

Schema documentation for icp_v1_0.xsd

february 25, 2014

Table of Contents

Namespace: "kb.se/ns/image_capture_performance"	3
Schema(s)	3
Main schema icp_v1_0.xsd	3
Element(s)	3
Element tns:imageQualityControlData	3
Element tns:imageQuailtyControlDataType / tns:imageData	6
Element tns:imageDataType / tns:generalInformation	7
Element tns:generalInformationType / tns:equipmentModel	8
Element tns:generalInformationType / tns:dateOfProcessing	8
Element tns:generalInformationType / tns:dateOfTargetCapture	8
Element tns:generalInformationType / tns:targetData	9
Element tns:capturedTargetType / tns:targetType	10
Element tns:capturedTargetType / tns:numberOfPatches	10
Element tns:capturedTargetType / tns:measurementArea	11
Element tns:capturedTargetType / tns:targetUpsideDown	11
Element tns:capturedTargetType / tns:positionOfTarget	11
Element tns:positionOfTargetType / tns:corner	12
Element tns:coordinateType / tns:X	12
Element tns:coordinateType / tns:Y	12
Element tns:generalInformationType / tns:illuminationUniformity	13
Element tns:illuminationUniformityType / tns:illuminationUniformityValue	13
Element tns:illuminationUniformityType / tns:dateOfIlluminationMeasurement	14
Element tns:illuminationUniformityType / tns:daysSinceIlluminationMeasurement	14
Element tns:generalInformationType / tns:periodicMeasurement	15
Element tns:periodicMeasurement / tns:dateOfMeasurement	16
Element tns:periodicMeasurement / tns:daysSinceMeasurement	16
Element tns:periodicMeasurement / tns:resultString	16
Element tns:periodicMeasurement / tns:resultNumeric	16
Element tns:imageDataType / tns:patchMeasurements	17
Element tns:patchMeasurementsType / tns:patch	17
Element tns:patchType / tns:center	19
Element tns:patchType / tns:colorValues	19
Element tns:colorValuesType / tns:L	19
Element tns:colorValuesType / tns:A	20
Element tns:colorValuesType / tns:B	20
Element tns:patchType / tns:deltaE	20
Element tns:patchType / tns:deltaL	21
Element tns:patchType / tns:deltaC	21
Element tns:patchType / tns:noise	22
Element tns:imageDataType / tns:aggregateMeasurements	22
Element tns:aggregateMeasurementsType / tns:lengthOfTarget	24
Element tns:aggregateMeasurementsType / tns:resolution	24
Element tns:aggregateMeasurementsType / tns:maxDeltaE	24
Element tns:aggregateMeasurementsType / tns:meanDeltaE	25
Element tns:aggregateMeasurementsType / tns:maxDeltaL	25
Element tns:aggregateMeasurementsType / tns:meanDeltaL	26
Element tns:aggregateMeasurementsType / tns:maxDeltaC	26
Element tns:aggregateMeasurementsType / tns:meanDeltaC	27
Element tns:aggregateMeasurementsType / tns:gainModulation	27
Element tns:gainModulationType / tns:L95-L80	28
Element tns:gainModulationType / tns:L95-L90	28
Element tns:gainModulationType / tns:L85-L20	28
Element tns:gainModulationType / tns:L85-L10	28
Element tns:aggregateMeasurementsType / tns:maxNoise	29
Element tns:imageQuailtyControlDataType / tns:qualityData	29
Element tns:qualityDataType / tns:qualityLevelData	30
Element tns:qualityLevelType / tns:validFrom	32
Element tns:qualityLevelType / tns:meanDeltaE	32
Element tns:qualityLevelType / tns:maxDeltaE	33
Element tns:qualityLevelType / tns:meanDeltaL	33
Element tns:qualityLevelType / tns:maxDeltaL	34
Element tns:qualityLevelType / tns:meanDeltaC	34
Element tns:qualityLevelType / tns:maxDeltaC	35

Element tns:qualityLevelType / tns:maxIlluminationUniformityA1	35
Element tns:qualityLevelType / tns:maxIlluminationUniformityA2	36
Element tns:qualityLevelType / tns:maxIlluminationUniformityA3	36
Element tns:qualityLevelType / tns:resolution	36
Element tns:qualityLevelType / tns:sharpness	37
Element tns:qualityLevelType / tns:minGainModulationL95L90	37
Element tns:qualityLevelType / tns:maxGainModulationL95L90	38
Element tns:qualityLevelType / tns:minGainModulationL95L80	38
Element tns:qualityLevelType / tns:maxGainModulationL95L80	39
Element tns:qualityLevelType / tns:minGainModulationL85L20	39
Element tns:qualityLevelType / tns:maxGainModulationL85L20	39
Element tns:qualityLevelType / tns:minGainModulationL85L10	40
Element tns:qualityLevelType / tns:maxGainModulationL85L10	40
Element tns:qualityDataType / tns:targetData	40
Element tns:targetDataType / tns:targetType	42
Element tns:targetDataType / tns:numberOfPatches	42
Element tns:targetDataType / tns:daysSinceTargetMeasurement	42
Element tns:targetDataType / tns:colorValues	43
Element tns:colorValuesTargetType / tns:L	44
Element tns:colorValuesTargetType / tns:A	44
Element tns:colorValuesTargetType / tns:B	44
Element tns:qualityDataType / tns:selectionBatchData	45
Element tns:selectionBatchDataType / tns:batchID	45
Element tns:imageQualityControlDataType / tns:fileList	46
Element tns:fileListType / tns:file	46
Element tns:fileType / tns:qualityLevelName	48
Element tns:fileType / tns:manuallyControlled	48
Element tns:fileType / tns:statisticallyControlled	49
Element tns:manuallyControlledFileType / tns:fileName	49
Complex Type(s)	50
Complex Type tns:imageQualityControlDataType	50
Complex Type tns:imageDataType	50
Complex Type tns:generalInformationType	52
Complex Type tns:capturedTargetType	54
Complex Type tns:positionOfTargetType	55
Complex Type tns:coordinateType	55
Complex Type tns:illuminationUniformityType	56
Complex Type tns:periodicMeasurement	57
Complex Type tns:patchMeasurementsType	58
Complex Type tns:patchType	58
Complex Type tns:colorValuesType	60
Complex Type tns:aggregateMeasurementsType	61
Complex Type tns:gainModulationType	63
Complex Type tns:qualityDataType	64
Complex Type tns:qualityLevelType	64
Complex Type tns:targetDataType	69
Complex Type tns:colorValuesTargetType	70
Complex Type tns:selectionBatchDataType	72
Complex Type tns:fileListType	72
Complex Type tns:fileType	72
Complex Type tns:manuallyControlledFileType	75
Simple Type(s)	75
Simple Type tns:illuminationUniformityValueType	75
Simple Type tns:resultStringType	75
Simple Type tns:resultNumericType	76
Simple Type tns:L95L80Type	76
Simple Type tns:L95L90Type	76
Simple Type tns:L85L20Type	77
Simple Type tns:L85L10Type	77
Namespace: ""	77
Attribute(s)	77
Attribute tns:capturedTargetType / @nameOfTarget	77
Attribute tns:capturedTargetType / @dateOfPhysicalMeasurement	78
Attribute tns:illuminationUniformityType / tns:illuminationUniformityValue / @size	78
Attribute tns:periodicMeasurement / @measurementType	78
Attribute tns:patchType / @patchID	79
Attribute tns:imageDataType / @equipmentName	79
Attribute tns:imageDataType / @captureDate	79
Attribute tns:imageDataType / @captureID	79
Attribute tns:imageDataType / @captureNumber	80
Attribute tns:qualityLevelType / @qualityLevelName	80
Attribute tns:colorValuesTargetType / @patchID	81

Attribute tns:targetDataType / @nameOfTarget	81
Attribute tns:targetDataType / @dateOfMeasurement	81
Attribute tns:selectionBatchDataType / @selectionBatchID	81
Attribute tns:fileType / @fileName	82
Attribute tns:fileType / @equipmentName	82
Attribute tns:fileType / @captureID	82
Attribute tns:fileType / @targetCaptureDate	83
Attribute tns:fileType / @captureNumber	83
Attribute tns:imageQualityControlDataType / @packageDate	83
Attribute tns:manuallyControlledFileType / tns:fileName / @result	84

Namespace: "kb.se/ns/image_capture_performance"

Schema(s)

Main schema icp_v1_0.xsd

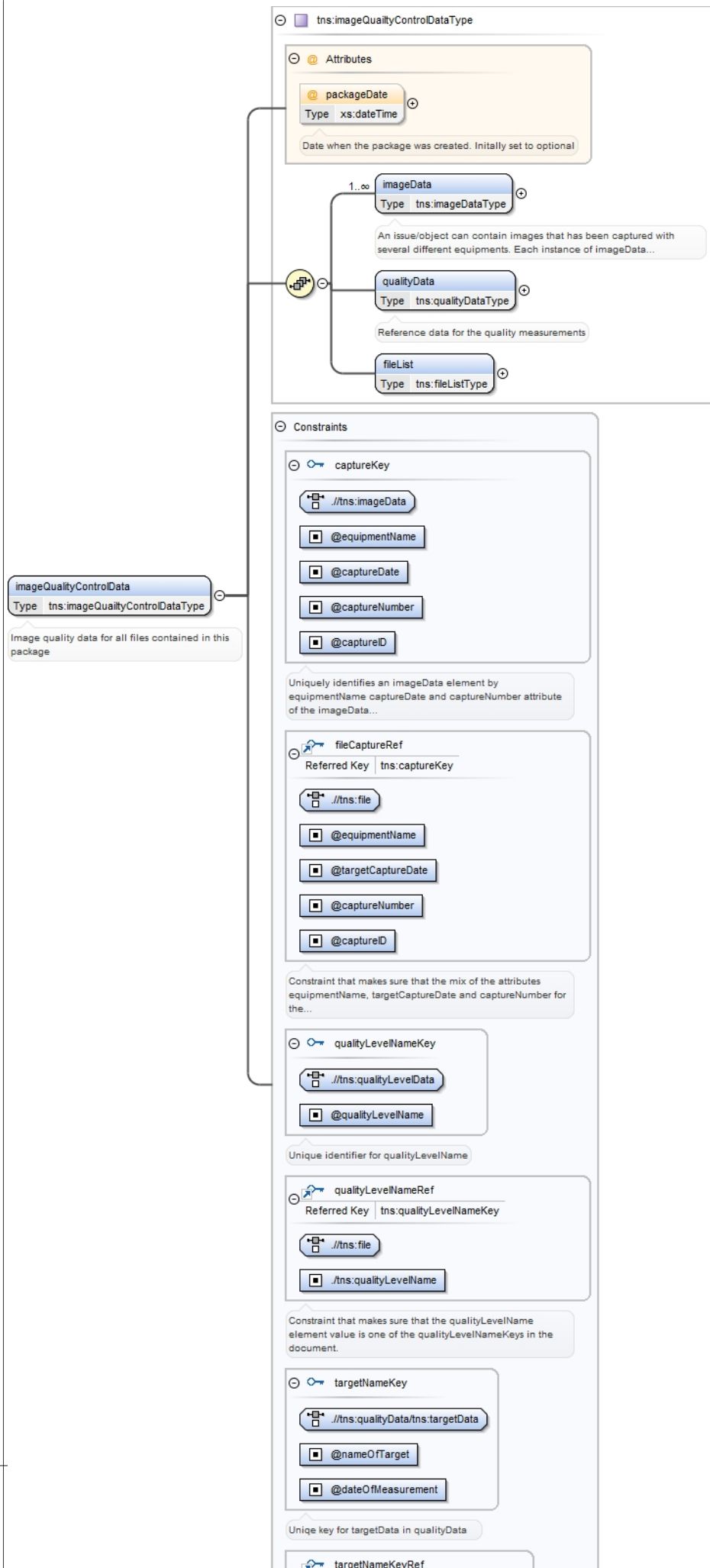
Namespace	kb.se/ns/image_capture_performance						
Annotations	This is the xml schema for image capture performance data, developed by The National Library of Sweden, used for inhouse digitization projects. Reference to the latest version of xml schema: schemaLocation="http://www.kb.se/namespace/image_capture_performance/icp_v1.xsd" Recommended prefix for kb.se/ns/image_capture_performance: icp Current version: 1.0 (2014-02-25) Version history:						
Properties	<table> <tr> <td>attribute form default:</td><td>unqualified</td></tr> <tr> <td>element form default:</td><td>qualified</td></tr> <tr> <td>version:</td><td>1.0</td></tr> </table>	attribute form default:	unqualified	element form default:	qualified	version:	1.0
attribute form default:	unqualified						
element form default:	qualified						
version:	1.0						

Element(s)

Element tns:imageQualityControlData

Namespace	kb.se/ns/image_capture_performance
Annotations	Image quality data for all files contained in this package

Diagram



Type	tns:imageQualityControlDataType			
Properties	content: complex			
Model	tns:imageData+ , tns:qualityData , tns:fileList			
Children	tns:fileList, tns:imageData, tns:qualityData			
Instance	<pre><tns:imageQualityControlData packageDate="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:imageData captureDate="" captureID="" captureNumber="" equipmentName="">{1,unbounded}</ tns:imageData> <tns:qualityData>{1,1}</tns:qualityData> <tns:fileList>{1,1}</tns:fileList> </tns:imageQualityControlData></pre>			
Attributes	QName	Type	Use	
	packageDate	xs:dateTime	optional	
		Date when the package was created. Initially set to optional		
Source	<pre><xs:element name="imageQualityControlData" type="tns:imageQualityControlDataType"> <xs:annotation> <xs:documentation xml:lang="eng">Image quality data for all files contained in this package</ xs:documentation> </xs:annotation> <xs:key name="captureKey"> <xs:annotation> <xs:documentation xml:lang="eng">Uniquely identifies an imageData element by equipmentName captureDate and captureNumber attribute of the imageData element</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:imageData"/> <xs:field xpath="@equipmentName"/> <xs:field xpath="@captureDate"/> <xs:field xpath="@captureNumber"/> <xs:field xpath="@captureID"/> </xs:key> <xs:keyref name="fileCaptureRef" refer="tns:captureKey"> <xs:annotation> <xs:documentation xml:lang="eng">Constraint that makes sure that the mix of the attributes equipmentName, targetCaptureDate and captureNumber for the file element matches a present captureKey in the document</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:file"/> <xs:field xpath="@equipmentName"/> <xs:field xpath="@targetCaptureDate"/> <xs:field xpath="@captureNumber"/> <xs:field xpath="@captureID"/> </xs:keyref> <xs:key name="qualityLevelNameKey"> <xs:annotation> <xs:documentation xml:lang="eng">Unique identifier for qualityLevelName</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:qualityLevelData"/> <xs:field xpath="@qualityLevelName"/> </xs:key> <xs:keyref name="qualityLevelNameRef" refer="tns:qualityLevelNameKey"> <xs:annotation> <xs:documentation xml:lang="eng">Constraint that makes sure that the qualityLevelName element value is one of the qualityLevelNameKeys in the document.</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:file"/> <xs:field xpath="tns:qualityLevelName"/> </xs:keyref> <xs:key name="targetNameKey"> <xs:annotation> <xs:documentation xml:lang="eng">Unique key for targetData in qualityData</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:qualityData/tns:targetData"/> <xs:field xpath="@nameOfTarget"/> <xs:field xpath="@dateOfMeasurement"/> </xs:key> <xs:keyref name="targetNameKeyRef" refer="tns:targetNameKey"> <xs:annotation> <xs:documentation xml:lang="eng">Key reference to qualityData/targetData</xs:documentation> </xs:annotation> <xs:selector xpath="//tns:generalInformation/tns:targetData"/> <xs:field xpath="@nameOfTarget"/> <xs:field xpath="@dateOfPhysicalMeasurement"/> </xs:keyref> </xs:element></pre>			

Element `tns:imageQualityControlDataType` / `tns:imageData`

Namespace	kb.se/ns/image_capture_performance		
Annotations	An issue/object can contain images that has been captured with several different equipments. Each instance of imageData contains image quality data for a single image capture equipment. The image quality data is valid during a limited period of time, usually one day. Hence, the same piece of equipment can appear in several instances if it has been used on multiple occasions that involves a time span that is longer than the period of validity. Some scanners can simultaneously produce multiple images, generally of both sides of an object (front/back/left/right). For a number of scanners, it's impossible to identify if an image depicts the front or back side of an object. As a result, we cannot tie these images to a specific sensor (or sensors, if the image is stitched).		
Diagram			
Type	tns:imageDataType		
Properties	content:	complex	
	minOccurs:	1	
	maxOccurs:	unbounded	
Model	tns:generalInformation , tns:patchMeasurements , tns:aggregateMeasurements		
Children	tns:aggregateMeasurements, tns:generalInformation, tns:patchMeasurements		
Instance	<pre><tns:imageData captureDate="" captureID="" captureNumber="" equipmentName="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:generalInformation>{1,1}</tns:generalInformation> <tns:patchMeasurements>{1,1}</tns:patchMeasurements> <tns:aggregateMeasurements>{1,1}</tns:aggregateMeasurements> </tns:imageData></pre>		
Attributes	QName	Type	Use
	captureDate	xs:date	required
		Date of capture for the image(s) used for image quality measurements.	

QName	Type	Use	
captureID	restriction of xs:string	required	
	Identifier for the combination of equipment and an image that contains the target. Naming convension: front, back, left, right, middle, single etc. An identical attribute is used for the element captureEquipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
captureNumber	restriction of xs:string	required	
	Sequence number/identifier for the image quality measurement. The number is specific for each equipment and it is reset daily. Included since we might want to perform several IQ measurements during a single day and we must be able to distinguish between them. Datatype is set to string to give the largest possible flexibility for the sequence numbering. Ordinary numbers are prefered. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
equipmentName	restriction of xs:string	required	
	Internal name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<pre> <xs:element type="tns:imageDataType" name="imageData" maxOccurs="unbounded" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">An issue/object can contain images that has been captured with several different equipments. Each instance of imageData contains image quality data for a single image capture equipment. The image quality data is valid during a limited period of time, usually one day. Hence, the same piece of equipment can appear in several instances if it has been used on multiple occations that involves a time span that is longer than the period of validity. Some scanners can simultaneously produce multiple images, generally of both sides of an object (front/back/left/right). For a number of scanners, it's impossible to identify if an image depicts the front or back side of an object. As a result, we cannot tie these images to a specific sensor (or sensors, if the image is stitched).</xs:documentation> </xs:annotation> </xs:element> </pre>		

Element `tns:imageDataType` / `tns:generalInformation`

Namespace	kb.se/ns/image_capture_performance
Annotations	Metadata about the current capture.
Diagram	
Type	<code>tns:generalInformationType</code>
Properties	content: complex

Model	tns:equipmentModel , tns:dateOfProcessing , tns:dateOfTargetCapture , tns:targetData , tns:illuminationUniformity , tns:periodicMeasurement*
Children	tns:dateOfProcessing, tns:dateOfTargetCapture, tns:equipmentModel, tns:illuminationUniformity, tns:periodicMeasurement, tns:targetData
Instance	<pre><tns:generalInformation xmlns:tns="kb.se/ns/image_capture_performance"> <tns:equipmentModel>{1,1}</tns:equipmentModel> <tns:dateOfProcessing>{1,1}</tns:dateOfProcessing> <tns:dateOfTargetCapture>{1,1}</tns:dateOfTargetCapture> <tns:targetData dateOfPhysicalMeasurement="" nameOfTarget="">{1,1}</tns:targetData> <tns:illuminationUniformity>{1,1}</tns:illuminationUniformity> <tns:periodicMeasurement measurementType="">{0,unbounded}</tns:periodicMeasurement> </tns:generalInformation></pre>
Source	<pre><xs:element type="tns:generalInformationType" name="generalInformation"> <xs:annotation> <xs:documentation xml:lang="eng">Metadata about the current capture.</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:generalInformationType / tns:equipmentModel

Namespace	kb.se/ns/image_capture_performance
Annotations	The model name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Diagram	The model name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	content: simple
Facets	pattern [a-zA-Z0-9._%+-]+
Source	<pre><xs:element name="equipmentModel"> <xs:annotation> <xs:documentation xml:lang="eng">The model name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element tns:generalInformationType / tns:dateOfProcessing

Namespace	kb.se/ns/image_capture_performance
Annotations	Date when the image quality measurements were performed
Diagram	Date when the image quality measurements were performed Built-in primitive type. The dateTime datatype represents a specific instant of time.
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="dateOfProcessing" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the image quality measurements were performed</ xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:generalInformationType / tns:dateOfTargetCapture

Namespace	kb.se/ns/image_capture_performance
Annotations	Date of the capture of the image that contains the

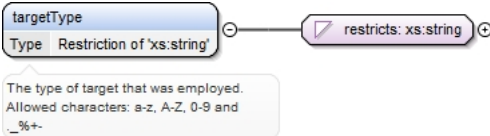
	target.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element type="xs:dateTime" name="dateOfTargetCapture"> <xs:annotation> <xs:documentation xml:lang="eng">Date of the capture of the image that contains the target.</ </xs:annotation> </xs:element></pre>

Element tns:generalInformationType / tns:targetData

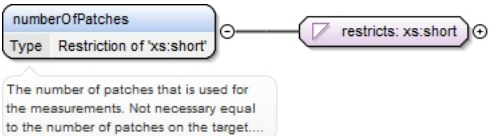
Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:capturedTargetType
Properties	content: complex
Model	tns:targetType , tns:numberOfPatches , tns:measurementArea , tns:targetUpsideDown{0,1} , tns:positionOfTarget{0,1}
Children	tns:measurementArea, tns:numberOfPatches, tns:positionOfTarget, tns:targetType, tns:targetUpsideDown
Instance	<pre><tns:targetData dateOfPhysicalMeasurement="" nameOfTarget="" xmlns:tns="kb.se/ns/ image_capture_performance"> <tns:targetType>{1,1}</tns:targetType> <tns:numberOfPatches>{1,1}</tns:numberOfPatches> <tns:measurementArea>{1,1}</tns:measurementArea> <tns:targetUpsideDown>{0,1}</tns:targetUpsideDown></pre>

	<tns:positionOfTarget>{0,1}</tns:positionOfTarget> </tns:targetData>			
Attributes	QName	Type	Use	
	dateOfPhysicalMeasurement	xs:date	optional	
		Date when the target's real-world color values was measured		
	nameOfTarget	restriction of xs:string	required	
		Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<xs:element name="targetData" type="tns:capturedTargetType"/>			

Element tns:capturedTargetType / tns:targetType

Namespace	kb.se/ns/image_capture_performance		
Annotations	The type of target that was employed. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Diagram			
Type	restriction of xs:string		
Properties	content:	simple	
Facets	pattern	[a-zA-Z0-9._%+-]+	
Source	<pre><xs:element name="targetType"> <xs:annotation> <xs:documentation xml:lang="eng">The type of target that was employed. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:capturedTargetType / tns:numberOfPatches

Namespace	kb.se/ns/image_capture_performance		
Annotations	The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target. Minimum number of patches in Digidaily is twelve (six color patches and six grayscale patches)		
Diagram			
Type	restriction of xs:short		
Properties	content:	simple	
	minOccurs:	1	
Facets	minInclusive	12	
Source	<pre><xs:element name="numberOfPatches" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target. Minimum number of patches in Digidaily is twelve (six color patches and six grayscale patches)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="12"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element `tns:capturedTargetType` / `tns:measurementArea`

Namespace	kb.se/ns/image_capture_performance
Annotations	The size of the area that was used for image quality measurements, in pixels. E.g. 10x10.
Diagram	The size of the area that was used for image quality measurements, in pixels. E.g. 10x10. Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple
Source	<pre><xs:element type="xs:string" name="measurementArea"> <xs:annotation> <xs:documentation xml:lang="eng">The size of the area that was used for image quality measurements, in pixels. E.g. 10x10.</xs:documentation> </xs:annotation> </xs:element></pre>

Element `tns:capturedTargetType` / `tns:targetUpsideDown`

Namespace	kb.se/ns/image_capture_performance
Annotations	Indicates if the target's orientation with regard to the contents in the image. 0/false corresponds to the target being upsidedown with regard to the main content in the image. 1/true is the opposite. Only used when the target image is stored.
Diagram	Indicates if the target's orientation with regard to the contents in the image. 0/false corresponds to the target being... Built-in primitive type. It defines the boolean values true and false.
Type	xs:boolean
Properties	content: simple minOccurs: 0
Source	<pre><xs:element type="xs:boolean" name="targetUpsideDown" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Indicates if the target's orientation with regard to the contents in the image. 0/false corresponds to the target being upsidedown with regard to the main content in the image. 1/true is the opposite. Only used when the target image is stored.</ xs:documentation> </xs:annotation> </xs:element></pre>

Element `tns:capturedTargetType` / `tns:positionOfTarget`

Namespace	kb.se/ns/image_capture_performance
Annotations	The target's coordinates in the reference image. Only included when we store the image that contains the target.
Diagram	The target's coordinates in the reference image. Only included when we store the image that contains the target. Coordinates for one corner of the target. Assumes a rectangular target. Only used when the target image is stored.
Type	tns:positionOfTargetType
Properties	content: complex minOccurs: 0
Model	tns:corner{4,4}

Children	tns:corner
Instance	<pre><tns:positionOfTarget xmlns:tns="kb.se/ns/image_capture_performance"> <tns:corner>{4,4}</tns:corner> </tns:positionOfTarget></pre>
Source	<pre><xs:element type="tns:positionOfTargetType" name="positionOfTarget" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">The target's coordinates in the reference image. Only included when we store the image that contains the target.</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:positionOfTargetType / tns:corner

Namespace	kb.se/ns/image_capture_performance						
Annotations	Coordinates for one corner of the target. Assumes a rectangular target. Only used when the target image is stored.						
Diagram							
Type	tns:coordinateType						
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>4</td></tr> <tr> <td>maxOccurs:</td><td>4</td></tr> </table>	content:	complex	minOccurs:	4	maxOccurs:	4
content:	complex						
minOccurs:	4						
maxOccurs:	4						
Model	tns:X , tns:Y						
Children	tns:X, tns:Y						
Instance	<pre><tns:corner xmlns:tns="kb.se/ns/image_capture_performance"> <tns:X>{1,1}</tns:X> <tns:Y>{1,1}</tns:Y> </tns:corner></pre>						
Source	<pre><xs:element type="tns:coordinateType" name="corner" maxOccurs="4" minOccurs="4"> <xs:annotation> <xs:documentation xml:lang="eng">Coordinates for one corner of the target. Assumes a rectangular target. Only used when the target image is stored.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element tns:coordinateType / tns:X

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	xs:int		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Source	<pre><xs:element name="X" type="xs:int"/></pre>		

Element tns:coordinateType / tns:Y

Namespace	kb.se/ns/image_capture_performance
Diagram	

Type	xs:int
Properties	content: simple
Source	<code><xs:element name="Y" type="xs:int"/></code>

Element `tns:generalInformationType` / `tns:illuminationUniformity`

Namespace	kb.se/ns/image_capture_performance
Annotations	The difference in illumination, measured between the image corners and the center. Measured in deltaL. A result might be included for all possible object sizes or only for element that corresponds to the size of the current object
Diagram	tns:illuminationUniformityType illuminationUniformityValue (1..3): Type Extension of 'tns:illuminationUniformityValueType'. The measured illumination uniformity for the size of the real-world object, in deltaL. The element that is closest to... dateOfIlluminationMeasurement (1..1): Type xs:dateTime. Datetime of the last illumination measurement. daysSinceIlluminationMeasurement (1..1): Type Restriction of 'xs:short'. Days since the last illumination uniformity measurement. Constraints uniqueSize: Unique constraint on the illuminationUniformityValue element. Selector: <code>./tns:illuminationUniformityValue</code>. Field: <code>@size</code>.
Type	tns:illuminationUniformityType
Properties	content: complex
Model	tns:illuminationUniformityValue , tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:illuminationUniformityValue
Instance	<pre><tns:illuminationUniformity xmlns:tns="kb.se/ns/image_capture_performance"> <tns:illuminationUniformityValue size="">{1,1}</tns:illuminationUniformityValue> <tns:dateOfIlluminationMeasurement>{1,1}</tns:dateOfIlluminationMeasurement> <tns:daysSinceIlluminationMeasurement>{1,1}</tns:daysSinceIlluminationMeasurement> </tns:illuminationUniformity></pre>
Source	<pre><xs:element name="illuminationUniformity" type="tns:illuminationUniformityType"> <xs:annotation> <xs:documentation xml:lang="eng">The difference in illumination, measured between the image corners and the center. Measured in deltaL. A result might be included for all possible object sizes or only for element that corresponds to the size of the current object</xs:documentation> </xs:annotation> <xs:unique name="uniqueSize"> <xs:selector xpath="./tns:illuminationUniformityValue"/> <xs:field xpath="@size"/> </xs:unique> </xs:element></pre>

Element `tns:illuminationUniformityType` / `tns:illuminationUniformityValue`

Namespace	kb.se/ns/image_capture_performance
Annotations	The measured illumination uniformity for the size of the real-world object, in deltaL. The element that is closest to the real-world size of the object must be created. The other elements are optional.
Diagram	tns:illuminationUniformityValue (Type Extension of 'tns:illuminationUniformityValueType') The measured illumination uniformity for the size of the real-world object, in deltaL. The element that is closest to... Attributes @size (Type Restriction of 'xs:string')
Type	extension of tns:illuminationUniformityValueType
Type hierarchy	xs:float

	• tns:illuminationUniformityValueType			
Properties	content:	complex		
	maxOccurs:	1		
Attributes	QName	Type	Use	
	size	restriction of xs:string	required	
Source	<pre> <xs:element name="illuminationUniformityValue" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">The measured illumination uniformity for the size of the real-world object, in deltaL. The element that is closest to the real-world size of the object must be created. The other elements are optional.</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="tns:illuminationUniformityValueType"> <xs:attribute name="size" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="A1"/> <xs:enumeration value="A2"/> <xs:enumeration value="A3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> </pre>			

Element tns:illuminationUniformityType / tns:dateOfIlluminationMeasurement

Namespace	kb.se/ns/image_capture_performance
Annotations	Datetime of the last illumination measurement
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre> <xs:element name="dateOfIlluminationMeasurement" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Datetime of the last illumination measurement</xs:documentation> </xs:annotation> </xs:element> </pre>

Element tns:illuminationUniformityType / tns:daysSinceIlluminationMeasurement

Namespace	kb.se/ns/image_capture_performance
Annotations	Days since the last illumination uniformity measurement
Diagram	
Type	restriction of xs:short
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="daysSinceIlluminationMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Days since the last illumination uniformity measurement</xs:documentation> </xs:annotation> </pre>

```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:short">
    <xs:minInclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>

```

Element `tns:generalInformationType` / `tns:periodicMeasurement`

Namespace	kb.se/ns/image_capture_performance			
Annotations	Generic complex type for periodic measurement, e.g. sharpness, stitching.			
Diagram				
Type	tns:periodicMeasurement			
Properties	content:	complex		
	minOccurs:	0		
	maxOccurs:	unbounded		
Model	tns:dateOfMeasurement , tns:daysSinceMeasurement , ((tns:resultString , tns:resultNumeric{0,1}) (tns:resultNumeric))			
Children	tns:dateOfMeasurement, tns:daysSinceMeasurement, tns:resultNumeric, tns:resultString			
Instance	<pre><tns:periodicMeasurement measurementType="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:dateOfMeasurement>{1,1}</tns:dateOfMeasurement> <tns:daysSinceMeasurement>{1,1}</tns:daysSinceMeasurement> <tns:resultString>{1,1}</tns:resultString> <tns:resultNumeric>{0,1}</tns:resultNumeric> <tns:resultNumeric>{1,1}</tns:resultNumeric> </tns:periodicMeasurement></pre>			
Attributes	QName	Type	Use	
	measurementType	restriction of xs:string	required	
		Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<pre><xs:element name="periodicMeasurement" type="tns:periodicMeasurement" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Generic complex type for periodic measurement, e.g. sharpness, stitching.</xs:documentation> </xs:annotation></pre>			

</xs:element>

Element tns:periodicMeasurement / tns:dateOfMeasurement

Namespace	kb.se/ns/image_capture_performance
Annotations	Date of the periodic measurement
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="dateOfMeasurement" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date of the periodic measurement</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:periodicMeasurement / tns:daysSinceMeasurement

Namespace	kb.se/ns/image_capture_performance
Annotations	Number of days since the measurement was performed
Diagram	
Type	restriction of xs:short
Properties	content: simple
Facets	minInclusive 0
Source	<pre><xs:element name="daysSinceMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Number of days since the measurement was performed</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element tns:periodicMeasurement / tns:resultString

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:resultStringType
Properties	content: simple
	minOccurs: 1
Facets	pattern [a-zA-Z0-9._%+-]+
Source	<pre><xs:element name="resultString" type="tns:resultStringType" minOccurs="1"/></pre>

Element tns:periodicMeasurement / tns:resultNumeric

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram	
Type	tns:resultNumericType
Properties	content: simple minOccurs: 0
Source	<pre><xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="0"/></pre>

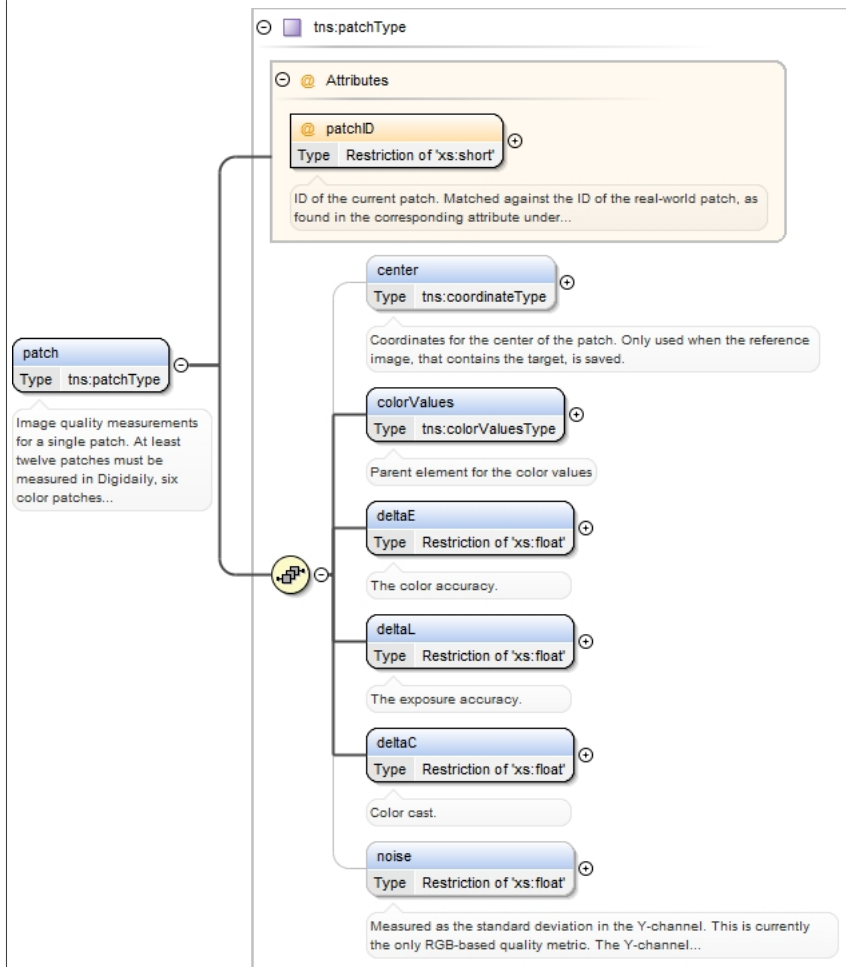
Element tns:imageDataType / tns:patchMeasurements

Namespace	kb.se/ns/image_capture_performance
Annotations	Parent element for the measurement data for all individual patches.
Diagram	
Type	tns:patchMeasurementsType
Properties	content: complex
Model	tns:patch{12,unbounded}
Children	tns:patch
Instance	<pre><tns:patchMeasurements xmlns:tns="kb.se/ns/image_capture_performance"> <tns:patch patchID="">{12, unbounded}</tns:patch> </tns:patchMeasurements></pre>
Source	<pre><xs:element type="tns:patchMeasurementsType" name="patchMeasurements"> <xs:annotation> <xs:documentation xml:lang="eng">Parent element for the measurement data for all individual patches.</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:patchMeasurementsType / tns:patch

Namespace	kb.se/ns/image_capture_performance
Annotations	Image quality measurements for a single patch. At least twelve patches must be measured in Digidaily, six color patches and six grayscale patches.

Diagram



Type	tns:patchType			
Properties	content:	complex		
	minOccurs:	12		
	maxOccurs:	unbounded		
Model	tns:center{0,1} , tns:colorValues , tns:deltaE , tns:deltaL , tns:deltaC , tns:noise{0,1}			
Children	tns:center, tns:colorValues, tns:deltaC, tns:deltaE, tns:deltaL, tns:noise			
Instance	<pre><tns:patch patchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:center>{0,1}</tns:center> <tns:colorValues>{1,1}</tns:colorValues> <tns:deltaE>{1,1}</tns:deltaE> <tns:deltaL>{1,1}</tns:deltaL> <tns:deltaC>{1,1}</tns:deltaC> <tns:noise>{0,1}</tns:noise> </tns:patch></pre>			
Attributes	QName	Type	Use	
	patchID	restriction of xs:short	required	
		ID of the current patch. Matched against the ID of the real-world patch, as found in the corresponding attribute under targetData/colorValues. Allowed values: 1 or higher		
Source	<pre><xs:element type="tns:patchType" name="patch" maxOccurs="unbounded" minOccurs="12"> <xs:annotation> <xs:documentation xml:lang="eng">Image quality measurements for a single patch. At least twelve patches must be measured in Digidaily, six color patches and six grayscale patches.</ </xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:patchType / tns:center

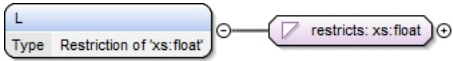
Namespace	kb.se/ns/image_capture_performance
Annotations	Coordinates for the center of the patch. Only used when the reference image, that contains the target, is saved.
Diagram	center Type tns:coordinateType Coordinates for the center of the patch. Only used when the reference image, that contains the target, is saved. tns:coordinateType X Type xs:int Y Type xs:int
Type	tns:coordinateType
Properties	content: complex minOccurs: 0
Model	tns:X , tns:Y
Children	tns:X, tns:Y
Instance	<pre><tns:center xmlns:tns="kb.se/ns/image_capture_performance"> <tns:X>{1,1}</tns:X> <tns:Y>{1,1}</tns:Y> </tns:center></pre>
Source	<pre><xs:element type="tns:coordinateType" name="center" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Coordinates for the center of the patch. Only used when the reference image, that contains the target, is saved.</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:patchType / tns:colorValues

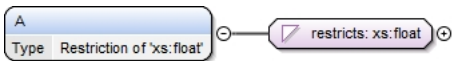
Namespace	kb.se/ns/image_capture_performance
Annotations	Parent element for the color values
Diagram	colorValues Type tns:colorValuesType Parent element for the color values tns:colorValuesType L Type Restriction of 'xs:float' A Type Restriction of 'xs:float' B Type Restriction of 'xs:float'
Type	tns:colorValuesType
Properties	content: complex
Model	tns:L , tns:A , tns:B
Children	tns:A, tns:B, tns:L
Instance	<pre><tns:colorValues xmlns:tns="kb.se/ns/image_capture_performance"> <tns:L>{1,1}</tns:L> <tns:A>{1,1}</tns:A> <tns:B>{1,1}</tns:B> </tns:colorValues></pre>
Source	<pre><xs:element type="tns:colorValuesType" name="colorValues"> <xs:annotation> <xs:documentation xml:lang="eng">Parent element for the color values</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:colorValuesType / tns:L

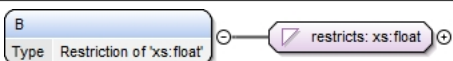
Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>100</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	100	minInclusive	0
maxInclusive	100				
minInclusive	0				
Source	<pre> <xs:element name="L" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:colorValuesType / tns:A

Namespace	kb.se/ns/image_capture_performance				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>100</td></tr> <tr> <td>minInclusive</td><td>-100</td></tr> </table>	maxInclusive	100	minInclusive	-100
maxInclusive	100				
minInclusive	-100				
Source	<pre> <xs:element name="A" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:colorValuesType / tns:B

Namespace	kb.se/ns/image_capture_performance				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>100</td></tr> <tr> <td>minInclusive</td><td>-100</td></tr> </table>	maxInclusive	100	minInclusive	-100
maxInclusive	100				
minInclusive	-100				
Source	<pre> <xs:element name="B" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:patchType / tns:deltaE

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Annotations	The color accuracy.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 300 minInclusive 0
Source	<pre> <xs:element name="deltaE"> <xs:annotation> <xs:documentation xml:lang="eng">The color accuracy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="300"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:patchType / tns:deltaL

Namespace	kb.se/ns/image_capture_performance
Annotations	The exposure accuracy.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 100 minInclusive 0
Source	<pre> <xs:element name="deltaL"> <xs:annotation> <xs:documentation xml:lang="eng">The exposure accuracy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:patchType / tns:deltaC

Namespace	kb.se/ns/image_capture_performance
Annotations	Color cast.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 283 minInclusive 0
Source	<pre> <xs:element name="deltaC"> <xs:annotation> <xs:documentation xml:lang="eng">Color cast.</xs:documentation> </xs:annotation> </pre>

```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="283"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>

```

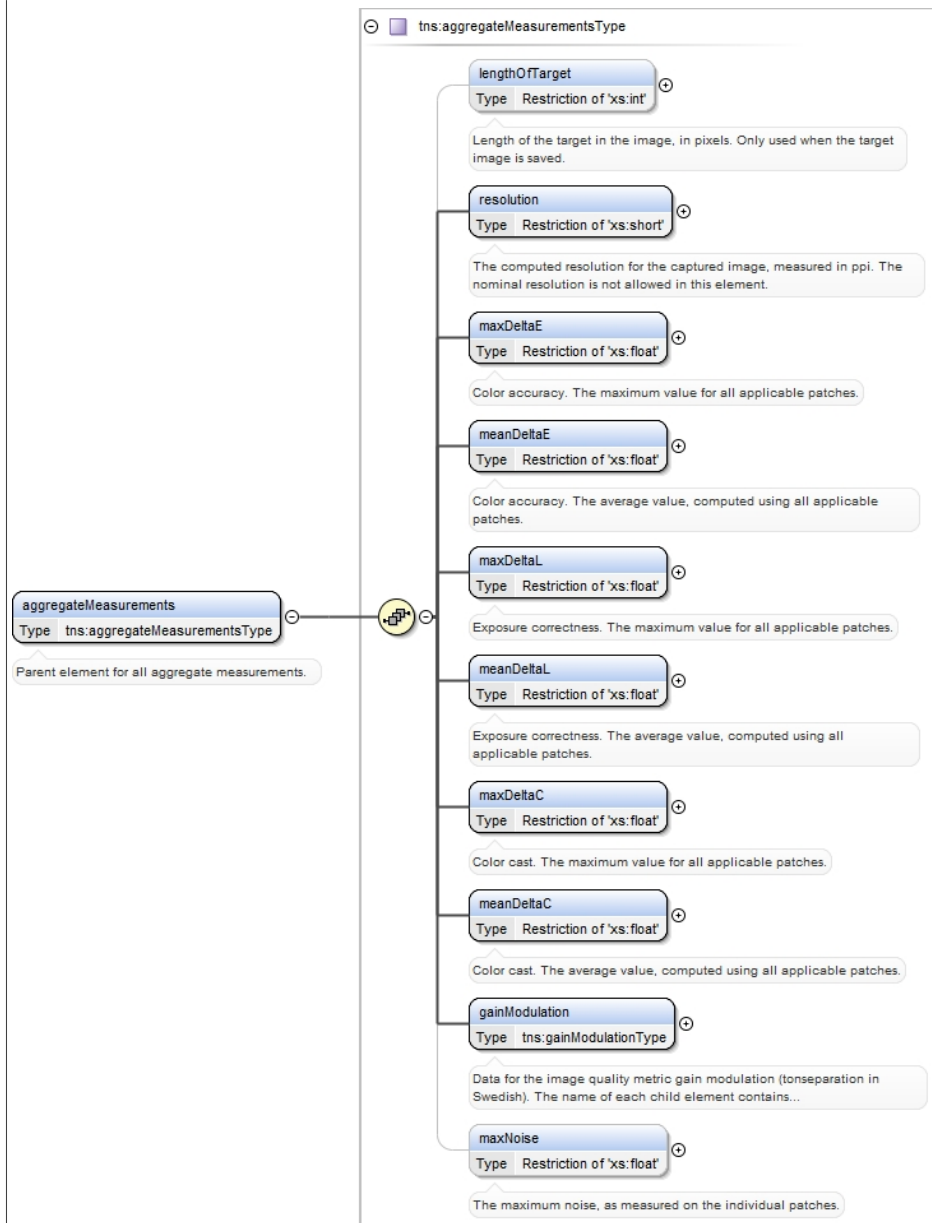
Element tns:patchType / tns:noise

Namespace	kb.se/ns/image_capture_performance				
Annotations	Measured as the standard deviation in the Y-channel. This is currently the only RGB-based quality metric. The Y-channel is computed as $Y=(0,299*R + 0,587*G + 0,114*B)$.				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Facets	<table> <tr> <td>minInclusive</td><td>0</td></tr> </table>	minInclusive	0		
minInclusive	0				
Source	<pre> <xs:element name="noise" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Measured as the standard deviation in the Y-channel. This is currently the only RGB-based quality metric. The Y-channel is computed as Y=(0,299*R + 0,587*G + 0,114*B).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:imageDataType / tns:aggregateMeasurements

Namespace	kb.se/ns/image_capture_performance
Annotations	Parent element for all aggregate measurements.

Diagram



Type	tns:aggregateMeasurementsType
Properties	content: complex
Model	tns:lengthOfTarget{0,1} , tns:resolution , tns:maxDeltaE , tns:meanDeltaE , tns:maxDeltaL , tns:meanDeltaL , tns:maxDeltaC , tns:meanDeltaC , tns:gainModulation , tns:maxNoise{0,1}
Children	tns:gainModulation, tns:lengthOfTarget, tns:maxDeltaC, tns:maxDeltaE, tns:maxDeltaL, tns:maxNoise, tns:meanDeltaC, tns:meanDeltaE, tns:meanDeltaL, tns:resolution
Instance	<pre> <tns:aggregateMeasurements xmlns:tns="kb.se/ns/image_capture_performance"> <tns:lengthOfTarget>{0,1}</tns:lengthOfTarget> <tns:resolution>{1,1}</tns:resolution> <tns:maxDeltaE>{1,1}</tns:maxDeltaE> <tns:meanDeltaE>{1,1}</tns:meanDeltaE> <tns:maxDeltaL>{1,1}</tns:maxDeltaL> <tns:meanDeltaL>{1,1}</tns:meanDeltaL> <tns:maxDeltaC>{1,1}</tns:maxDeltaC> <tns:meanDeltaC>{1,1}</tns:meanDeltaC> <tns:gainModulation>{1,1}</tns:gainModulation> <tns:maxNoise>{0,1}</tns:maxNoise> </tns:aggregateMeasurements> </pre>
Source	<pre> <xs:element type="tns:aggregateMeasurementsType" name="aggregateMeasurements"> <xs:annotation> <xs:documentation xml:lang="eng">Parent element for all aggregate measurements.</xs:documentation> </xs:annotation> </pre>

</xs:element>

Element `tns:aggregateMeasurementsType / tns:lengthOfTarget`

Namespace	kb.se/ns/image_capture_performance				
Annotations	Length of the target in the image, in pixels. Only used when the target image is saved.				
Diagram					
Type	restriction of xs:int				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Facets	<table> <tr> <td>minInclusive</td><td>0</td></tr> </table>	minInclusive	0		
minInclusive	0				
Source	<pre><xs:element name="lengthOfTarget" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Length of the target in the image, in pixels. Only used when the target image is saved.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:int"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>				

Element `tns:aggregateMeasurementsType / tns:resolution`

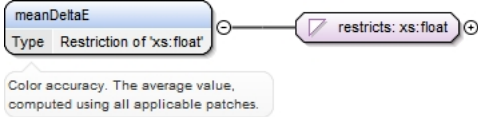
Namespace	kb.se/ns/image_capture_performance		
Annotations	The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element.		
Diagram			
Type	restriction of xs:short		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Facets	<table> <tr> <td>minInclusive</td><td>0</td></tr> </table>	minInclusive	0
minInclusive	0		
Source	<pre><xs:element name="resolution"> <xs:annotation> <xs:documentation xml:lang="eng">The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element `tns:aggregateMeasurementsType / tns:maxDeltaE`

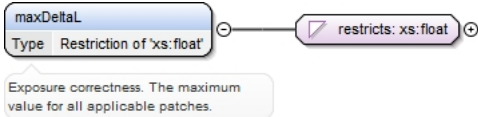
Namespace	kb.se/ns/image_capture_performance
Annotations	Color accuracy. The maximum value for all applicable patches.
Diagram	

Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	1
Facets	maxInclusive	300
	minInclusive	0
Source	<pre> <xs:element name="maxDeltaE" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Color accuracy. The maximum value for all applicable patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="300"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>	

Element `tns:aggregateMeasurementsType` / `tns:meanDeltaE`

Namespace	kb.se/ns/image_capture_performance	
Annotations	Color accuracy. The average value, computed using all applicable patches.	
Diagram		
Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	1
Facets	maxInclusive	300
	minInclusive	0
Source	<pre> <xs:element name="meanDeltaE" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Color accuracy. The average value, computed using all applicable patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="300"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>	

Element `tns:aggregateMeasurementsType` / `tns:maxDeltaL`

Namespace	kb.se/ns/image_capture_performance	
Annotations	Exposure correctness. The maximum value for all applicable patches.	
Diagram		
Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	1
Facets	maxInclusive	100
	minInclusive	0

Source	<pre> <xs:element name="maxDeltaL" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Exposure correctness. The maximum value for all applicable patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>
--------	---

Element tns:aggregateMeasurementsType / tns:meanDeltaL

Namespace	kb.se/ns/image_capture_performance				
Annotations	Exposure correctness. The average value, computed using all applicable patches.				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>100</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	100	minInclusive	0
maxInclusive	100				
minInclusive	0				
Source	<pre> <xs:element name="meanDeltaL" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Exposure correctness. The average value, computed using all applicable patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:aggregateMeasurementsType / tns:maxDeltaC

Namespace	kb.se/ns/image_capture_performance				
Annotations	Color cast. The maximum value for all applicable patches.				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>283</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	283	minInclusive	0
maxInclusive	283				
minInclusive	0				
Source	<pre> <xs:element name="maxDeltaC" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Color cast. The maximum value for all applicable patches.</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="283"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

```

</xs:restriction>
</xs:simpleType>
</xs:element>

```

Element `tns:aggregateMeasurementsType` / `tns:meanDeltaC`

Namespace	kb.se/ns/image_capture_performance
Annotations	Color cast. The average value, computed using all applicable patches.
Diagram	
Type	restriction of xs:float
Properties	content: simple minOccurs: 1
Facets	maxInclusive 283 minInclusive 0
Source	<pre> <xs:element name="meanDeltaC" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Color cast. The average value, computed using all applicable patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="283"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:aggregateMeasurementsType` / `tns:gainModulation`

Namespace	kb.se/ns/image_capture_performance
Annotations	Data for the image quality metric gain modulation (tonseparation in Swedish). The name of each child element contains the approximate luminosity value of the two patches used for the measurement. Not all elements has to be used. Generally, measurements for one small intervall and one large intervall should be performed.
Diagram	
Type	tns:gainModulationType
Properties	content: complex
Model	((tns:L95-L80 , tns:L95-L90{0,1}) (tns:L95-L90)) , ((tns:L85-L20 , tns:L85-L10{0,1}) (tns:L85-L10))

Children	tns:L85-L10, tns:L85-L20, tns:L95-L80, tns:L95-L90
Instance	<pre><tns:gainModulation xmlns:tns="kb.se/ns/image_capture_performance"> <tns:L95-L80>{1,1}</tns:L95-L80> <tns:L95-L90>{0,1}</tns:L95-L90> <tns:L95-L90>{1,1}</tns:L95-L90> <tns:L85-L20>{1,1}</tns:L85-L20> <tns:L85-L10>{0,1}</tns:L85-L10> <tns:L85-L10>{1,1}</tns:L85-L10> </tns:gainModulation></pre>
Source	<pre><xs:element type="tns:gainModulationType" name="gainModulation"> <xs:annotation> <xs:documentation xml:lang="eng">Data for the image quality metric gain modulation (tonseparation in Swedish). The name of each child element contains the approximate luminosity value of the two patches used for the measurement. Not all elements has to be used. Generally, measurements for one small intervall and one large intervall should be performed.</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:gainModulationType / tns:L95-L80

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:L95L80Type
Properties	content: simple
Facets	minInclusive 0
Source	<pre><xs:element name="L95-L80" type="tns:L95L80Type"/></pre>

Element tns:gainModulationType / tns:L95-L90

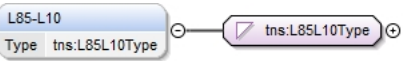
Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:L95L90Type
Properties	content: simple minOccurs: 0
Facets	minInclusive 0
Source	<pre><xs:element name="L95-L90" minOccurs="0" type="tns:L95L90Type"/></pre>

Element tns:gainModulationType / tns:L85-L20

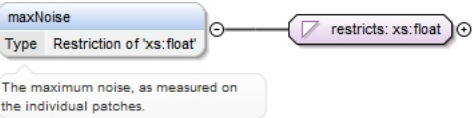
Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:L85L20Type
Properties	content: simple
Facets	minInclusive 0
Source	<pre><xs:element name="L85-L20" type="tns:L85L20Type"/></pre>

Element tns:gainModulationType / tns:L85-L10

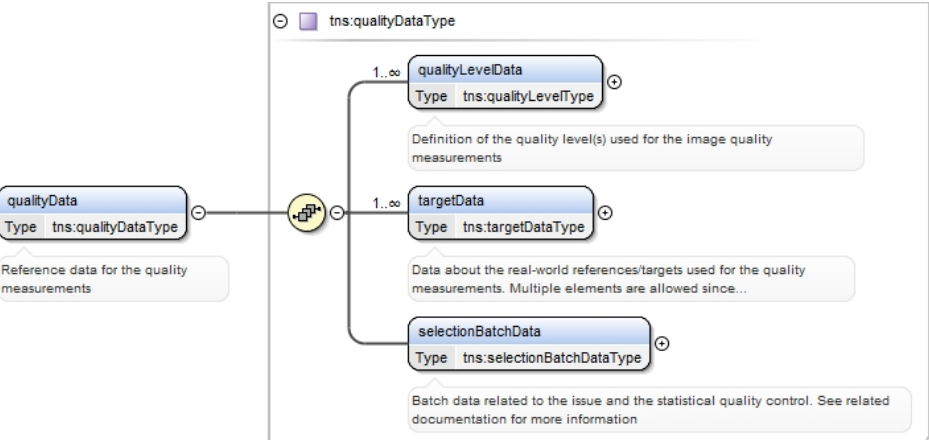
Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram	 The diagram shows a box labeled 'L85-L10' with 'Type tns:L85L10Type' below it. A line connects this box to a purple box labeled 'tns:L85L10Type' with a restriction icon.
Type	tns:L85L10Type
Properties	content: simple minOccurs: 0 maxOccurs: 1
Facets	minInclusive 0
Source	<code><xs:element name="L85-L10" maxOccurs="1" minOccurs="0" type="tns:L85L10Type"/></code>

Element tns:aggregateMeasurementsType / tns:maxNoise

Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum noise, as measured on the individual patches.
Diagram	 The diagram shows a box labeled 'maxNoise' with 'Type Restriction of xs:float' below it. A line connects this box to a purple box labeled 'restricts: xs:float' with a restriction icon. A callout box points to the 'maxNoise' box with the text: 'The maximum noise, as measured on the individual patches.'
Type	restriction of xs:float
Properties	content: simple minOccurs: 0
Facets	minInclusive 0
Source	<pre><xs:element name="maxNoise" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum noise, as measured on the individual patches.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element tns:imageQualityControlDataType / tns:qualityData

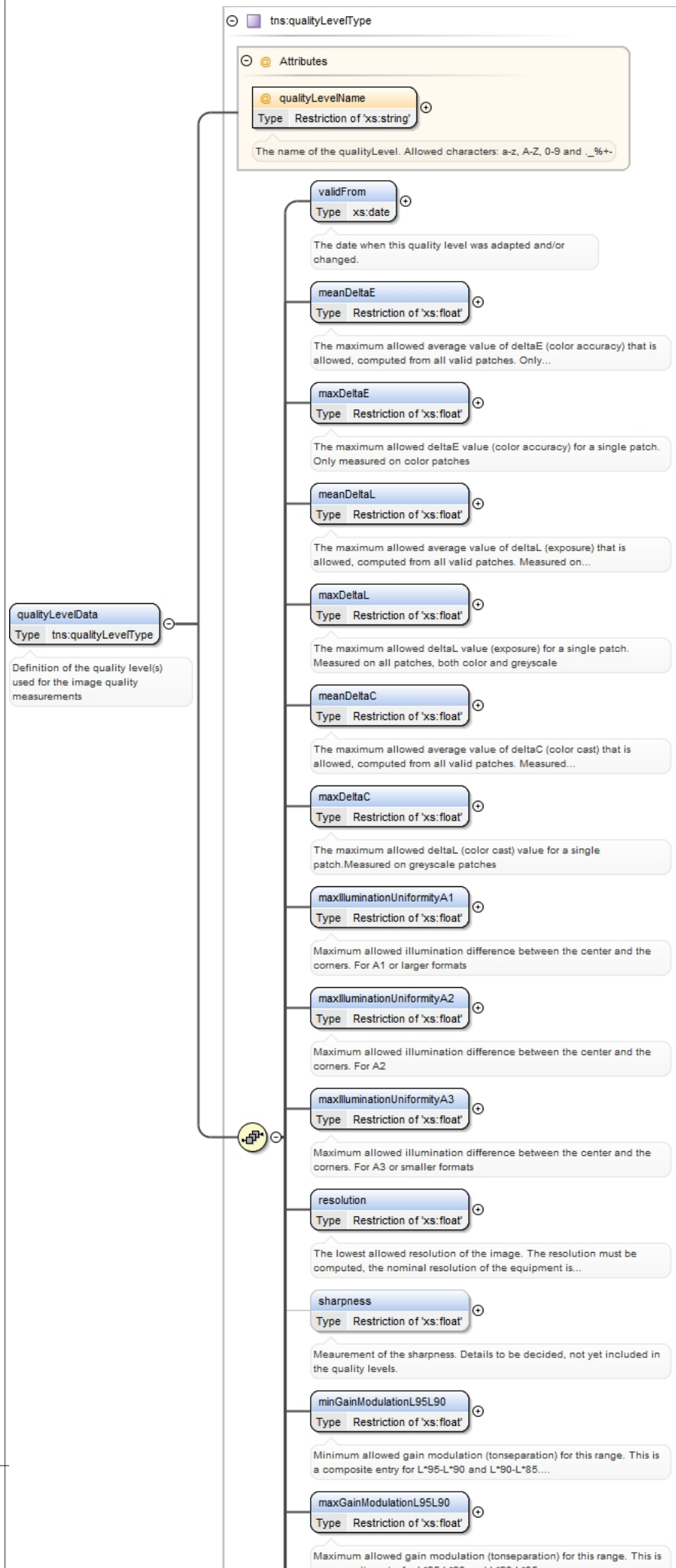
Namespace	kb.se/ns/image_capture_performance
Annotations	Reference data for the quality measurements
Diagram	 The diagram shows a box labeled 'qualityData' with 'Type tns:qualityDataType' below it. A line connects this box to a yellow circle with a plus sign. From this circle, three lines branch out to three boxes: 'qualityLevelData' (Type tns:qualityLevelType), 'targetData' (Type tns:targetDataType), and 'selectionBatchData' (Type tns:selectionBatchDataType). Each box has a callout box with descriptive text. The 'qualityLevelData' callout says 'Definition of the quality level(s) used for the image quality measurements'. The 'targetData' callout says 'Data about the real-world references/targets used for the quality measurements. Multiple elements are allowed since...'. The 'selectionBatchData' callout says 'Batch data related to the issue and the statistical quality control. See related documentation for more information'. The 'qualityData' box also has a callout box saying 'Reference data for the quality measurements'.
Type	tns:qualityDataType
Properties	content: complex
Model	tns:qualityLevelData+, tns:targetData+, tns:selectionBatchData

Children	tns:qualityLevelData, tns:selectionBatchData, tns:targetData
Instance	<pre><tns:qualityData xmlns:tns="kb.se/ns/image_capture_performance"> <tns:qualityLevelData qualityLevelName="">{1,unbounded}</tns:qualityLevelData> <tns:targetData dateOfMeasurement="" nameOfTarget="">{1,unbounded}</tns:targetData> <tns:selectionBatchData selectionBatchID="">{1,1}</tns:selectionBatchData> </tns:qualityData></pre>
Source	<pre><xs:element type="tns:qualityDataType" name="qualityData"> <xs:annotation> <xs:documentation xml:lang="eng">Reference data for the quality measurements</xs:documentation> </xs:annotation> </xs:element></pre>

Element tns:qualityDataType / tns:qualityLevelData

Namespace	kb.se/ns/image_capture_performance
Annotations	Definition of the quality level(s) used for the image quality measurements

Diagram



Type	tns:qualityLevelType			
Properties	content:		complex	
	maxOccurs:		unbounded	
Model	tns:validFrom , tns:meanDeltaE , tns:maxDeltaE , tns:meanDeltaL , tns:maxDeltaL , tns:meanDeltaC , tns:maxDeltaC , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:resolution , tns:sharpness{0,1} , tns:minGainModulationL95L90 , tns:maxGainModulationL95L90 , tns:minGainModulationL95L80 , tns:maxGainModulationL95L80 , tns:minGainModulationL85L20 , tns:maxGainModulationL85L20 , tns:minGainModulationL85L10 , tns:maxGainModulationL85L10			
Children	tns:maxDeltaC , tns:maxDeltaE , tns:maxDeltaL , tns:maxGainModulationL85L10 , tns:maxGainModulationL85L20 , tns:maxGainModulationL95L80 , tns:maxGainModulationL95L90 , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:meanDeltaC , tns:meanDeltaE , tns:meanDeltaL , tns:minGainModulationL85L10 , tns:minGainModulationL85L20 , tns:minGainModulationL95L80 , tns:minGainModulationL95L90 , tns:resolution , tns:sharpness , tns:validFrom			
Instance	<pre><tns:qualityLevelData qualityLevelName="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:validFrom>{1,1}</tns:validFrom> <tns:meanDeltaE>{1,1}</tns:meanDeltaE> <tns:maxDeltaE>{1,1}</tns:maxDeltaE> <tns:meanDeltaL>{1,1}</tns:meanDeltaL> <tns:maxDeltaL>{1,1}</tns:maxDeltaL> <tns:meanDeltaC>{1,1}</tns:meanDeltaC> <tns:maxDeltaC>{1,1}</tns:maxDeltaC> <tns:maxIlluminationUniformityA1>{1,1}</tns:maxIlluminationUniformityA1> <tns:maxIlluminationUniformityA2>{1,1}</tns:maxIlluminationUniformityA2> <tns:maxIlluminationUniformityA3>{1,1}</tns:maxIlluminationUniformityA3> <tns:resolution>{1,1}</tns:resolution> <tns:sharpness>{0,1}</tns:sharpness> <tns:minGainModulationL95L90>{1,1}</tns:minGainModulationL95L90> <tns:maxGainModulationL95L90>{1,1}</tns:maxGainModulationL95L90> <tns:minGainModulationL95L80>{1,1}</tns:minGainModulationL95L80> <tns:maxGainModulationL95L80>{1,1}</tns:maxGainModulationL95L80> <tns:minGainModulationL85L20>{1,1}</tns:minGainModulationL85L20> <tns:maxGainModulationL85L20>{1,1}</tns:maxGainModulationL85L20> <tns:minGainModulationL85L10>{1,1}</tns:minGainModulationL85L10> <tns:maxGainModulationL85L10>{1,1}</tns:maxGainModulationL85L10> </tns:qualityLevelData></pre>			
Attributes	QName	Type	Use	
	qualityLevelName	restriction of xs:string	required	
		The name of the qualityLevel. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<pre><xs:element type="tns:qualityLevelType" name="qualityLevelData" maxOccurs="unbounded"> <xs:annotation> <xs:documentation xml:lang="eng">Definition of the quality level(s) used for the image quality measurements</xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:qualityLevelType / tns:validFrom

Namespace	kb.se/ns/image_capture_performance		
Annotations	The date when this quality level was adapted and/or changed.		
Diagram	The diagram illustrates the relationship between the <code>validFrom</code> element and the <code>xs:date</code> primitive type. The <code>validFrom</code> element is shown as a box with a circle, connected to the <code>xs:date</code> primitive type box. A callout box explains that the <code>xs:date</code> type represents a calendar date.		
Type	xs:date		
Properties	content:	simple	
Source	<pre><xs:element type="xs:date" name="validFrom"> <xs:annotation> <xs:documentation xml:lang="eng">The date when this quality level was adapted and/or changed.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element tns:qualityLevelType / tns:meanDeltaE

Namespace	kb.se/ns/image_capture_performance			
-----------	------------------------------------	--	--	--

Annotations	The maximum allowed average value of deltaE (color accuracy) that is allowed, computed from all valid patches. Only measured on color patches
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 347 minInclusive 0
Source	<pre> <xs:element name="meanDeltaE"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed average value of deltaE (color accuracy) that is allowed, computed from all valid patches. Only measured on color patches</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="347"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:maxDeltaE

Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed deltaE value (color accuracy) for a single patch. Only measured on color patches
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 347 minInclusive 0
Source	<pre> <xs:element name="maxDeltaE"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed deltaE value (color accuracy) for a single patch. Only measured on color patches</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="347"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:meanDeltaL

Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed average value of deltaL (exposure) that is allowed, computed from all valid patches. Measured on all patches, both color and greyscale
Diagram	

Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 200
	minInclusive 0
Source	<pre> <xs:element name="meanDeltaL"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed average value of deltaL (exposure) that is allowed, computed from all valid patches. Measured on all patches, both color and greyscale</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:maxDeltaL

Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed deltaL value (exposure) for a single patch. Measured on all patches, both color and greyscale
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 200
	minInclusive 0
Source	<pre> <xs:element name="maxDeltaL"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed deltaL value (exposure) for a single patch. Measured on all patches, both color and greyscale</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:meanDeltaC

Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed average value of deltaC (color cast) that is allowed, computed from all valid patches. Measured only on greyscale patches
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 283
	minInclusive 0
Source	<pre> <xs:element name="meanDeltaC"> </pre>

```

<xs:annotation>
  <xs:documentation xml:lang="eng">The maximum allowed average value of deltaC (color cast) that
  is allowed, computed from all valid patches. Measured only on greyscale patches</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="283"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>

```

Element tns:qualityLevelType / tns:maxDeltaC

Namespace	kb.se/ns/image_capture_performance				
Annotations	The maximum allowed deltaL (color cast) value for a single patch.Measured on greyscale patches				
Diagram					
Type	restriction of xs:float				
Properties	content: simple				
Facets	<table> <tr> <td>maxInclusive</td><td>283</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	283	minInclusive	0
maxInclusive	283				
minInclusive	0				
Source	<pre> <xs:element name="maxDeltaC"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed deltaL (color cast) value for a single patch.Measured on greyscale patches</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="283"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element tns:qualityLevelType / tns:maxIlluminationUniformityA1

Namespace	kb.se/ns/image_capture_performance				
Annotations	Maximum allowed illumination difference between the center and the corners. For A1 or larger formats				
Diagram					
Type	restriction of xs:float				
Properties	content: simple				
Facets	<table> <tr> <td>maxInclusive</td><td>200</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	200	minInclusive	0
maxInclusive	200				
minInclusive	0				
Source	<pre> <xs:element name="maxIlluminationUniformityA1"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center and the corners. For A1 or larger formats</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element `tns:qualityLevelType` / `tns:maxIlluminationUniformityA2`

Namespace	kb.se/ns/image_capture_performance				
Annotations	Maximum allowed illumination difference between the center and the corners. For A2				
Diagram					
Type	restriction of xs:float				
Properties	content: simple				
Facets	<table> <tr> <td>maxInclusive</td><td>200</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	200	minInclusive	0
maxInclusive	200				
minInclusive	0				
Source	<pre> <xs:element name="maxIlluminationUniformityA2"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center and the corners. For A2</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element `tns:qualityLevelType` / `tns:maxIlluminationUniformityA3`

Namespace	kb.se/ns/image_capture_performance				
Annotations	Maximum allowed illumination difference between the center and the corners. For A3 or smaller formats				
Diagram					
Type	restriction of xs:float				
Properties	content: simple				
Facets	<table> <tr> <td>maxInclusive</td><td>200</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	200	minInclusive	0
maxInclusive	200				
minInclusive	0				
Source	<pre> <xs:element name="maxIlluminationUniformityA3"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center and the corners. For A3 or smaller formats</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>				

Element `tns:qualityLevelType` / `tns:resolution`

Namespace	kb.se/ns/image_capture_performance
Annotations	The lowest allowed resolution of the image. The resolution must be computed, the nominal resolution of the equipment is not allowed.

Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="resolution"> <xs:annotation> <xs:documentation xml:lang="eng">The lowest allowed resolution of the image. The resolution must be computed, the nominal resolution of the equipment is not allowed.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:sharpness

Namespace	kb.se/ns/image_capture_performance
Annotations	Meaurement of the sharpness. Details to be decided, not yet included in the quality levels.
Diagram	
Type	restriction of xs:float
Properties	content: simple minOccurs: 0
Facets	minInclusive 0
Source	<pre> <xs:element minOccurs="0" name="sharpness"> <xs:annotation> <xs:documentation xml:lang="eng">Meaurement of the sharpness. Details to be decided, not yet included in the quality levels.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:minGainModulationL95L90

Namespace	kb.se/ns/image_capture_performance
Annotations	Minimum allowed gain modulation (tonseparation) for this range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0

Source	<pre> <xs:element name="minGainModulationL95L90"> <xs:annotation> <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>
--------	---

Element tns:qualityLevelType / tns:maxGainModulationL95L90

Namespace	kb.se/ns/image_capture_performance
Annotations	Maximum allowed gain modulation (tonseparation) for this range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="maxGainModulationL95L90"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:minGainModulationL95L80

Namespace	kb.se/ns/image_capture_performance
Annotations	Minimum allowed gain modulation (tonseparation) for this range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intended to be used at a measurement time.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="minGainModulationL95L80"> <xs:annotation> <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intended to be used at a measurement time.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:maxGainModulationL95L80

Namespace	kb.se/ns/image_capture_performance
Annotations	Maximum allowed gain modulation (tonseparation) for this range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intened to be used at a measurement time.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="maxGainModulationL95L80"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intened to be used at a measurement time.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:minGainModulationL85L20

Namespace	kb.se/ns/image_capture_performance
Annotations	Minimum allowed gain modulation (tonseparation) for this range.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="minGainModulationL85L20"> <xs:annotation> <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this range.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:qualityLevelType / tns:maxGainModulationL85L20

Namespace	kb.se/ns/image_capture_performance
Annotations	Maximum allowed gain modulation (tonseparation) for this range.
Diagram	
Type	restriction of xs:float
Properties	content: simple

Facets	minInclusive 0
Source	<pre> <xs:element name="maxGainModulationL85L20"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this range.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:qualityLevelType` / `tns:minGainModulationL85L10`

Namespace	kb.se/ns/image_capture_performance
Annotations	Minimum allowed gain modulation (tonseparation) for this range.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="minGainModulationL85L10"> <xs:annotation> <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this range.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:qualityLevelType` / `tns:maxGainModulationL85L10`

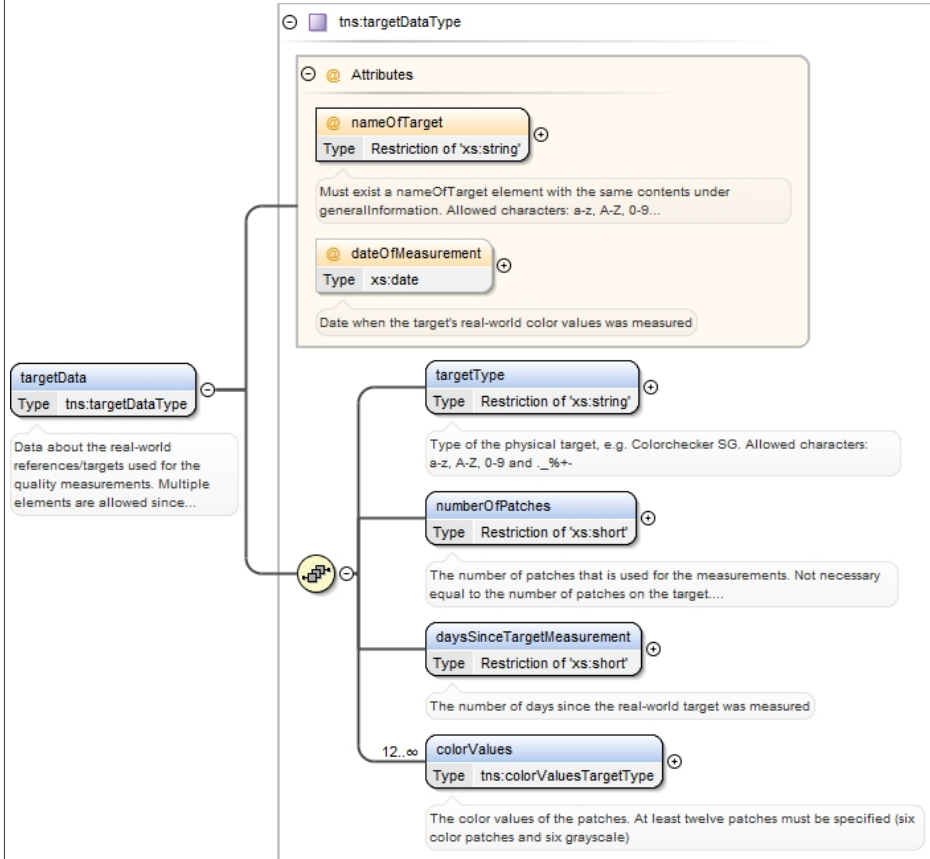
Namespace	kb.se/ns/image_capture_performance
Annotations	Maximum allowed gain modulation (tonseparation) for this range.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="maxGainModulationL85L10"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this range.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:qualityDataType` / `tns:targetData`

Namespace	kb.se/ns/image_capture_performance
Annotations	Data about the real-world references/targets used for the quality measurements. Multiple elements are allowed since multiple targets might have

been used for the quality measurements. Always store for reference, although some data is only useful when we also store the images that contain the targets.

Diagram



Type `tns:targetDataType`

Properties

content:	complex
minOccurs:	1
maxOccurs:	unbounded

Model `tns:targetType` , `tns:numberOfPatches` , `tns:daysSinceTargetMeasurement` , `tns:colorValues`{12,unbounded}

Children `tns:colorValues`, `tns:daysSinceTargetMeasurement`, `tns:numberOfPatches`, `tns:targetType`

Instance

```
<tns:targetData dateOfMeasurement="" nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance">
  <tns:targetType>{1,1}</tns:targetType>
  <tns:numberOfPatches>{1,1}</tns:numberOfPatches>
  <tns:daysSinceTargetMeasurement>{1,1}</tns:daysSinceTargetMeasurement>
  <tns:colorValues patchID="">{12,unbounded}</tns:colorValues>
</tns:targetData>
```

Attributes

QName	Type	Use	
dateOfMeasurement	xs:date	optional	
	Date when the target's real-world color values was measured		
nameOfTarget	restriction of xs:string	required	
	Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-		

Source

```
<xs:element name="targetData" type="tns:targetDataType" maxOccurs="unbounded" minOccurs="1">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Data about the real-world references/targets used for the
    quality measurements. Multiple elements are allowed since multiple targets might have been used
    for the quality measurements. Always store for reference, although some data is only useful when we
    also store the images that contain the targets.</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element `tns:targetDataType` / `tns:targetType`

Namespace	kb.se/ns/image_capture_performance
Annotations	Type of the physical target, e.g. Colorchecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Diagram	
Type	restriction of xs:string
Properties	content: simple
Facets	pattern ([a-zA-Z0-9._%+-]+) ()
Source	<pre> <xs:element name="targetType"> <xs:annotation> <xs:documentation xml:lang="eng">Type of the physical target, e.g. Colorchecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+" /> <xs:pattern value="" /> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:targetDataType` / `tns:numberOfPatches`

Namespace	kb.se/ns/image_capture_performance
Annotations	The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target. Set to twelve or higher (for Digidaily), six color patches and six grayscale patches
Diagram	
Type	restriction of xs:short
Properties	content: simple
Facets	minInclusive 12
Source	<pre> <xs:element name="numberOfPatches"> <xs:annotation> <xs:documentation xml:lang="eng">The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target. Set to twelve or higher (for Digidaily), six color patches and six grayscale patches</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="12" /> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `tns:targetDataType` / `tns:daysSinceTargetMeasurement`

Namespace	kb.se/ns/image_capture_performance
Annotations	The number of days since the real-world target was measured
Diagram	

Type	restriction of xs:short
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="daysSinceTargetMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">The number of days since the real-world target was measured</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:targetDataType / tns:colorValues

Namespace	kb.se/ns/image_capture_performance		
Annotations	The color values of the patches. At least twelve patches must be specified (six color patches and six grayscale)		
Diagram	The diagram illustrates the structure of the <code>tns:colorValuesTargetType</code> complex type. It consists of a root element <code>tns:colorValuesTargetType</code> which contains a sequence of three child elements: <code>L</code>, <code>A</code>, and <code>B</code>. Each child element is of type <code>Restriction of 'xs:float'</code> and has a value range of -100 to 100. Additionally, the root element has an attribute <code>patchID</code> of type <code>Restriction of 'xs:short'</code>, which is required and has a value range of 1 or higher. A separate box on the left shows the <code>colorValues</code> type, which is a restriction of <code>tns:colorValuesTargetType</code> and has a description: "The color values of the patches. At least twelve patches must be specified (six color patches and six grayscale)".		
Type	tns:colorValuesTargetType		
Properties	content:	complex	
	minOccurs:	12	
	maxOccurs:	unbounded	
Model	tns:L , tns:A , tns:B		
Children	tns:A, tns:B, tns:L		
Instance	<pre><tns:colorValues patchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:L>{1,1}</tns:L> <tns:A>{1,1}</tns:A> <tns:B>{1,1}</tns:B> </tns:colorValues></pre>		
Attributes	QName	Type	Use
	patchID	restriction of xs:short	required
		ID of the patch. Corresponds to the patchID-attribute under patchMeasurements. Allowed values: 1 or higher	
Source	<pre><xs:element maxOccurs="unbounded" minOccurs="12" name="colorValues" type="tns:colorValuesTargetType"> <xs:annotation> <xs:documentation xml:lang="eng">The color values of the patches. At least twelve patches must be specified (six color patches and six grayscale)</xs:documentation> </xs:annotation> </xs:element></pre>		

Element tns:colorValuesTargetType / tns:L

Namespace	kb.se/ns/image_capture_performance
Annotations	Allowed values -100 to 100.
Diagram	
Type	restriction of xs:float
Properties	content: simple minOccurs: 1
Facets	maxInclusive 100 minInclusive -100
Source	<pre> <xs:element name="L" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:colorValuesTargetType / tns:A

Namespace	kb.se/ns/image_capture_performance
Annotations	Allowed values -100 to 100.
Diagram	
Type	restriction of xs:float
Properties	content: simple minOccurs: 1
Facets	maxInclusive 100 minInclusive -100
Source	<pre> <xs:element name="A" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:colorValuesTargetType / tns:B

Namespace	kb.se/ns/image_capture_performance
Annotations	Allowed values -100 to 100.
Diagram	
Type	restriction of xs:float
Properties	content: simple

	minOccurs:	1
Facets	maxInclusive	100
	minInclusive	-100
Source	<pre> <xs:element name="B" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>	

Element `tns:qualityDataType` / `tns:selectionBatchData`

Namespace	kb.se/ns/image_capture_performance												
Annotations	Batch data related to the issue and the statistical quality control. See related documentation for more information												
Diagram													
Type	tns:selectionBatchDataType												
Properties	content:	complex											
Model	tns:batchID												
Children	tns:batchID												
Instance	<pre><tns:selectionBatchData selectionBatchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:batchID>{1,1}</tns:batchID> </tns:selectionBatchData></pre>												
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>selectionBatchID</td><td>xs:int</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The ID for the selection batch that contains the batchID</td></tr></table>	QName	Type	Use		selectionBatchID	xs:int	optional			The ID for the selection batch that contains the batchID		
QName	Type	Use											
selectionBatchID	xs:int	optional											
	The ID for the selection batch that contains the batchID												
Source	<pre><xs:element name="selectionBatchData" type="tns:selectionBatchDataType"> <xs:annotation> <xs:documentation xml:lang="eng">Batch data related to the issue and the statistical quality control. See related documentation for more information</xs:documentation> </xs:annotation> </xs:element></pre>												

Element `tns:selectionBatchDataType` / `tns:batchID`

Namespace	kb.se/ns/image_capture_performance		
Annotations	The id for the batch that the issue belongs to. OBS. Vilken datatyp ska det vara?		
Diagram			

Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="batchID" type="xs:string"> <xs:annotation> <xs:documentation xml:lang="eng">The id for the batch that the issue belongs to. OBS. Vilken datatyp ska det vara?</xs:documentation> </xs:annotation> </xs:element></pre>

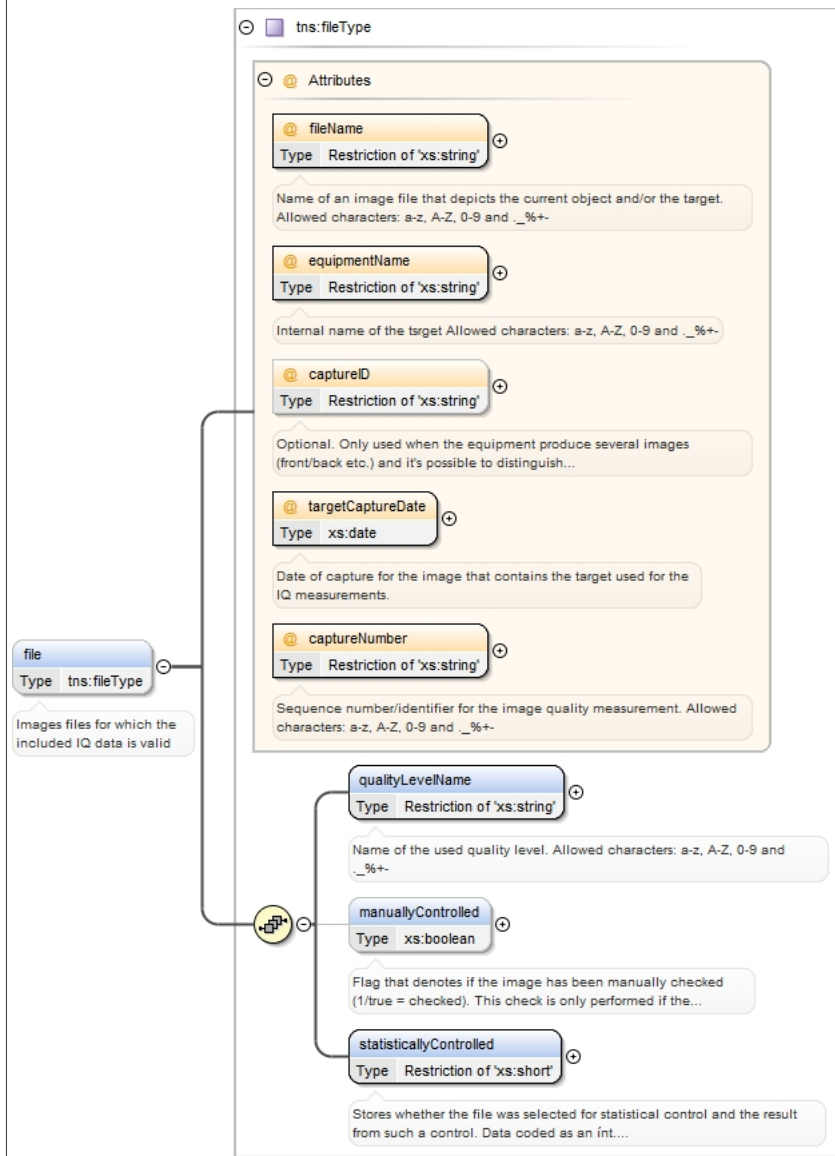
Element `tns:imageQualityControlDataType` / `tns:fileList`

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	tns:fileListType
Properties	content: complex
Model	tns:file*
Children	tns:file
Instance	<pre><tns:fileList xmlns:tns="kb.se/ns/image_capture_performance"> <tns:file captureID="" captureNumber="" equipmentName="" fileName="" targetCaptureDate="">{0, unbounded}</tns:file> </tns:fileList></pre>
Source	<pre><xs:element type="tns:fileListType" name="fileList"> </xs:element></pre>

Element `tns:fileListType` / `tns:file`

Namespace	kb.se/ns/image_capture_performance
Annotations	Images files for which the included IQ data is valid

Diagram



Type tns:fileType

Properties

content:	complex
minOccurs:	0
maxOccurs:	unbounded

Model tns:qualityLevelName , tns:manuallyControlled{0,1} , tns:statisticallyControlled

Children tns:manuallyControlled, tns:qualityLevelName, tns:statisticallyControlled

Instance

```
<tns:file captureID="" captureNumber="" equipmentName="" fileName="" targetCaptureDate="" xmlns:tns="http://www.kb.se/ns/image_capture_performance">
  <tns:qualityLevelName>{1,1}</tns:qualityLevelName>
  <tns:manuallyControlled>{0,1}</tns:manuallyControlled>
  <tns:statisticallyControlled>{1,1}</tns:statisticallyControlled>
</tns:file>
```

Attributes	QName	Type	Use	
	captureID	restriction of xs:string	optional	
		Optional. Only used when the equipment produce several images (front/back etc.) and it's possible to distinguish between them. Corresponds to the attributes with the same name under captureData Allowed characters: a-z, A-Z, 0-9 and ._%+-		
	captureNumber	restriction of xs:string	required	
		Sequence number/identifier for the image quality		

	QName	Type	Use	
		measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
	equipmentName	restriction of xs:string	required	
		Internal name of the tsrget Allowed characters: a-z, A-Z, 0-9 and ._%+-		
	fileName	restriction of xs:string	required	
		Name of an image file that depicts the current object and/or the target. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
	targetCaptureDate	xs:date	required	
		Date of capture for the image that contains the target used for the IQ measurements.		
Source	<pre><xs:element type="tns:fileType" name="file" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Images files for which the included IQ data is valid</ xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:fileType / tns:qualityLevelName

Namespace	kb.se/ns/image_capture_performance		
Annotations	Name of the used quality level. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Diagram	The diagram illustrates the <code>qualityLevelName</code> element. It is represented as a box labeled <code>qualityLevelName</code> with the text <code>Type Restriction of 'xs:string'</code> below it. A line connects this box to a purple box labeled <code>restricts: xs:string</code>. A callout bubble points to the <code>qualityLevelName</code> box with the text: "Name of the used quality level. Allowed characters: a-z, A-Z, 0-9 and ._%+-".		
Type	restriction of xs:string		
Properties	content:	simple	
Facets	pattern	[a-zA-Z0-9._%+-]+	
Source	<pre><xs:element name="qualityLevelName"> <xs:annotation> <xs:documentation xml:lang="eng">Name of the used quality level. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+" /> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:fileType / tns:manuallyControlled

Namespace	kb.se/ns/image_capture_performance		
Annotations	Flag that denotes if the image has been manually checked (1/true = checked). This check is only performed if the selection batch fails the statistical IQ-control.		
Diagram			
Type	xs:boolean		
Properties	content:	simple	
	minOccurs:	0	
Source	<pre><xs:element minOccurs="0" name="manuallyControlled" type="xs:boolean"> <xs:annotation> <xs:documentation xml:lang="eng">Flag that denotes if the image has been manually checked (1/ true = checked). This check is only performed if the selection batch fails the statistical IQ- control.</xs:documentation></pre>		

```
</xs:annotation>
</xs:element>
```

Element `tns:fileType` / `tns:statisticallyControlled`

Namespace	kb.se/ns/image_capture_performance						
Annotations	Stores whether the file was selected for statistical control and the result from such a control. Data coded as an int. Possible to extend the codes if necessary. -1 = not selected 0 = selected, failed the control 1 = selected, passed the control.						
Diagram							
Type	restriction of xs:short						
Properties	content: simple						
Facets	<table> <tr><td>enumeration</td><td>-1</td></tr> <tr><td>enumeration</td><td>1</td></tr> <tr><td>enumeration</td><td>0</td></tr> </table>	enumeration	-1	enumeration	1	enumeration	0
enumeration	-1						
enumeration	1						
enumeration	0						
Source	<pre><xs:element name="statisticallyControlled"> <xs:annotation> <xs:documentation xml:lang="eng">Stores whether the file was selected for statistical control and the result from such a control. Data coded as an int. Possible to extend the codes if necessary. -1 = not selected 0 = selected, failed the control 1 = selected, passed the control.</ </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:enumeration value="-1"/> <xs:enumeration value="1"/> <xs:enumeration value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>						

Element `tns:manuallyControlledFileType` / `tns:fileName`

Namespace	kb.se/ns/image_capture_performance											
Diagram												
Type	extension of xs:string											
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>unbounded</td></tr></table>				content:	complex	minOccurs:	0	maxOccurs:	unbounded		
content:	complex											
minOccurs:	0											
maxOccurs:	unbounded											
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>result</td><td>xs:boolean</td><td>required</td><td></td></tr></table>	QName	Type	Use		result	xs:boolean	required				
QName	Type	Use										
result	xs:boolean	required										
Source	<pre><xs:element maxOccurs="unbounded" minOccurs="0" name="fileName"> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="result" type="xs:boolean" form="unqualified" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element></pre>											

Complex Type(s)

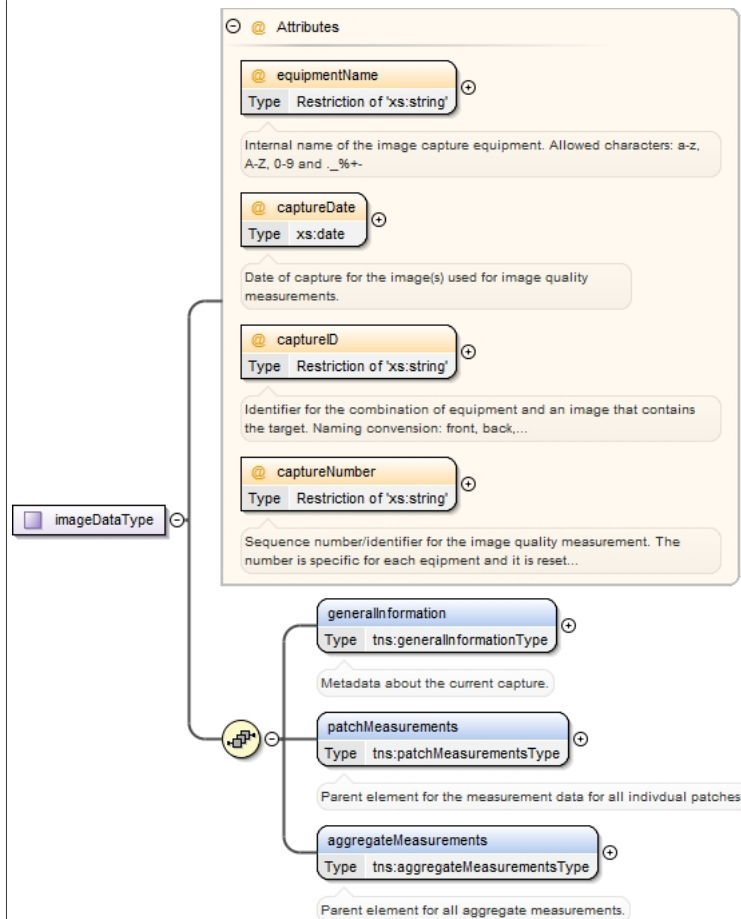
Complex Type `tns:imageQualityControlDataType`

Namespace	kb.se/ns/image_capture_performance															
Diagram																
Used by	Element tns:imageQualityControlData															
Model	tns:imageData+ , tns:qualityData , tns:fileList															
Children	tns:fileList, tns:imageData, tns:qualityData															
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>packageDate</td><td>xs:dateTime</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Date when the package was created. Initially set to optional</td></tr></tbody></table>				QName	Type	Use		packageDate	xs:dateTime	optional			Date when the package was created. Initially set to optional		
QName	Type	Use														
packageDate	xs:dateTime	optional														
	Date when the package was created. Initially set to optional															
Source	<pre><xs:complexType name="imageQuailtyControlDataType"> <xs:sequence> <xs:element type="tns:imageDataType" name="imageData" maxOccurs="unbounded" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">An issue/object can contain images that has been captured with several different equipments. Each instance of imageData contains image quality data for a single image capture equipment. The image quality data is valid during a limited period of time, usually one day. Hence, the same piece of equipment can appear in several instances if it has been used on multiple occations that involves a time span that is longer than the period of validity. Some scanners can simultaneously produce multiple images, generally of both sides of an object (front/back/left/right). For a number of scanners, it's impossible to identify if an image depicts the front or back side of an object. As a result, we cannot tie these images to a specific sensor (or sensors, if the image is stitched).</xs:documentation> </xs:annotation> </xs:element> <xs:element type="tns:qualityDataType" name="qualityData"> <xs:annotation> <xs:documentation xml:lang="eng">Reference data for the quality measurements</ xs:documentation> </xs:annotation> </xs:element> <xs:element type="tns:fileListType" name="fileList"> </xs:element> </xs:sequence> <xs:attribute name="packageDate" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the package was created. Itially set to optional</ xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>															

Complex Type `tns:imageDataType`

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram



Used by Element **tns:imageQualityControlData**/tns:imageData

Model **tns:generalInformation** , **tns:patchMeasurements** , **tns:aggregateMeasurements**

Children **tns:aggregateMeasurements**, **tns:generalInformation**, **tns:patchMeasurements**

Attributes	QName	Type	Use	
	captureDate	xs:date	required	
		Date of capture for the image(s) used for image quality measurements.		
	captureID	restriction of xs:string	required	
		Identifier for the combination of equipment and an image that contains the target. Naming convention: front, back, left, right, middle, single etc. An identical attribute is used for the element captureEquipment. Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	captureNumber	restriction of xs:string	required	
		Sequence number/identifier for the image quality measurement. The number is specific for each equipment and it is reset daily. Included since we might want to perform several IQ measurements during a single day and we must be able to distinguish between them. Datatype is set to string to give the largest possible flexibility for the sequence numbering. Ordinary numbers are preferred. Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	equipmentName	restriction of xs:string	required	
		Internal name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+~		

Source

```

<xs:complexType name="imageDataType">
  <xs:sequence>
    <xs:element type="tns:generalInformationType" name="generalInformation">
      <xs:annotation>

```

```

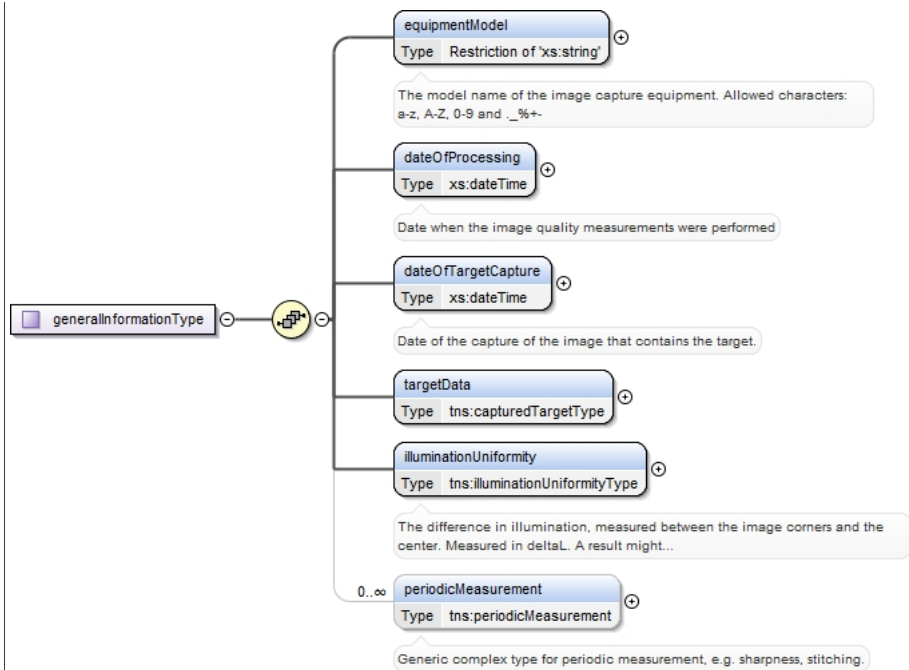
        <xs:documentation xml:lang="eng">Metadata about the current capture.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element type="tns:patchMeasurementsType" name="patchMeasurements">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Parent element for the measurement data for all individual
patches.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element type="tns:aggregateMeasurementsType" name="aggregateMeasurements">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Parent element for all aggregate measurements.</
xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="equipmentName" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Internal name of the image capture equipment. Allowed
characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+-]"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="captureDate" type="xs:date" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Date of capture for the image(s) used for image quality
measurements.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="captureID" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Identifier for the combination of equipment and an image that
contains the target. Naming convension: front, back, left, right, middle, single etc. An identical
attribute is used for the element captureEquipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+-]"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="captureNumber" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Sequence number/identifier for the image quality measurement.
The number is specific for each equipment and it is reset daily. Included since we might want
to perform several IQ measurements during a single day and we must be able to distinguish
between them. Datatype is set to string to give the largest possible flexibility for the
sequence numbering. Ordinary numbers are preferred. Allowed characters: a-z, A-Z, 0-9 and ._%+-</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+-]"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

```

Complex Type tns:generalInformationType

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram



Used by Element `tns:imageDataType/tns:generalInformation`

Model `tns:equipmentModel` , `tns:dateOfProcessing` , `tns:dateOfTargetCapture` , `tns:targetData` , `tns:illuminationUniformity` , `tns:periodicMeasurement`*

Children `tns:dateOfProcessing`, `tns:dateOfTargetCapture`, `tns:equipmentModel`, `tns:illuminationUniformity`, `tns:periodicMeasurement`, `tns:targetData`

```
<xs:complexType name="generalInformationType">
  <xs:sequence>
    <xs:element name="equipmentModel">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The model name of the image capture equipment. Allowed
characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[a-zA-Z0-9._%+-]"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="dateOfProcessing" type="xs:dateTime">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Date when the image quality measurements were performed</
xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element type="xs:dateTime" name="dateOfTargetCapture">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Date of the capture of the image that contains the
target.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="targetData" type="tns:capturedTargetType"/>
    <xs:element name="illuminationUniformity" type="tns:illuminationUniformityType">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The difference in illumination, measured between the image
corners and the center. Measured in deltaL. A result might be included for all possible object
sizes or only for element that corresponds to the size of the current object</xs:documentation>
      </xs:annotation>
      <xs:unique name="uniqueSize">
        <xs:selector xpath="./tns:illuminationUniformityValue"/>
        <xs:field xpath="@size"/>
      </xs:unique>
    </xs:element>
    <xs:element name="periodicMeasurement" type="tns:periodicMeasurement" maxOccurs="unbounded"
minOccurs="0">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Generic complex type for periodic measurement, e.g.
sharpness, stitching.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>
</xs:complexType>
```

Complex Type tns:capturedTargetType

Namespace	kb.se/ns/image_capture_performance			
Diagram				
Used by	Element	tns:generalInformationType/tns:targetData		
Model	tns:targetType , tns:numberOfPatches , tns:measurementArea , tns:targetUpsideDown{0,1} , tns:positionOfTarget{0,1}			
Children	tns:measurementArea, tns:numberOfPatches, tns:positionOfTarget, tns:targetType, tns:targetUpsideDown			
Attributes	QName	Type	Use	
	dateOfPhysicalMeasurement	xs:date	optional	
	Date when the target's real-world color values was measured			
	nameOfTarget	restriction of xs:string	required	
	Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-			
Source	<pre><xs:complexType name="capturedTargetType"> <xs:sequence> <xs:element name="targetType"> <xs:annotation> <xs:documentation xml:lang="eng">The type of target that was employed. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="numberOfPatches" minOccurs="1"> <xs:annotation></pre>			

```

        <xs:documentation xml:lang="eng">The number of patches that is used for the measurements.
        Not necessary equal to the number of patches on the target. Mininum number of patches in Digidaily
        is twelve (six color patches and six grayscale patches)</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:short">
          <xs:minInclusive value="12"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element type="xs:string" name="measurementArea">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The size of the area that was used for image quality
        measurements, in pixels. E.g. 10x10.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element type="xs:boolean" name="targetUpsideDown" minOccurs="0">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Indicates if the target's orientation with regard to
        the contents in the image. 0/false corresponds to the target being upsidedown with regard to the
        main content in the image. 1/true is the opposite. Only used when the target image is stored.</
      </xs:annotation>
    </xs:element>
    <xs:element type="tns:positionOfTargetType" name="positionOfTarget" minOccurs="0">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The target's coordinates in the reference image. Only
        included when we store the image that contains the target.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="nameOfTarget" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Must exist a nameOfTarget element with the same contents
      under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+-]+"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="dateOfPhysicalMeasurement" type="xs:date">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Date when the target's real-world color values was measured</
    </xs:annotation>
  </xs:attribute>
</xs:complexType>

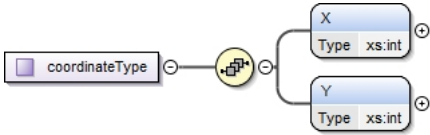
```

Complex Type tns:positionOfTargetType

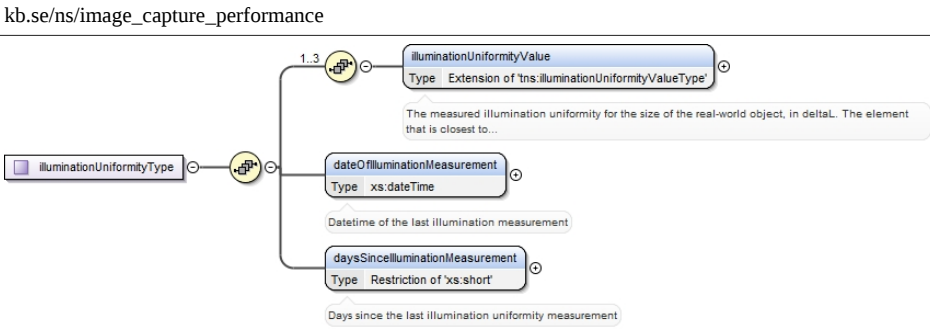
Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:capturedTargetType/tns:positionOfTarget
Model	tns:corner{4,4}
Children	tns:corner
Source	<pre> <xs:complexType name="positionOfTargetType"> <xs:sequence> <xs:element type="tns:coordinateType" name="corner" maxOccurs="4" minOccurs="4"> <xs:annotation> <xs:documentation xml:lang="eng">Coordinates for one corner of the target. Assumes a rectangular target. Only used when the target image is stored.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type tns:coordinateType

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram	
Used by	Elements tns:patchType/tns:center, tns:positionOfTargetType/tns:corner
Model	tns:X , tns:Y
Children	tns:X, tns:Y
Source	<pre> <xs:complexType name="coordinateType"> <xs:sequence> <xs:element name="X" type="xs:int"/> <xs:element name="Y" type="xs:int"/> </xs:sequence> </xs:complexType> </pre>

Complex Type tns:illuminationUniformityType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:generalInformationType/tns:illuminationUniformity
Model	tns:illuminationUniformityValue , tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:illuminationUniformityValue
Source	<pre> <xs:complexType name="illuminationUniformityType"> <xs:sequence> <xs:sequence minOccurs="1" maxOccurs="3"> <xs:element name="illuminationUniformityValue" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">The measured illumination uniformity for the size of the real-world object, in deltaL. The element that is closest to the real-world size of the object must be created. The other elements are optional.</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="tns:illuminationUniformityValueType"> <xs:attribute name="size" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="A1"/> <xs:enumeration value="A2"/> <xs:enumeration value="A3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> </xs:sequence> <xs:element name="dateOfIlluminationMeasurement" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Datetime of the last illumination measurement</ </xs:documentation> </xs:annotation> </xs:element> <xs:element name="daysSinceIlluminationMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Days since the last illumination uniformity measurement</ </xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

```

        <xs:minInclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type tns:periodicMeasurement

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Used by	Element	tns:generalInformationType/tns:periodicMeasurement	
Model	tns:dateOfMeasurement , tns:daysSinceMeasurement , ((tns:resultString , tns:resultNumeric{0,1}) (tns:resultNumeric))		
Children	tns:dateOfMeasurement, tns:daysSinceMeasurement, tns:resultNumeric, tns:resultString		
Attributes	QName	Type	Use
	measurementType	restriction of xs:string	required
		Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+-	
Source	<pre><xs:complexType name="periodicMeasurement"> <xs:sequence> <xs:element name="dateOfMeasurement" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date of the periodic measurement</xs:documentation> </xs:annotation> </xs:element> <xs:element name="daysSinceMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Number of days since the measurement was performed</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:choice minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">At least one or both of resultString and resultNumeric is needed.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="resultString" type="tns:resultStringType" minOccurs="1"/></pre>		

```

<xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="0"/>
</xs:sequence>
<xs:sequence>
  <xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="1"/>
</xs:sequence>
</xs:choice>
<!--
  <xs:element name="resultNumeric" type="xs:float" minOccurs="1">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Element for storage of a numeric value from the
measurement</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="resultString">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Element for storage of a string that represents the
result of the measurement.
      Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+]+"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
-->
</xs:sequence>
<xs:attribute name="measurementType" use="required">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Type of measurement, e.g. sharpness, stitching etc. Allowed
characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[a-zA-Z0-9._%+]+"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

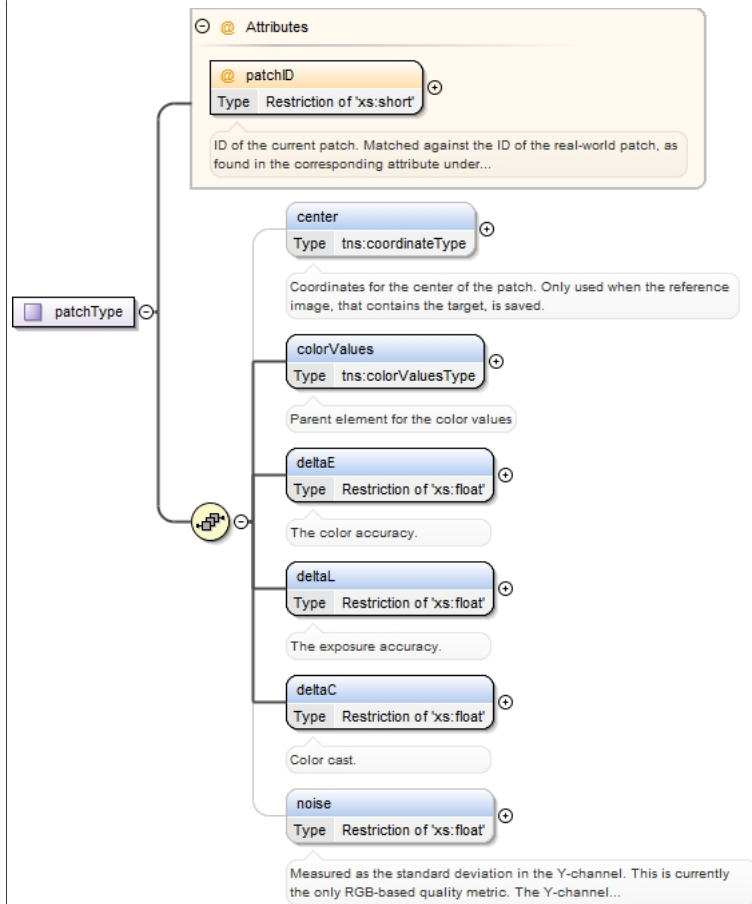
Complex Type tns:patchMeasurementsType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:imageDataType/tns:patchMeasurements
Model	tns:patch{12,unbounded}
Children	tns:patch
Source	<pre> <xs:complexType name="patchMeasurementsType"> <xs:sequence> <xs:element type="tns:patchType" name="patch" maxOccurs="unbounded" minOccurs="12"> <xs:annotation> <xs:documentation xml:lang="eng">Image quality measurements for a single patch. At least twelve patches must be measured in Digidaily, six color patches and six grayscale patches.</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type tns:patchType

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram



Used by Element tns:patchMeasurementsType/tns:patch

Model tns:center{0,1} , tns:colorValues , tns:deltaE , tns:deltaL , tns:deltaC , tns:noise{0,1}

Children tns:center, tns:colorValues, tns:deltaC, tns:deltaE, tns:deltaL, tns:noise

Attributes	QName	Type	Use	
	patchID	restriction of xs:short	required	
		ID of the current patch. Matched against the ID of the real-world patch, as found in the corresponding attribute under targetData/colorValues. Allowed values: 1 or higher		

Source

```

<xs:complexType name="patchType">
  <xs:sequence>
    <xs:element type="tns:coordinateType" name="center" minOccurs="0">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Coordinates for the center of the patch. Only used when the
reference image, that contains the target, is saved.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element type="tns:colorValuesType" name="colorValues">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Parent element for the color values</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="deltaE">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The color accuracy.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="0"/>
          <xs:maxInclusive value="300"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="deltaL">
      <xs:annotation>
        <xs:documentation xml:lang="eng">The exposure accuracy.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="deltaC">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Color cast.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="0"/>
          <xs:maxInclusive value="300"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="noise">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Measured as the standard deviation in the Y-channel. This is currently
the only RGB-based quality metric. The Y-channel...</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="0"/>
          <xs:maxInclusive value="300"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="deltaC">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Color cast.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:float">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="283"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="noise" minOccurs="0">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Measured as the standard deviation in the Y-channel. This
is currently the only RGB-based quality metric. The Y-channel is computed as Y=(0,299*R + 0,587*G +
0,114*B).</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:float">
      <xs:minInclusive value="0"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>
<xs:attribute name="patchID" use="required">
  <xs:annotation>
    <xs:documentation xml:lang="eng">ID of the current patch. Matched against the ID of the real-
world patch, as found in the corresponding attribute under targetData/colorValues. Allowed values: 1
or higher</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:short">
      <xs:minInclusive value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

Complex Type tns:colorValuesType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:patchType/tns:colorValues
Model	tns:L , tns:A , tns:B
Children	tns:A, tns:B, tns:L
Source	<pre> <xs:complexType name="colorValuesType"> <xs:sequence> <xs:element name="L" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="A" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="B" minOccurs="1"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </pre>

```

</xs:element>
<xs:element name="B" minOccurs="1">
  <xs:simpleType>
    <xs:restriction base="xs:float">
      <xs:minInclusive value="-100"/>
      <xs:maxInclusive value="100"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type tns:aggregateMeasurementsType

Namespace	kb.se/ns/image_capture_performance
Diagram	The diagram illustrates the structure of the <code>aggregateMeasurementsType</code> complex type. It is a sequence of the following elements: lengthOfTarget: Type Restriction of 'xs:int'. Length of the target in the image, in pixels. Only used when the target image is saved. resolution: Type Restriction of 'xs:short'. The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element. maxDeltaE: Type Restriction of 'xs:float'. Color accuracy. The maximum value for all applicable patches. meanDeltaE: Type Restriction of 'xs:float'. Color accuracy. The average value, computed using all applicable patches. maxDeltaL: Type Restriction of 'xs:float'. Exposure correctness. The maximum value for all applicable patches. meanDeltaL: Type Restriction of 'xs:float'. Exposure correctness. The average value, computed using all applicable patches. maxDeltaC: Type Restriction of 'xs:float'. Color cast. The maximum value for all applicable patches. meanDeltaC: Type Restriction of 'xs:float'. Color cast. The average value, computed using all applicable patches. gainModulation: Type tns:gainModulationType. Data for the image quality metric gain modulation (tonseparation in Swedish). The name of each child element contains... maxNoise: Type Restriction of 'xs:float'. The maximum noise, as measured on the individual patches.
Used by	Element tns:imageDataType/tns:aggregateMeasurements
Model	tns:lengthOfTarget{0,1} , tns:resolution , tns:maxDeltaE , tns:meanDeltaE , tns:maxDeltaL , tns:meanDeltaL , tns:maxDeltaC , tns:meanDeltaC , tns:gainModulation , tns:maxNoise{0,1}
Children	tns:gainModulation, tns:lengthOfTarget, tns:maxDeltaC, tns:maxDeltaE, tns:maxDeltaL, tns:maxNoise, tns:meanDeltaC, tns:meanDeltaE, tns:meanDeltaL, tns:resolution
Source	<pre> <xs:complexType name="aggregateMeasurementsType"> <xs:sequence> <xs:element name="lengthOfTarget" minOccurs="0"> <xs:annotation> </pre>

```

        <xs:documentation xml:lang="eng">Length of the target in the image, in pixels. Only used
when the target image is saved.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:int">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="resolution">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The computed resolution for the captured image, measured in
ppi. The nominal resolution is not allowed in this element.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:short">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxDeltaE" minOccurs="1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Color accuracy. The maximum value for all applicable
patches.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="300"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="meanDeltaE" minOccurs="1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Color accuracy. The average value, computed using all
applicable patches.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="300"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxDeltaL" minOccurs="1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Exposure correctness. The maximum value for all applicable
patches.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="meanDeltaL" minOccurs="1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Exposure correctness. The average value, computed using all
applicable patches.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxDeltaC" minOccurs="1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Color cast. The maximum value for all applicable patches.</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="283"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="meanDeltaC" minOccurs="1">
    <xs:annotation>

```

```

<xs:documentation xml:lang="eng">Color cast. The average value, computed using all
applicable patches.</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="283"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element type="tns:gainModulationType" name="gainModulation">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Data for the image quality metric gain modulation
(tonseparation in Swedish). The name of each child element contains the approximate
luminosity value of the two patches used for the measurement. Not all elements has to be used.
Generally, measurements for one small intervall and one large intervall should be performed.</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="maxNoise" minOccurs="0">
    <xs:annotation>
      <xs:documentation xml:lang="eng">The maximum noise, as measured on the individual patches.</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:float">
        <xs:minInclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type tns:gainModulationType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:aggregateMeasurementsType/tns:gainModulation
Model	((tns:L95-L80 , tns:L95-L90{0,1}) (tns:L95-L90)), ((tns:L85-L20 , tns:L85-L10{0,1}) (tns:L85-L10))
Children	tns:L85-L10, tns:L85-L20, tns:L95-L80, tns:L95-L90
Source	<pre> <xs:complexType name="gainModulationType"> <xs:sequence> <xs:choice maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">One or both element must exist</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="L95-L80" type="tns:L95L80Type"/> <xs:element name="L95-L90" minOccurs="0" type="tns:L95L90Type"/> </xs:sequence> <xs:sequence> <xs:element name="L95-L90" type="tns:L95L90Type"/> </xs:sequence> </xs:choice> <xs:choice maxOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">One or both element must exist</xs:documentation> </pre>

```

</xs:annotation>
<xs:sequence>
  <xs:element name="L85-L20" type="tns:L85L20Type"/>
  <xs:element name="L85-L10" maxOccurs="1" minOccurs="0" type="tns:L85L10Type"/>
</xs:sequence>
<xs:sequence>
  <xs:element name="L85-L10" maxOccurs="1" minOccurs="1" type="tns:L85L10Type">
  </xs:element>
</xs:sequence>
</xs:choice>
</xs:sequence>
</xs:complexType>

```

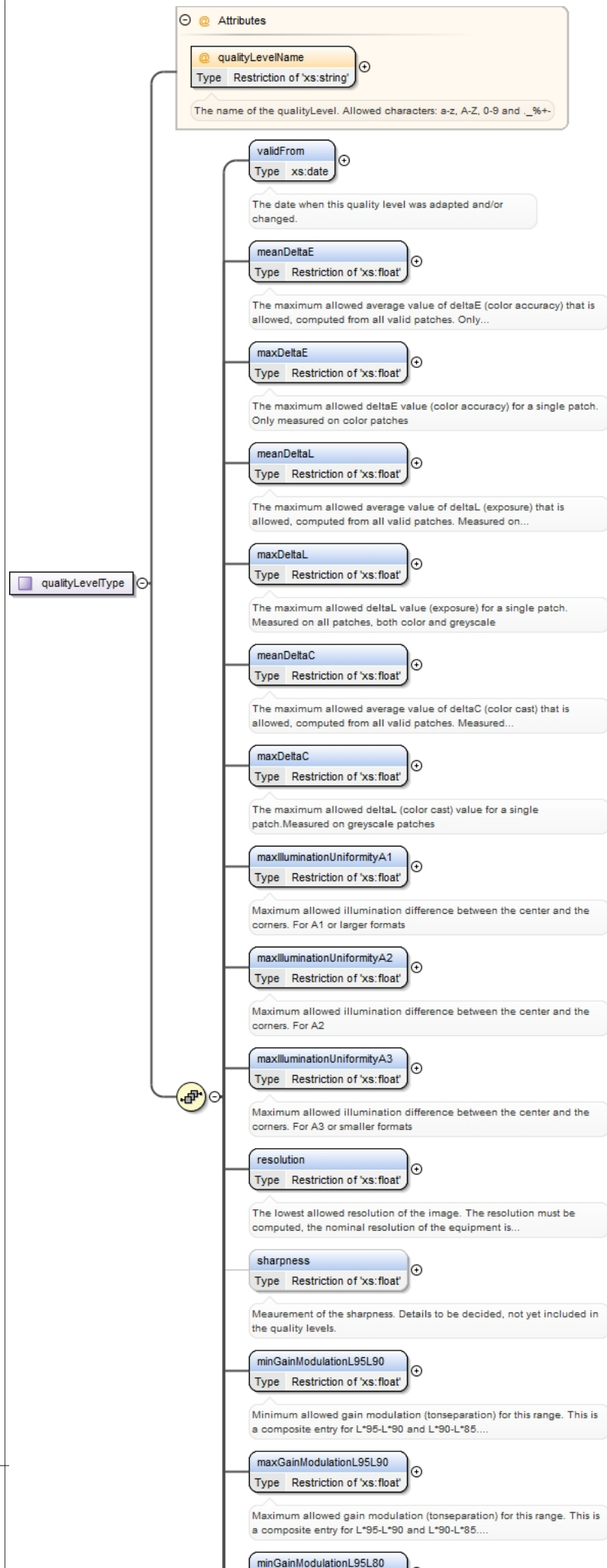
Complex Type tns:qualityDataType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:imageQualityControlDataType/tns:qualityData
Model	tns:qualityLevelData+, tns:targetData+, tns:selectionBatchData
Children	tns:qualityLevelData, tns:selectionBatchData, tns:targetData
Source	<pre> <xs:complexType name="qualityDataType"> <xs:sequence> <xs:element type="tns:qualityLevelType" name="qualityLevelData" maxOccurs="unbounded"> <xs:annotation> <xs:documentation xml:lang="eng">Definition of the quality level(s) used for the image quality measurements</xs:documentation> </xs:annotation> </xs:element> <xs:element name="targetData" type="tns:targetDataType" maxOccurs="unbounded" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Data about the real-world references/targets used for the quality measurements. Multiple elements are allowed since multiple targets might have been used for the qaulity measurements. Always store for reference, although some data is only useful when we also store the images that contain the targets.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="selectionBatchData" type="tns:selectionBatchDataType"> <xs:annotation> <xs:documentation xml:lang="eng">Batch data related to the issue and the statistical quality control. See related documentation for more information</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type tns:qualityLevelType

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram



Used by	tns:qualityDataType/tns:qualityLevelData			
Model	tns:validFrom , tns:meanDeltaE , tns:maxDeltaE , tns:meanDeltaL , tns:maxDeltaL , tns:meanDeltaC , tns:maxDeltaC , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:resolution , tns:sharpness{0,1} , tns:minGainModulationL95L90 , tns:maxGainModulationL95L90 , tns:minGainModulationL95L80 , tns:maxGainModulationL95L80 , tns:minGainModulationL85L20 , tns:maxGainModulationL85L20 , tns:minGainModulationL85L10 , tns:maxGainModulationL85L10			
Children	tns:maxDeltaC , tns:maxDeltaE , tns:maxDeltaL , tns:maxGainModulationL85L10 , tns:maxGainModulationL85L20 , tns:maxGainModulationL95L80 , tns:maxGainModulationL95L90 , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:meanDeltaC , tns:meanDeltaE , tns:meanDeltaL , tns:minGainModulationL85L10 , tns:minGainModulationL85L20 , tns:minGainModulationL95L80 , tns:minGainModulationL95L90 , tns:resolution , tns:sharpness , tns:validFrom			
Attributes	QName	Type	Use	
	qualityLevelName	restriction of xs:string	required	
		The name of the qualityLevel. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<pre><xs:complexType name="qualityLevelType"> <xs:sequence> <xs:element type="xs:date" name="validFrom"> <xs:annotation> <xs:documentation xml:lang="eng">The date when this quality level was adapted and/or changed.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="meanDeltaE"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed average value of deltaE (color accuracy) that is allowed, computed from all valid patches. Only measured on color patches</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="347"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="maxDeltaE"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed deltaE value (color accuracy) for a single patch. Only measured on color patches</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="347"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="meanDeltaL"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed average value of deltaL (exposure) that is allowed, computed from all valid patches. Measured on all patches, both color and greyscale</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="maxDeltaL"> <xs:annotation> <xs:documentation xml:lang="eng">The maximum allowed deltaL value (exposure) for a single patch. Measured on all patches, both color and greyscale</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="meanDeltaC"> <xs:annotation></pre>			

```

        <xs:documentation xml:lang="eng">The maximum allowed average value of deltaC (color
cast) that is allowed, computed from all valid patches. Measured only on greyscale patches</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="283"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxDeltaC">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The maximum allowed deltaL (color cast) value for a single
patch. Measured on greyscale patches</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="283"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxIlluminationUniformityA1">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center
and the corners. For A1 or larger formats</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="200"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxIlluminationUniformityA2">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center
and the corners. For A2</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="200"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxIlluminationUniformityA3">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed illumination difference between the center
and the corners. For A3 or smaller formats</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
            <xs:maxInclusive value="200"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="resolution">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The lowest allowed resolution of the image. The resolution
must be computed, the nominal resolution of the equipment is not allowed.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element minOccurs="0" name="sharpness">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Meaurement of the sharpness. Details to be decided, not yet
included in the quality levels.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="minGainModulationL95L90">
    <xs:annotation>

```

```

        <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this
range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to
be used at the same time.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxGainModulationL95L90">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this
range. This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to
be used at the same time.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="minGainModulationL95L80">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this
range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a
single metrics is intened to be used at a measurement time.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxGainModulationL95L80">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this
range. This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a
single metrics is intened to be used at a measurement time.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="minGainModulationL85L20">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this
range.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxGainModulationL85L20">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this
range.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="minGainModulationL85L10">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Minimum allowed gain modulation (tonseparation) for this
range.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:float">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="maxGainModulationL85L10">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Maximum allowed gain modulation (tonseparation) for this
range.</xs:documentation>
    </xs:annotation>

```

```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
<xs:attribute name="qualityLevelName" use="required">
  <xs:annotation>
    <xs:documentation xml:lang="eng">The name of the qualityLevel. Allowed characters: a-z, A-Z,
0-9 and ._%+</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[a-zA-Z0-9._%+]" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

Complex Type tns:targetDataType

Namespace	kb.se/ns/image_capture_performance			
Diagram	The diagram illustrates the structure of the <code>tns:targetDataType</code> complex type. It is a sequence of the following elements: nameOfTarget: Type <code>Restriction of 'xs:string'</code>. Must exist a <code>nameOfTarget</code> element with the same contents under <code>generalInformation</code>. Allowed characters: <code>a-z, A-Z, 0-9...</code> dateOfMeasurement: Type <code>xs:date</code>. Date when the target's real-world color values was measured targetType: Type <code>Restriction of 'xs:string'</code>. Type of the physical target, e.g. Colorchecker SG. Allowed characters: <code>a-z, A-Z, 0-9 and ._%+-</code> numberOfPatches: Type <code>Restriction of 'xs:short'</code>. The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target.... daysSinceTargetMeasurement: Type <code>Restriction of 'xs:short'</code>. The number of days since the real-world target was measured colorValues: Type <code>tns:colorValuesTargetType</code>. The color values of the patches. At least twelve patches must be specified (six color patches and six grayscale)			
Used by	Element	tns:qualityDataType/tns:targetData		
Model	tns:targetType , tns:numberOfPatches , tns:daysSinceTargetMeasurement , tns:colorValues{12,unbounded}			
Children	tns:colorValues, tns:daysSinceTargetMeasurement, tns:numberOfPatches, tns:targetType			
Attributes	QName	Type	Use	
	dateOfMeasurement	xs:date	optional	
		Date when the target's real-world color values was measured		
	nameOfTarget	restriction of xs:string	required	
		Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Source	<pre><xs:complexType name="targetDataType"> <xs:sequence> <xs:element name="targetType"> <xs:annotation></pre>			

```

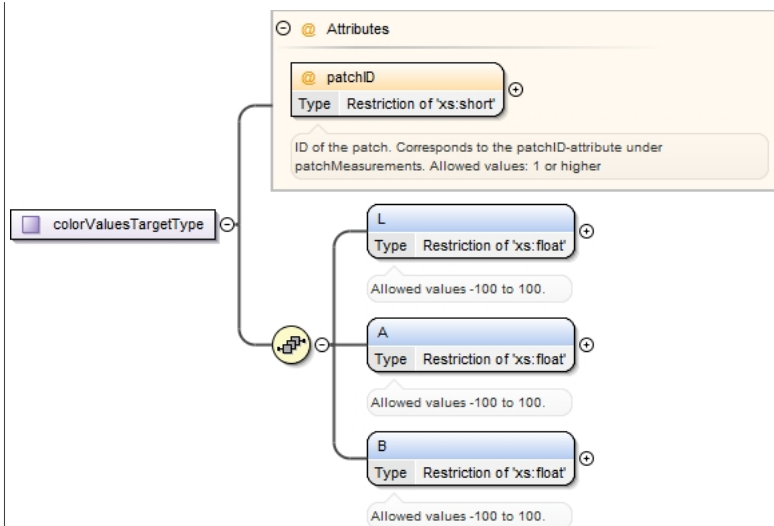
        <xs:documentation xml:lang="eng">Type of the physical target, e.g. Colorchecker SG. Allowed
characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:pattern value="[a-zA-Z0-9._%+-]+"\>
            <xs:pattern value=""\>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="numberOfPatches">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The number of patches that is used for the measurements.
Not necessary equal to the number of patches on the target. Set to twelve or higher (for
Digidaily), six color patches and six grayscale patches</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:short">
            <xs:minInclusive value="12"\>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="daysSinceTargetMeasurement">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The number of days since the real-world target was
measured</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:short">
            <xs:minInclusive value="0"\>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element maxOccurs="unbounded" minOccurs="12" name="colorValues"
type="tns:colorValuesTargetType">
    <xs:annotation>
        <xs:documentation xml:lang="eng">The color values of the patches. At least twelve patches
must be specified (six color patches and six grayscale)</xs:documentation>
    </xs:annotation>
</xs:element>
</xs:sequence>
<xs:attribute name="nameOfTarget" use="required">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Must exist a nameOfTarget element with the same contents
under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:pattern value="[a-zA-Z0-9._%+-]+"\>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="dateOfMeasurement" type="xs:date">
    <xs:annotation>
        <xs:documentation xml:lang="eng">Date when the target's real-world color values was measured</
xs:documentation>
    </xs:annotation>
</xs:attribute>
</xs:complexType>

```

Complex Type tns:colorValuesTargetType

Namespace	kb.se/ns/image_capture_performance
-----------	------------------------------------

Diagram



Used by Element `tns:targetDataType/tns:colorValues`

Model `tns:L` , `tns:A` , `tns:B`

Children `tns:A` , `tns:B` , `tns:L`

Attributes	QName	Type	Use	
	patchID	restriction of xs:short	required	
		ID of the patch. Corresponds to the patchID-attribute under patchMeasurements. Allowed values: 1 or higher		

Source

```

<xs:complexType name="colorValuesTargetType">
  <xs:sequence>
    <xs:element name="L" minOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="-100"/>
          <xs:maxInclusive value="100"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="A" minOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="-100"/>
          <xs:maxInclusive value="100"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="B" minOccurs="1">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Allowed values -100 to 100.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:float">
          <xs:minInclusive value="-100"/>
          <xs:maxInclusive value="100"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="patchID" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">ID of the patch. Corresponds to the patchID-attribute under patchMeasurements. Allowed values: 1 or higher</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:short">
        <xs:minInclusive value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

```

```
</xs:attribute>
</xs:complexType>
```

Complex Type tns:selectionBatchDataType

Namespace	kb.se/ns/image_capture_performance												
Diagram	<pre>graph LR subgraph selectionBatchDataType [selectionBatchDataType] direction TB subgraph Attributes direction TB selectionBatchID["@ selectionBatchID Type xs:int"] selectionBatchID --- Note1["The ID for the selection batch that contains the batchID"] end batchID["batchID Type xs:string"] batchID --- Note2["The id for the batch that the issue belongs to. OBS. Vilken datatyp ska det vara?"] end</pre>												
Used by	Element	tns:qualityDataType/tns:selectionBatchData											
Model	tns:batchID												
Children	tns:batchID												
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>selectionBatchID</td><td>xs:int</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The ID for the selection batch that contains the batchID</td></tr></tbody></table>	QName	Type	Use		selectionBatchID	xs:int	optional			The ID for the selection batch that contains the batchID		
QName	Type	Use											
selectionBatchID	xs:int	optional											
	The ID for the selection batch that contains the batchID												
Source	<pre><xs:complexType name="selectionBatchDataType"> <xs:sequence> <xs:element name="batchID" type="xs:string"> <xs:annotation> <xs:documentation xml:lang="eng">The id for the batch that the issue belongs to. OBS. Vilken datatyp ska det vara?</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="selectionBatchID" type="xs:int"> <xs:annotation> <xs:documentation xml:lang="eng">The ID for the selection batch that contains the batchID</ </xs:annotation> </xs:attribute> </xs:complexType></pre>												

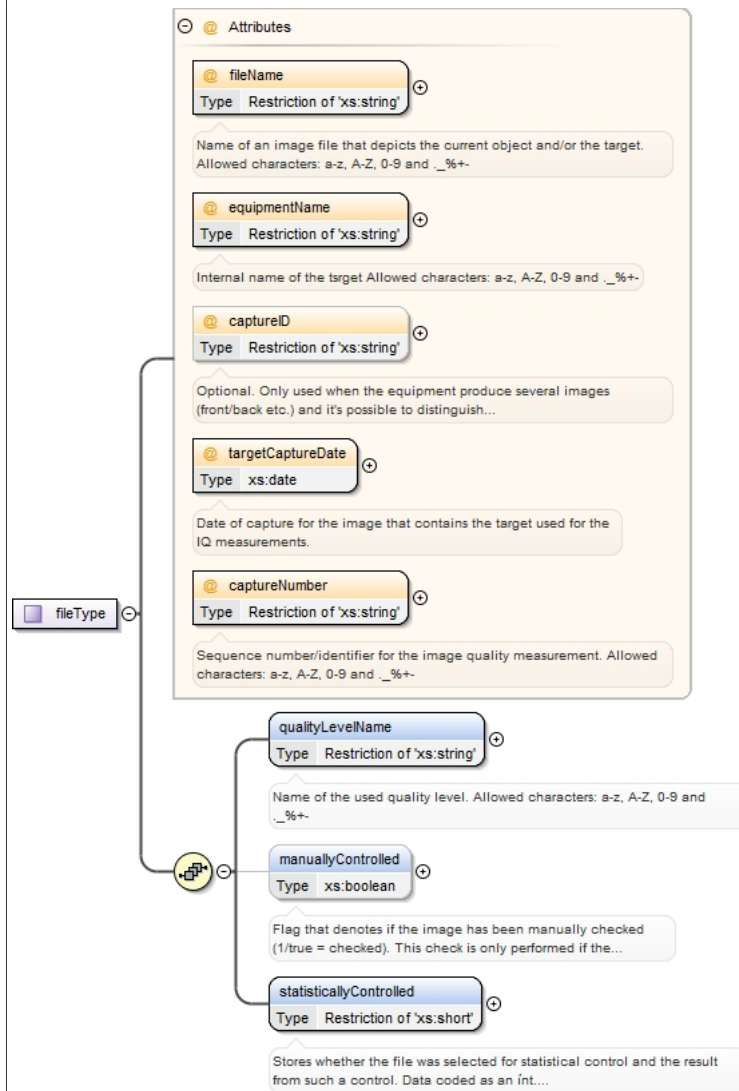
Complex Type tns:fileListType

Namespace	kb.se/ns/image_capture_performance		
Diagram	<pre>graph LR fileListType[fileListType] -- "0..∞" --> file[file] file --> tnsFileType[tns:fileType] fileListType -.-> note[Images files for which the included IQ data is valid]</pre>		
Used by	Element	tns:imageQualityControlDataType/tns:fileList	
Model	tns:file*		
Children	tns:file		
Source	<pre><xs:complexType name="fileListType"> <xs:sequence> <xs:element type="tns:fileType" name="file" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation xml:lang="eng">Images files for which the included IQ data is valid</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType></pre>		

Complex Type tns:fileType

Namespace	kb.se/ns/image_capture_performance			
-----------	------------------------------------	--	--	--

Diagram



Used by	Element tns:fileListType/tns:file			
Model	tns:qualityLevelName , tns:manuallyControlled{0,1} , tns:statisticallyControlled			
Children	tns:manuallyControlled, tns:qualityLevelName, tns:statisticallyControlled			
Attributes	QName	Type	Use	
	captureID	restriction of xs:string	optional	
		Optional. Only used when the equipment produce several images (front/back etc.) and it's possible to distinguish between them. Corresponds to the attributes with the same name under captureData Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	captureNumber	restriction of xs:string	required	
		Sequence number/identifier for the image quality measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	equipmentName	restriction of xs:string	required	
		Internal name of the target Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	fileName	restriction of xs:string	required	
		Name of an image file that depicts the current object and/or the target. Allowed characters: a-z, A-Z, 0-9 and ._%+~		
	targetCaptureDate	xs:date	required	
		Date of capture for the image that contains the target used for the IQ measurements.		

Source

```

<xs:complexType name="fileType">
  <xs:sequence>
    <xs:element name="qualityLevelName">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Name of the used quality level. Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="[a-zA-Z0-9._%+]" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element minOccurs="0" name="manuallyControlled" type="xs:boolean">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Flag that denotes if the image has been manually checked (1/true = checked). This check is only performed if the selection batch fails the statistical IQ-control.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="statisticallyControlled">
      <xs:annotation>
        <xs:documentation xml:lang="eng">Stores whether the file was selected for statistical control and the result from such a control. Data coded as an int. Possible to extend the codes if necessary. -1 = not selected 0 = selected, failed the control 1 = selected, passed the control.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:short">
          <xs:enumeration value="-1" />
          <xs:enumeration value="1" />
          <xs:enumeration value="0" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="fileName" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Name of an image file that depicts the current object and/or the target. Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+]" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="equipmentName" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Internal name of the tsrget Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+]" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="captureID">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Optional. Only used when the equipment produce several images (front/back etc.) and it's possible to distinguish between them. Corresponds to the attributes with the same name under captureData Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="[a-zA-Z0-9._%+]" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute type="xs:date" name="targetCaptureDate" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Date of capture for the image that contains the target used for the IQ measurements.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute form="unqualified" name="captureNumber" use="required">
    <xs:annotation>
      <xs:documentation xml:lang="eng">Sequence number/identifier for the image quality measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+</xs:documentation>
    </xs:annotation>
    <xs:simpleType>

```

```

<xs:restriction base="xs:string">
  <xs:pattern value="[a-zA-Z0-9._%+-]+"\>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
</xs:complexType>

```

Complex Type tns:manuallyControlledFileType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Model	tns:fileName*
Children	tns:fileName
Source	<pre> <xs:complexType name="manuallyControlledFileType"> <xs:sequence> <xs:element maxOccurs="unbounded" minOccurs="0" name="fileName"> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="result" type="xs:boolean" form="unqualified" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </pre>

Simple Type(s)

Simple Type tns:illuminationUniformityValueType

Namespace	kb.se/ns/image_capture_performance				
Diagram					
Type	restriction of xs:float				
Facets	<table> <tr> <td>maxInclusive</td><td>200</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	200	minInclusive	0
maxInclusive	200				
minInclusive	0				
Used by	Element tns:illuminationUniformityType/tns:illuminationUniformityValue				
Source	<pre> <xs:simpleType name="illuminationUniformityValueType"> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> <xs:maxInclusive value="200"/> </xs:restriction> </xs:simpleType> </pre>				

Simple Type tns:resultStringType

Namespace	kb.se/ns/image_capture_performance
Annotations	Element for storage of a numeric value from the measurement
Diagram	
Type	restriction of xs:string
Facets	pattern [a-zA-Z0-9._%+-] +
Used by	Element tns:periodicMeasurement/tns:resultString
Source	<pre> <xs:simpleType name="resultStringType"> <xs:annotation> <xs:documentation xml:lang="eng">Element for storage of a numeric value from the measurement</xs:documentation> </xs:annotation> </xs:simpleType> </pre>

```

</xs:annotation>
<xs:restriction base="xs:string">
  <xs:pattern value="[a-zA-Z0-9._%+~]+" />
</xs:restriction>
</xs:simpleType>

```

Simple Type tns:resultNumericType

Namespace	kb.se/ns/image_capture_performance
Annotations	Element for storage of a string that represents the result of the measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Diagram	
Type	xs:float
Used by	Element tns:periodicMeasurement/tns:resultNumeric
Source	<pre> <xs:simpleType name="resultNumericType"> <xs:annotation> <xs:documentation xml:lang="eng">Element for storage of a string that represents the result of the measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:restriction base="xs:float" /> </xs:simpleType> </pre>

Simple Type tns:L95L80Type

Namespace	kb.se/ns/image_capture_performance
Annotations	This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intened to be used at a measurement time
Diagram	
Type	restriction of xs:float
Facets	minInclusive 0
Used by	Element tns:gainModulationType/tns:L95-L80
Source	<pre> <xs:simpleType name="L95L80Type"> <xs:annotation> <xs:documentation xml:lang="eng">This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metrics is intened to be used at a measurement time</xs:documentation> </xs:annotation> <xs:restriction base="xs:float"> <xs:minInclusive value="0" /> </xs:restriction> </xs:simpleType> </pre>

Simple Type tns:L95L90Type

Namespace	kb.se/ns/image_capture_performance
Annotations	This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.
Diagram	
Type	restriction of xs:float
Facets	minInclusive 0

Used by	Element tns:gainModulationType/tns:L95-L90
Source	<pre> <xs:simpleType name="L95L90Type"> <xs:annotation> <xs:documentation xml:lang="eng">This is a composite entry for L*95-L*90 and L*90-L*85. The two metrics are not intended to be used at the same time.</xs:documentation> </xs:annotation> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </pre>

Simple Type tns:L85L20Type

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	restriction of xs:float
Facets	minInclusive 0
Used by	Element tns:gainModulationType/tns:L85-L20
Source	<pre> <xs:simpleType name="L85L20Type"> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </pre>

Simple Type tns:L85L10Type

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	restriction of xs:float
Facets	minInclusive 0
Used by	Element tns:gainModulationType/tns:L85-L10
Source	<pre> <xs:simpleType name="L85L10Type"> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </pre>

Namespace: ""

Attribute(s)

Attribute tns:capturedTargetType / @nameOfTarget

Namespace	No namespace
Annotations	Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+-]+
Used by	Complex Type tns:capturedTargetType
Source	<pre> <xs:attribute name="nameOfTarget" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> </xs:attribute> </pre>

```

</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:pattern value="[a-zA-Z0-9._%+ -] +"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>

```

Attribute `tns:capturedTargetType` / `@dateOfPhysicalMeasurement`

Namespace	No namespace
Annotations	Date when the target's real-world color values was measured
Type	xs:date
Properties	content: simple
Used by	Complex Type <code>tns:capturedTargetType</code>
Source	<pre> <xs:attribute name="dateOfPhysicalMeasurement" type="xs:date"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the target's real-world color values was measured</ </xs:annotation> </xs:attribute> </pre>

Attribute `tns:illuminationUniformityType` / `tns:illuminationUniformityValue` / `@size`

Namespace	No namespace						
Type	restriction of xs:string						
Properties	use: required						
Facets	<table> <tr> <td>enumeration</td><td>A1</td></tr> <tr> <td>enumeration</td><td>A2</td></tr> <tr> <td>enumeration</td><td>A3</td></tr> </table>	enumeration	A1	enumeration	A2	enumeration	A3
enumeration	A1						
enumeration	A2						
enumeration	A3						
Used by	Element <code>tns:illuminationUniformityType/tns:illuminationUniformityValue</code>						
Source	<pre> <xs:attribute name="size" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="A1"/> <xs:enumeration value="A2"/> <xs:enumeration value="A3"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>						

Attribute `tns:periodicMeasurement` / `@measurementType`

Namespace	No namespace
Annotations	Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+ -
Type	restriction of xs:string
Properties	use: required
Facets	pattern <code>[a-zA-Z0-9._%+ -] +</code>
Used by	Complex Type <code>tns:periodicMeasurement</code>
Source	<pre> <xs:attribute name="measurementType" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+ -</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+ -] +"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:patchType / @patchID

Namespace	No namespace
Annotations	ID of the current patch. Matched against the ID of the real-world patch, as found in the corresponding attribute under targetData/colorValues. Allowed values: 1 or higher
Type	restriction of xs:short
Properties	use: required
Facets	minInclusive 1
Used by	Complex Type tns:patchType
Source	<pre> <xs:attribute name="patchID" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">ID of the current patch. Matched against the ID of the real- world patch, as found in the corresponding attribute under targetData/colorValues. Allowed values: 1 or higher</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:imageDataType / @equipmentName

Namespace	No namespace
Annotations	Internal name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+-]+
Used by	Complex Type tns:imageDataType
Source	<pre> <xs:attribute name="equipmentName" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Internal name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:imageDataType / @captureDate

Namespace	No namespace
Annotations	Date of capture for the image(s) used for image quality measurements.
Type	xs:date
Properties	use: required
Used by	Complex Type tns:imageDataType
Source	<pre> <xs:attribute name="captureDate" type="xs:date" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Date of capture for the image(s) used for image quality measurements.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

Attribute tns:imageDataType / @captureID

Namespace	No namespace
Annotations	Identifier for the combination of equipment and an image that contains the target. Naming convention: front, back, left, right, middle, single etc.

	An identical attribute is used for the element captureEquipment. Allowed characters: a-z, A-Z, 0-9 and ._%+ -
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:imageDataType
Source	<pre> <xs:attribute name="captureID" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Identifier for the combination of equipment and an image that contains the target. Naming convention: front, back, left, right, middle, single etc. An identical attribute is used for the element captureEquipment. Allowed characters: a-z, A-Z, 0-9 and ._%+ -</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+ -]+"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:imageDataType / @captureNumber

Namespace	No namespace
Annotations	Sequence number/identifier for the image quality measurement. The number is specific for each equipment and it is reset daily. Included since we might want to perform several IQ measurements during a single day and we must be able to distinguish between them. Datatype is set to string to give the largest possible flexibility for the sequence numbering. Ordinary numbers are preferred. Allowed characters: a-z, A-Z, 0-9 and ._%+ -
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:imageDataType
Source	<pre> <xs:attribute name="captureNumber" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Sequence number/identifier for the image quality measurement. The number is specific for each equipment and it is reset daily. Included since we might want to perform several IQ measurements during a single day and we must be able to distinguish between them. Datatype is set to string to give the largest possible flexibility for the sequence numbering. Ordinary numbers are preferred. Allowed characters: a-z, A-Z, 0-9 and ._%+ -</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+ -]+"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:qualityLevelType / @qualityLevelName

Namespace	No namespace
Annotations	The name of the qualityLevel. Allowed characters: a-z, A-Z, 0-9 and ._%+ -
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:qualityLevelType
Source	<pre> <xs:attribute name="qualityLevelName" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">The name of the qualityLevel. Allowed characters: a-z, A-Z, 0-9 and ._%+ -</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+ -]+"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

```

</xs:restriction>
</xs:simpleType>
</xs:attribute>

```

Attribute tns:colorValuesTargetType / @patchID

Namespace	No namespace
Annotations	ID of the patch. Corresponds to the patchID-attribute under patchMeasurements. Allowed values: 1 or higher
Type	restriction of xs:short
Properties	use: required
Facets	minInclusive 1
Used by	Complex Type tns:colorValuesTargetType
Source	<pre> <xs:attribute name="patchID" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">ID of the patch. Corresponds to the patchID-attribute under patchMeasurements. Allowed values: 1 or higher</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:targetDataType / @nameOfTarget

Namespace	No namespace
Annotations	Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+-]+
Used by	Complex Type tns:targetDataType
Source	<pre> <xs:attribute name="nameOfTarget" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute tns:targetDataType / @dateOfMeasurement

Namespace	No namespace
Annotations	Date when the target's real-world color values was measured
Type	xs:date
Properties	content: simple
Used by	Complex Type tns:targetDataType
Source	<pre> <xs:attribute name="dateOfMeasurement" type="xs:date"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the target's real-world color values was measured</ </xs:annotation> </xs:attribute> </pre>

Attribute tns:selectionBatchDataType / @selectionBatchID

Namespace	No namespace
-----------	--------------

Annotations	The ID for the selection batch that contains the batchID
Type	xs:int
Properties	content: simple
Used by	Complex Type tns:selectionBatchDataType
Source	<pre><xs:attribute name="selectionBatchID" type="xs:int"> <xs:annotation> <xs:documentation xml:lang="eng">The ID for the selection batch that contains the batchID</ </xs:annotation> </xs:attribute></pre>

Attribute tns:fileType / @fileName

Namespace	No namespace
Annotations	Name of an image file that depicts the current object and/or the target. Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+-]+
Used by	Complex Type tns:fileType
Source	<pre><xs:attribute name="fileName" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Name of an image file that depicts the current object and/or the target. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

Attribute tns:fileType / @equipmentName

Namespace	No namespace
Annotations	Internal name of the tsrget Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+-]+
Used by	Complex Type tns:fileType
Source	<pre><xs:attribute name="equipmentName" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Internal name of the tsrget Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

Attribute tns:fileType / @captureID

Namespace	No namespace
Annotations	Optional. Only used when the equipment produce several images (front/back etc.) and it's possible to distinguish between them. Corresponds to the attributes with the same name under captureData Allowed characters: a-z, A-Z, 0-9 and ._%+-
Type	restriction of xs:string
Properties	content: simple

Facets	pattern	[a-zA-Z0-9._%+ -]+
Used by	Complex Type	tns:fileType
Source	<pre><xs:attribute name="captureID"> <xs:annotation> <xs:documentation xml:lang="eng">Optional. Only used when the equipment produce several images (front/back etc.) and it's possible to distinguish between them. Corresponds to the attributes with the same name under captureData Allowed characters: a-z, A-Z, 0-9 and ._%+ -</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+ -]+"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	

Attribute tns:fileType / @targetCaptureDate

Namespace	No namespace	
Annotations	Date of capture for the image that contains the target used for the IQ measurements.	
Type	xs:date	
Properties	use:	required
Used by	Complex Type	tns:fileType
Source	<pre><xs:attribute type="xs:date" name="targetCaptureDate" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Date of capture for the image that contains the target used for the IQ measurements.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute tns:fileType / @captureNumber

Namespace	No namespace	
Annotations	Sequence number/identifier for the image quality measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+-	
Type	restriction of xs:string	
Properties	use:	required
Facets	pattern	[a-zA-Z0-9._%+-]+
Used by	Complex Type	tns:fileType
Source	<pre><xs:attribute form="unqualified" name="captureNumber" use="required"> <xs:annotation> <xs:documentation xml:lang="eng">Sequence number/identifier for the image quality measurement. Allowed characters: a-z, A-Z, 0-9 and ._%+-</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+-]+"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>	

Attribute tns:imageQuailtyControlDataType / @packageDate

Namespace	No namespace
Annotations	Date when the package was created. Initially set to optional
Type	xs:dateTime
Properties	content: simple
Used by	Complex Type tns:imageQuailtyControlDataType
Source	<xs:attribute name="packageDate" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the package was created. Initially set to optional</ xs:documentation> </xs:annotation>

`</xs:attribute>`

Attribute `tns:manuallyControlledFileType` / `tns:fileName` / `@result`

Namespace	No namespace
Type	xs:boolean
Properties	use: required
Used by	Element <code>tns:manuallyControlledFileType</code> / <code>tns:fileName</code>
Source	<code><xs:attribute name="result" type="xs:boolean" form="unqualified" use="required"/></code>