

Schema documentation for icp_v1_3_1.xsd

june 3, 2014

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Namespace: "kb.se/ns/image_capture_performance"

Schema(s)

Main schema icp_v1_3_1.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: 1.3.1 (2014-06-03) Version history: In version 1.3.1 to support older versions of Xerces the datatype of the @nameOfTarget attribute has been set to the same datatype as the key. I also refactored out a type to represent nameOfTarget attribute used for references to reduce code duplication (tns:nameOfTargetRefType). In version 1.3, further changes has been made to allow for the use of multiple targets within a tns:imageData-element: Changed the name of tns:imageData/tns:patchMeasurements to tns:imageData/tns:colorExposureMeasurements Moved tns:imageData/tns:aggreateMeasurements to tns:imageData/tns:colorExposureMeasurements Removed attribute and key @nameOfTarget from tns:imageData/tns:colorExposureMeasurements/tns:aggreateMeasurements Moved tns:imageData/tns:periodicMeasurements, tns:imageData/tns:illuminationUniformity and tns:imageData/tns:opticalResolution the new element tns:imageData/tns:generalMeasurements. Updated relevant keys. Moved tns:imageData/tns:patchMeasurements/Patch/center to tns:imageData/tns:generalInformation/targetData/center.

Added attribute @patchID to tns:imageData/tns:generalInformation/targetData/center
 Added key to tns:imageData/tns:generalInformation/targetData/center/@patchID and reference to this key from tns:imageData/tns:patchMeasurements/Patch/@patchID
 Moved tns:imageData/tns:aggregateMeasurements/resolution to tns:imageData/tns:generalInformation/opticalResolution
 Expanded the information contained in tns:imageData/tns:generalInformation/opticalResolution.
 Attribute and key @nameOfTarget should correspond to tns:qualityData/tns:targetData/@nameOfTarget
 Removed tns:imageData/tns:aggregateMeasurements/lengthOfTarget due to redundancy
 Renamed tns:colorExposureMeasurements/tns:patch to tns:colorExposureMeasurements/tns:patchMeasurements
 Updated constraints for the imageData element to support the new structure
 Moved resolution from aggregateMeasurements to generalMeasurements
 Renamed targetType to targetModel
 Added element targetDescription under tns:qualityData/tns:targetData
 Replaced tns:aggregateMeasurements/noise with new element tns:generalMeasurements/Tns:noise Added keys and constraints for @nameOfTarget and @patchID
 Some cardinality fixes

In version 1.2, the following changed has been made to allow for the use of multiple targets within a tns:imageData-element: Added attribute nameOfTarget to tns:imageData/tns:generalInformation/tns:illuminationUniformity
 tns:imageData/tns:generalInformation/tns:periodicMeasurement
 tns:imageData/tns:patchMeasurements
 tns:imageData/tns:aggregateMeasurements;
 Renamed global target key "targetNameKey" to "targetDataKey"; Added a key in tns:imageData to make ./tns:generalInformation/@nameOfTarget unique within a tns:imageData element; Added reference to the afore mentioned @nameOfTarget-key in tns:imageData/tns:generalInformation/tns:illuminationUniformity tns:imageData/tns:generalInformation/tns:periodicMeasurement
 tns:imageData/tns:patchMeasurements
 tns:imageData/tns:aggregateMeasurements

In version 1.1, the following changes has been made: Elements deltaI, deltaC, meanDeltaI and meanDeltaC are made optional (set to minOccurs="0"); correction of misspelled dateOfIlluminationMeasurement

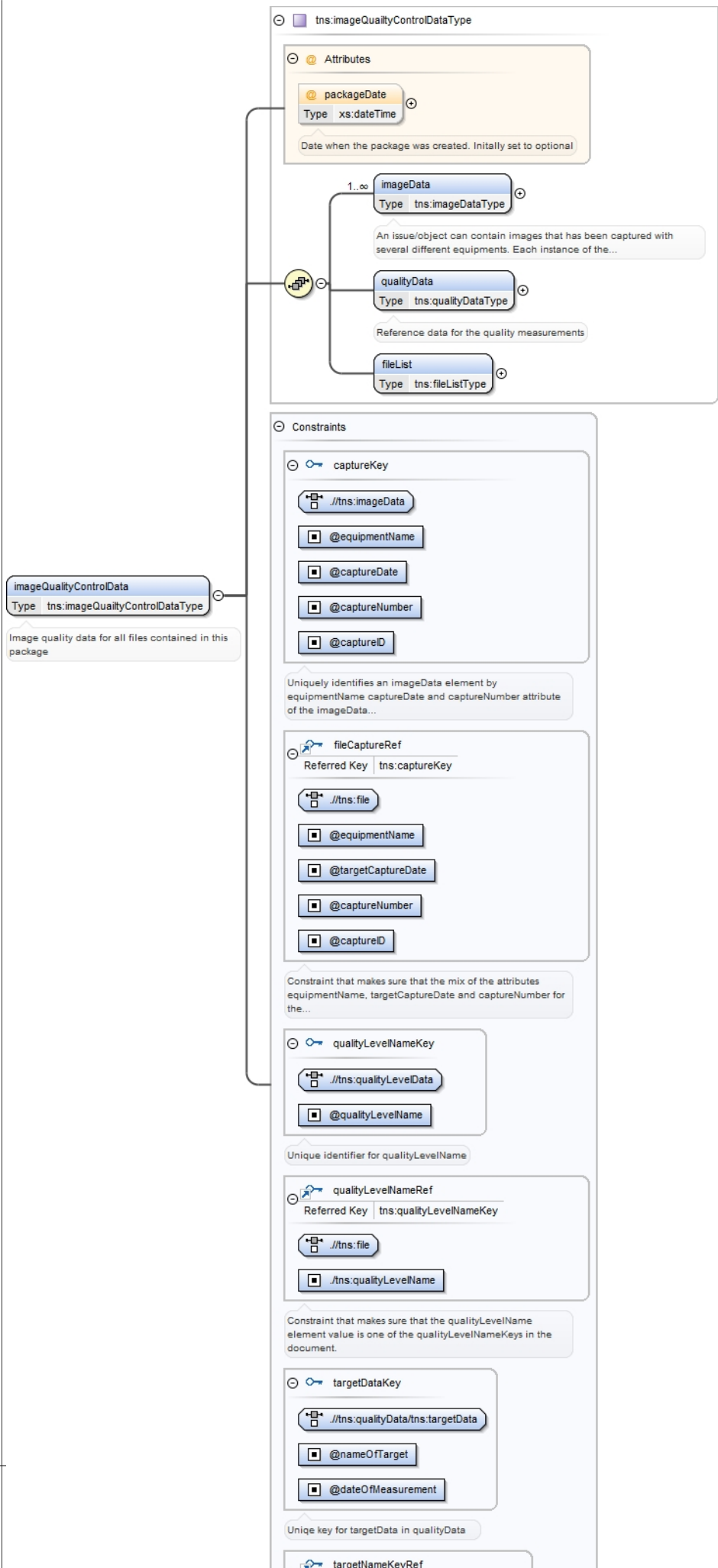
Properties	attribute form default:	unqualified
	element form default:	qualified
	version:	1.3.1

Element(s)

Element tns:imageQualityControlData

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

Diagram

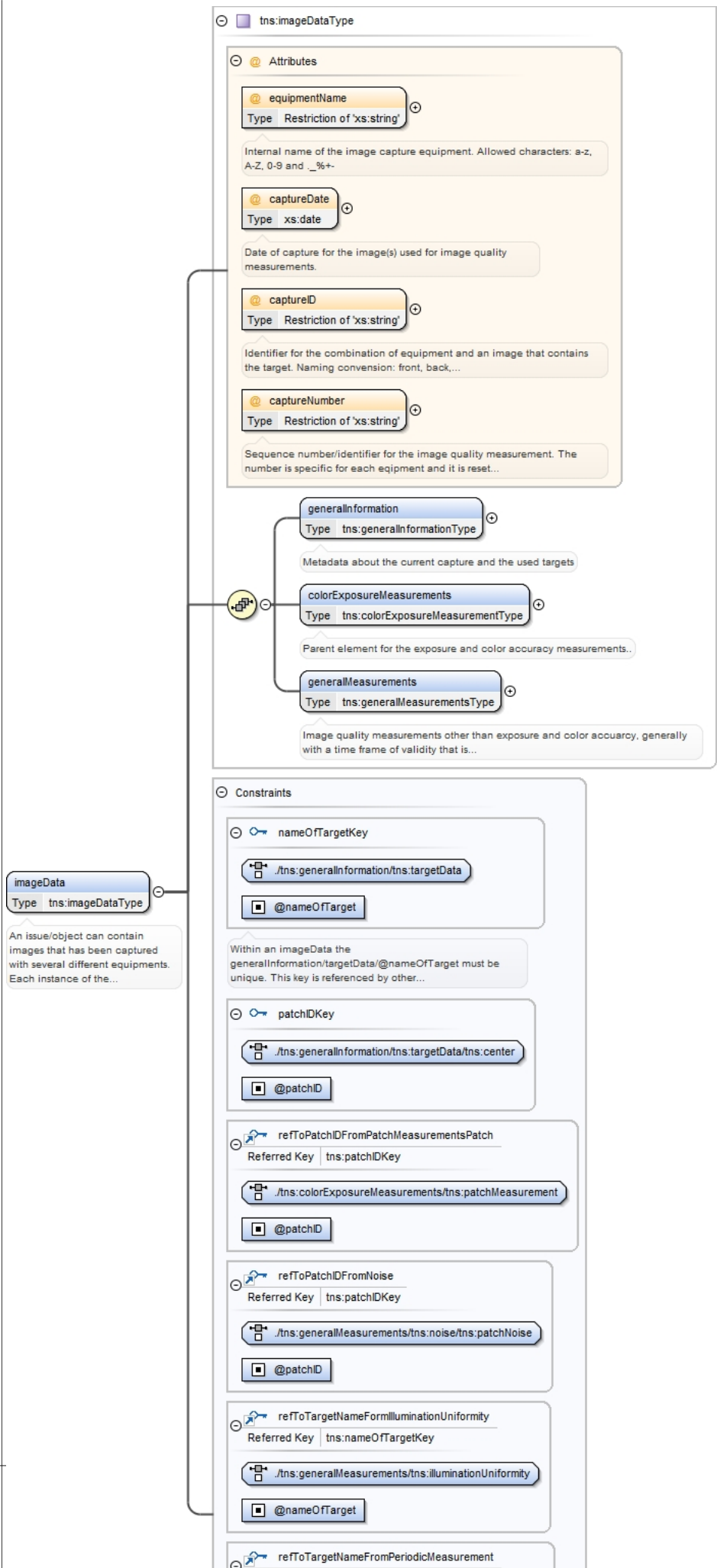


Type	tns:imageQualityControlDataType			
Properties	content: complex			
Model	tns:imageData+ , tns:qualityData , tns:fileList			
Children	tns:fileList, tns:imageData, tns:qualityData			
Instance	<pre><tns:imageQualityControlData packageDate="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:imageData 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="targetDataKey"> <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:targetDataKey"> <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:imageQuailtyControlDataType` / `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 the <code>imageData</code> element 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. For measurements that are valid for longer time frames, i.e. illumination uniformity, the measurement data are appended to the <code>imageData</code> element that contains the exposure and color accuracy measurements. This data cannot be stored separate instances of the element, as exposure and color accuracy data might not be obtainable in the illumination uniformity and noise measurements. 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:colorExposureMeasurements , tns:generalMeasurements			
Children	tns:colorExposureMeasurements, tns:generalInformation, tns:generalMeasurements			
Instance	<tns:imageData captureDate="" captureID="" captureNumber="" equipmentName="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:generalInformation>{1,1}</tns:generalInformation> <tns:colorExposureMeasurements nameOfTarget="">{1,1}</tns:colorExposureMeasurements> <tns:generalMeasurements>{1,1}</tns:generalMeasurements> </tns:imageData>			
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 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 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: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 the imageData element 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. For measurements that are valid for longer time frames, i.e. illumination uniformity, the measurement data are appended to the imageData element that contains the exposure and color accuracy measurements. This data cannot be stored separate instances of the element, as exposure and color accuracy data might not be obtainable in the illumination uniformity and noise measurements. 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:key name="nameOfTargetKey"> <xs:annotation> <xs:documentation xml:lang="eng">Within an imageData the generalInformation/targetData/@nameOfTarget must be unique. This key is referenced by other elements under the same imageData element.</xs:documentation> </xs:annotation> <xs:selector xpath="./tns:generalInformation/tns:targetData"/> <xs:field xpath="@nameOfTarget"/> </xs:key> <xs:key name="patchIDKey"> <xs:selector xpath="./tns:generalInformation/tns:targetData/tns:center"/> <xs:field xpath="@patchID"/> </xs:key> <xs:keyref refer="tns:patchIDKey" name="refToPatchIDFromPatchMeasurementsPatch"> <xs:selector xpath="./tns:colorExposureMeasurements/tns:patchMeasurement"/> <xs:field xpath="@patchID"/> </xs:keyref> <xs:keyref refer="tns:patchIDKey" name="refToPatchIDFromNoise">			

```

<xs:selector xpath="./tns:generalMeasurements/tns:noise/tns:patchNoise"/>
<xs:field xpath="@patchID"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFormIlluminationUniformity">
  <xs:selector xpath="./tns:generalMeasurements/tns:illuminationUniformity"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromPeriodicMeasurement">
  <xs:selector xpath="./tns:generalMeasurements/tns:periodicMeasurement"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromColorExposureMeasurements">
  <xs:selector xpath="./tns:colorExposureMeasurements"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromOpticalResolution">
  <xs:selector xpath="./tns:generalMeasurements/tns:opticalResolution"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromResolution">
  <xs:selector xpath="./tns:generalMeasurements/tns:resolution"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
<xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromNoise">
  <xs:selector xpath="./tns:generalMeasurements/tns:noise"/>
  <xs:field xpath="@nameOfTarget"/>
</xs:keyref>
</xs:element>

```

Element tns:imageDataType / tns:generalInformation

Namespace	kb.se/ns/image_capture_performance
Annotations	Metadata about the current capture and the used targets
Diagram	
Type	tns:generalInformationType
Properties	content: complex
Model	tns:equipmentModel , tns:targetData+
Children	tns:equipmentModel, tns:targetData
Instance	<pre> <tns:generalInformation xmlns:tns="kb.se/ns/image_capture_performance"> <tns:equipmentModel>{1,1}</tns:equipmentModel> <tns:targetData dateOfPhysicalMeasurement="" nameOfTarget="">{1,unbounded}</tns:targetData> </tns:generalInformation> </pre>
Source	<pre> <xs:element type="tns:generalInformationType" name="generalInformation"> <xs:annotation> <xs:documentation xml:lang="eng">Metadata about the current capture and the used targets</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	
Type	restriction of xs:string

Properties	content: simple
Facets	pattern <code>[a-zA-Z0-9._%+ -]+</code>
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:targetData`

Namespace	kb.se/ns/image_capture_performance
Diagram	<pre> classDiagram class targetData { +tns:nameOfTargetRefType nameOfTarget +xs:date dateOfPhysicalMeasurement +Restriction of 'xs:string' targetModel +xs:dateTime dateOfTargetCapture +Restriction of 'xs:short' numberOfPatches +xs:dateTime dateOfProcessing +xs:string measurementArea +xs:boolean targetUpsideDown +tns:positionOfTargetType positionOfTarget +tns:coordinateType center } </pre> targetData Type: <code>tns:capturedTargetType</code> Attributes nameOfTarget Type: <code>tns:nameOfTargetRefType</code> dateOfPhysicalMeasurement Type: <code>xs:date</code> Date when the target's real-world color values was measured targetModel Type: Restriction of 'xs:string' The target model that was employed, e.g. ColorChecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+ - dateOfTargetCapture Type: <code>xs:dateTime</code> Date of the capture of the image that contains the target. numberOfPatches Type: Restriction of 'xs:short' The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target.... dateOfProcessing Type: <code>xs:dateTime</code> Date when the image quality measurements for this target were performed measurementArea Type: <code>xs:string</code> The size of the area that was used for image quality measurements, in pixels. E.g. 10x10. targetUpsideDown Type: <code>xs:boolean</code> Indicates if the target's orientation with regard to the contents in the image. 0/false corresponds to the target being... positionOfTarget Type: <code>tns:positionOfTargetType</code> The target's coordinates in the reference image. Only included when we store the image that contains the target. center Type: Extension of 'tns:coordinateType' Coordinates for the center of the patch. Only used when the reference image, that contains the target, is saved.
Type	<code>tns:capturedTargetType</code>
Properties	content: complex

	maxOccurs:unbounded			
Model	tns:targetModel , tns:dateOfTargetCapture , tns:numberOfPatches , tns:dateOfProcessing , tns:measurementArea , tns:targetUpsideDown{0,1} , tns:positionOfTarget{0,1} , tns:center*			
Children	tns:center, tns:dateOfProcessing, tns:dateOfTargetCapture, tns:measurementArea, tns:numberOfPatches, tns:positionOfTarget, tns:targetModel, tns:targetUpsideDown			
Instance	<pre><tns:targetData dateOfPhysicalMeasurement="" nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:targetModel>{1,1}</tns:targetModel> <tns:dateOfTargetCapture>{1,1}</tns:dateOfTargetCapture> <tns:numberOfPatches>{1,1}</tns:numberOfPatches> <tns:dateOfProcessing>{1,1}</tns:dateOfProcessing> <tns:measurementArea>{1,1}</tns:measurementArea> <tns:targetUpsideDown>{0,1}</tns:targetUpsideDown> <tns:positionOfTarget>{0,1}</tns:positionOfTarget> <tns:center patchID="">{0,unbounded}</tns:center> </tns:targetData></pre>			
Attributes	QName	Type	Use	
	dateOfPhysicalMeasurement	xs:date	optional	
		Date when the target's real-world color values was measured		
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<xs:element name="targetData" type="tns:capturedTargetType" maxOccurs="unbounded"/>			

Element tns:capturedTargetType / tns:targetModel

Namespace	kb.se/ns/image_capture_performance		
Annotations	The target model that was employed, e.g. ColorChecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+-		
Diagram	targetModel Type Restriction of 'xs:string' restricts: xs:string The target model that was employed, e.g. ColorChecker SG. 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="targetModel"> <xs:annotation> <xs:documentation xml:lang="eng">The target model that was employed, 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:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:capturedTargetType / tns:dateOfTargetCapture

Namespace	kb.se/ns/image_capture_performance
Annotations	Date of the capture of the image that contains the target.
Diagram	dateOfTargetCapture Type xs:dateTime xs:dateTime Built-in primitive type. The dateTime datatype represents a specific instant of time. Date of the capture of the image that contains the target.
Type	xs:dateTime
Properties	content: simple
Source	<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:annotation>
</xs:element>
```

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. Mininum number of patches in Digidaily is twelve (six color patches and six grayscale patches)				
Diagram					
Type	restriction of xs:short				
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>minInclusive</td><td>0</td></tr> </table>	minInclusive	0		
minInclusive	0				
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. 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="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>				

Element `tns:capturedTargetType` / `tns:dateOfProcessing`

Namespace	kb.se/ns/image_capture_performance		
Annotations	Date when the image quality measurements for this target were performed		
Diagram			
Type	xs:dateTime		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Source	<pre><xs:element name="dateOfProcessing" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Date when the image quality measurements for this target were performed</xs:documentation> </xs:annotation> </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			
Type	xs:string		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
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>
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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					
Type	xs:boolean				
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				
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: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					
Type	tns:positionOfTargetType				
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	complex	minOccurs:	0
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	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Source	<pre><xs:element name="Y" type="xs:int"/></pre>		

Element tns:capturedTargetType / 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	The diagram illustrates the structure of the <code>center</code> element. It is an extension of the <code>tns:coordinateType</code> base type. The <code>center</code> element contains two children, <code>X</code> and <code>Y</code>, both of type <code>xs:int</code>. Additionally, it has an attribute <code>patchID</code> of type <code>Restriction of 'xs:short'</code>, which is required. A description for <code>patchID</code> states: "ID of the current patch. Matched against the ID of the real-world patch, as found in the corresponding attribute under..."			
Type	extension of tns:coordinateType			
Type hierarchy	tns:coordinateType			
Properties	content:	complex		
	minOccurs:	0		
	maxOccurs:	unbounded		
Model	tns:X , tns:Y			
Children	tns:X, tns:Y			
Instance	<pre><tns:center patchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:X>{1,1}</tns:X> <tns:Y>{1,1}</tns:Y> </tns:center></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 name="center" minOccurs="0" maxOccurs="unbounded"> <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:complexType> <xs:complexContent> <xs:extension base="tns:coordinateType"> <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:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>			

Element tns:imageDataType / tns:colorExposureMeasurements

Namespace	kb.se/ns/image_capture_performance
Annotations	Parent element for the exposure and color accuracy measurements..

Diagram				
Type	tns:colorExposureMeasurementType			
Properties	content: complex			
Model	tns:patchMeasurement{12,unbounded} , tns:aggregateMeasurements			
Children	tns:aggregateMeasurements, tns:patchMeasurement			
Instance	<pre><tns:colorExposureMeasurements nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:patchMeasurement patchID="">{12,unbounded}</tns:patchMeasurement> <tns:aggregateMeasurements>{1,1}</tns:aggregateMeasurements> </tns:colorExposureMeasurements></pre>			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre><xs:element type="tns:colorExposureMeasurementType" name="colorExposureMeasurements"> <xs:annotation> <xs:documentation xml:lang="eng">Parent element for the exposure and color accuracy measurements..</xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:colorExposureMeasurementType / tns:patchMeasurement

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:colorValues , tns:deltaE , tns:deltaL{0,1} , tns:deltaC{0,1}			
Children	tns:colorValues, tns:deltaC, tns:deltaE, tns:deltaL			
Instance	<pre><tns:patchMeasurement patchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:colorValues>{1,1}</tns:colorValues> <tns:deltaE>{1,1}</tns:deltaE> <tns:deltaL>{0,1}</tns:deltaL> <tns:deltaC>{0,1}</tns:deltaC> </tns:patchMeasurement></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="patchMeasurement" 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:annotation> </xs:element></pre>			

Element tns:patchType / tns:colorValues

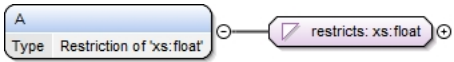
Namespace	kb.se/ns/image_capture_performance
Annotations	Parent element for the color values
Diagram	
Type	tns:colorValuesType
Properties	content: complex
Model	tns:L , tns:A , tns:B , tns:noise
Children	tns:A, tns:B, tns:L, tns:noise
Instance	<pre><tns:colorValues xmlns:tns="kb.se/ns/image_capture_performance"> <tns:L>{1,1}</tns:L> <tns:A>{1,1}</tns:A> <tns:B>{1,1}</tns:B> <tns:noise>{1,1}</tns:noise> </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

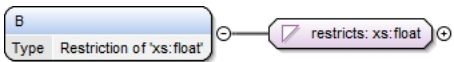
Namespace	kb.se/ns/image_capture_performance			
Diagram				

Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	1
Facets	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>	

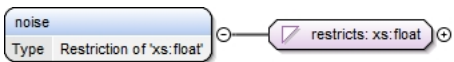
Element tns:colorValuesType / tns:A

Namespace	kb.se/ns/image_capture_performance	
Diagram		
Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	1
Facets	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	content:	simple
	minOccurs:	1
Facets	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:colorValuesType / tns:noise

Namespace	kb.se/ns/image_capture_performance	
Diagram		
Type	restriction of xs:float	

Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="noise"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </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 minOccurs: 0
Facets	maxInclusive 100 minInclusive 0
Source	<pre> <xs:element name="deltaL" minOccurs="0"> <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.

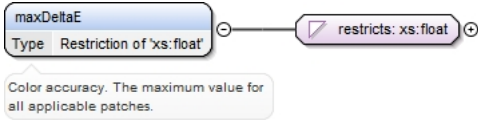
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Facets	<table> <tr> <td>maxInclusive</td><td>283</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	283	minInclusive	0
maxInclusive	283				
minInclusive	0				
Source	<pre> <xs:element name="deltaC" minOccurs="0"> <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> </pre>				

Element tns:colorExposureMeasurementType / tns:aggregateMeasurements

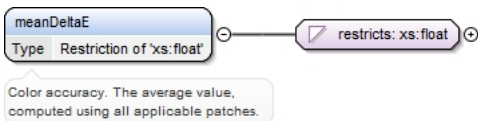
Namespace	kb.se/ns/image_capture_performance		
Annotations	Parent element for all aggregate measurements.		
Diagram			
Type	tns:aggregateMeasurementsType		
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		
Model	tns:maxDeltaE , tns:meanDeltaE , tns:maxDeltaL , tns:meanDeltaL , tns:maxDeltaC , tns:meanDeltaC , tns:gainModulation		
Children	tns:gainModulation, tns:maxDeltaC, tns:maxDeltaE, tns:maxDeltaL, tns:meanDeltaC, tns:meanDeltaE, tns:meanDeltaL		
Instance	<pre> <tns:aggregateMeasurements xmlns:tns="kb.se/ns/image_capture_performance"> <tns:maxDeltaE>{1,1}</tns:maxDeltaE> </pre>		

	<pre> <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: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:annotation> </xs:element> </pre>

Element `tns:aggregateMeasurementsType` / `tns:maxDeltaE`

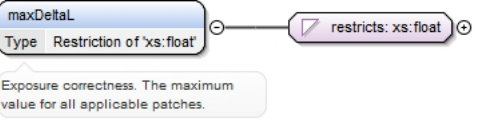
Namespace	kb.se/ns/image_capture_performance				
Annotations	Color accuracy. The maximum value for all applicable patches.				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>300</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	300	minInclusive	0
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: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`

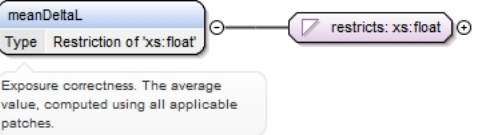
Namespace	kb.se/ns/image_capture_performance				
Annotations	Color accuracy. The average value, computed using all applicable patches.				
Diagram					
Type	restriction of xs:float				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table> <tr> <td>maxInclusive</td><td>300</td></tr> <tr> <td>minInclusive</td><td>0</td></tr> </table>	maxInclusive	300	minInclusive	0
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>				

```
</xs:simpleType>
</xs:element>
```

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	<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="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	Color cast. The maximum value for all applicable patches.				
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>				

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

Namespace	kb.se/ns/image_capture_performance				
Annotations	Color cast. The average value, computed using all applicable patches.				
Diagram	Color cast. The average value, computed using all applicable patches.				
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="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.

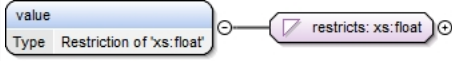
Diagram	
Type	tns:gainModulationType
Properties	content: complex
Model	((tns:L95-L80 , tns:L95-L90{0,1}) (tns:L95-L90)) , ((tns:L85-L20 , tns:L85-L10{0,1}) (tns:L85-L10))
Children	tns:L85-L10, tns:L85-L20, tns:L95-L80, tns:L95-L90
Instance	<pre><tns:gainModulation xmlns:tns="kb.se/ns/image_capture_performance"> <tns:L95-L80 measuredSeparation="">{1,1}</tns:L95-L80> <tns:L95-L90 measuredSeparation="">{0,1}</tns:L95-L90> <tns:L95-L90 measuredSeparation="">{1,1}</tns:L95-L90> <tns:L85-L20 measuredSeparation="">{1,1}</tns:L85-L20> <tns:L85-L10 measuredSeparation="">{0,1}</tns:L85-L10> <tns:L85-L10 measuredSeparation="">{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:L95-L80Type
Properties	content: complex
Model	tns:value
Children	tns:value
Instance	<pre><tns:L95-L80 measuredSeparation="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:value>{1,1}</tns:value> </tns:L95-L80></pre>

	</tns:L95-L80>			
Attributes	QName	Type	Use	
	measuredSeparation		optional	
		The actual interval/separation that was used for the measurement. L*95-L*80,L*95-L*80, or L*90-L*80 is the target, but the target patches might result in a slightly different interval.		
Source	<xs:element name="L95-L80" type="tns:L95-L80Type"/>			

Element tns:L95-L80Type / tns:value

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	restriction of xs:float		
Properties	content:	simple	
Facets	minInclusive	0	
Source	<pre><xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:gainModulationType / tns:L95-L90

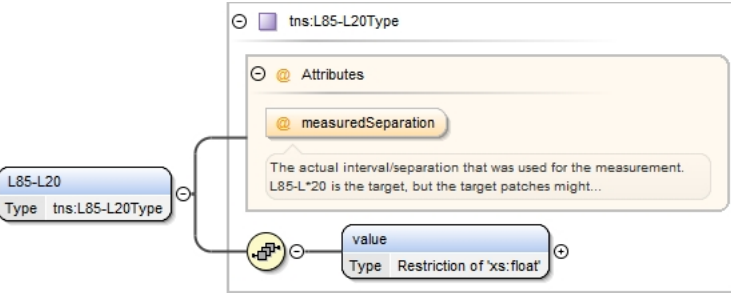
Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	tns:L95-L90Type		
Properties	content:	complex	
	minOccurs:	0	
Model	tns:value		
Children	tns:value		
Instance	<pre><tns:L95-L90 measuredSeparation="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:value>{1,1}</tns:value> </tns:L95-L90></pre>		
Attributes	QName	Type	Use
	measuredSeparation		optional
		The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.	
Source	<xs:element name="L95-L90" minOccurs="0" type="tns:L95-L90Type"/>		

Element tns:L95-L90Type / tns:value

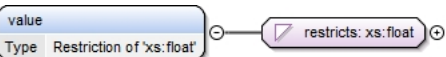
Namespace	kb.se/ns/image_capture_performance		
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Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element tns:gainModulationType / tns:L85-L20

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	tns:L85-L20Type		
Properties	content: complex		
Model	tns:value		
Children	tns:value		
Instance	<pre> <tns:L85-L20 measuredSeparation="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:value>{1,1}</tns:value> </tns:L85-L20> </pre>		
Attributes	QName	Type	Use
	measuredSeparation		optional
	The actual interval/separation that was used for the measurement. L85-L*20 is the target, but the target patches might result in a slightly different interval.		
Source	<pre> <xs:element name="L85-L20" type="tns:L85-L20Type"/> </pre>		

Element tns:L85-L20Type / tns:value

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	restriction of xs:float		
Properties	content: simple		
Facets	minInclusive 0		
Source	<pre> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>		

Element tns:gainModulationType / tns:L85-L10

Namespace	kb.se/ns/image_capture_performance
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Diagram													
Type	tns:L85-L10Type												
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr><tr><td>maxOccurs:</td><td>1</td></tr></table>	content:	complex	minOccurs:	0	maxOccurs:	1						
content:	complex												
minOccurs:	0												
maxOccurs:	1												
Model	tns:value												
Children	tns:value												
Instance	<pre><tns:L85-L10 measuredSeparation="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:value>{1,1}</tns:value> </tns:L85-L10></pre>												
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>measuredSeparation</td><td></td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.</td></tr></table>	QName	Type	Use		measuredSeparation		optional			The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.		
QName	Type	Use											
measuredSeparation		optional											
	The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.												
Source	<pre><xs:element name="L85-L10" maxOccurs="1" minOccurs="0" type="tns:L85-L10Type"/></pre>												

Element tns:L85-L10Type / tns:value

Namespace	kb.se/ns/image_capture_performance		
Diagram	The diagram illustrates the structure of the 'value' element. It is a 'Type' with a 'Restriction of 'xs:float''. This restriction is further defined by a facet labeled 'restricts: xs:float'.		
Type	restriction of xs:float		
Properties	content:	simple	
Facets	minInclusive	0	
Source	<pre><xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:imageDataType / tns:generalMeasurements

Namespace	kb.se/ns/image_capture_performance			
Annotations	Image quality measurements other than exposure and color accuracy, generally with a time frame of validity that is longer than a single day			

Diagram	
Type	tns:generalMeasurementsType
Properties	content: complex
Model	tns:illuminationUniformity{0,1} , tns:periodicMeasurement* , tns:resolution , tns:opticalResolution{0,1} , tns:noise{0,1}
Children	tns:illuminationUniformity, tns:noise, tns:opticalResolution, tns:periodicMeasurement, tns:resolution
Instance	<pre> <tns:generalMeasurements xmlns:tns="kb.se/ns/image_capture_performance"> <tns:illuminationUniformity nameOfTarget="">{0,1}</tns:illuminationUniformity> <tns:periodicMeasurement measurementType="" nameOfTarget="">{0,unbounded}</tns:periodicMeasurement> <tns:resolution nameOfTarget="">{1,1}</tns:resolution> <tns:opticalResolution nameOfTarget="">{0,1}</tns:opticalResolution> <tns:noise nameOfTarget="">{0,1}</tns:noise> </tns:generalMeasurements> </pre>
Source	<pre> <xs:element name="generalMeasurements" type="tns:generalMeasurementsType"> <xs:annotation> <xs:documentation>Image quality measurements other than exposure and color accuracy, generally with a time frame of validity that is longer than a single day</xs:documentation> </xs:annotation> </xs:element> </pre>

Element tns:generalMeasurementsType / 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 onxslly for element that corresponds to the size of the current object

Diagram				
Type	tns:illuminationUniformityType			
Properties	content: complex minOccurs: 0			
Model	tns:illuminationUniformityValue , tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement			
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:illuminationUniformityValue			
Instance	<pre><tns:illuminationUniformity nameOfTarget="" 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>			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre><xs:element name="illuminationUniformity" type="tns:illuminationUniformityType" minOccurs="0"> <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 onxslly 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	
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> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

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

Element `tns:generalMeasurementsType` / `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	<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																			
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="" nameOfTarget="" 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	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>measurementType</td><td>restriction of xs:string</td><td>required</td><td></td></tr><tr><td></td><td colspan="3">Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+-</td></tr><tr><td>nameOfTarget</td><td>tns:nameOfTargetRefType</td><td>required</td><td></td></tr></tbody></table>	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 ._%+-			nameOfTarget	tns:nameOfTargetRefType	required				
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 ._%+-																			
nameOfTarget	tns:nameOfTargetRefType	required																		
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> </xs:element></pre>																			

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: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	<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				
Source	<code><xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="0"/></code>				

Element tns:generalMeasurementsType / 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	The diagram illustrates the structure of the <code>resolution</code> element. It is an extension of the <code>xs:short</code> datatype. The <code>resolution</code> element has a documentation annotation: "The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element." The <code>resolution</code> element's content is of type <code>tns:resolution</code>, which is a complex type with a simple content extension of <code>xs:short</code>. This extension has a required attribute <code>nameOfTarget</code> of type <code>tns:nameOfTargetRefType</code>.								
Type	extension of xs:short								
Properties	content:	complex							
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th></tr></thead><tbody><tr><td>nameOfTarget</td><td>tns:nameOfTargetRefType</td><td>required</td></tr></tbody></table>	QName	Type	Use	nameOfTarget	tns:nameOfTargetRefType	required		
QName	Type	Use							
nameOfTarget	tns:nameOfTargetRefType	required							
Source	<pre><xs:element name="resolution"> <xs:annotation> <xs:documentation>The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:short"> <xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element></pre>								

Element tns:generalMeasurementsType / tns:opticalResolution

Namespace	kb.se/ns/image_capture_performance		
Annotations	The optical resolution of the image.		
Diagram			
Type	tns:opticalResolutionType		

Properties	content: complex			
	minOccurs: 0			
Model	tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement , tns:measuredResolution			
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:measuredResolution			
Instance	<pre><tns:opticalResolution nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:dateOfIlluminationMeasurement>{1,1}</tns:dateOfIlluminationMeasurement> <tns:daysSinceIlluminationMeasurement>{1,1}</tns:daysSinceIlluminationMeasurement> <tns:measuredResolution>{1,1}</tns:measuredResolution> </tns:opticalResolution></pre>			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre><xs:element name="opticalResolution" type="tns:opticalResolutionType" minOccurs="0"> <xs:annotation> <xs:documentation>The optical resolution of the image.</xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:opticalResolutionType / tns:dateOfIlluminationMeasurement

Namespace	kb.se/ns/image_capture_performance		
Annotations	Datetime of the last optical resolution measurement		
Diagram	The diagram illustrates the structure of the <code>dateOfIlluminationMeasurement</code> element. It is a complex type that contains a single child element of type <code>xs:dateTime</code>. A callout box explains that <code>xs:dateTime</code> is a built-in primitive type representing a specific instant of time.		
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 optical resolution measurement</xs:documentation> </xs:annotation> </xs:element></pre>		

Element tns:opticalResolutionType / tns:daysSinceIlluminationMeasurement

Namespace	kb.se/ns/image_capture_performance		
Annotations	Days since the last measurement of opticalResolution		measurement
Diagram	The diagram illustrates the structure of the <code>daysSinceIlluminationMeasurement</code> element. It is a complex type that contains a child element of type <code>restricts: xs:short</code>. A callout box indicates that this is a restriction of the <code>xs:short</code> type.		
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 measurement of opticalResolution measurement</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element tns:opticalResolutionType / tns:measuredResolution

Namespace	kb.se/ns/image_capture_performance		
Annotations	The measured optical resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element.		

Diagram	The measured optical resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this...				
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>minInclusive</td><td>0</td></tr> </table>	minInclusive	0		
minInclusive	0				
Source	<pre><xs:element minOccurs="1" name="measuredResolution"> <xs:annotation> <xs:documentation>The measured optical 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:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element></pre>				

Element tns:generalMeasurementsType / tns:noise

Namespace	kb.se/ns/image_capture_performance											
Annotations	Noise is computed as the standard deviation in the Y-channel											
Diagram												
Type	tns:noiseType											
Properties	<table><tr><td>content:</td><td>complex</td></tr><tr><td>minOccurs:</td><td>0</td></tr></table>				content:	complex	minOccurs:	0				
content:	complex											
minOccurs:	0											
Model	tns:patchNoise+ , tns:maxNoise											
Children	tns:maxNoise, tns:patchNoise											
Instance	<pre><tns:noise nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:patchNoise patchID="">{1,unbounded}</tns:patchNoise> <tns:maxNoise>{1,1}</tns:maxNoise> </tns:noise></pre>											
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>nameOfTarget</td><td>tns:nameOfTargetRefType</td><td>required</td><td></td></tr></tbody></table>	QName	Type	Use		nameOfTarget	tns:nameOfTargetRefType	required				
QName	Type	Use										
nameOfTarget	tns:nameOfTargetRefType	required										
Source	<pre><xs:element name="noise" type="tns:noiseType" minOccurs="0"> <xs:annotation> <xs:documentation>Noise is computed as the standard deviation in the Y-channel</xs:documentation> </xs:annotation> </xs:element></pre>											

Element tns:noiseType / tns:patchNoise

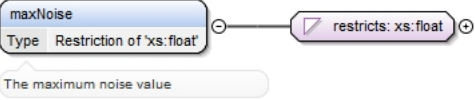
Namespace	kb.se/ns/image_capture_performance
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Annotations	Measured noise for individual patches			
Diagram				
Type	tns:patchNoiseType			
Properties	content:	complex		
	minOccurs:	1		
	maxOccurs:	unbounded		
Model	tns:noiseValue			
Children	tns:noiseValue			
Instance	<pre><tns:patchNoise patchID="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:noiseValue>{1,1}</tns:noiseValue> </tns:patchNoise></pre>			
Attributes	QName	Type	Use	
	patchID	restriction of xs:short	required	
Source	<pre><xs:element maxOccurs="unbounded" minOccurs="1" name="patchNoise" type="tns:patchNoiseType"> <xs:annotation> <xs:documentation>Measured noise for individual patches</xs:documentation> </xs:annotation> </xs:element></pre>			

Element tns:patchNoiseType / tns:noiseValue

Namespace	kb.se/ns/image_capture_performance		
Diagram			
Type	xs:float		
Properties	content:	simple	
	maxOccurs:	1	
Source	<xs:element maxOccurs="1" name="noiseValue" type="xs:float"/>		

Element tns:noiseType / tns:maxNoise

Namespace	kb.se/ns/image_capture_performance		
Annotations	The maximum noise value		
Diagram			
Type	restriction of xs:float		
Properties	content:	simple	
Facets	minInclusive	0	
Source	<pre><xs:element name="maxNoise"> <xs:annotation> <xs:documentation>The maximum noise value</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:float"></pre>		

```

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

```

Element `tns:imageQualityControlDataType` / `tns:qualityData`

Namespace	kb.se/ns/image_capture_performance
Annotations	Reference data for the quality measurements
Diagram	<pre> classDiagram class qualityData["qualityData
Type tns:qualityDataType"] class qualityLevelData["qualityLevelData
Type tns:qualityLevelType"] class targetData["targetData
Type tns:targetDataType"] class selectionBatchData["selectionBatchData
Type tns:selectionBatchDataType"] qualityData "1..∞" -- "1..∞" qualityLevelData qualityData "1..∞" -- "1..∞" targetData qualityData "1..1" -- "1..1" selectionBatchData </pre> The diagram illustrates the structure of the <code>tns:qualityDataType</code>. It is a complex type containing three elements: <code>qualityLevelData</code> (1..∞), <code>targetData</code> (1..∞), and <code>selectionBatchData</code> (1..1). Each element has its own type and description.
Type	<code>tns:qualityDataType</code>
Properties	content: complex
Model	<code>tns:qualityLevelData+</code> , <code>tns:targetData+</code> , <code>tns:selectionBatchData</code>
Children	<code>tns:qualityLevelData</code> , <code>tns:selectionBatchData</code> , <code>tns:targetData</code>
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{0,1} , tns:maxDeltaL , tns:meanDeltaC{0,1} , tns:maxDeltaC , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:resolution , tns:opticalResolution{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:opticalResolution , tns:resolution , 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>{0,1}</tns:meanDeltaL> <tns:maxDeltaL>{1,1}</tns:maxDeltaL> <tns:meanDeltaC>{0,1}</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:opticalResolution>{0,1}</tns:opticalResolution> <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> datatype 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		
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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

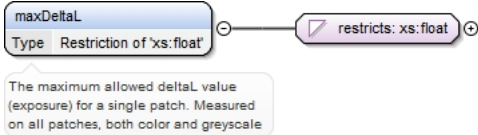
Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed deltaE value (color accuracy) for a single patch. Only measured on color patches
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	maxInclusive 347 minInclusive 0
Source	<pre> <xs:element name="maxDeltaE">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

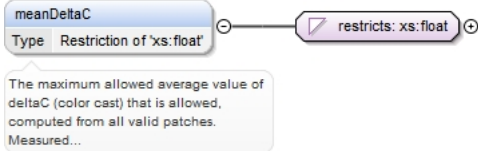
Namespace	kb.se/ns/image_capture_performance
Annotations	The maximum allowed average value of deltaL (exposure) that is allowed, computed from all valid patches. Measured on all patches, both color and greyscale
Diagram	

Type	restriction of xs:float	
Properties	content:	simple
	minOccurs:	0
Facets	maxInclusive	200
	minInclusive	0
Source	<pre> <xs:element name="meanDeltaL" minOccurs="0"> <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
	minOccurs:	0
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
	minOccurs:	0
Facets	maxInclusive	283

	minInclusive 0
Source	<pre> <xs:element name="meanDeltaC" minOccurs="0"> <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> </pre>

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	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	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>

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</xs:simpleType>
</xs:element>
```

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

Element tns:qualityLevelType / tns:opticalResolution

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="opticalResolution"> <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>
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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`

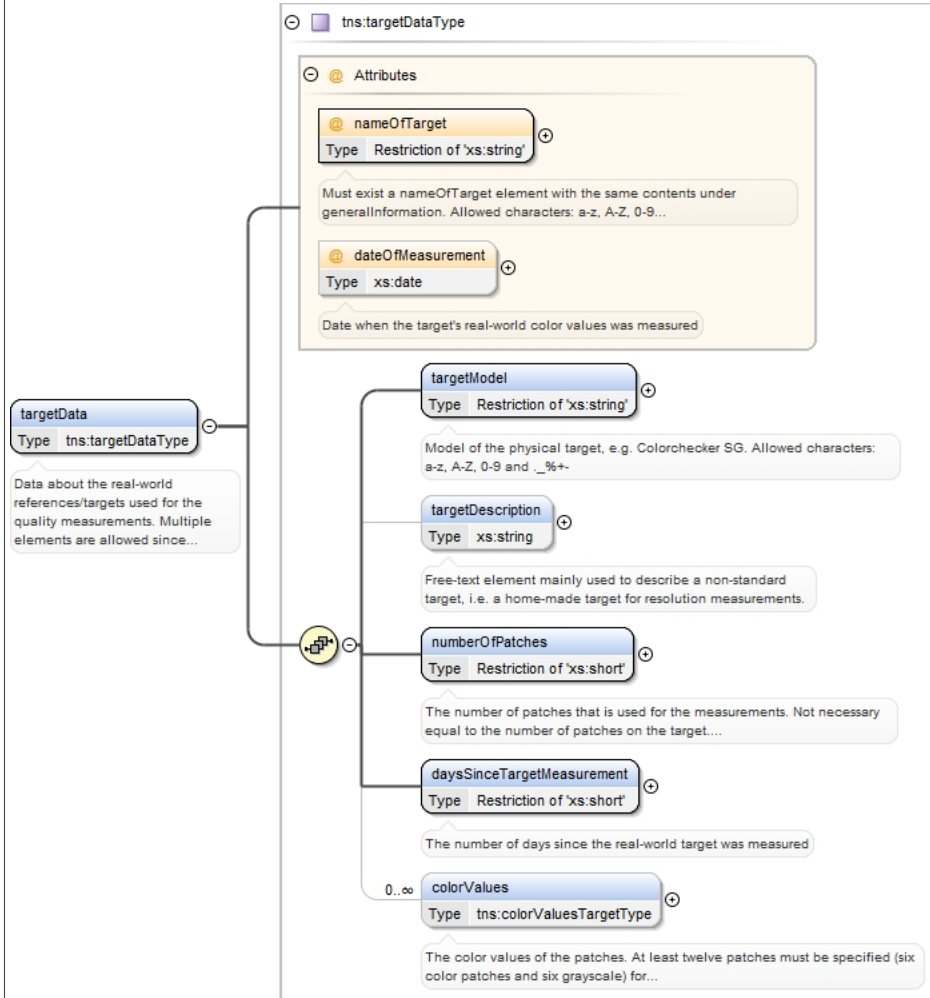
Namespace	kb.se/ns/image_capture_performance
Annotations	Maximum allowed gain modulation (tonseparation) for this range.
Diagram	
Type	restriction of xs:float
Properties	content: simple
Facets	minInclusive 0
Source	<pre> <xs:element name="maxGainModulationL85L10"> <xs:annotation> <xs:documentation xml:lang="eng">Maximum 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:targetModel , tns:targetDescription{0,1} , tns:numberOfPatches , tns:daysSinceTargetMeasurement , tns:colorValues*			
Children	tns:colorValues, tns:daysSinceTargetMeasurement, tns:numberOfPatches, tns:targetDescription, tns:targetModel			
Instance	<pre><tns:targetData dateOfMeasurement="" nameOfTarget="" xmlns:tns="kb.se/ns/image_capture_performance"> <tns:targetModel>{1,1}</tns:targetModel> <tns:targetDescription>{0,1}</tns:targetDescription> <tns:numberOfPatches>{1,1}</tns:numberOfPatches> <tns:daysSinceTargetMeasurement>{1,1}</tns:daysSinceTargetMeasurement> <tns:colorValues patchID="">{0,unbounded}</tns:colorValues> </tns:targetData></pre>			
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: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</pre>			

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>

Element tns:targetDataType / tns:targetModel

Namespace	kb.se/ns/image_capture_performance
Annotations	Model 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="targetModel"> <xs:annotation> <xs:documentation>Model 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:restriction> </xs:simpleType> </xs:element></pre>

Element tns:targetDataType / tns:targetDescription

Namespace	kb.se/ns/image_capture_performance
Annotations	Free-text element mainly used to describe a non-standard target, i.e. a home-made target for resolution measurements.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0
Source	<pre><xs:element name="targetDescription" minOccurs="0" type="xs:string"> <xs:annotation> <xs:documentation xml:lang="eng">Free-text element mainly used to describe a non-standard target, i.e. a home-made target for resolution measurements.</xs:documentation> </xs:annotation> </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 0
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="0"/> </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) for exposure and color accuracy targets.
Diagram	

Type	tns:colorValuesTargetType			
Properties	content:	complex		
	minOccurs:	0		
	maxOccurs:	unbounded		
Model	tns:L , tns:A , tns:B			
Children	tns:A, tns:B, tns:L			
Instance	<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>			
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:element maxOccurs="unbounded" minOccurs="0" 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) for exposure and color accuracy targets.</xs:documentation> </xs:annotation> </xs:element>			

Element tns:colorValuesTargetType / tns:L

Namespace	kb.se/ns/image_capture_performance		
Annotations	Allowed values 0 to 100.		
Diagram			
Type	restriction of xs:float		
Properties	content:	simple	
	minOccurs:	1	
Facets	maxInclusive	100	
	minInclusive	0	
Source	<pre><xs:element name="L" minOccurs="1"> <xs:annotation> <xs:documentation xml:lang="eng">Allowed values 0 to 100.</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: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

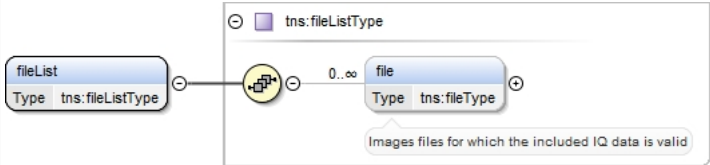
Namespace	kb.se/ns/image_capture_performance	
Annotations	Batch data related to the issue and the statistical quality control. See related documentation for more information	
Diagram		
Type	tns:selectionBatchDataType	
Properties	content:	complex
Model	tns:batchID	
Children	tns:batchID	
Instance	<pre> <tns:selectionBatchData selectionBatchID="" xmlns:tns="kb.se/ns/image_capture_performance"> </pre>	

	<code><tns:batchID>{1,1}</tns:batchID></code> <code></tns:selectionBatchData></code>			
Attributes	QName	Type	Use	
	selectionBatchID	xs:int	optional	
		The ID for the selection batch that contains the batchID		
Source	<code><xs:element name="selectionBatchData" type="tns:selectionBatchDataType"></code> <code><xs:annotation></code> <code><xs:documentation xml:lang="eng"></code> Batch data related to the issue and the statistical quality control. See related documentation for more information <code></xs:documentation></code> <code></xs:annotation></code> <code></xs:element></code>			

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	batchID Type xs:string xs:string Built-in primitive type. The string datatype represents character strings in XML. The id for the batch that the issue belongs to. OBS. Vilken datatyp ska det vara?		
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>		

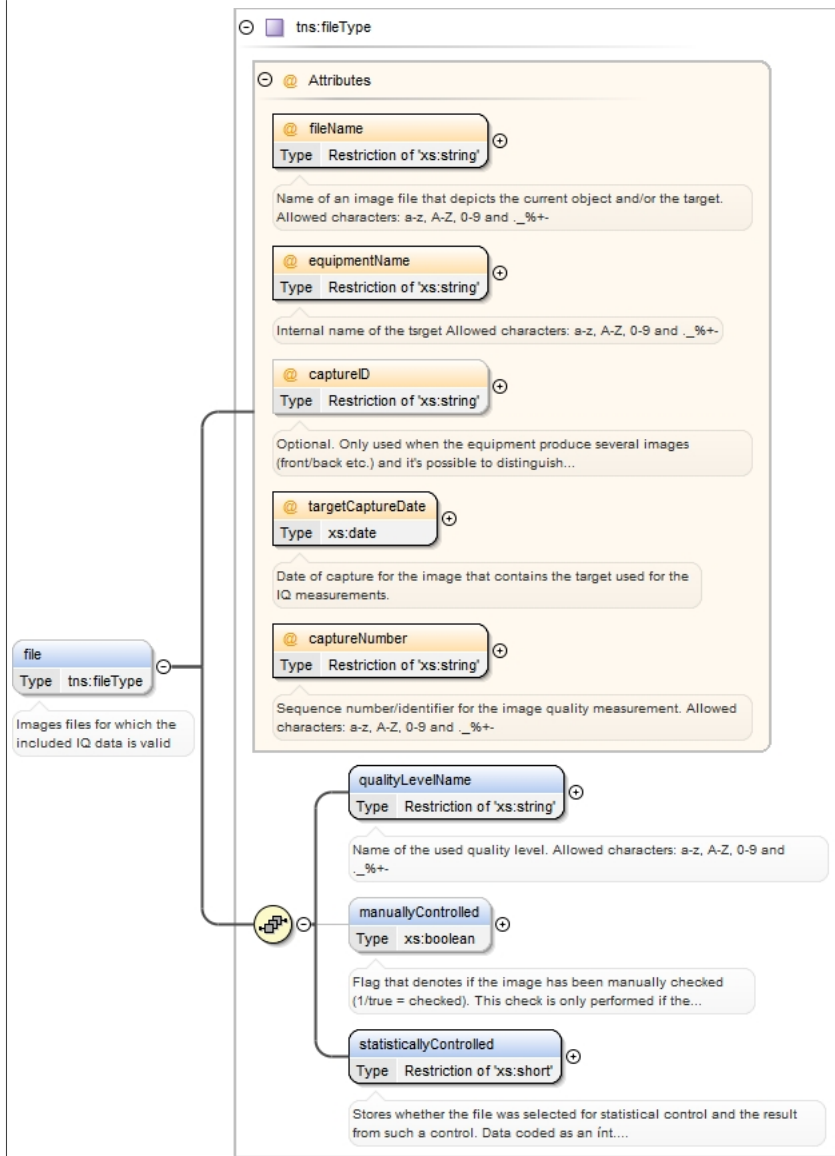
Element `tns:imageQualityControlDataType` / `tns:fileList`

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			
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> </xs:annotation> </xs:element></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:imageQuailtyControlDataType

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 the imageData element 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. For measurements that are valid for longer time frames, i.e. illumination uniformity, the measurement data are appended to the imageData element that contains the exposure and color accuracy measurements. This data cannot be stored separate instances of the element, as exposure and color accuracy data might not be obtainable in the illumination uniformity and noise measurements. 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:key name="nameOfTargetKey"> <xs:annotation> <xs:documentation xml:lang="eng">Within an imageData the generalInformation/targetData/ @nameOfTarget must be unique. This key is referenced by other elements under the same imageData element.</xs:documentation> </xs:annotation> <xs:selector xpath="./tns:generalInformation/tns:targetData"/> <xs:field xpath="@nameOfTarget"/> </xs:key> <xs:key name="patchIDKey"> <xs:selector xpath="./tns:generalInformation/tns:targetData/tns:center"/> <xs:field xpath="@patchID"/> </xs:key> <xs:keyref refer="tns:patchIDKey" name="refToPatchIDFromPatchMeasurementsPatch"> <xs:selector xpath="./tns:colorExposureMeasurements/tns:patchMeasurement"/> <xs:field xpath="@patchID"/> </xs:keyref> <xs:keyref refer="tns:patchIDKey" name="refToPatchIDFromNoise"> <xs:selector xpath="./tns:generalMeasurements/tns:noise/tns:patchNoise"/> <xs:field xpath="@patchID"/> </xs:keyref> <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFormIlluminationUniformity"> <xs:selector xpath="./tns:generalMeasurements/tns:illuminationUniformity"/> </pre>														

```

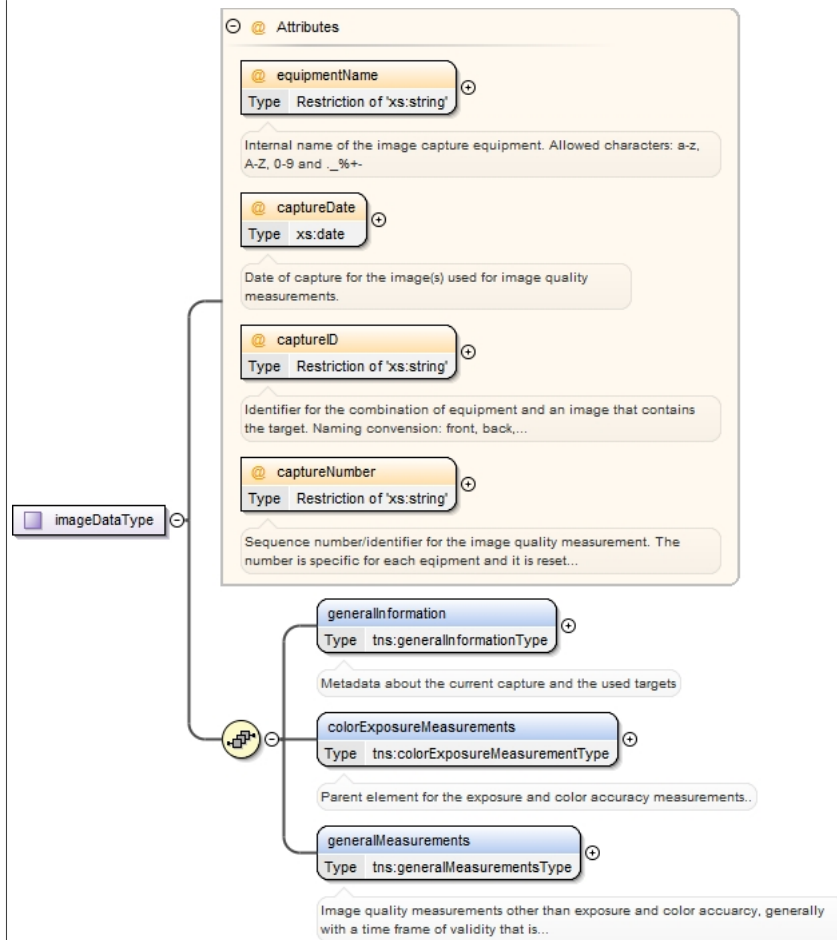
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
  <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromPeriodicMeasurement">
    <xs:selector xpath="./tns:generalMeasurements/tns:periodicMeasurement"/>
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
  <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromColorExposureMeasurements">
    <xs:selector xpath="./tns:colorExposureMeasurements"/>
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
  <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromOpticalResolution">
    <xs:selector xpath="./tns:generalMeasurements/tns:opticalResolution"/>
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
  <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromResolution">
    <xs:selector xpath="./tns:generalMeasurements/tns:resolution"/>
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
  <xs:keyref refer="tns:nameOfTargetKey" name="refToTargetNameFromNoise">
    <xs:selector xpath="./tns:generalMeasurements/tns:noise"/>
    <xs:field xpath="@nameOfTarget"/>
  </xs:keyref>
</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. Initially set to optional</
xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>

```

Complex Type tns:imageDataType

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

Diagram



Used by Element `tns:imageQualityControlDataType/tns:imageData`

Model `tns:generalInformation` , `tns:colorExposureMeasurements` , `tns:generalMeasurements`

Children `tns:colorExposureMeasurements`, `tns:generalInformation`, `tns:generalMeasurements`

Attributes	QName	Type	Use	
	captureDate	<code>xs:date</code>	required	
		Date of capture for the image(s) used for image quality measurements.		
	captureID	restriction of <code>xs:string</code>	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 <code>captureEquipment</code> . Allowed characters: a-z, A-Z, 0-9 and <code>._%+-</code>		
	captureNumber	restriction of <code>xs:string</code>	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 <code>._%+-</code>		
	equipmentName	restriction of <code>xs:string</code>	required	
		Internal name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and <code>._%+-</code>		

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 and the used targets</
xs:documentation>
</xs:annotation>
</xs:element>
<xs:element type="tns:colorExposureMeasurementType" name="colorExposureMeasurements">
  <xs:annotation>
    <xs:documentation xml:lang="eng">Parent element for the exposure and color accuracy
measurements..</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="generalMeasurements" type="tns:generalMeasurementsType">
  <xs:annotation>
    <xs:documentation>Image quality measurements other than exposure and color accuracy,
generally with a time frame of validity that is longer than a single day</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 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>
<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	<pre> graph LR GI[generalInformationType] -- optional --> EM[equipmentModel] GI -- "1..∞" --> TD[targetData] EM -- "Type: Restriction of 'xs:string'" --> EM TD -- "Type: tns:capturedTargetType" --> TD </pre> The model name of the image capture equipment. Allowed characters: a-z, A-Z, 0-9 and ._%+.
Used by	Element tns:imageDataType/tns:generalInformation
Model	tns:equipmentModel , tns:targetData+

Children	tns:equipmentModel, tns:targetData
Source	<pre> <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="targetData" type="tns:capturedTargetType" maxOccurs="unbounded" /> </xs:sequence> </xs:complexType> </pre>

Complex Type tns:capturedTargetType

Namespace	kb.se/ns/image_capture_performance
Diagram	<pre> graph TD capturedTargetType[capturedTargetType] capturedTargetType --> nameOfTarget[nameOfTarget] capturedTargetType --> dateOfPhysicalMeasurement[dateOfPhysicalMeasurement] capturedTargetType --> targetModel[targetModel] capturedTargetType --> dateOfTargetCapture[dateOfTargetCapture] capturedTargetType --> numberOfPatches[numberOfPatches] capturedTargetType --> dateOfProcessing[dateOfProcessing] capturedTargetType --> measurementArea[measurementArea] capturedTargetType --> targetUpsideDown[targetUpsideDown] capturedTargetType --> positionOfTarget[positionOfTarget] capturedTargetType --> center[center] </pre> Attributes: nameOfTarget: Type tns:nameOfTargetRefType dateOfPhysicalMeasurement: Type xs:date Date when the target's real-world color values was measured Child Elements: targetModel: Type Restriction of 'xs:string' The target model that was employed, e.g. ColorChecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+- dateOfTargetCapture: Type xs:dateTime Date of the capture of the image that contains the target. numberOfPatches: Type Restriction of 'xs:short' The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target.... dateOfProcessing: Type xs:dateTime Date when the image quality measurements for this target were performed measurementArea: Type xs:string The size of the area that was used for image quality measurements, in pixels. E.g. 10x10. targetUpsideDown: Type xs:boolean Indicates if the target's orientation with regard to the contents in the image. 0/false corresponds to the target being... positionOfTarget: Type tns:positionOfTargetType The target's coordinates in the reference image. Only included when we store the image that contains the target. center: Type Extension of 'tns:coordinateType' Coordinates for the center of the patch. Only used when the reference image, that contains the target, is saved.
Used by	Element tns:generalInformationType/tns:targetData

Model	tns:targetModel , tns:dateOfTargetCapture , tns:numberOfPatches , tns:dateOfProcessing , tns:measurementArea , tns:targetUpsideDown{0,1} , tns:positionOfTarget{0,1} , tns:center*			
Children	tns:center, tns:dateOfProcessing, tns:dateOfTargetCapture, tns:measurementArea, tns:numberOfPatches, tns:positionOfTarget, tns:targetModel, tns:targetUpsideDown			
Attributes	QName	Type	Use	
	dateOfPhysicalMeasurement	xs:date	optional	
		Date when the target's real-world color values was measured		
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre> <xs:complexType name="capturedTargetType"> <xs:sequence> <xs:element name="targetModel"> <xs:annotation> <xs:documentation xml:lang="eng">The target model that was employed, 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:restriction> </xs:simpleType> </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="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="0"/> </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 for this target were performed</xs:documentation> </xs:annotation> </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:documentation> </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:element name="center" minOccurs="0" maxOccurs="unbounded"> <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:complexType> <xs:complexContent> <xs:extension base="tns:coordinateType"> <xs:attribute name="patchID" use="required"> <xs:annotation> </pre>			

```

<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:extension>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/>
<xs:attribute name="dateOfPhysicalMeasurement" type="xs:date">
  <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: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:capturedTargetType/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:colorExposureMeasurementType

Namespace	kb.se/ns/image_capture_performance
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Diagram				
Used by	Element	tns:imageDataType/tns:colorExposureMeasurements		
Model	tns:patchMeasurement{12,unbounded} , tns:aggregateMeasurements			
Children	tns:aggregateMeasurements, tns:patchMeasurement			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre><xs:complexType name="colorExposureMeasurementType"> <xs:sequence> <xs:element type="tns:patchType" name="patchMeasurement" 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: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="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/> </xs:complexType></pre>			

Complex Type tns:patchType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:colorExposureMeasurementType/tns:patchMeasurement
Model	tns:colorValues , tns:deltaE , tns:deltaL{0,1} , tns:deltaC{0,1}

Children	tns:colorValues, tns:deltaC, tns:deltaE, tns:deltaL			
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:complexType name="patchType"> <xs:sequence> <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" minOccurs="0"> <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> <xs:element name="deltaC" minOccurs="0"> <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: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></pre>			

Complex Type tns:colorValuesType

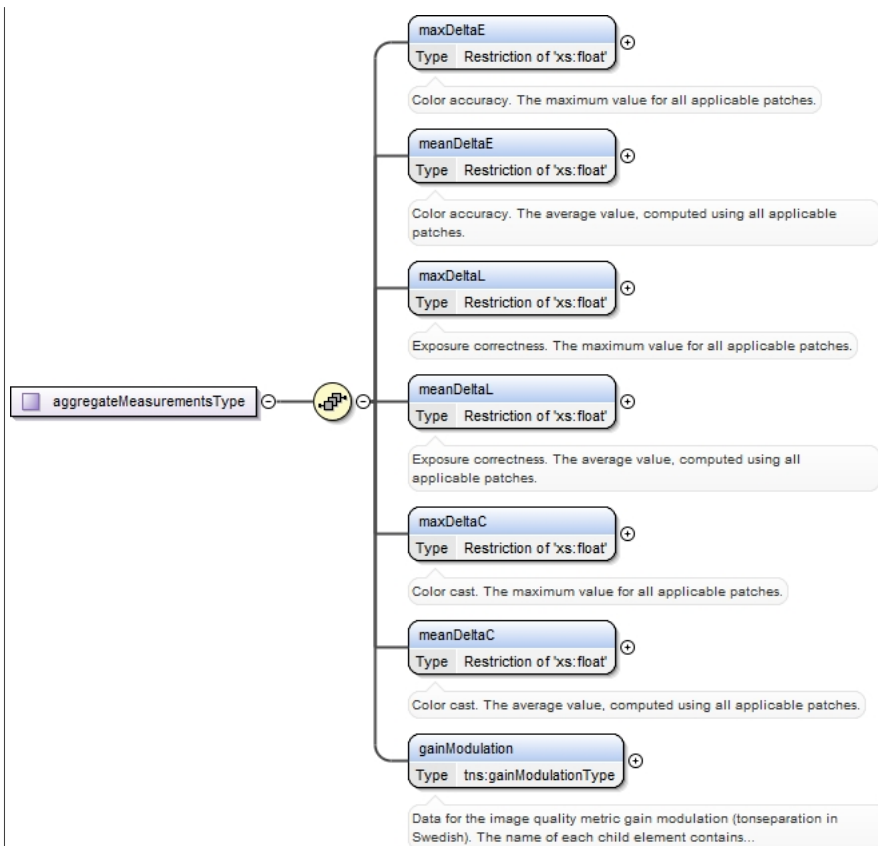
Namespace	kb.se/ns/image_capture_performance
Diagram	<pre> graph LR L[L] --- S(()) S --- A[A] S --- B[B] S --- noise[noise] subgraph colorValuesType [colorValuesType] L A B noise end </pre>

Used by	Element tns:patchType/tns:colorValues
Model	tns:L , tns:A , tns:B , tns:noise
Children	tns:A, tns:B, tns:L, tns:noise
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="-100"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="noise"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType></pre>

Complex Type tns:aggregateMeasurementsType

Namespace	kb.se/ns/image_capture_performance
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Diagram



Used by	Element tns:colorExposureMeasurementType/tns:aggregateMeasurements
Model	tns:maxDeltaE , tns:meanDeltaE , tns:maxDeltaL , tns:meanDeltaL , tns:maxDeltaC , tns:meanDeltaC , tns:gainModulation
Children	tns:gainModulation, tns:maxDeltaC, tns:maxDeltaE, tns:maxDeltaL, tns:meanDeltaC, tns:meanDeltaE, tns:meanDeltaL
Source	<pre> <xs:complexType name="aggregateMeasurementsType"> <xs:sequence> <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:sequence> </xs:complexType> </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>
<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: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> </pre>

```

<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:L95-L80Type"/>
    <xs:element name="L95-L90" minOccurs="0" type="tns:L95-L90Type"/>
  </xs:sequence>
  <xs:sequence>
    <xs:element name="L95-L90" type="tns:L95-L90Type"/>
  </xs:sequence>
</xs:choice>
<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="L85-L20" type="tns:L85-L20Type"/>
    <xs:element name="L85-L10" maxOccurs="1" minOccurs="0" type="tns:L85-L10Type"/>
  </xs:sequence>
  <xs:sequence>
    <xs:element name="L85-L10" maxOccurs="1" minOccurs="1" type="tns:L85-L10Type"/>
  </xs:sequence>
</xs:choice>
</xs:sequence>
</xs:complexType>

```

Complex Type tns:L95-L80Type

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 metric is intened to be used at measurement time			
Diagram				
Used by	Element	tns:gainModulationType/tns:L95-L80		
Model	tns:value			
Children	tns:value			
Attributes	QName	Type	Use	
	measuredSeparation		optional	
	The actual interval/separation that was used for the measurement. L*95-L*80,L*95-L*80, or L*90-L*80 is the target, but the target patches might result in a slightly different interval.			
Source	<pre><xs:complexType name="L95-L80Type"> <xs:annotation> <xs:documentation>This is a composite entry for the following ranges: L*95-L*85, L*95-L*80, L*90-L*80. Only a single metric is intened to be used at measurement time</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*95- L*80,L*95-L*80, or L*90-L*80 is the target, but the target patches might result in a slightly different interval.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>			

Complex Type tns:L95-L90Type

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													
Used by	Element	tns:gainModulationType/tns:L95-L90											
Model	tns:value												
Children	tns:value												
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>measuredSeparation</td><td></td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.</td></tr></tbody></table>	QName	Type	Use		measuredSeparation		optional			The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.		
QName	Type	Use											
measuredSeparation		optional											
	The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.												
Source	<pre><xs:complexType name="L95-L90Type"> <xs:annotation> <xs:documentation>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:sequence> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.</ xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>												

Complex Type tns:L85-L20Type

Namespace	kb.se/ns/image_capture_performance		
Annotations			
Diagram	The diagram illustrates the structure of the <code>L85-L20Type</code> complex type. It consists of a base type <code>L85-L20Type</code> (represented by a purple box) which is connected to a container box. This container box has two main components: an <code>Attributes</code> section (yellow box) and a <code>value</code> section (blue box). The <code>Attributes</code> section contains a single attribute named <code>measuredSeparation</code> (yellow box). A note next to this attribute states: "The actual interval/separation that was used for the measurement. L85-L*20 is the target, but the target patches might...". The <code>value</code> section contains a <code>value</code> element (blue box) with a note: "Restriction of 'xs:float'".		
Used by	Element	tns:gainModulationType/tns:L85-L20	
Model	tns:value		
Children	tns:value		
Attributes	QName	Type	Use
	measuredSeparation		optional

	QName	Type	Use
		The actual interval/separation that was used for the measurement. L85-L*20 is the target, but the target patches might result in a slightly different interval.	
Source	<pre> <xs:complexType name="L85-L20Type"> <xs:annotation> <xs:documentation/> </xs:annotation> <xs:sequence> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L85-L*20 is the target, but the target patches might result in a slightly different interval.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>		

Complex Type tns:L85-L10Type

Namespace	kb.se/ns/image_capture_performance		
Annotations			
Diagram			
Used by	Element	tns:gainModulationType/tns:L85-L10	
Model	tns:value		
Children	tns:value		
Attributes	QName	Type	Use
	measuredSeparation		optional
		The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.	
Source	<pre><xs:complexType name="L85-L10Type"> <xs:annotation> <xs:documentation/> </xs:annotation> <xs:sequence> <xs:element name="value"> <xs:simpleType> <xs:restriction base="xs:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>		

Complex Type **tns:generalMeasurementsType**

Namespace	kb.se/ns/image_capture_performance
Diagram	
Used by	Element tns:imageDataType/tns:generalMeasurements
Model	tns:illuminationUniformity{0,1} , tns:periodicMeasurement* , tns:resolution , tns:opticalResolution{0,1} , tns:noise{0,1}
Children	tns:illuminationUniformity, tns:noise, tns:opticalResolution, tns:periodicMeasurement, tns:resolution
Source	<pre> <xs:complexType name="generalMeasurementsType"> <xs:sequence> <xs:element name="illuminationUniformity" type="tns:illuminationUniformityType" minOccurs="0"> <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 onxslly 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:element name="resolution"> <xs:annotation> <xs:documentation>The computed resolution for the captured image, measured in ppi. The nominal resolution is not allowed in this element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:short"> <xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> <xs:element name="opticalResolution" type="tns:opticalResolutionType" minOccurs="0"> <xs:annotation> <xs:documentation>The optical resolution of the image.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="noise" type="tns:noiseType" minOccurs="0"> <xs:annotation> <xs:documentation>Noise is computed as the standard deviation in the Y-channel</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </pre>

</xs:complexType>

Complex Type tns:illuminationUniformityType

Namespace	kb.se/ns/image_capture_performance								
Diagram									
Used by	Element	tns:generalMeasurementsType/tns:illuminationUniformity							
Model	tns:illuminationUniformityValue , tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement								
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:illuminationUniformityValue								
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th></tr></thead><tbody><tr><td>nameOfTarget</td><td>tns:nameOfTargetRefType</td><td>required</td></tr></tbody></table>	QName	Type	Use	nameOfTarget	tns:nameOfTargetRefType	required		
QName	Type	Use							
nameOfTarget	tns:nameOfTargetRefType	required							
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:annotation> </xs:element> <xs:element name="daysSinceIlluminationMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Days since the last illumination uniformity measurement</ </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/> </xs:complexType></pre>								

Complex Type tns:periodicMeasurement

Namespace	kb.se/ns/image_capture_performance																			
Diagram																				
Used by	Element	tns:generalMeasurementsType/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	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>measurementType</td><td>restriction of xs:string</td><td>required</td><td></td></tr><tr><td></td><td colspan="3">Type of measurement, e.g. sharpness, stitching etc. Allowed characters: a-z, A-Z, 0-9 and ._%+~</td></tr><tr><td>nameOfTarget</td><td>tns:nameOfTargetRefType</td><td>required</td><td></td></tr></tbody></table>	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 ._%+~			nameOfTarget	tns:nameOfTargetRefType	required				
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 ._%+~																			
nameOfTarget	tns:nameOfTargetRefType	required																		
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"/> <xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="0"/> </xs:sequence> </xs:choice> </xs:sequence> </xs:complexType></pre>																			

```

<xs:element name="resultNumeric" type="tns:resultNumericType" minOccurs="1"/>
</xs:sequence>
</xs:choice>
</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:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/>
</xs:complexType>

```

Complex Type tns:opticalResolutionType

Namespace	kb.se/ns/image_capture_performance			
Diagram				
Used by	Element	tns:generalMeasurementsType/tns:opticalResolution		
Model	tns:dateOfIlluminationMeasurement , tns:daysSinceIlluminationMeasurement , tns:measuredResolution			
Children	tns:dateOfIlluminationMeasurement, tns:daysSinceIlluminationMeasurement, tns:measuredResolution			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre><xs:complexType name="opticalResolutionType"> <xs:sequence> <xs:element name="dateOfIlluminationMeasurement" type="xs:dateTime"> <xs:annotation> <xs:documentation xml:lang="eng">Datetime of the last optical resolution measurement</ xs:documentation> </xs:annotation> </xs:element> <xs:element name="daysSinceIlluminationMeasurement"> <xs:annotation> <xs:documentation xml:lang="eng">Days since the last measurement of opticalResolution measurement</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element minOccurs="1" name="measuredResolution"> <xs:annotation> <xs:documentation>The measured optical 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:float"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType></pre>			

```

    </xs:simpleType>
  </xs:element>
</xs:sequence>
<xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/>
</xs:complexType>

```

Complex Type tns:noiseType

Namespace	kb.se/ns/image_capture_performance			
Diagram				
Used by	Element tns:generalMeasurementsType/tns:noise			
Model	tns:patchNoise+, tns:maxNoise			
Children	tns:maxNoise, tns:patchNoise			
Attributes	QName	Type	Use	
	nameOfTarget	tns:nameOfTargetRefType	required	
Source	<pre> <xs:complexType name="noiseType"> <xs:sequence> <xs:element maxOccurs="unbounded" minOccurs="1" name="patchNoise" type="tns:patchNoiseType"> <xs:annotation> <xs:documentation>Measured noise for individual patches</xs:documentation> </xs:annotation> </xs:element> <xs:element name="maxNoise"> <xs:annotation> <xs:documentation>The maximum noise value</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="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/> </xs:complexType> </pre>			

Complex Type tns:patchNoiseType

Namespace	kb.se/ns/image_capture_performance			
Diagram				
Used by	Element tns:noiseType/tns:patchNoise			
Model	tns:noiseValue			
Children	tns:noiseValue			
Attributes	QName	Type	Use	
	patchID	restriction of xs:short	required	

Source	<pre> <xs:complexType name="patchNoiseType"> <xs:sequence> <xs:element maxOccurs="1" name="noiseValue" type="xs:float"/> </xs:sequence> <xs:attribute name="patchID" use="required"> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>
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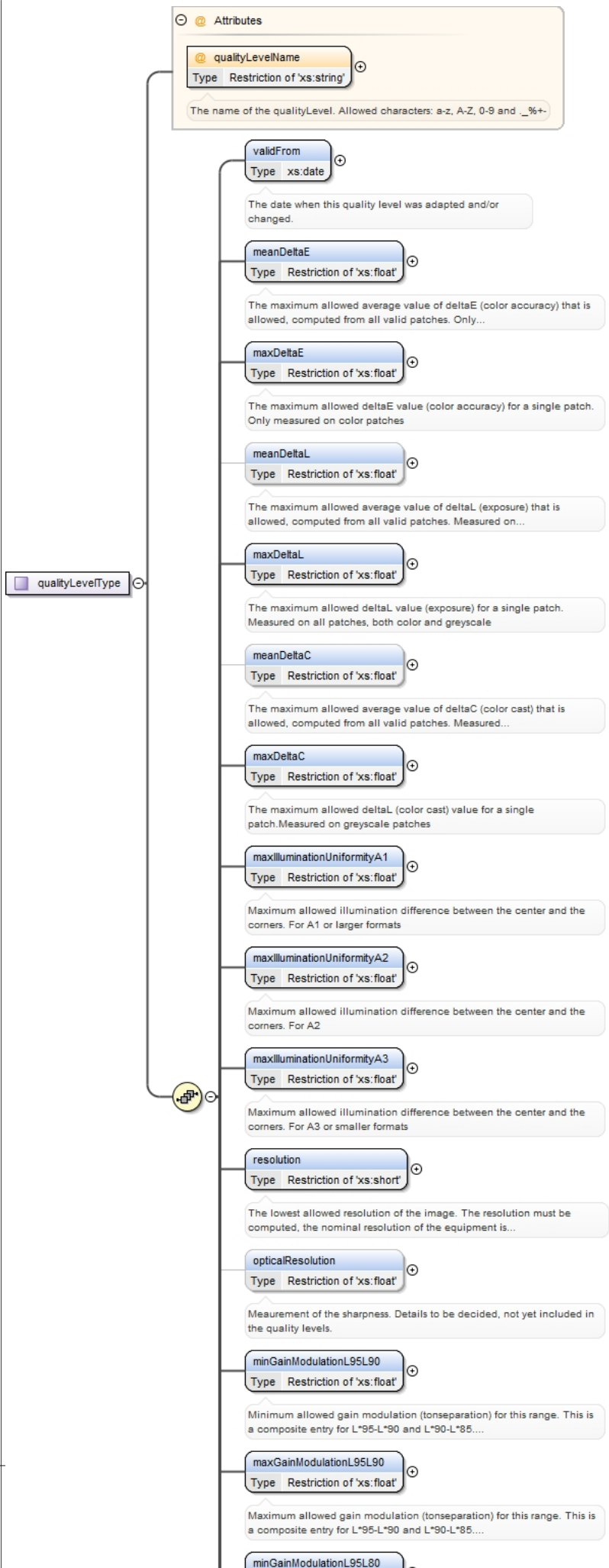
Complex Type tns:qualityDataType

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 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> <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
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Diagram



Used by	tns:qualityDataType/tns:qualityLevelData			
Model	tns:validFrom , tns:meanDeltaE , tns:maxDeltaE , tns:meanDeltaL{0,1} , tns:maxDeltaL , tns:meanDeltaC{0,1} , tns:maxDeltaC , tns:maxIlluminationUniformityA1 , tns:maxIlluminationUniformityA2 , tns:maxIlluminationUniformityA3 , tns:resolution , tns:opticalResolution{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:opticalResolution, tns:resolution, 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" minOccurs="0"> <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" minOccurs="0"> <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:short">
            <xs:minInclusive value="0"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element minOccurs="0" name="opticalResolution">
    <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

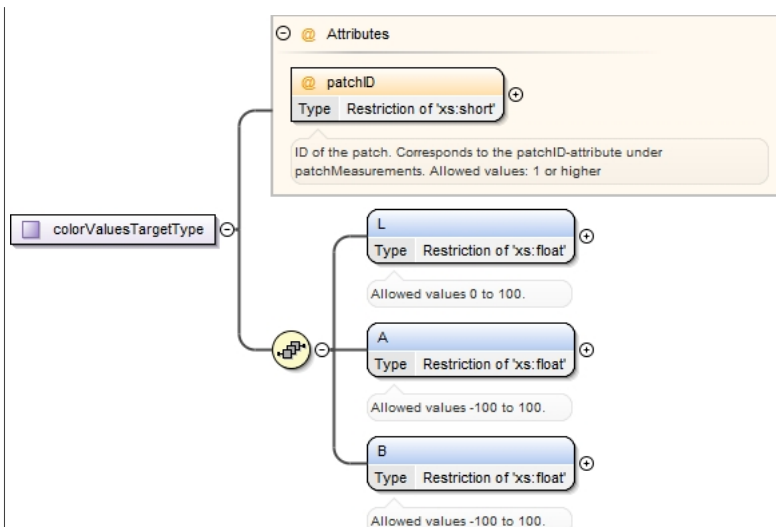
Namespace	kb.se/ns/image_capture_performance		
Diagram	Attributes nameOfTarget Type Restriction of 'xs:string' Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9... dateOfMeasurement Type xs:date Date when the target's real-world color values was measured targetDataType targetModel Type Restriction of 'xs:string' Model of the physical target, e.g. Colorchecker SG. Allowed characters: a-z, A-Z, 0-9 and ._%+- targetDescription Type xs:string Free-text element mainly used to describe a non-standard target, i.e. a home-made target for resolution measurements. numberOfPatches Type Restriction of 'xs:short' The number of patches that is used for the measurements. Not necessary equal to the number of patches on the target.... daysSinceTargetMeasurement Type Restriction of 'xs:short' The number of days since the real-world target was measured 0..∞ colorValues Type tns:colorValuesTargetType The color values of the patches. At least twelve patches must be specified (six color patches and six grayscale) for...		
Used by	Element	tns:qualityDataType/tns:targetData	
Model	tns:targetModel , tns:targetDescription{0,1} , tns:numberOfPatches , tns:daysSinceTargetMeasurement , tns:colorValues*		
Children	tns:colorValues, tns:daysSinceTargetMeasurement, tns:numberOfPatches, tns:targetDescription, tns:targetModel		
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		

QName	Type	Use
	under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+-	
Source	<pre> <xs:complexType name="targetDataType"> <xs:sequence> <xs:element name="targetModel"> <xs:annotation> <xs:documentation>Model 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:restriction> </xs:simpleType> </xs:element> <xs:element name="targetDescription" minOccurs="0" type="xs:string"> <xs:annotation> <xs:documentation xml:lang="eng">Free-text element mainly used to describe a non-standard target, i.e. a home-made target for resolution measurements.</xs:documentation> </xs:annotation> </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="0"/> </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="0" 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) for exposure and color accuracy targets.</ 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> </pre>	

Complex Type tns:colorValuesTargetType

Namespace	kb.se/ns/image_capture_performance
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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 <code>xs:short</code>	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 0 to 100.</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="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>												

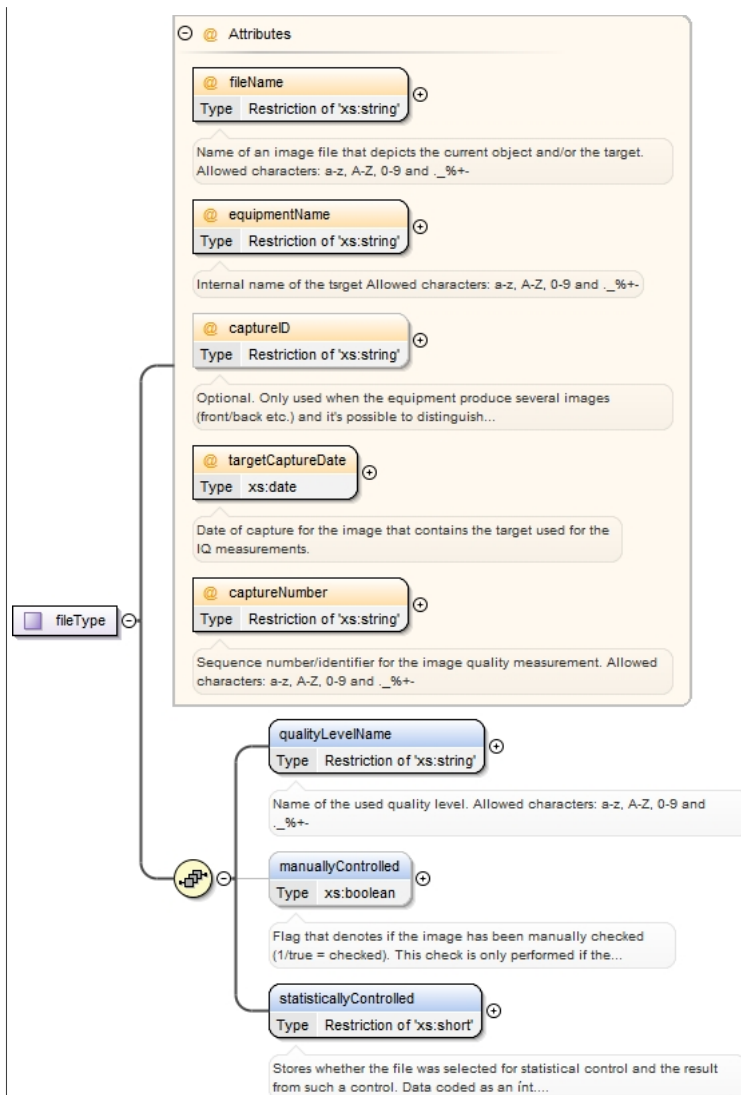
Complex Type tns:fileListType

Namespace	kb.se/ns/image_capture_performance		
Diagram	<pre>classDiagram class fileListType { file tns:fileType 0..∞ } note for fileListType "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			
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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:nameOfTargetRefType

Namespace	kb.se/ns/image_capture_performance
Annotations	Must exist a nameOfTarget element with the same contents under generalInformation. Allowed characters: a-z, A-Z, 0-9 and ._%+~
Diagram	
Type	restriction of xs:string
Facets	pattern [a-zA-Z0-9._%+~]+
Used by	Attributes: tns:capturedTargetType/@nameOfTarget, tns:colorExposureMeasurementType/@nameOfTarget, tns:generalMeasurementsType/tns:resolution/@nameOfTarget, tns:illuminationUniformityType/@nameOfTarget, tns:noiseType/@nameOfTarget, tns:opticalResolutionType/@nameOfTarget, tns:periodicMeasurement/@nameOfTarget
Source	<pre> <xs:simpleType name="nameOfTargetRefType"> <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:restriction base="xs:string"> <xs:pattern value="[a-zA-Z0-9._%+~]+" /> </xs:restriction> </xs:simpleType> </pre>

Simple Type tns:illuminationUniformityValueType

Namespace	kb.se/ns/image_capture_performance
Diagram	
Type	restriction of xs:float

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

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>	

Namespace: ""

Attribute(s)

Attribute tns:capturedTargetType / tns:center / @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	Element tns:capturedTargetType/tns:center
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:capturedTargetType / @nameOfTarget

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:capturedTargetType
Source	<pre><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></pre>

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 tns:capturedTargetType
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:documentation> </xs:annotation> </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:L95-L80Type / @measuredSeparation

Namespace	No namespace
Annotations	The actual interval/separation that was used for the measurement. L*95-L*80, L*95-L*80, or L*90-L*80 is the target, but the target patches might result in a slightly different interval.
Used by	Complex Type tns:L95-L80Type
Source	<pre><xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*95- L*80, L*95-L*80, or L*90-L*80 is the target, but the target patches might result in a slightly different interval.</xs:documentation> </xs:annotation> </xs:attribute></pre>

Attribute tns:L95-L90Type / @measuredSeparation

Namespace	No namespace
Annotations	The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.
Used by	Complex Type tns:L95-L90Type
Source	<pre><xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*95-L*90 or L*90-L*85 is the target, but the target patches might result in a slightly different interval.</ xs:documentation> </xs:annotation> </xs:attribute></pre>

Attribute tns:L85-L20Type / @measuredSeparation

Namespace	No namespace
Annotations	The actual interval/separation that was used for the measurement. L85-L*20 is the target, but the target patches might result in a slightly different interval.
Used by	Complex Type tns:L85-L20Type
Source	<pre><xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L85- L*20 is the target, but the target patches might result in a slightly different interval.</ xs:documentation> </xs:annotation> </xs:attribute></pre>

Attribute tns:L85-L10Type / @measuredSeparation

Namespace	No namespace
Annotations	The actual interval/separation that was used for the measurement. L*85-L*10 is the target, but the target patches might result in a slightly different interval.
Used by	Complex Type tns:L85-L10Type
Source	<pre><xs:attribute name="measuredSeparation"> <xs:annotation> <xs:documentation>The actual interval/separation that was used for the measurement. L*85- L*10 is the target, but the target patches might result in a slightly different interval.</ xs:documentation> </xs:annotation> </xs:attribute></pre>

Attribute tns:colorExposureMeasurementType / @nameOfTarget

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:colorExposureMeasurementType

Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>
--------	--

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

Namespace	No namespace
Type	restriction of xs:string
Properties	use: required
Facets	enumeration A1
	enumeration A2
	enumeration A3
Used by	Element tns:illuminationUniformityType/tns:illuminationUniformityValue
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:illuminationUniformityType** / **@nameOfTarget**

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:illuminationUniformityType
Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>

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 [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:periodicMeasurement
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:periodicMeasurement** / **@nameOfTarget**

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+

Used by	Complex Type tns:periodicMeasurement
Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>

Attribute tns:generalMeasurementsType / tns:resolution / @nameOfTarget

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Element tns:generalMeasurementsType/tns:resolution
Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>

Attribute tns:opticalResolutionType / @nameOfTarget

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:opticalResolutionType
Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>

Attribute tns:patchNoiseType / @patchID

Namespace	No namespace
Type	restriction of xs:short
Properties	use: required
Facets	minInclusive 1
Used by	Complex Type tns:patchNoiseType
Source	<pre><xs:attribute name="patchID" use="required"> <xs:simpleType> <xs:restriction base="xs:short"> <xs:minInclusive value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

Attribute tns:noiseType / @nameOfTarget

Namespace	No namespace
Type	tns:nameOfTargetRefType
Properties	use: required
Facets	pattern [a-zA-Z0-9._%+ -]+
Used by	Complex Type tns:noiseType
Source	<code><xs:attribute name="nameOfTarget" use="required" type="tns:nameOfTargetRefType"/></code>

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 ._%+</xs:documentation>
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 ._%+</xs:documentation>
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: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>

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:documentation> </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:documentation> </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	<pre> <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:annotation> </xs:attribute> </pre>

Attribute tns:manuallyControlledFileType / tns:fileName / @result

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