indicator value for the entire press run
	<a href="#">UoM</a>	<a href="#">pqx:meterageUoMType</a>	required			documentation field that

		provides the unit used for expressing the meterage for the press-run position
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**

type	<b>xs:positiveInteger</b>
annotation	documentation field that provides the total number of substrate rolls used for the press run

attribute **RunLength/@TotalMeterage**

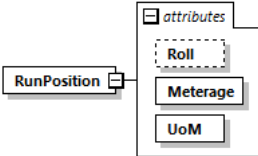
type	<a href="#">pqx:meterageValueType</a>
annotation	documentation field that provides the total meterage or count indicator value for the entire press run

attribute **RunLength/@UoM**

type	<a href="#">pqx:meterageUoMType</a>		
facets	Kind enumeration	Value ft	Annotation 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

	<p>enumeration pc documentation Pica Type: abbreviation for relative measure of pica</p> <p>enumeration ln documentation Line Type: abbreviation for relative measure of a line</p> <p>enumeration items documentation Item Type: measure of the number of printed items such as cans, bottles, sheets, etc.</p>
annotation	<p>documentation field that provides the unit used for expressing the meterage for the press-run position</p>

## element **RunPosition**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">SampleDescription</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">Roll</a>	<b>xs:positiveInteger</b>				documentation field that provides a numerical designation for the roll of substrate from which a sample was taken
	<a href="#">Meterage</a>	<a href="#">pqx:meterageValueType</a>	required			documentation field that provides a count indicator value for the location on a roll of substrate or a sequential number for the printed item within a press run where the sample was taken for evaluation
	<a href="#">UoM</a>	<a href="#">pqx:meterageUoMType</a>	required			documentation field that provides the unit used for expressing the



	meterage for the press-run position
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 **RunPosition/@Roll**

type	<b>xs:positiveInteger</b>
annotation	documentation field that provides a numerical designation for the roll of substrate from which a sample was taken

attribute **RunPosition/@Meterage**

type	<a href="#">pqx:meterageValueType</a>
annotation	documentation field that provides a count indicator value for the location on a roll of substrate or a sequential number for the printed item within a press run where the sample was taken for evaluation

attribute **RunPosition/@UoM**

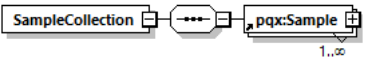
type	<a href="#">pqx:meterageUoMType</a>		
facets	Kind	Value	Annotation
	enumeration	ft	documentation Foot Type: abbreviation for foot
	enumeration	in	documentation Inch Type: abbreviation for inch
	enumeration	yd	documentation Yard Type: abbreviation for yard
	enumeration	m	documentation MeterType: abbreviation for meter
	enumeration	cm	documentation Centimeter Type: abbreviation for centimeter
	enumeration	mm	documentation Milimeter Type: abbreviation for millimeter
	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	items	documentation Item Type: measure of the number of printed items such as cans, bottles, sheets, etc.
annotation	documentation field that provides the unit used for expressing the meterage for the press-run position		

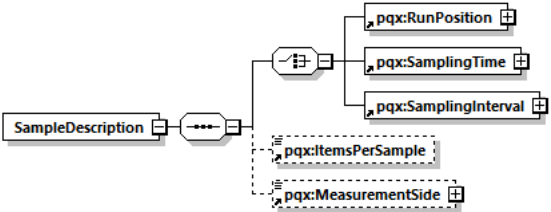
### element **Sample**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:SampleDescription</a> <a href="#">pqx:ColorReport</a> <a href="#">pqx:RegistrationReport</a> <a href="#">pqx:DefectReport</a> <a href="#">pqx:BarcodeReport</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">SampleCollection</a>
annotation	documentation set of fields that carry information about a selected item or items for which quality is observed and data is being reported

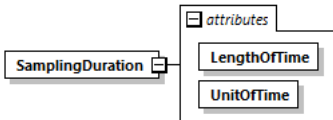
### element **SampleCollection**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:Sample</a>
used by	element <a href="#">POX</a>
annotation	documentation set of fields that provide information about all instances of printed items that are measured, observed and reported on from a press run

## element **SampleDescription**

diagram	 The diagram shows the SampleDescription element as a container. Inside, there is a sequence of elements: ppx:RunPosition, ppx:SamplingTime, and ppx:SamplingInterval. Following these is a dashed box containing ppx:ItemsPerSample and ppx:MeasurementSide.
namespace	http://idealliance.org/ppx
children	<a href="#">ppx:RunPosition</a> <a href="#">ppx:SamplingTime</a> <a href="#">ppx:SamplingInterval</a> <a href="#">ppx:ItemsPerSample</a> <a href="#">ppx:MeasurementSide</a>
used by	element <a href="#">Sample</a>
annotation	documentation field that provides a description of how this sample was selected

## element **SamplingDuration**

diagram						
namespace	http://idealliance.org/ppx					
used by	element <a href="#">SamplingInterval</a>					
attributes	Name <a href="#">LengthOfTime</a>	Type <b>xs:decimal</b>	Use required	Default	Fixed	Annotation documentation field that provides the number of units f time during a press run when samples taken
	<a href="#">UnitOfTime</a>	<b>ppx:uoTimeType</b>	required			documentation field that provides the unit of time used to measure when samples were taken
annotation	documentation set of fields that provide the amount of during a press run when samples were taken					

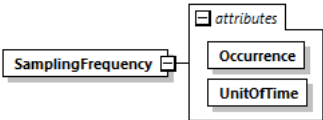
## attribute **SamplingDuration/@LengthOfTime**

type	<b>xs:decimal</b>
annotation	documentation field that provides the number of units f time during a press run when samples taken

### attribute **SamplingDuration/@UnitOfTime**

type	<a href="#">pqx:uoTimeType</a>		
facets	Kind	Value	Annotation
	enumeration	s	documentation Second Type: abbreviation for second
	enumeration	min	documentation Minute Type: abbreviation for minute
	enumeration	hr	documentation Hour Type: abbreviation for hour
	enumeration	d	documentation Day Type: abbreviation for day
annotation	documentation field that provides the unit of time used to measure when samples were taken		

### element **SamplingFrequency**

diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
used by	element <a href="#">SamplingInterval</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">Occurrence</a>	<b>xs:decimal</b>	required			documentation field that captures the number of samples taken
	<a href="#">UnitOfTime</a>	<a href="#">pqx:uoTimeType</a>	required			documentation Time Period: the unit of time when samples were taken
annotation	documentation set of fields that provide the number of times during a press run when samples were taken					

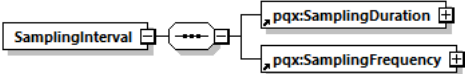
### attribute **SamplingFrequency/@Occurrence**

type	<b>xs:decimal</b>
annotation	documentation field that captures the number of samples taken

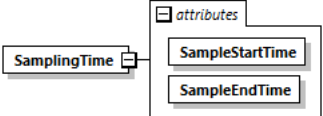
### attribute **SamplingFrequency/@UnitOfTime**

type	<a href="#">pqx:uoTimeType</a>		
facets	Kind	Value	Annotation
	enumeration	s	documentation Second Type: abbreviation for second
	enumeration	min	documentation Minute Type: abbreviation for minute
	enumeration	hr	documentation Hour Type: abbreviation for hour
enumeration	d		documentation Day Type: abbreviation for day
annotation	documentation Time Period: the unit of time when samples were taken		

### element **SamplingInterval**

diagram			
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
children	<a href="#">pqx:SamplingDuration</a> <a href="#">pqx:SamplingFrequency</a>		
used by	element <a href="#">SampleDescription</a>		
annotation	documentation set of fields that provides the intervals press run that produced the printed samples from which print quality data was captured		

### element **SamplingTime**

diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
used by	element <a href="#">SampleDescription</a>					
attributes	Name <a href="#">SampleStartTime</a>	Type <b>xs:dateTime</b>	Use required	Default	Fixed	Annotation documentation required attribute of SamplingTime to capture the time when the first of a set of samples to be reported was taken.

	<a href="#">SampleEndTime</a> <b>xs:dateTime</b> required	documentation required attribute of SamplingTime to capture the time when the last of a set of samples to be reported was taken.
annotation	documentation set of fields that provide the time in an ISO date/time format during a press run when a sample was taken	


#### attribute **SamplingTime/@SampleStartTime**

type	<b>xs:dateTime</b>
annotation	documentation required attribute of SamplingTime to capture the time when the first of a set of samples to be reported was taken.

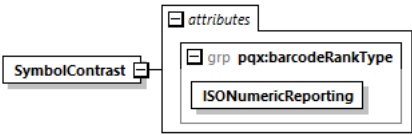
#### attribute **SamplingTime/@SampleEndTime**

type	<b>xs:dateTime</b>
annotation	documentation required attribute of SamplingTime to capture the time when the last of a set of samples to be reported was taken.

#### element **Shift**

diagram	
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:string</b>
used by	element <a href="#">PressRunInfo</a>
annotation	documentation field that provides the printer workforce period when the press run took place

#### element **SymbolContrast**

diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
used by	elements <a href="#">ISO1DVerification</a> <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a

		scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of the barcode report that grades the percent of maximum reflectance (Rmax) minus the percent of minimum reflectance (rMin)	

#### element **TagCollection**

diagram						
namespace	http://idealliance.org/pqx					
children	<a href="#">pqx:Tag</a>					
used by	elements	<a href="#">AutomatedPressControl</a> <a href="#">Barcode1DEntry</a> <a href="#">Barcode2DEntry</a> <a href="#">CustomerItem</a> <a href="#">DefectData</a> <a href="#">DefectSet</a> <a href="#">Ink</a> <a href="#">MeasuredChannel</a> <a href="#">MeasuredMax</a> <a href="#">Measurement</a> <a href="#">MeasurementSet</a> <a href="#">ObservedChannel</a> <a href="#">ObservedMax</a> <a href="#">PQX</a> <a href="#">PQXInfo</a> <a href="#">PressRunInfo</a> <a href="#">PrinterInfo</a> <a href="#">PrinterQA</a> <a href="#">QualityServiceProvider</a> <a href="#">RegistrationSet</a> <a href="#">Reporter</a> <a href="#">Sample</a> <a href="#">Traditional1DVerification</a> <a href="#">Traditional2DVerification</a> <a href="#">VerificationSet</a>				
attributes	Name <a href="#">Name</a>	Type <b>xs:string</b>	Use required	Default	Fixed	Annotation documentation field that provides a required key or name for a collection of custom PQX tags
annotation	documentation data container used to insert additional, custom child elements into the definition of a PQX element; used to include print quality data that is considered application specific in nature and not generally of use to all other applications					

#### attribute **TagCollection/@Name**

type	<b>xs:string</b>
annotation	documentation field that provides a required key or name for a collection of custom PQX tags

#### element **TagCollection/Tag**

diagram						
namespace	http://idealliance.org/pqx					
attributes	Name <a href="#">Name</a>	Type <b>xs:string</b>	Use required	Default	Fixed	Annotation documentation required field to provide a key or label for

	<a href="#">Value</a> <b>xs:string</b> required	a custom PQX tag documentation required field to provide an equivalence for a custom PQX tag
annotation	documentation field designed to transmit custom print quality metadata as a name / value pair	


#### attribute **TagCollection/Tag/@Name**

type	<b>xs:string</b>
annotation	documentation required field to provide a key or label for a custom PQX tag

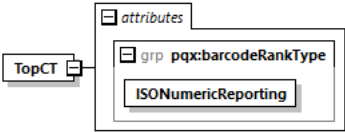
#### attribute **TagCollection/Tag/@Value**

type	<b>xs:string</b>
annotation	documentation required field to provide an equivalence for a custom PQX tag

#### element **TintValue**

diagram						
namespace	http://idealliance.org/pqx					
type	<b>xs:nonNegativeInteger</b>					
used by	element <a href="#">PrintedLinkInfo</a>					
annotation	documentation field that provides the percentage of ink coverage as a nonnegative integer					

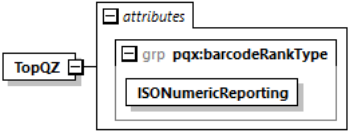
#### element **TopCT**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <b>pqx:numericGradeType</b>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0

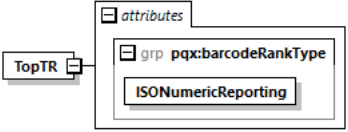


	(high).
annotation	documentation field of a barcode report that reports damage to the top clock track of a data matrix 2D barcode


### element **TopQZ**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures damage to the required minimum blank space at the top of a 2D barcode					

### element **TopTR**

diagram						
namespace	http://idealliance.org/pqx					
used by	element <a href="#">FPDDetails</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures the ratio between the number of transitions on the top clock track and the associated solid area of the 2D barcode					

### element **TotalCodewordCount**

diagram						
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namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
type	<b>xs:nonNegativeInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field of a barcode report that provides the number of data and non-data codewords a barcode can carry

#### element **Traditional1DVerification**

diagram	<pre> classDiagram     class Traditional1DVerification     class pqxMinimumReflectance     class pqxMaximumReflectance     class pqxGlobalThreshold     class pqxBarcodeDefects     class pqxAverageBarGain     class pqxPrintContrastSignal     class pqxLowestScanGrade     class pqxQuietZone     class pqxLeftMargin     class pqxRightMargin     class pqxCheckCharacter     class pqxAperture     class pqxMagnification     class pqxTagCollection      Traditional1DVerification "0..∞" -- "*" pqxMinimumReflectance     Traditional1DVerification "0..∞" -- "*" pqxMaximumReflectance     Traditional1DVerification "0..∞" -- "*" pqxGlobalThreshold     Traditional1DVerification "0..∞" -- "*" pqxBarcodeDefects     Traditional1DVerification "0..∞" -- "*" pqxAverageBarGain     Traditional1DVerification "0..∞" -- "*" pqxPrintContrastSignal     Traditional1DVerification "0..∞" -- "*" pqxLowestScanGrade     Traditional1DVerification "0..∞" -- "*" pqxQuietZone     Traditional1DVerification "0..∞" -- "*" pqxLeftMargin     Traditional1DVerification "0..∞" -- "*" pqxRightMargin     Traditional1DVerification "0..∞" -- "*" pqxCheckCharacter     Traditional1DVerification "0..∞" -- "*" pqxAperture     Traditional1DVerification "0..∞" -- "*" pqxMagnification     Traditional1DVerification "0..∞" -- "*" pqxTagCollection </pre>
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>
children	<a href="#">pqx:MinimumReflectance</a> <a href="#">pqx:MaximumReflectance</a> <a href="#">pqx:GlobalThreshold</a> <a href="#">pqx:BarcodeDefects</a> <a href="#">pqx:AverageBarGain</a> <a href="#">pqx:PrintContrastSignal</a> <a href="#">pqx:LowestScanGrade</a> <a href="#">pqx:QuietZone</a> <a href="#">pqx:LeftMargin</a> <a href="#">pqx:RightMargin</a> <a href="#">pqx:CheckCharacter</a> <a href="#">pqx:Aperture</a> <a href="#">pqx:Magnification</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">Barcode1DEntry</a>
annotation	documentation set of fields in the linear barcode report that contains traditional general, or ungraded, quality data scores based on width measurements of bars and spaces compared to ideal values for the print quality of a linear barcode

## element **Traditional2DVerification**

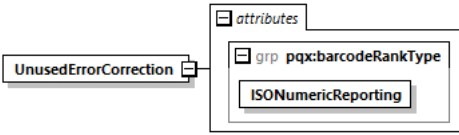
diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
children	<a href="#">ppx:MatrixSize</a> <a href="#">ppx:NominalXDimension</a> <a href="#">ppx:ContrastUniformity</a> <a href="#">ppx:PrintGrowth</a> <a href="#">ppx:HorizontalBWG</a> <a href="#">ppx:VerticalBWG</a> <a href="#">ppx:EncodedCharacterCount</a> <a href="#">ppx:DataCodewordCount</a> <a href="#">ppx:TotalCodewordCount</a> <a href="#">ppx:ErrorCapacityUsed</a> <a href="#">ppx:ErrorCorrectionBudget</a> <a href="#">ppx:ErrorCorrectionUse</a> <a href="#">ppx:ErrorsCorrected</a> <a href="#">ppx:ErrorCorrectionType</a> <a href="#">ppx:ImageType</a> <a href="#">ppx:AverageGrade</a> <a href="#">ppx:Aperture</a> <a href="#">ppx:WavelengthOfLight</a> <a href="#">ppx:AngleOfLight</a> <a href="#">ppx:TagCollection</a>
used by	element <a href="#">Barcode2DEntry</a>
annotation	documentation set of fields in the two-dimensional barcode report that contains traditional general, or ungraded quality data scores included to provide greater information and detail about barcode quality

## element **TransitionRatio**


diagram	
namespace	<a href="http://idealliance.org/ppx">http://idealliance.org/ppx</a>
used by	element <a href="#">FPDDetails</a>

attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation field of a barcode report that captures the ratio between the number of transitions on the clock track and the associated solid area of the 2D barcode					

#### element **UnusedErrorCorrection**

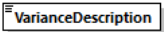
diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
used by	element <a href="#">ISO2DVerification</a>					
attributes	Name <a href="#">ISONumericReporting</a>	Type <a href="#">pqx:numericGradeType</a>	Use required	Default	Fixed	Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).
annotation	documentation (UEC) field of a barcode report that measures the amount of available error correction (reading safety margin) of a symbol					

#### element **UoM**

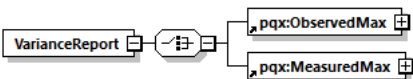
diagram						
namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>					
type	<a href="#">pqx:linearUoMType</a>					
used by	elements <a href="#">DefectSize</a> <a href="#">MeasuredChannel</a> <a href="#">MeasuredMax</a>					
facets	Kind enumeration	Value ft	Annotation documentation Foot Type: abbreviation for foot			
	enumeration	in	documentation Inch Type: abbreviation for inch			
	enumeration	mil	documentation Thou Type: abbreviation for .001 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	ft2	documentation Square foot Type: abbreviation for square foot
enumeration	in2	documentation Sqare Inch Type: abbreviation for square inch
enumeration	yd2	documentation Square Yard Type: abbreviation for square yard
enumeration	m2	documentation Square MeterType: abbreviation for square meter
enumeration	cm2	documentation Square Centimeter Type: abbreviation for square centimeter
enumeration	mm2	documentation Square Milimeter Type: abbreviation for square milimeter
enumeration	nm2	documentation Square Nanometer Type: abbreviation for square nanometer
enumeration	um2	documentation Square Micrometer 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
annotation	documentation field that provides the physical linear unit used to measure registration positioning	

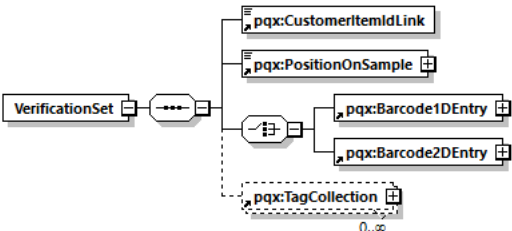
### element **VarianceDescription**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:string</b>
used by	element <a href="#">ObservedMax</a>
annotation	documentation field that provides a visual account of the alignment of a registration mark on the printed sample

### element **VarianceReport**

diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:ObservedMax</a> <a href="#">pqx:MeasuredMax</a>
used by	element <a href="#">RegistrationSet</a>
annotation	documentation set of fields made up of the maximum variance reports (observed, measured or both ) for an registration set

### element **VerificationSet**


diagram	
namespace	http://idealliance.org/pqx
children	<a href="#">pqx:CustomerItemLinkId</a> <a href="#">pqx:PositionOnSample</a> <a href="#">pqx:Barcode1DEntry</a> <a href="#">pqx:Barcode2DEntry</a> <a href="#">pqx:TagCollection</a>
used by	element <a href="#">BarcodeReport</a>
annotation	documentation set of fields that carry the barcode reporting for a specific position on a printed item

### element **VerticalBWG**

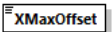
diagram	
namespace	http://idealliance.org/pqx
type	<a href="#">pqx:percentType</a>
used by	element <a href="#">Traditional2DVerification</a>

annotation	documentation field of a barcode report that captures the percent of vertical spreading (bar width growth) of a printed 2D barcode element
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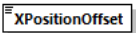
#### element **WavelengthOfLight**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:positiveInteger</b>
used by	element <a href="#">Traditional2DVerification</a>
annotation	documentation field that captures the aperture reference number (from ISO/IEC 15416 for linear scanning techniques, or the diameter in thousandths of an inch (to the nearest thousandth) of the synthetic aperture

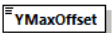
#### element **XMaxOffset**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">MeasuredMax</a>
annotation	documentation field of a registration Maximum Variance report that specifies the maximum variance offset across the X (horizontal) axis expressed in the registration unit of measure

#### element **XPositionOffset**

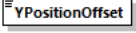
diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">MeasuredChannel</a>
annotation	documentation field that provides a numeric value in the registration unit of measure that expresses the X-axis (horizontal) position from the specified ink channel reference

#### element **YMaxOffset**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>

used by	element <a href="#">MeasuredMax</a>
annotation	documentation field of a maximum variance registration report that specifies the maximum variance offset across the Y (vertical) axis expressed in the registration unit of measure

#### element **YPositionOffset**

diagram	
namespace	http://idealliance.org/pqx
type	<b>xs:decimal</b>
used by	element <a href="#">MeasuredChannel</a>
annotation	documentation field that provides a numeric value in the registration unit of measure that expresses the Y-axis (vertical) alignment from the specified ink channel reference

#### simpleType **agentRoleType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	attribute <a href="#">Agent/@Role</a>		
facets	Kind	Value	Annotation
	enumeration	broker	documentation Broker: agent that sells print service.
	enumeration	preMediaCompany	documentation Pre-media Company: agent that prepares digital media to be printed.
	enumeration	printQualityServiceProvider	documentation Print Quality Service Provider: agent that provides quality assurance services to a print buyer.
	enumeration	supplier	documentation Supplier: agent that provides supplies, such as inks or substrates, to the printer or is a supplier to the print buyer.
	enumeration	other	documentation Other Agent: any other party that plays a role in the print quality supply chain.
	enumeration	NA	documentation NA: an indication that an agent does not participate in this activity.
annotation	documentation PQX datatype made up of standard print agent role types or other		

#### simpleType **alphaGradeType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
facets	Kind	Value	Annotation
	enumeration	A	documentation The highest grade on a scale of A to F.
	enumeration	B	documentation The second highest grade on a scale of A to F.



	enumeration	C	documentation The median grade on a scale of A to F.
	enumeration	D	documentation The next to lowest grade on a scale of A to F.
	enumeration	F	documentation The lowest grade on a scale of A to F, typically designated as "failing".
annotation	documentation PQX datatype defining the expression alpha characters A - F		

### simpleType **averagingMethodType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element	<a href="#">AveragingMethod</a>	
facets	Kind	Value	Annotation
	enumeration	arithmeticMean	documentation Arithmetic Mean: the average of a set of numerical values contributing equally to the final average, calculated by adding them together and dividing by the number of terms in the set.
	enumeration	weightedMean	documentation Weighted Mean: the average of a set of numerical values, calculated by multiplying each value by a weighting factor, then adding them together and dividing by the number of terms in the set.
	enumeration	median	documentation Median: value or quantity lying at the midpoint of a frequency distribution of observed values or quantities, such that there is an equal probability of falling above or below it:
	enumeration	custom	documentation Custom Averaging: average calculated by a custom formula.
	enumeration	none	documentation No Averaging: no average is calculated or employed.
	enumeration	NA	documentation NA: Averaging does not apply in this situation.
annotation	documentation PQX datatype made up of standard averaging method types		

### simpleType **barcodeSymbolType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:string</b>		
used by	elements	<a href="#">BarcodeSymbology ImageType</a>	
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

	enumeration	Code11	<p>and impact printers (the most common print technology in use in the early 1970's).</p> <p>documentation</p> <p>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 (-).</p>
	enumeration	Code128	<p>documentation</p> <p>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.</p>
	enumeration	Code39	<p>documentation</p> <p>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.</p>
	enumeration	Code32	<p>documentation</p> <p>Code 32: was used all over Italy for the encoding of pharmaceutical products.</p>
	enumeration	CrontoSign	<p>documentation</p> <p>CrontoSign: graphical cryptogram consisting of a matrix of colored dots used to secure banking transactions.</p>
	enumeration	Pharmacode	<p>documentation</p> <p>Pharmacode: 1D barcode used mainly in the pharmaceutical manufacturing.</p>
	enumeration	ExtendedCode39	<p>documentation</p> <p>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.</p>
	enumeration	Code49	<p>documentation</p> <p>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.</p>
	enumeration	Code93	<p>documentation</p> <p>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.</p>
	enumeration	CompositeCode	<p>documentation</p> <p>Composite Code: 2D barcode symbol included above a DataBar, UPC, EAN, or Code 128 barcode to encode additional data.</p>
	enumeration	CPCBinary	<p>documentation</p> <p>CPC Binary Barcode: Canada Post's proprietary symbology used in its automated mail sortation operations.</p>
	enumeration	DataMatrix	<p>documentation</p> <p>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.</p>
	enumeration	EAN-2	<p>documentation</p> <p>EAN-2: isupplement to the EAN-13 and UPC-A barcodes. It is often used on magazines and periodicals to indicate an issue number.</p>
	enumeration	EAN-5	<p>documentation</p> <p>EAN-5: 5 digit supplement to the EAN-13 barcode used on books.</p>
	enumeration	EAN-8	<p>documentation</p> <p>EAN-8: barcode and is derived from the longer International Article</p>

	enumeration	EAN-13	Number (EAN-13) code used on small packages. <a href="#">documentation</a> 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	<a href="#">documentation</a> 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	<a href="#">documentation</a> Han Xin barcode is a 2D barcode developed by China for the encoding the Chinese characters and other text information efficiently.
	enumeration	HighCapacityColorBarcode	<a href="#">documentation</a> 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	<a href="#">documentation</a> The Intelligent Mail Barcode: (IM barcode) is a 65-bar code for use to efficiently deliver mail in the United States.
	enumeration	Industrial2of5	<a href="#">documentation</a> 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.
	enumeration	Interleaved2of5	<a href="#">documentation</a> Interleaved 2of5: 1D barcode with nine functional characters (123456789) and one symbol check character (5).
	enumeration	ITF-14	<a href="#">documentation</a> ITF 14: 1D barcode symbology which is derived from interleaved 2 of 5 and easily encodes 14 digits.
	enumeration	JAN	<a href="#">documentation</a> JAN: thirteen-digit EAN-13 where a prefix with the first two digits of "45" or "49" indicates a Japanese Article Number.
	enumeration	KarTrak	<a href="#">documentation</a> KarTrak: sometimes KarTrak ACI (for Automatic Car Identification) is a colored bar code system designed to automatically identify rail cars and other rolling stock.
	enumeration	LOGMARS	<a href="#">documentation</a> 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.
	enumeration	MaxiCode	<a href="#">documentation</a> 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.
	enumeration	MMCC	<a href="#">documentation</a> 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.
	enumeration	MSIPlessey	<a href="#">documentation</a> 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.

enumeration	OPCOpticalIndustryAssociation	documentation OPC: barcode for marking retail optical products.
enumeration	PDF-417	documentation 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.
enumeration	Plessey	documentation Plessey Code is a 1D barcode used in some libraries and for shelf tags in retail stores to support internal stock control.
enumeration	PostBar	documentation 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.
enumeration	POSTNET	documentation 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.
enumeration	QRCode	documentation QR Code (Quick Response Code) is a machine-readable code consisting of an array of black and white squares, typically used for storing URLs or other information for reading by the camera on a smartphone.
enumeration	SCC-14	documentation SCC 14 barcode or Shipping Container Code is a 14-digit number assigned to fixed content shipping containers.
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.
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.
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
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.
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.
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

	<p>enumeration other</p> <p>documentation Other is designated for a barcode not found on the PQX list of standard barcode types</p>
annotation	<p>documentation PQX datatype made up of the union of standard barcode symbol types and a user-defined custom value</p>

### simpleType **codewordsType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:string</b>		
used by	element	<a href="#">Codewords</a>	
facets	Kind	Value	Annotation
	pattern	[0{1}1-9{2} {1}]*[0{1}1-9{2}]	
annotation	documentation PQX datatype used to define a field containing a list of barcode codewords separated by a space; each codeword consists of 3 integers		

### simpleType **colorReportType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	attribute	<a href="#">ColorReport/@ReportType</a>	
facets	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 PQX datatype made up of a list of standard color report types		

### simpleType **customerItemIdType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	attribute	<a href="#">CustomerItem/@IdDisplayName</a>	
facets	Kind	Value	Annotation
	enumeration	SKU	documentation SKU: stock-keeping unit.
	enumeration	UPC	documentation UPC: universal product code.
	enumeration	artCode	documentation

	enumeration other documentation Art Code: identifier for art that is printed. Other Code: any other identifier for the item printed.
annotation	documentation PQX datatype made up of a list of standard print item identifier types

#### simpleType **dateOrDateTime**

namespace	http://idealliance.org/pqx
type	union of ( <b>xs:date</b> , <b>xs:dateTime</b> )
used by	elements <a href="#">DatePrinted</a> <a href="#">DateReceivedFromPrinter</a> <a href="#">PQXDate</a>
annotation	documentation PQX datatype made up of the union of a standard ISO date type and a standard ISO dateTime type

#### simpleType **defectNameType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">DefectName</a>		
facets	Kind	Value	Annotation
	enumeration	hickey	<a href="#">documentation</a> Hickey: printing defect caused by a particle either of paper or other source of debris attaching itself to the printing plate, blanket, gravure cylinder, or other image-carrying surface. Debris produces either a blank, unprinted spot in a printed area (a void hickey) or a solid printed area ringed by a blank unprinted area (a doughnut hickey).
	enumeration	bullseye	<a href="#">documentation</a> Bullseye: printing defect which is characterized by circular voids.
	enumeration	streak	<a href="#">documentation</a> Streak: printing defect which is characterized by a mark or band of a different substance or color from its surroundings.
	enumeration	scratch	<a href="#">documentation</a> Scratch: printing defect which is characterized by a score or damage to the surface of the substrate on which an image is printed.
	enumeration	line	<a href="#">documentation</a> Line: printing defect which is characterized by a very thin band of a different substance or color from its surroundings.
	enumeration	slur	<a href="#">documentation</a> Slur: printing defect which is characterized by a blur on the image, often caused by movement of the paper.
	enumeration	other	<a href="#">documentation</a> Other Defect: printing defect not included in the PQX standard defect list.
	annotation	<a href="#">documentation</a> PQX datatype made up of a list of standard defect name types	

#### simpleType **inkChannelNameType**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:NMTOKEN</b>

used by	element <a href="#">InkChannelName</a>		
facets	Kind	Value	Annotation
	enumeration	cyan	documentation Cyan Channel: The cyan ink channel.
	enumeration	magenta	documentation Magenta Channel: The magenta ink channel.
	enumeration	yellow	documentation Yellow Channel: The yellow ink channel.
	enumeration	black	documentation Black Channel: The black ink channel.
	enumeration	orange	documentation Orange Channel: The orange ink channel.
	enumeration	violet	documentation Violet Channel: The violet ink channel.
	enumeration	red	documentation Red Channel: The red ink channel.
	enumeration	blue	documentation Blue Channel: The blue ink channel.
	enumeration	green	documentation Green Channel: The green ink channel.
	enumeration	spot	documentation Spot Color Channel: A spot color ink channel.
	enumeration	coating	documentation Coating Channel: An ink channel for a coating or varnish.
	enumeration	other	documentation Other Channel: A non-standard ink channel type.
annotation	documentation PQX datatype made up of the union of standard ink channel name types and a user-defined custom value		

### simpleType **inkChannelTypeType**

namespace	<a href="http://idealliance.org/pqx">http://idealliance.org/pqx</a>		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">InkChannelType</a>		
facets	Kind	Value	Annotation
	enumeration	process	documentation Process Ink Channel Type: an ink channel carrying a member of a process ink set (2 or more inks), intended to be printed in combination with other process ink(s) in order to reproduce a range of colors or "gamut"
facets	enumeration	spot	documentation Spot Ink Channel Type: an ink channel carrying a single ink, intended to produce a specific color printed color – often associated with a brand equity color

	enumeration   coating   documentation Coating Ink Channel Type: an ink channel carrying a coating or varnish
annotation	documentation PQX datatype made up of a list of standard ink channel types

### simpleType **inkTypeType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">InkType</a>		
facets	Kind	Value	Annotation
	enumeration	solventBasedDye	documentation Solvent Based Ink Type: an ink that carries a colorant in a solvent such as a ketone.
	enumeration	waterBasedDye	documentation Water Based Ink Type: an ink that carries a colorant in water.
	enumeration	solventBasedPigment	documentation Solvent Based Ink Type: an ink that carries a colorant in a solvent such as a ketone.
	enumeration	waterBasedPigment	documentation Water Based Ink Type: an ink that carries a colorant in water.
	enumeration	UVCured	documentation UV-Cured Ink Type: an ink that is cured with UV.
	enumeration	eBeamCured	documentation eBeam-Cured Ink Type: an ink that is cured with eBeams.
	enumeration	latex	documentation Latex Ink Type: an ink that is latex based.
	enumeration	dryToner	documentation Dry Toner Ink Type: a laser printer ink that is powder-based
	enumeration	liquidToner	documentation Liquid Toner Ink Type: a laser printer ink that is fluid-based
	enumeration	other	documentation Other Ink Type: an ink type that is not defined by listed ink type values
annotation	documentation PQX datatype made up of standard ink types		

### simpleType **linearUoMType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">UoM</a> attribute <a href="#">Aperture/@UoM</a>		
facets	Kind	Value	Annotation
	enumeration	ft	documentation Foot Type: abbreviation for foot
	enumeration	in	documentation Inch Type: abbreviation for inch
	enumeration	mil	documentation



		Thou Type: abbreviation for .001 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	ft2	documentation Square foot Type: abbreviation for square foot
enumeration	in2	documentation Sqare Inch Type: abbreviation for square inch
enumeration	yd2	documentation Square Yard Type: abbreviation for square yard
enumeration	m2	documentation Square MeterType: abbreviation for square meter
enumeration	cm2	documentation Square Centimeter Type: abbreviation for square centimeter
enumeration	mm2	documentation Square Milimeter Type: abbreviation for square milimeter
enumeration	nm2	documentation Square Nanometer Type: abbreviation for square nanometer
enumeration	um2	documentation Square Micrometer 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

annotation	documentation PQX datatype made up of a list of standard length and area measurement types
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### simpleType **meterageUoMType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	attributes <a href="#">RunLength/@UoM</a> <a href="#">RunPosition/@UoM</a>		
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	items	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**

namespace	http://idealliance.org/pqx
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type	restriction of <b>xs:decimal</b>
used by	attributes <a href="#">RunPosition/@Meterage</a> <a href="#">RunLength/@TotalMeterage</a>
annotation	documentation PQX datatype defining non-negative decimal values used to measure meterage

#### simpleType **numericGradeType**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:decimal</b>
used by	attribute <a href="#">barcodeRankType/@ISONumericReporting</a>
annotation	documentation PQX datatype defining the expression decimals from 0.0 to 4.0

#### simpleType **one2tenType**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:integer</b>
used by	elements <a href="#">DefectSeverity</a> <a href="#">PositionOnSample</a>
annotation	documentation PQX datatype defining the expression integers from 0 to 180 for expression of degree of angle

#### simpleType **one2twoType**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:integer</b>
used by	element <a href="#">MeasurementSide</a>
annotation	documentation PQX datatype defining the expression integers from 1 to 2

#### simpleType **passFailType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">Decode</a>		
facets	Kind	Value	Annotation
	enumeration	pass	documentation Pass: indication that the value is acceptable.
	enumeration	fail	documentation Fail: indication that the value is not acceptable.
annotation	documentation PQX datatype defining the expression of pass/fail		

### simpleType **percentType**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:double</b>
used by	elements <a href="#">AverageBarGain</a> <a href="#">DefectInspectionPercentage</a> <a href="#">GlobalThreshold</a> <a href="#">HorizontalBWG</a> <a href="#">LowestScanGrade</a> <a href="#">MaximumReflectance</a> <a href="#">PrintContrastSignal</a> <a href="#">PrintGrowth</a> <a href="#">VerticalBWG</a>
annotation	documentation PQX datatype defining the expression of a percentage

### simpleType **printMethodType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	elements <a href="#">InkPrintMethod</a> <a href="#">PrintMethod</a>		
facets	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 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.
	enumeration	letterPress	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.
	enumeration	hybrid	documentation Hybrid Printing: printing using a combination of methods such as inkjet and digital.
	enumeration	other	documentation Other Method: any other method not enumerated by PQX for printing an item.
annotation	documentation PQX datatype made up of a list of standard print method types		

### simpleType **printSideType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">PrintSide</a>		
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.
	enumeration	both	documentation Both Sides Printed: The press prints the image on the both the surface and reverse sides of the substrate.
annotation	documentation PQX datatype made up of a list standard print side indicator types		

### simpleType **referenceType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	element <a href="#">BasisOfReference</a>		
facets	Kind	Value	Annotation
	enumeration	prepressFile	documentation Defect Prepress Reference: Defect evaluation was made by comparison to a reference prepress file such as a pdf or JPG image.
	enumeration	okSheet	documentation defect evaluation was made by comparison to a printed item designated as the "OK Sheet". The "OK Sheet" may be from a previous press run.
	enumeration	proof	documentation Defect Proof Reference: Defect evaluation was made by comparison to a proof.
annotation	documentation PQX datatype made up of defect determination reference types		

### simpleType **uoTimeType**

namespace	http://idealliance.org/pqx		
type	restriction of <b>xs:NMTOKEN</b>		
used by	attributes <a href="#">SamplingDuration/@UnitOfTime</a> <a href="#">SamplingFrequency/@UnitOfTime</a>		
facets	Kind	Value	Annotation
	enumeration	s	documentation Second Type: abbreviation for second
	enumeration	min	documentation Minute Type: abbreviation for minute

	<p>enumeration hr documentation Hour Type: abbreviation for hour</p> <p>enumeration d documentation Day Type: abbreviation for day</p>
annotation	<p>documentation PQX datatype made up of a list of standard time measurement types</p>

### simpleType **zero2180Type**

namespace	http://idealliance.org/pqx
type	restriction of <b>xs:integer</b>
used by	element <a href="#">AngleOfLight</a>
annotation	<p>documentation PQX datatype defining the expression integers from 0 to 180 for expression of degree of angle</p>

### attributeGroup **barcodeRankType**

namespace	http://idealliance.org/pqx					
used by	<p>elements <a href="#">AxialNonuniformity</a> <a href="#">BarcodeDefects</a> <a href="#">BottomLSide</a> <a href="#">BottomQZ</a> <a href="#">ClockTrack</a> <a href="#">CodewordYield</a> <a href="#">Decodability</a> <a href="#">FixedPatternDamage</a> <a href="#">GridNonuniformity</a> <a href="#">LeftLSide</a> <a href="#">LeftQZ</a> <a href="#">MinimumEdgeContrast</a> <a href="#">MinimumReflectance</a> <a href="#">Modulation</a> <a href="#">RightCT</a> <a href="#">RightQZ</a> <a href="#">RightTR</a> <a href="#">SymbolContrast</a> <a href="#">TopCT</a> <a href="#">TopQZ</a> <a href="#">TopTR</a> <a href="#">TransitionRatio</a> <a href="#">UnusedErrorCorrection</a></p>					
attributes	<p>Name <a href="#">ISONumericReporting</a></p>	<p>Type <a href="#">pqx:numericGradeType</a></p>	<p>Use required</p>	<p>Default</p>	<p>Fixed</p>	<p>Annotation documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).</p>
annotation	<p>documentation attribute group made up of ISO, ANSI and percentage grading types</p>					

### attribute **barcodeRankType/@ISONumericReporting**

type	<a href="#">pqx:numericGradeType</a>
annotation	<p>documentation ISO Numeric Reporting: employing a scale from 0.0 (low) to 4.0 (high).</p>