

Data dictionary for QIF Library Statistics.xsd (normative)

schema location: ..**QIFLibrary\Statistics.xsd**
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://qifstandards.org/xsd/qif2**

Complex types

[ActualSubgroupType](#)
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[AngleCharacteristicStatsEvalType](#)
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[CurveLengthCharacteristicStatsEvalType](#)
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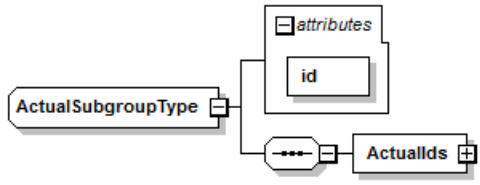
Simple types

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[ExclusionEnumType](#)
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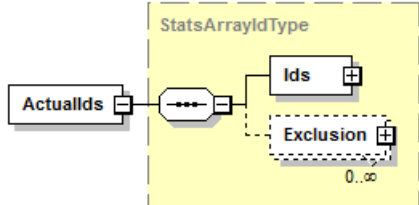
complexType ActualSubgroupType

diagram						
children	ActualIds					
used by	element	CharacteristicStatsEvalBaseType/Subgroup				
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the subgroup, used for referencing.
annotation	documentation The ActualSubgroupType defines a list of characteristics contained in a subgroup and assigns an id for referencing.					

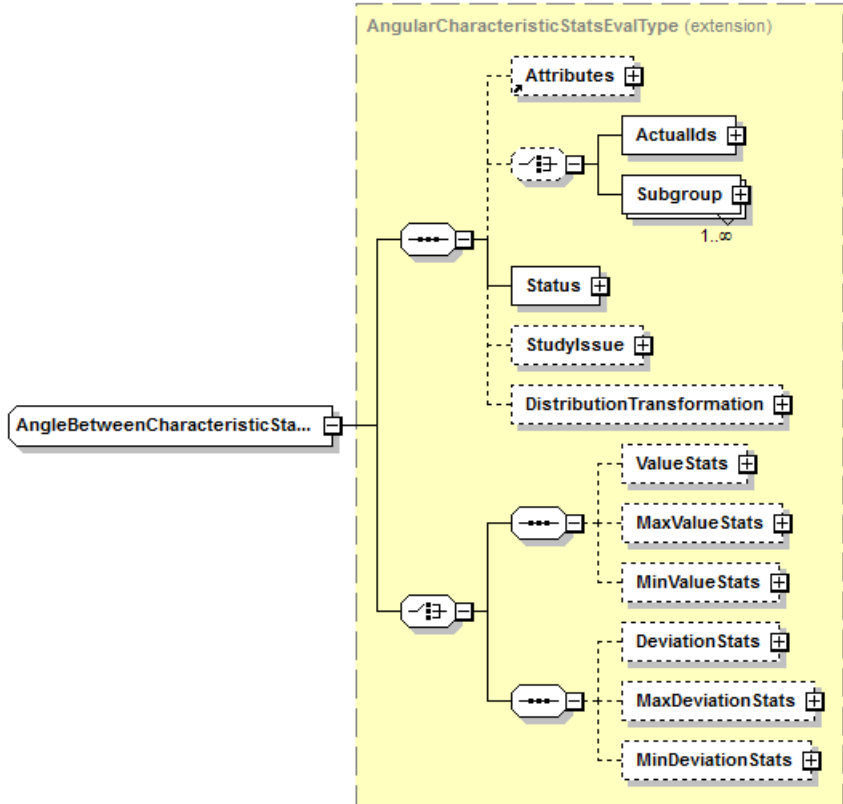
attribute **ActualSubgroupType/@id**

type	QIFIdType
properties	use required
annotation	documentation The id attribute is the QIF id of the subgroup, used for referencing.

element **ActualSubgroupType/ActualIds**

diagram	 <p>The diagram shows the structure of the ActualIds element. It is a container for a sequence of Ids and an optional Exclusion. The Ids element is required (indicated by a '+' sign) and the Exclusion element is optional (indicated by a dashed box and a '+' sign). The ActualIds element is part of the StatsArrayIdType structure.</p>
type	StatsArrayIdType
properties	content complex
children	Ids Exclusion
annotation	documentation The ActualIds element contains a list of the characteristic actuals used in this subgroup.

complexType **AngleBetweenCharacteristicStatsEvalType**

diagram	 <p>The diagram shows the structure of the AngleBetweenCharacteristicStatsEvalType complex type. It is an extension of the AngularCharacteristicStatsEvalType. The structure includes the following elements:</p> <ul style="list-style-type: none"> Attributes (optional, indicated by a dashed box and a '+' sign) ActualIds (optional, indicated by a dashed box and a '+' sign) Subgroup (optional, indicated by a dashed box and a '+' sign, with a cardinality of 1..∞) Status (optional, indicated by a dashed box and a '+' sign) StudyIssue (optional, indicated by a dashed box and a '+' sign) DistributionTransformation (optional, indicated by a dashed box and a '+' sign) Value Stats (optional, indicated by a dashed box and a '+' sign) MaxValue Stats (optional, indicated by a dashed box and a '+' sign) MinValue Stats (optional, indicated by a dashed box and a '+' sign) Deviation Stats (optional, indicated by a dashed box and a '+' sign) MaxDeviation Stats (optional, indicated by a dashed box and a '+' sign) MinDeviation Stats (optional, indicated by a dashed box and a '+' sign)
type	extension of AngularCharacteristicStatsEvalType

properties	base AngularCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element AngleBetweenCharacteristicStats
annotation	documentation The AngleBetweenCharacteristicStatsEvalType defines the results of a statistical evaluation of actual angle-between characteristics.

complexType **AngleCharacteristicStatsEvalType**

diagram	
type	extension of AngularCharacteristicStatsEvalType
properties	base AngularCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element AngleCharacteristicStats
annotation	documentation The AngleCharacteristicActualType defines the results of a statistical evaluation of actual angle characteristics.

complexType **AngleFromCharacteristicStatsEvalType**

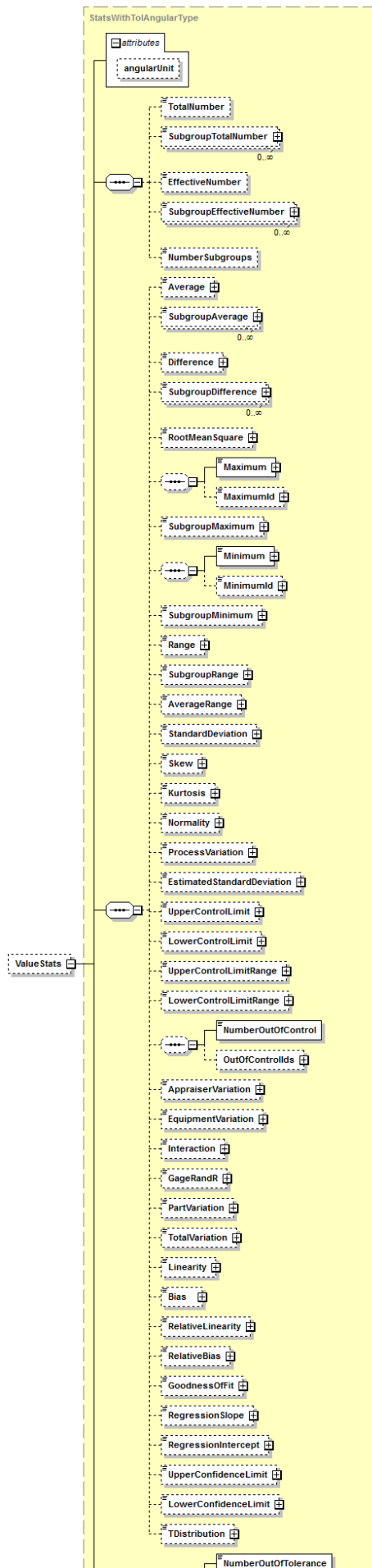
diagram	
type	extension of AngularCharacteristicStatsEvalType
properties	base AngularCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element AngleFromCharacteristicStats
annotation	<p>documentation</p> <p>The AngleFromCharacteristicActualType defines the results of a statistical evaluation of actual angle-from characteristics.</p>

complexType **AngularCharacteristicStatsEvalType**

diagram	
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element AngularCharacteristicStats complexTypes AngleBetweenCharacteristicStatsEvalType AngleCharacteristicStatsEvalType AngleFromCharacteristicStatsEvalType AngularCoordinateCharacteristicStatsEvalType
annotation	documentation The AngularCharacteristicStatsEvalType is the base type that defines the results of a statistical evaluation of measured values with angular units or their deviations from nominal. The type itself can be used to accumulate summary statistics over different types of angular characteristics.

element **AngularCharacteristicStatsEvalType/ValueStats**

diagram



type	StatsWithTolAngularType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name	Type	Use	Default	Fixed	Annotation
	angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **AngularCharacteristicStatsEvalType/MaxValueStats**

diagram	
type	StatsAngularType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

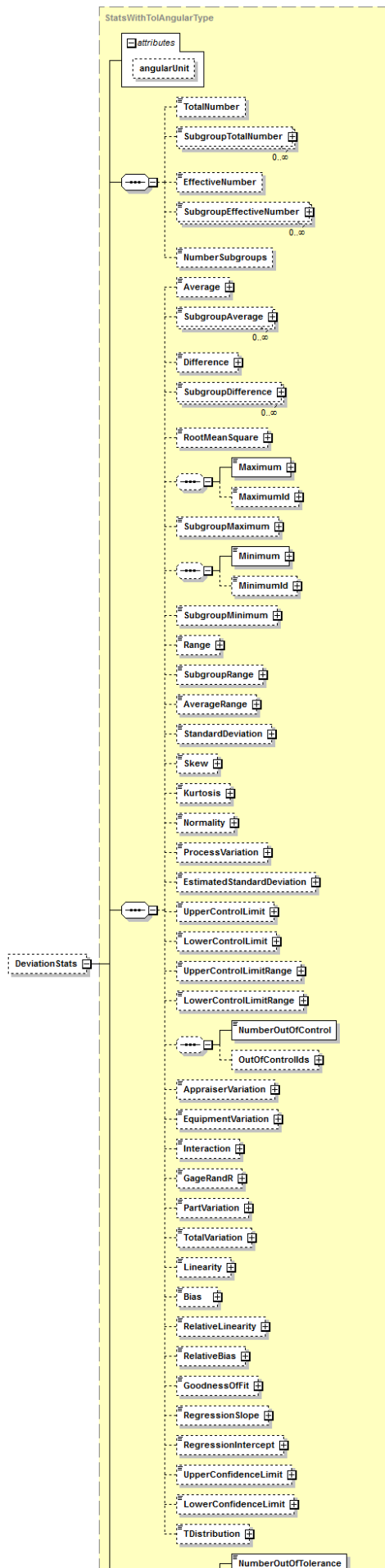
element **AngularCharacteristicStatsEvalType/MinValueStats**

diagram	
type	<u>StatsAngularType</u>

properties	minOcc0 maxOcc1 contentcomplex												
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution												
attributes	<table><tr><td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr><tr><td>angularUnit</td><td>xs:token</td><td></td><td></td><td></td><td>documentation The optional angularUnit attribute defines the unit used by StatsAngularType.</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
Name	Type	Use	Default	Fixed	Annotation								
angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsAngularType.								
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.												

element **AngularCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolAngularType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name	Type	Use	Default	Fixed	Annotation
	angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **AngularCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsAngularType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	<u>TDistribution</u>					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **AngularCharacteristicStatsEvalType/MinDeviationStats**



type	StatsAngularType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name	Type	Use	Default	Fixed	Annotation
	angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType [AngularCoordinateCharacteristicStatsEvalType](#)

diagram	
type	extension of AngularCharacteristicStatsEvalType
properties	base AngularCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats

used by	element AngularCoordinateCharacteristicStats
annotation	documentation The AngularCoordinateCharacteristicStatsEvalType defines the results of a statistical evaluation of actual angular coordinate characteristics.

complexType **AngularityCharacteristicStatsEvalType**

diagram	
type	extension of OrientationCharacteristicStatsEvalType
properties	base OrientationCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats BonusStats ReferenceLengthStats
used by	element AngularityCharacteristicStats
annotation	documentation The AngularityCharacteristicStatsEvalType defines the results of a statistical evaluation of actual angularity characteristics.

complexType **AssignableCausesType**

diagram	
children	AssignableCause
annotation	documentation The AssignableCausesType defines a list of assignable causes.

element **AssignableCausesType/AssignableCause**

diagram						
type	AssignableCauseType					
properties	minOcc	1	maxOcc	unbounded	content	complex
children	Attributes Description AssignableCauseEnum CorrectiveActionIds					
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the assignable cause, used for referencing.
annotation	documentation Each AssignableCause element gives information about the a particular assignable cause.					

complexType **AssignableCauseType**


diagram						
children	Attributes Description AssignableCauseEnum CorrectiveActionIds					
used by	element	AssignableCausesType/AssignableCause				
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the

		assignable cause, used for referencing.
annotation	documentation The AssignableCauseType defines a possible cause for a control issue and the action or actions to take.	

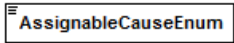
attribute AssignableCauseType/@id

type	QIFIdType
properties	use required
annotation	documentation The id attribute is the QIF id of the assignable cause, used for referencing.

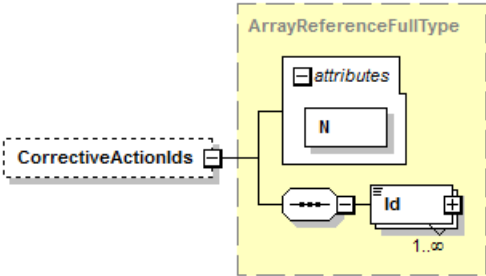
element AssignableCauseType/Description

diagram	
type	xs:string
properties	content simple
annotation	documentation The Description element describes an assignable cause for a control issue in natural language.

element AssignableCauseType/AssignableCauseEnum

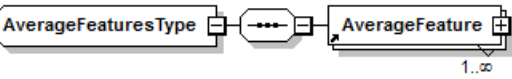
diagram	<div></div>																		
type	AssignableCauseEnumType																		
properties	content simple																		
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>POWER_FAILURE</td><td></td></tr><tr><td>enumeration</td><td>BROKEN_TOOL</td><td></td></tr><tr><td>enumeration</td><td>COMPUTER_CRASH</td><td></td></tr><tr><td>enumeration</td><td>WEATHER_EVENT</td><td></td></tr><tr><td>enumeration</td><td>OTHER</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	POWER_FAILURE		enumeration	BROKEN_TOOL		enumeration	COMPUTER_CRASH		enumeration	WEATHER_EVENT		enumeration	OTHER	
Kind	Value	Annotation																	
enumeration	POWER_FAILURE																		
enumeration	BROKEN_TOOL																		
enumeration	COMPUTER_CRASH																		
enumeration	WEATHER_EVENT																		
enumeration	OTHER																		
annotation	<div>documentation</div> <div>The AssignableCauseEnum element describes an assignable cause for a control issue as an enumeration of common causes.</div>																		

element AssignableCauseType/CorrectiveActionIds

diagram	
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type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional CorrectiveActionIds element is a list of the ids of the corrective actions to take when this cause is assigned to a control issue.					

complexType **AverageFeaturesType**

diagram	
children	AverageFeature
used by	element AverageFeatures
annotation	documentation The AverageFeaturesType defines a list of average features.

complexType **AverageFeatureType**

diagram	
children	FeatureActual ActualIds
used by	element AverageFeature
annotation	<p>documentation</p> <p>The AverageFeatureType defines a feature actual which is the average representation of a list of feature actuals.</p>

element **AverageFeatureType/ActualIds**

diagram	
type	StatsArrayIdType
properties	content complex
children	Ids Exclusion
annotation	documentation The ActualIds element contains a list of ids of the feature actuals used to calculate the average feature.

complexType CharacteristicsStatsType

[illegible]

complexType **CharacteristicStatsEvalBaseType**

diagram	
properties	abstract true
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation
used by	element CharacteristicStats complexTypes AngularCharacteristicStatsEvalType GeometricCharacteristicStatsEvalType LinearCharacteristicStatsEvalType SurfaceTextureCharacteristicStatsEvalType ThreadCharacteristicStatsEvalType UserDefinedAngularCharacteristicStatsEvalType UserDefinedAreaCharacteristicStatsEvalType UserDefinedAttributeCharacteristicStatsEvalType UserDefinedForceCharacteristicStatsEvalType UserDefinedLinearCharacteristicStatsEvalType UserDefinedMassCharacteristicStatsEvalType UserDefinedPressureCharacteristicStatsEvalType UserDefinedSpeedCharacteristicStatsEvalType UserDefinedTemperatureCharacteristicStatsEvalType UserDefinedTimeCharacteristicStatsEvalType UserDefinedUnitCharacteristicStatsEvalType
annotation	documentation The CharacteristicStatsEvalBaseType is the abstract base type that defines the results of a statistical evaluation for a set of characteristic actuals.

element **CharacteristicStatsEvalBaseType/ActualIds**

diagram	
type	StatsArrayIdType
properties	content complex
children	Ids Exclusion
annotation	documentation The ActualIds element contains a list of the characteristic actuals used in this statistical evaluation.

element **CharacteristicStatsEvalBaseType/Subgroup**

diagram						
type	ActualSubgroupType					
properties	minOcc	1	maxOcc	unbounded	content	complex
children	ActualIds					
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the subgroup, used for referencing.
annotation	documentation Each Subgroup element contains a list of the characteristic actuals used in a subgroup in this statistical evaluation.					

element **CharacteristicStatsEvalBaseType/Status**

diagram	<pre>graph LR Status[Status] --- StatsEvalStatusType subgraph StatsEvalStatusType [StatsEvalStatusType] StatsEvalStatusEnum[StatsEvalStatusEnum] OtherStatsEvalStatus[OtherStatsEvalStatus] end</pre>
type	StatsEvalStatusType
properties	content complex
children	StatsEvalStatusEnum OtherStatsEvalStatus
annotation	documentation The Status element is the overall status of the statistical evaluation of this characteristic.

element **CharacteristicStatsEvalBaseType/StudyIssue**

diagram						
type	StudyIssueType					
properties	minOcc	0	maxOcc	1	content	complex
children	Traceability AssignableCauseIds CorrectiveActionIds Resolution CharacteristicIds SubgroupIds					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	QIFIdType	required			documentation The id attribute is the QIF id of the study issue, used for referencing.
annotation	documentation Each optional StudyIssue element contains details of issues encountered in this statistical evaluation.					

element **CharacteristicStatsEvalBaseType/DistributionTransformation**

diagram						
type	DistributionTransformationType					
properties	minOcc	0	maxOcc	1	content	complex
children	DistributionTransformationEnum BoxCoxTransformation OtherDistributionTransformation					
annotation	documentation The optional DistributionTransformation element defines any distribution transformation that was applied to the raw characteristic values.					

complexType **ChordCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element ChordCharacteristicStats
annotation	<p>documentation</p> <p>The ChordCharacteristicStatsEvalType defines the results of a statistical evaluation of actual chord characteristics.</p>

complexType **CircularityCharacteristicStatsEvalType**

diagram	
type	extension of FormCharacteristicStatsEvalBaseType
properties	base FormCharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod MaxCircularityStats
used by	element CircularityCharacteristicStats
annotation	documentation The CircularityCharacteristicActualType defines the results of a statistical evaluation of actual circularity characteristics.

element **CircularityCharacteristicStatsEvalType/MaxCircularityStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	<u>TDistribution</u>					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxCircularityStats element is result of a statistical evaluation of the actual overall feature circularity when a per-unit-angle characteristic is used.					

complexType **CircularRunoutCharacteristicStatsEvalType**

diagram						
type	extension of RunoutCharacteristicStatsEvalBaseType					
properties	base RunoutCharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats					
used by	element CircularRunoutCharacteristicStats					
annotation	documentation The CircularRunoutCharacteristicStatsEvalType defines the results of a statistical evaluation of actual circular runout characteristics.					

complexType **CompositeSegmentPositionStatsEvalType**

diagram	
type	extension of CompositeSegmentStatsEvalBaseType
properties	base CompositeSegmentStatsEvalBaseType
children	ValueStats MaxValueStats MinValueStats
used by	elements CompositeSegmentsPositionStatsEvalType/FourthCompositeSegmentPositionStats CompositeSegmentsPositionStatsEvalType/SecondCompositeSegmentPositionStats CompositeSegmentsPositionStatsEvalType/ThirdCompositeSegmentPositionStats
annotation	documentation The CompositeSegmentPositionStatsEvalType defines the results of a statistical evaluation of an actual position composite segment.

complexType **CompositeSegmentProfileStatsEvalType**

diagram	
type	extension of CompositeSegmentStatsEvalBaseType
properties	base CompositeSegmentStatsEvalBaseType
children	ValueStats MaxValueStats MinValueStats
used by	elements CompositeSegmentsProfileStatsEvalType/FourthCompositeSegmentProfileStats CompositeSegmentsProfileStatsEvalType/SecondCompositeSegmentProfileStats CompositeSegmentsProfileStatsEvalType/ThirdCompositeSegmentProfileStats
annotation	documentation The CompositeSegmentProfileStatsEvalType defines the results of a statistical evaluation of an actual profile composite segment.

complexType **CompositeSegmentsPositionStatsEvalType**

diagram	
children	SecondCompositeSegmentPositionStats ThirdCompositeSegmentPositionStats FourthCompositeSegmentPositionStats
used by	element PositionCharacteristicStatsEvalType/CompositeSegmentsStats

annotation	documentation The CompositeSegmentsPositionStatsEvalType defines a list that contains information about position composite segment statistical evaluations.
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element **CompositeSegmentsPositionStatsEvalType/SecondCompositeSegmentPositionStats**

diagram	
type	CompositeSegmentPositionStatsEvalType
properties	content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The SecondCompositeSegmentPositionStats gives information about the results of a statistical evaluation of the second segment of a composite frame position characteristic.

element **CompositeSegmentsPositionStatsEvalType/ThirdCompositeSegmentPositionStats**

diagram	
type	CompositeSegmentPositionStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The optional ThirdCompositeSegmentPositionStats gives information about the results of a statistical evaluation of the third segment of a composite frame position characteristic.

element **CompositeSegmentsPositionStatsEvalType/FourthCompositeSegmentPositionStats**

diagram	
type	CompositeSegmentPositionStatsEvalType

properties	minOcc 0 maxOcc 1 content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The optional FourthCompositeSegmentPositionStats gives information about the results of a statistical evaluation of the third segment of a composite frame position characteristic. This element may be used only if the ThirdCompositeSegmentPositionStats element is used.

complexType CompositeSegmentsProfileStatsEvalType

diagram	
children	SecondCompositeSegmentProfileStats ThirdCompositeSegmentProfileStats FourthCompositeSegmentProfileStats
used by	element ProfileCharacteristicStatsEvalBaseType/CompositeSegmentsStats
annotation	documentation The CompositeSegmentsProfileStatsEvalType defines a list that contains information about profile composite segment statistical evaluations.

element CompositeSegmentsProfileStatsEvalType/SecondCompositeSegmentProfileStats

diagram	
type	CompositeSegmentProfileStatsEvalType
properties	content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The SecondCompositeSegmentProfileStats gives information about the results of a statistical evaluation of the second segment of a composite frame profile characteristic.

element CompositeSegmentsProfileStatsEvalType/ThirdCompositeSegmentProfileStats

diagram	
type	CompositeSegmentProfileStatsEvalType

properties	minOcc 0 maxOcc 1 content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The optional ThirdCompositeSegmentProfileStats gives information about the results of a statistical evaluation of the third segment of a composite frame profile characteristic.

element **CompositeSegmentsProfileStatsEvalType/FourthCompositeSegmentProfileStats**

diagram	<p>The diagram shows a yellow box labeled 'Composite SegmentProfile StatsEvalType'. Inside, there is a dashed box labeled 'FourthComposite SegmentProf...' connected to a central connector. To the right of the connector are three stacked boxes: 'Value Stats', 'MaxValue Stats', and 'MinValue Stats', each with a plus icon in the top right corner.</p>
type	CompositeSegmentProfileStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The optional FourthCompositeSegmentProfileStats gives information about the results of a statistical evaluation of the third segment of a composite frame profile characteristic. This element may be used only if the ThirdCompositeSegmentProfileStats element is used.

complexType **CompositeSegmentsSymmetryStatsEvalType**

diagram	<p>The diagram shows a box labeled 'Composite Segments Symmetry...' connected to a central connector. To the right of the connector are two stacked boxes: 'SecondComposite SegmentSy...' and 'ThirdComposite SegmentSym...', each with a plus icon in the top right corner.</p>
children	SecondCompositeSegmentSymmetryStats ThirdCompositeSegmentSymmetryStats
used by	element SymmetryCharacteristicStatsEvalType/CompositeSegmentsStats
annotation	documentation The CompositeSegmentsSymmetryStatsEvalType defines a list that contains information about symmetry composite segment statistical evaluations.

element **CompositeSegmentsSymmetryStatsEvalType/SecondCompositeSegmentSymmetryStats**

diagram	<p>The diagram shows a yellow box labeled 'Composite SegmentSymmetryStatsEvalType'. Inside, there is a box labeled 'SecondComposite SegmentSy...' connected to a central connector. To the right of the connector are three stacked boxes: 'Value Stats', 'MaxValue Stats', and 'MinValue Stats', each with a plus icon in the top right corner.</p>
type	CompositeSegmentSymmetryStatsEvalType

properties	content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The SecondCompositeSegmentSymmetryStats gives information about the results of a statistical evaluation of the second segment of a composite frame symmetry characteristic.

element **CompositeSegmentsSymmetryStatsEvalType/ThirdCompositeSegmentSymmetryStats**

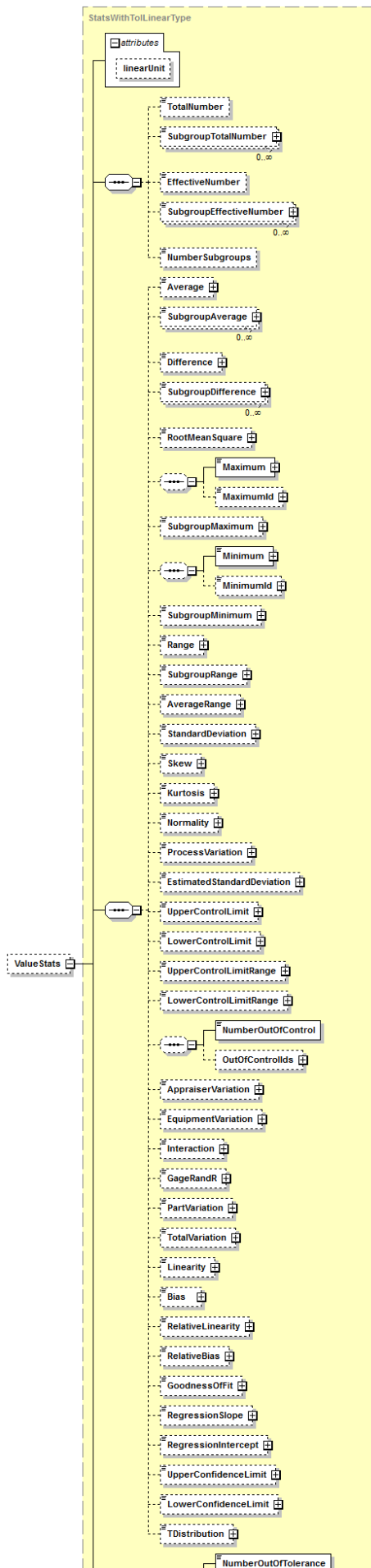
diagram	
type	CompositeSegmentSymmetryStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	ValueStats MaxValueStats MinValueStats
annotation	documentation The optional ThirdCompositeSegmentSymmetryStats gives information about the results of a statistical evaluation of the third segment of a composite frame symmetry characteristic.

complexType **CompositeSegmentStatsEvalBaseType**

diagram	
properties	abstract true
children	ValueStats MaxValueStats MinValueStats
used by	complexTypes CompositeSegmentPositionStatsEvalType CompositeSegmentProfileStatsEvalType CompositeSegmentSymmetryStatsEvalType
annotation	documentation The CompositeSegmentStatsEvalBaseType is the abstract base type that defines the results of a statistical evaluation of an actual composite segment.

element **CompositeSegmentStatsEvalBaseType/ValueStats**

diagram



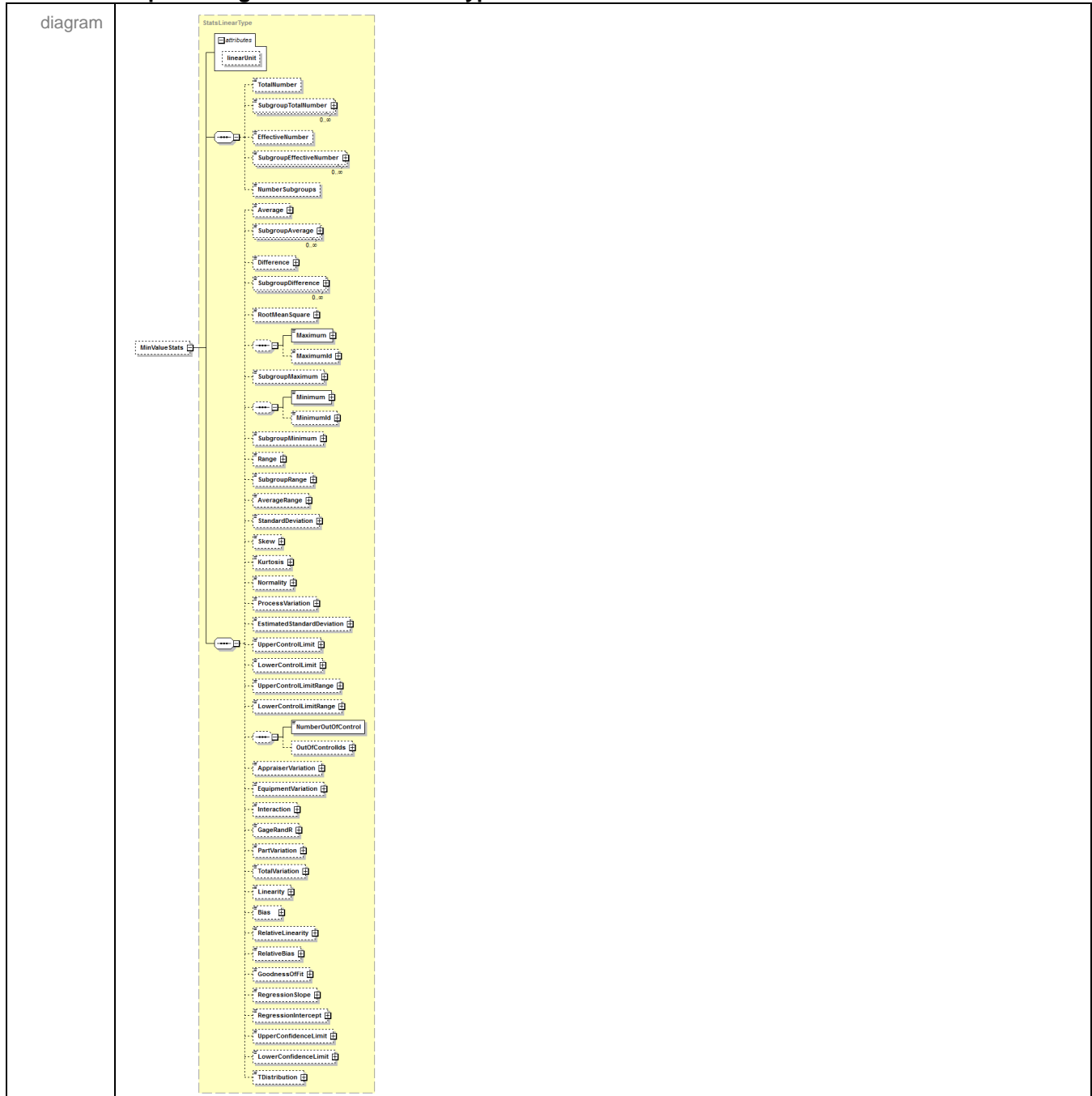
type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **CompositeSegmentStatsEvalBaseType/MaxValueStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>linearUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

element **CompositeSegmentStatsEvalBaseType/MinValueStats**



type	StatsLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

complexType CompositeSegmentSymmetryStatsEvalType

diagram	<pre>classDiagram class CompositeSegmentStatsEvalBaseType { Value Stats MaxValue Stats MinValue Stats } class CompositeSegmentSymmetryStatsEvalType { } CompositeSegmentStatsEvalBaseType < -- CompositeSegmentSymmetryStatsEvalType</pre>
type	extension of CompositeSegmentStatsEvalBaseType
properties	base CompositeSegmentStatsEvalBaseType
children	ValueStats MaxValueStats MinValueStats
used by	elements CompositeSegmentsSymmetryStatsEvalType/SecondCompositeSegmentSymmetryStats CompositeSegmentsSymmetryStatsEvalType/ThirdCompositeSegmentSymmetryStats
annotation	documentation The CompositeSegmentSymmetryStatsEvalType defines the results of a statistical evaluation of an actual symmetry composite segment.

complexType **ConcentricityCharacteristicStatsEvalType**

diagram	<p>The diagram shows the structure of the ConcentricityCharacteristicStatsEvalType complex type. It is an extension of LocationCharacteristicStatsEvalType. The structure includes a root element ConcentricityCharacteristicStatsEvalType (represented by a rounded rectangle) which contains several child elements (represented by rectangles with a plus sign in the top right corner):</p> <ul style="list-style-type: none"> Attributes (dashed border) ActualIds (dashed border) Subgroup (dashed border, with a multiplicity of 1..∞) Status (dashed border) StudyIssue (dashed border) DistributionTransformation (dashed border) Value Stats (dashed border) MaxValue Stats (dashed border) MinValue Stats (dashed border) DatumsOk Stats (dashed border) CapabilityCalculationMethod (dashed border) <p>The ActualIds and Subgroup elements are grouped together within a dashed box, indicating they are part of a choice or sequence.</p>
type	extension of LocationCharacteristicStatsEvalType
properties	base LocationCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DatumsOkStats CapabilityCalculationMethod
used by	element ConcentricityCharacteristicStats
annotation	documentation The ConcentricityCharacteristicStatsEvalType defines the results of a statistical evaluation of actual concentricity characteristics.

element **ConcentricityCharacteristicStatsEvalType/CapabilityCalculationMethod**

diagram	<p>The diagram shows the CapabilityCalculationMethod element, which is a simple type (represented by a rectangle with a plus sign in the top right corner) and is optional (indicated by a dashed border).</p>
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA
annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.

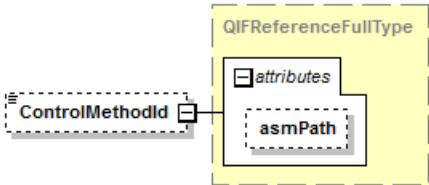
complexType **ControlIssueDetailsType**

diagram	
children	ControlIssue ControlMethodId StudyIssueId
annotation	documentation The ControlIssueDetailsType defines the details of a control issue.

element **ControlIssueDetailsType/ControlIssue**

diagram	
type	ControlIssueType
properties	content complex
children	ControlIssueEnum OtherControlIssue
annotation	documentation The ControlIssue element defines the type of the control issue.

element **ControlIssueDetailsType/ControlMethodId**

diagram						
type	QIFReferenceFullType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	asmPath	QIFIdType				documentation The optional asmPath attribute is an id which must be used for locating of the assembly path within the AsmPaths. The assembly path (instantiation chain) unambiguously identifies a

		model entity within an assembly.
annotation	documentation The optional ControlMethodId element is the QIF id of the control method triggering this issue.	

element **ControlIssueDetailsType/StudyIssued**

diagram						
type	QIFReferenceFullType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	asmPath	QIFIdType				documentation The optional asmPath attribute is an id which must be used for locating of the assembly path within the AsmPaths. The assembly path (instantiation chain) unambiguously identifies a model entity within an assembly.
annotation	documentation The optional StudyIssued element is the QIF id of the study issue associated with this control issue.					

complexType **ControlIssueType**


diagram						
children	ControlIssueEnum OtherControlIssue					
used by	element	ControlIssueDetailsType/ControlIssue				
annotation	documentation The ControlIssueType defines the reason for a control issue.					

element **ControlIssueType/ControlIssueEnum**

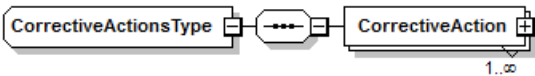
diagram						
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type	ControllIssueEnumType		
properties	content	simple	
facets	Kind	Value	Annotation
	enumeration	OOT	
	enumeration	CP	
	enumeration	CPK	
	enumeration	PP	
	enumeration	PPK	
	enumeration	OOC	
	enumeration	TRENDING	
	enumeration	SKEWED	
	enumeration	ONETHIRDDGROUPED	
	enumeration	TWOTHIRDDGROUPED	
	enumeration	OSCILLATING	
	enumeration	STRATIFIED	
	enumeration	OOCRNG	
	enumeration	UNDEFINED	
annotation	documentation	The ControllIssueEnum element describes an often-used control issue reason.	

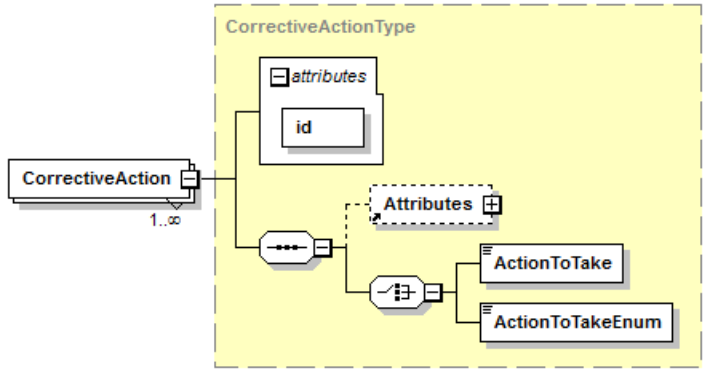
element **ControllIssueType/OtherControllIssue**

diagram			
type	xs:string		
properties	content	simple	
annotation	documentation	The OtherControllIssue element describes the control issue reason in natural language.	

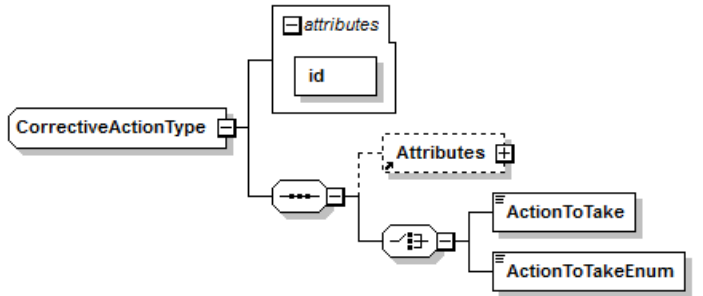
complexType **CorrectiveActionsType**

diagram			
children	CorrectiveAction		
annotation	documentation	The CorrectiveActionsType defines a list of corrective actions.	

element **CorrectiveActionsType/CorrectiveAction**

diagram						
type	CorrectiveActionType					
properties	minOcc	1	maxOcc	unbounded	content	complex
children	Attributes ActionToTake ActionToTakeEnum					
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the corrective action, used for referencing.
annotation	documentation Each CorrectiveActionType element gives information about the a particular corrective action.					


complexType **CorrectiveActionType**

diagram						
children	Attributes ActionToTake ActionToTakeEnum					
used by	element	CorrectiveActionsType/CorrectiveAction				
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the corrective action, used for referencing.
annotation	documentation The CorrectiveActionType defines an action to take on a control issue based on an assignable cause.					


attribute **CorrectiveActionType/@id**

type	QIFIdType
properties	use required
annotation	documentation The id attribute is the QIF id of the corrective action, used for referencing.

element **CorrectiveActionType/ActionToTake**

diagram	
type	xs:string
properties	content simple
annotation	documentation The ActionToTake element describes a corrective action to take when a control issue is triggered in natural language.

element **CorrectiveActionType/ActionToTakeEnum**

diagram																												
type	ActionToTakeEnumType																											
properties	content simple																											
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>HALT_PRODUCTION</td><td></td></tr><tr><td>enumeration</td><td>CONTAINMENT</td><td></td></tr><tr><td>enumeration</td><td>NEW_MATERIAL_BATCH</td><td></td></tr><tr><td>enumeration</td><td>NEW_TOOLING</td><td></td></tr><tr><td>enumeration</td><td>INSPECT_100PC</td><td></td></tr><tr><td>enumeration</td><td>REBOOT</td><td></td></tr><tr><td>enumeration</td><td>RECALIBRATE</td><td></td></tr><tr><td>enumeration</td><td>OTHER</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	HALT_PRODUCTION		enumeration	CONTAINMENT		enumeration	NEW_MATERIAL_BATCH		enumeration	NEW_TOOLING		enumeration	INSPECT_100PC		enumeration	REBOOT		enumeration	RECALIBRATE		enumeration	OTHER	
Kind	Value	Annotation																										
enumeration	HALT_PRODUCTION																											
enumeration	CONTAINMENT																											
enumeration	NEW_MATERIAL_BATCH																											
enumeration	NEW_TOOLING																											
enumeration	INSPECT_100PC																											
enumeration	REBOOT																											
enumeration	RECALIBRATE																											
enumeration	OTHER																											
annotation	<div>documentation</div> <div>The ActionToTakeEnum element describes a corrective action to take when a control issue is triggered as an enumeration of common corrective actions.</div>																											

complexType **CriterionAngularType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the UnitName for the CriterionAngularType.
annotation	documentation The CriterionAngularType defines a CriterionDecimalType with an optional angularUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an angle value is given, the unit type is the primary angle unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and radians if not.					

attribute **CriterionAngularType/@angularUnit**

type	xs:token
annotation	documentation The optional angularUnit attribute defines the UnitName for the CriterionAngularType.

complexType **CriterionAreaType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					

children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the UnitName for the CriterionAreaType.
annotation	documentation The CriterionAreaType defines a CriterionDecimalType with an optional areaUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an area value is given, the unit type is the primary area unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and square meters if not.					

attribute **CriterionAreaType/@areaUnit**

type	xs:token
annotation	documentation The optional areaUnit attribute defines the UnitName for the CriterionAreaType.

complexType **CriterionDecimalType**

diagram						
children	Limit NumberAllowedExceptions ExtremeLimit					
used by	complexTypes CriterionAngularType CriterionAreaType CriterionForceType CriterionLinearType CriterionMassType CriterionPressureType CriterionSpeedType CriterionTemperatureType CriterionTimeType CriterionUserDefinedUnitType					
annotation	documentation The CriterionDecimalType defines a numerical limit to be used as a criterion as a decimal value outside of which an issue will exist. The limit can be optionally qualified to allow a number of items to exceed the limit as long as none are outside a specified extreme limit.					

element **CriterionDecimalType/Limit**


diagram						
type	xs:decimal					
properties	content simple					
annotation	documentation The Limit element defines a limit outside of which an issue will exist.					

element **CriterionDecimalType/NumberAllowedExceptions**

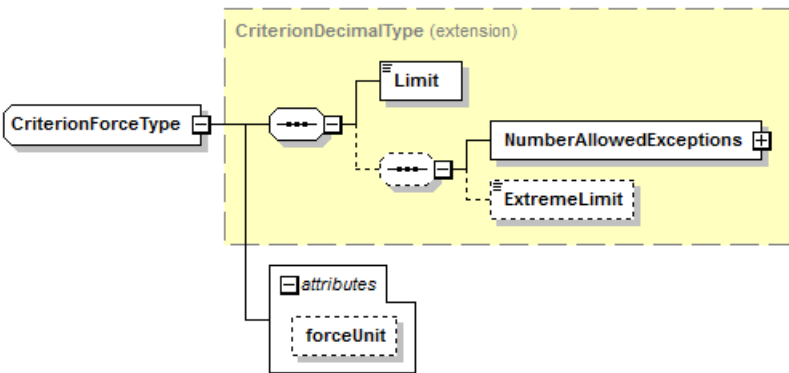
diagram						
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type	LimitingNumberType
properties	content complex
children	Count Fraction
annotation	documentation The NumberAllowedExceptions element defines the number of items that can lie between the limit and the extreme limit without an issue existing.

element **CriterionDecimalType/ExtremeLimit**

diagram	
type	xs:decimal
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional ExtremeLimit element defines the extreme limit outside of which no item can lie or an issue will exist.

complexType **CriterionForceType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the UnitName for the CriterionForceType.
annotation	documentation The CriterionForceType defines a CriterionDecimalType with an optional forceUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a force value is given, the unit type is the primary force unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Newtons if not.					

attribute **CriterionForceType/@forceUnit**

type	xs:token
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annotation	documentation The optional forceUnit attribute defines the UnitName for the CriterionForceType.
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complexType CriterionIntegerType

diagram	
children	Limit NumberAllowedExceptions ExtremeLimit
annotation	documentation The CriterionIntegerType defines a numerical limit to be used as a criterion as an integer value outside of which an issue will exist. The limit can be optionally qualified to allow a number of items to exceed the limit as long as none are outside a specified extreme limit.

element CriterionIntegerType/Limit

diagram	
type	xs:positiveInteger
properties	content simple
annotation	documentation The Limit element defines a limit outside of which an issue will exist.

element CriterionIntegerType/NumberAllowedExceptions

diagram	
type	LimitingNumberType
properties	content complex
children	Count Fraction
annotation	documentation The NumberAllowedExceptions element defines the number of items that can lie between the limit and the extreme limit without an issue existing.

element CriterionIntegerType/ExtremeLimit

diagram	
type	xs:positiveInteger
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

	The optional ExtremeLimit element defines the extreme limit outside of which no item can lie or an issue will exist.
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complexType CriterionLinearType

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the UnitName for the CriterionLinearType.
annotation	documentation The CriterionLinearType defines a CriterionDecimalType with an optional linearUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a length value is given, the unit type is the primary length unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters if not.					

attribute CriterionLinearType/@linearUnit

type	xs:token
annotation	documentation The optional linearUnit attribute defines the UnitName for the CriterionLinearType.

complexType CriterionMassType

diagram						
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type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the UnitName for the CriterionMassType.
annotation	documentation The CriterionMassType defines a CriterionDecimalType with an optional massUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a mass value is given, the unit type is the primary mass unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and kilograms if not.					

attribute **CriterionMassType/@massUnit**

type	xs:token
annotation	documentation The optional massUnit attribute defines the UnitName for the CriterionMassType.

complexType **CriterionOutOfType**

diagram	
children	Numerator Denominator NumberAllowedExceptions
annotation	documentation The CriterionOutOfType defines numerical limits to be used as a criterion as integer values outside of which an issue will exist. The limit is defined as N out of M, for example 2 out of 3, N being the numerator and M being the denominator. The limit can be optionally qualified to allow a number of items to exceed the limit.

element **CriterionOutOfType/Numerator**

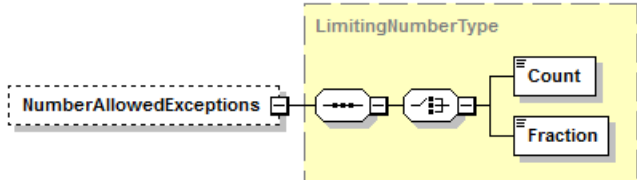
diagram	
type	xs:positiveInteger
properties	content simple
annotation	documentation The Numerator element defines a the numerator N.

element **CriterionOutOfType/Denominator**

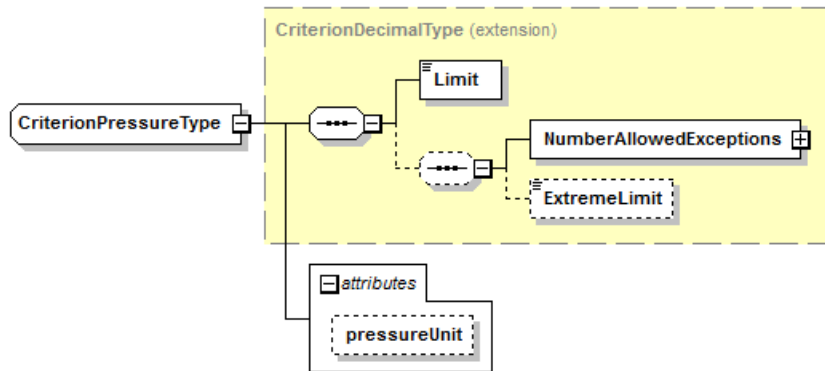
diagram	
type	xs:positiveInteger
properties	content simple

annotation	documentation The Denominator element defines a the denominator M.
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element **CriterionOutOfType/NumberAllowedExceptions**

diagram	
type	LimitingNumberType
properties	minOcc 0 maxOcc 1 content complex
children	Count Fraction
annotation	documentation The NumberAllowedExceptions element defines the number of items that can lie outside the limit without an issue existing.

complexType **CriterionPressureType**

diagram													
type	extension of CriterionDecimalType												
properties	base CriterionDecimalType												
children	Limit NumberAllowedExceptions ExtremeLimit												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>pressureUnit</td><td>xs:token</td><td></td><td></td><td></td><td>documentation The optional pressureUnit attribute defines the UnitName for the CriterionPressureType.</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	pressureUnit	xs:token				documentation The optional pressureUnit attribute defines the UnitName for the CriterionPressureType.
Name	Type	Use	Default	Fixed	Annotation								
pressureUnit	xs:token				documentation The optional pressureUnit attribute defines the UnitName for the CriterionPressureType.								
annotation	<p>documentation</p> <p>The CriterionPressureType defines a CriterionDecimalType with an optional pressureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a pressure value is given, the unit type is the primary pressure unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Pascals if not.</p>												

attribute **CriterionPressureType/@pressureUnit**

type	xs:token
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annotation	documentation The optional pressureUnit attribute defines the UnitName for the CriterionPressureType.
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complexType **CriterionSpeedType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the UnitName for the CriterionSpeedType.
annotation	documentation The CriterionSpeedType defines a CriterionDecimalType with an optional speedUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a speed value is given, the unit type is the primary speed unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters per second if not.					

attribute **CriterionSpeedType/@speedUnit**

type	xs:token
annotation	documentation The optional speedUnit attribute defines the UnitName for the CriterionSpeedType.

complexType **CriterionTemperatureType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name	Type	Use	Default	Fixed	Annotation
	temperatureUnit	xs:token				documentation The optional temperatureUnit attribute defines the UnitName for the CriterionTemperatureType.
annotation	documentation The CriterionTemperatureType defines a CriterionDecimalType with an optional temperatureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a temperature value is given, the unit type is the primary temperature unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Kelvin if not.					

attribute **CriterionTemperatureType/@temperatureUnit**

type	xs:token
annotation	documentation The optional temperatureUnit attribute defines the UnitName for the CriterionTemperatureType.

complexType **CriterionTimeType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					

children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the UnitName for the CriterionTimeType.
annotation	documentation The CriterionTimeType defines a CriterionDecimalType with an optional timeUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a time value is given, the unit type is the primary time unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and seconds if not.					

attribute **CriterionTimeType/@timeUnit**

type	xs:token
annotation	documentation The optional timeUnit attribute defines the UnitName for the CriterionTimeType.

complexType **CriterionUserDefinedUnitType**

diagram						
type	extension of CriterionDecimalType					
properties	base CriterionDecimalType					
children	Limit NumberAllowedExceptions ExtremeLimit					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the CriterionUserDefinedUnitType.
annotation	documentation The CriterionUserDefinedUnitType defines a CriterionDecimalType with user defined units that are not available in another criterion type. In particular this type is not to be used to define a criterion with linear units, angular units, or units of temperature, area, force, mass, pressure, speed, or time.					

attribute **CriterionUserDefinedUnitType/@unitName**

type	xs:token
properties	use required
annotation	documentation The (required) unitName attribute is the unit name for the CriterionUserDefinedUnitType.

complexType CurveLengthCharacteristicStatsEvalType

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element CurveLengthCharacteristicStats
annotation	<p>documentation</p> <p>The CurveLengthCharacteristicStatsEvalType defines the results of a statistical evaluation of actual curve length characteristics.</p>

complexType **CylindricityCharacteristicStatsEvalType**

diagram	
type	extension of FormCharacteristicStatsEvalBaseType
properties	base FormCharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod MaxCylindricityStats
used by	element CylindricityCharacteristicStats
annotation	documentation The CylindricityCharacteristicActualType defines the results of a statistical evaluation of actual cylindricity characteristics.

element **CylindricityCharacteristicStatsEvalType/MaxCylindricityStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxCylindricityStats element is result of a statistical evaluation of the actual overall feature cylindricity when a per-unit-polar-area characteristic is used.					

complexType DepthCharacteristicStatsEvalType

diagram						
type	extension of LinearCharacteristicStatsEvalType					
properties	base LinearCharacteristicStatsEvalType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element DepthCharacteristicStats					
annotation	documentation The DepthCharacteristicStatsEvalType defines the results of a statistical evaluation of actual depth characteristics.					

complexType **DiameterCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element DiameterCharacteristicStats
annotation	documentation The DiameterCharacteristicStatsEvalType defines the results of a statistical evaluation of actual diameter characteristics.

complexType **DistanceBetweenCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element DistanceBetweenCharacteristicStats
annotation	<p>documentation</p> <p>The DistanceBetweenCharacteristicStatsEvalType defines the results of a statistical evaluation of actual distance-between characteristics.</p>

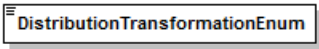
complexType **DistanceFromCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element DistanceFromCharacteristicStats
annotation	documentation The DistanceFromCharacteristicStatsEvalType defines the results of a statistical evaluation of actual distance-from characteristics.

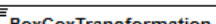
complexType **DistributionTransformationType**

diagram	
children	DistributionTransformationEnum BoxCoxTransformation OtherDistributionTransformation
used by	element CharacteristicStatsEvalBaseType/DistributionTransformation
annotation	documentation The SamplingIntervalType defines the sampling interval.

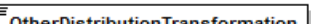
element **DistributionTransformationType/DistributionTransformationEnum**

diagram			
type	DistributionTransformationEnumType		
properties	content	simple	
facets	Kind	Value	Annotation
	enumeration	LOGNORMAL	
	enumeration	BOUNDED	
	enumeration	UNBOUNDED	
annotation	documentation The DistributionTransformationEnum element describes an often-used distribution transformation.		

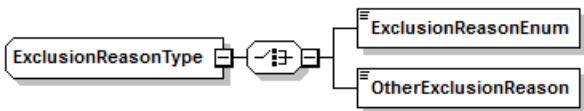
element **DistributionTransformationType/BoxCoxTransformation**

diagram	
type	xs:decimal
properties	content simple
annotation	documentation The BoxCoxTransformation element is the exponent used in a Box Cox transformation.

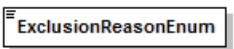
element **DistributionTransformationType/OtherDistributionTransformation**

diagram	
type	xs:string
properties	content simple
annotation	documentation The OtherDistributionTransformation element describes the distribution transformation in natural language.

complexType **ExclusionReasonType**


diagram	
children	ExclusionReasonEnum OtherExclusionReason
used by	element ExclusionType/Reason
annotation	documentation The ExclusionReasonType defines the reason for excluding an actual from statistical evaluation.

element **ExclusionReasonType/ExclusionReasonEnum**

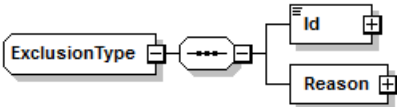
diagram			
type	ExclusionEnumType		
properties	content	simple	

facets	Kind	Value	Annotation
	enumeration	FLIER	
	enumeration	EQUIPERROR	
	enumeration	REWORK	
annotation	enumeration	KNOWNCAUSE	
	documentation	The ExclusionReasonEnum element describes an often-used reason for exclusion.	

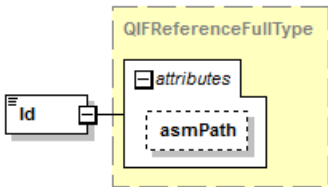
element **ExclusionReasonType/OtherExclusionReason**

diagram	
type	xs:string
properties	content simple
annotation	documentation The OtherExclusionReason element describes the reason for exclusion in natural language.

complexType **ExclusionType**

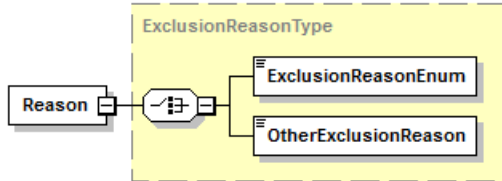
diagram	
children	Id Reason
used by	element StatsArrayIdType/Exclusion
annotation	documentation The ExclusionType defines the QIF id of an actual to be excluded from a statistical evaluation and the reason for that exclusion.

element **ExclusionType/Id**

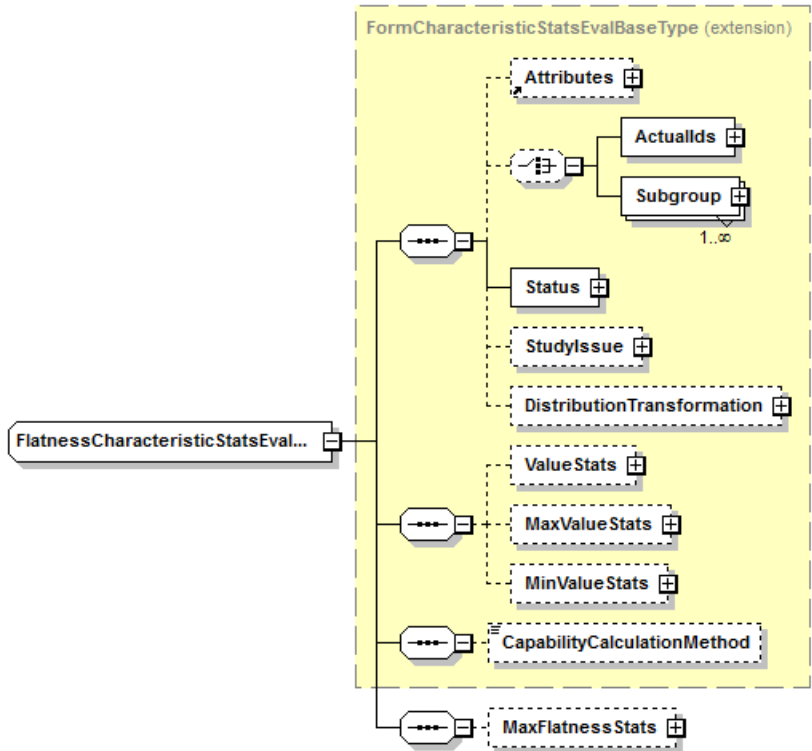
diagram						
type	QIFReferenceFullType					
properties	content complex					
attributes	Name asmPath	Type QIFIdType	Use	Default	Fixed	Annotation documentation The optional asmPath attribute is an id which must be used for locating of the assembly path within the AsmPaths. The assembly path

		(instantiation chain) unambiguously identifies a model entity within an assembly.
annotation	documentation The Id element is the QIF id of the actual to be excluded.	

element **ExclusionType/Reason**

diagram		
type	ExclusionReasonType	
properties	content	complex
children	ExclusionReasonEnum OtherExclusionReason	
annotation	documentation	Each Reason element gives the reason why this actual is being excluded.

complexType **FlatnessCharacteristicStatsEvalType**

diagram		
type	extension of FormCharacteristicStatsEvalBaseType	
properties	base	FormCharacteristicStatsEvalBaseType

children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod MaxFlatnessStats
used by	element FlatnessCharacteristicStats
annotation	documentation The FlatnessCharacteristicActualType defines the results of a statistical evaluation of actual flatness characteristics.

element FlatnessCharacteristicStatsEvalType/MaxFlatnessStats

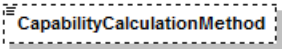
diagram	
type	StatsLinearType
properties	minOcc 0

	maxOcc content	1 complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxFlatnessStats element is result of a statistical evaluation of the actual overall feature flatness when a per-unit-area characteristic is used.					

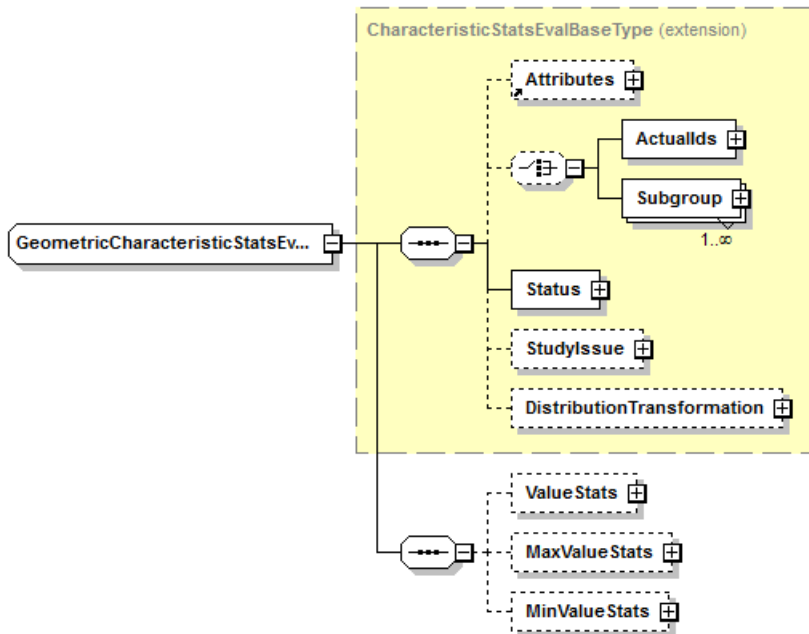
complexType FormCharacteristicStatsEvalBaseType

diagram	<p>The diagram illustrates the relationship between FormCharacteristicStatsEvalBaseType and GeometricCharacteristicStatsEvalType (extension). The base type is shown as a box on the left, and the extension is a larger box on the right. The extension contains several attributes: Attributes, ActualIds (with a cardinality of 1..∞), Subgroup (with a cardinality of 1..∞), Status, StudyIssue, DistributionTransformation, Value Stats, MaxValue Stats, MinValue Stats, and CapabilityCalculationMethod. The extension is indicated by a dashed line with an open square at the base type and a solid line with an open square at the extension type.</p>	
type	extension of GeometricCharacteristicStatsEvalType	
properties	base abstract	GeometricCharacteristicStatsEvalType true
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod	
used by	complexTypes	CircularityCharacteristicStatsEvalType CylindricityCharacteristicStatsEvalType FlatnessCharacteristicStatsEvalType StraightnessCharacteristicStatsEvalType
annotation	documentation The FormCharacteristicStatsEvalBaseType is the abstract base type that defines the results of a statistical evaluation of actual form characteristics.	

element **FormCharacteristicStatsEvalBaseType/CapabilityCalculationMethod**

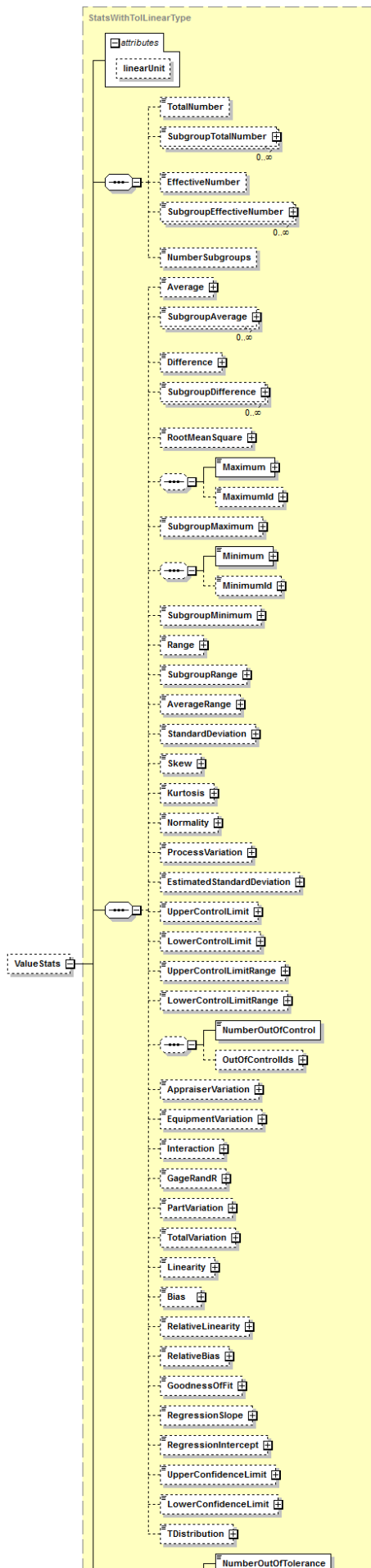
diagram	
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA
annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.

complexType **GeometricCharacteristicStatsEvalType**

diagram	
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats
used by	element GeometricCharacteristicStats complexType FormCharacteristicStatsEvalBaseType LocationCharacteristicStatsEvalType OrientationCharacteristicStatsEvalType ProfileCharacteristicStatsEvalBaseType RunoutCharacteristicStatsEvalBaseType
annotation	documentation The GeometricCharacteristicStatsEvalType is the base type that defines a statistical evaluation of geometric characteristics. The type itself can be used to accumulate summary statistics over different types of geometric characteristics.

element **GeometricCharacteristicStatsEvalType/ValueStats**

diagram



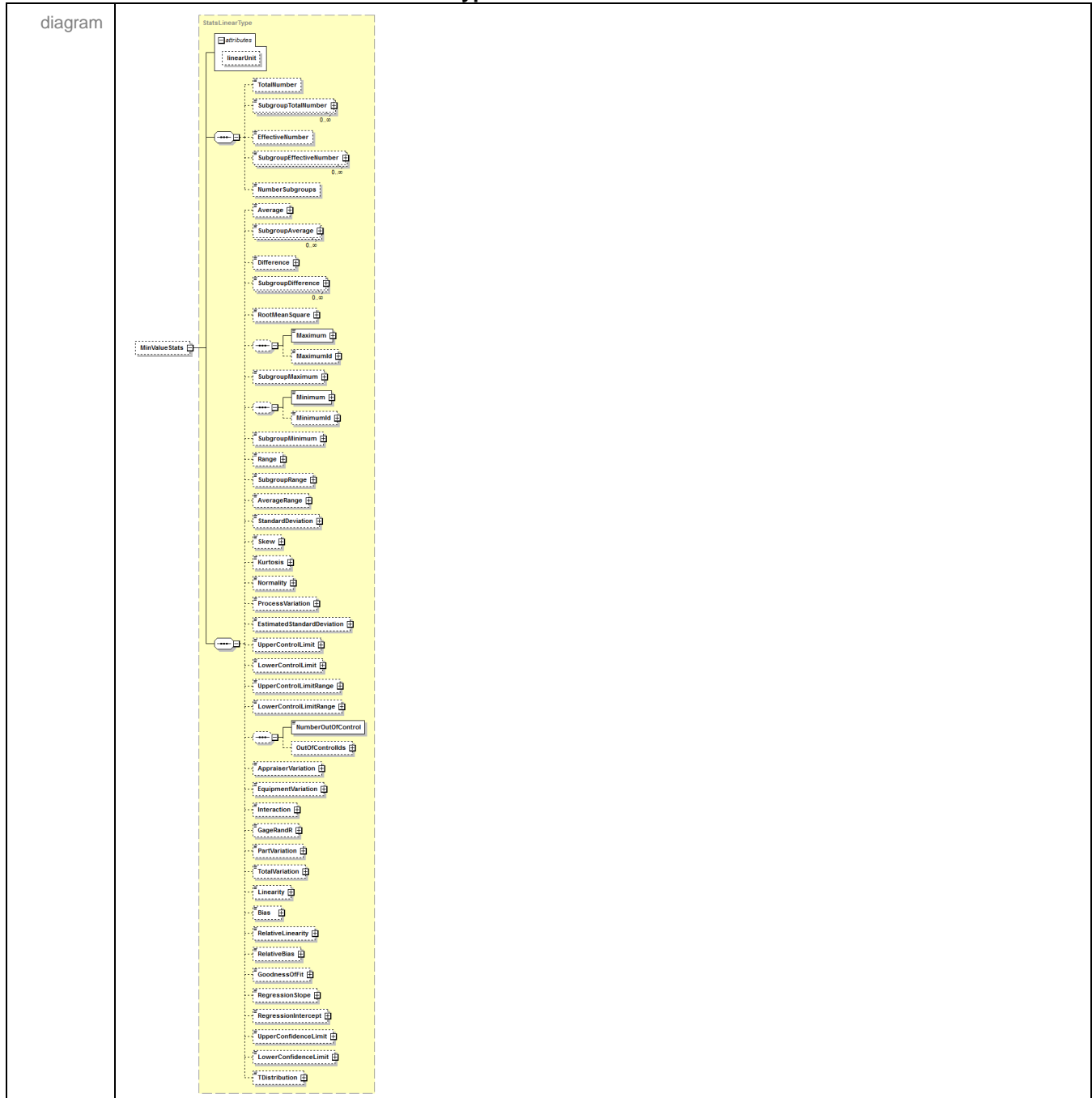
type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **GeometricCharacteristicStatsEvalType/MaxValueStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRnDr PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>linearUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

element **GeometricCharacteristicStatsEvalType/MinValueStats**



type	StatsLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

complexType HeightCharacteristicStatsEvalType

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element HeightCharacteristicStats

annotation	documentation The HeightCharacteristicStatsEvalType defines the results of a statistical evaluation of actual height characteristics.
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complexType LengthCharacteristicStatsEvalType

diagram	<p>The diagram shows the structure of the LengthCharacteristicStatsEvalType (extension). It is a complex type that extends LinearCharacteristicStatsEvalType. The structure is as follows:</p> <ul style="list-style-type: none"> LengthCharacteristicStatsEvalType (extension) <ul style="list-style-type: none"> Attributes (optional, indicated by a dashed box) ActualIds (optional, indicated by a dashed box) Subgroup (optional, indicated by a dashed box, with a cardinality of 1..∞) Status (optional, indicated by a dashed box) StudyIssue (optional, indicated by a dashed box) DistributionTransformation (optional, indicated by a dashed box) Value Stats (optional, indicated by a dashed box) MaxValue Stats (optional, indicated by a dashed box) MinValue Stats (optional, indicated by a dashed box) Deviation Stats (optional, indicated by a dashed box) MaxDeviation Stats (optional, indicated by a dashed box) MinDeviation Stats (optional, indicated by a dashed box)
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element LengthCharacteristicStats
annotation	documentation The LengthCharacteristicStatsEvalType defines the results of a statistical evaluation of actual length characteristics.

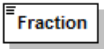
complexType LimitingNumberType

diagram	<p>The diagram shows the structure of the LimitingNumberType. It is a complex type that contains two optional elements:</p> <ul style="list-style-type: none"> Count (optional, indicated by a dashed box) Fraction (optional, indicated by a dashed box)
children	Count Fraction
used by	elements CriterionDecimalType/NumberAllowedExceptions CriterionIntegerType/NumberAllowedExceptions CriterionOutOfType/NumberAllowedExceptions
annotation	documentation The LimitingNumberType defines a limiting number of items either as an integer or as a fraction.

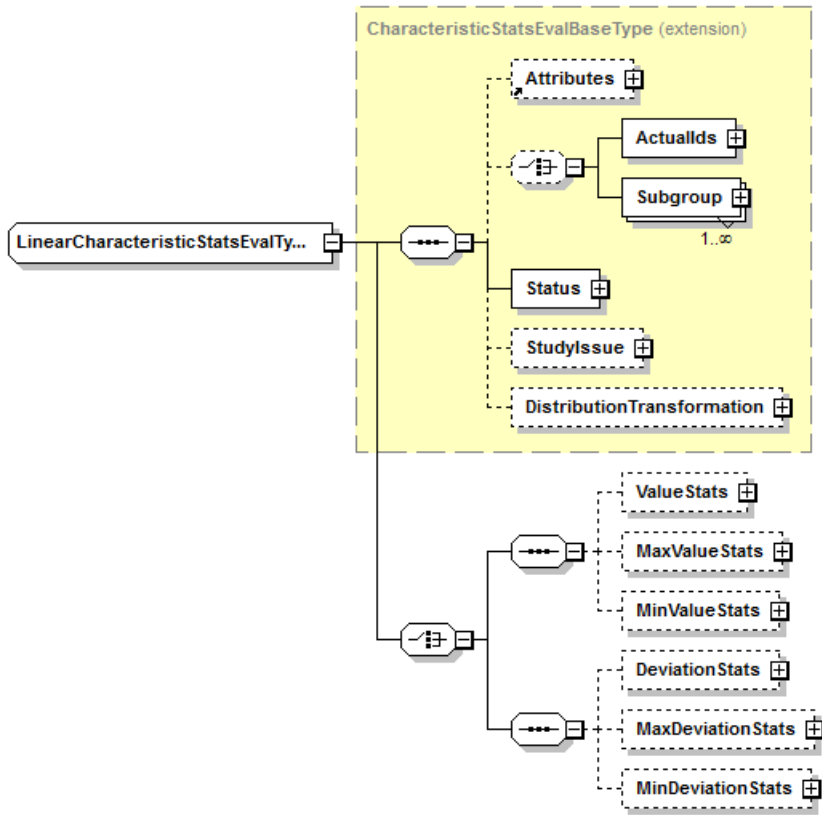
element **LimitingNumberType/Count**

diagram	
type	xs:nonNegativeInteger
properties	content simple
annotation	documentation The Count element defines the limiting number of items as an integer greater than or equal to zero.

element **LimitingNumberType/Fraction**

diagram	
type	xs:decimal
properties	content simple
annotation	documentation The Fraction element defines the limiting number of items as a fraction between 0.0 and 1.0.

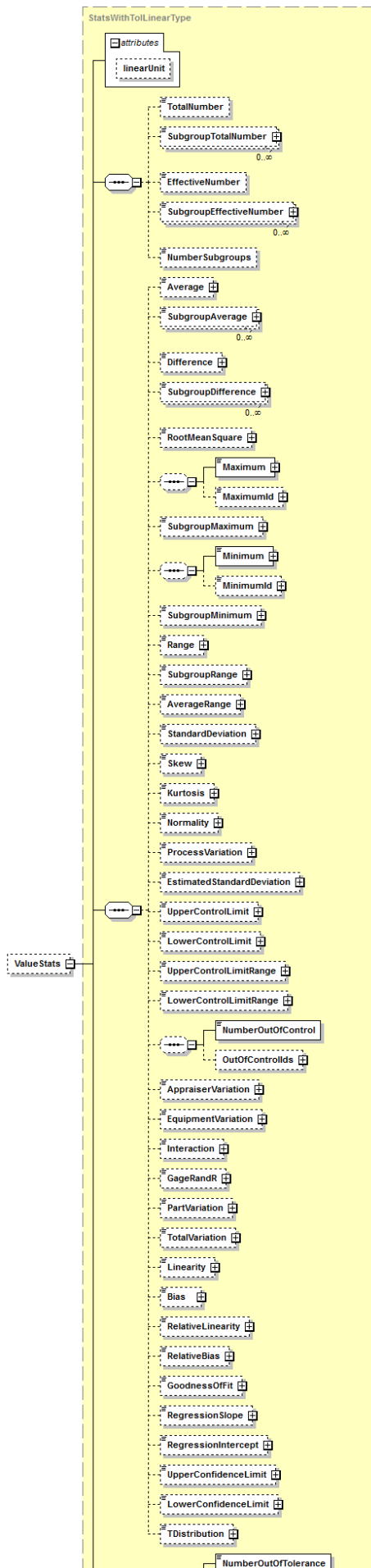
complexType **LinearCharacteristicStatsEvalType**

diagram	
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats

used by	element complexTypes	LinearCharacteristicStats ChordCharacteristicStatsEvalType CurveLengthCharacteristicStatsEvalType DepthCharacteristicStatsEvalType DiameterCharacteristicStatsEvalType DistanceBetweenCharacteristicStatsEvalType DistanceFromCharacteristicStatsEvalType HeightCharacteristicStatsEvalType LengthCharacteristicStatsEvalType LinearCoordinateCharacteristicStatsEvalType RadiusCharacteristicStatsEvalType SquareCharacteristicStatsEvalType ThicknessCharacteristicStatsEvalType WidthCharacteristicStatsEvalType
annotation	documentation	<p>The LinearCharacteristicStatsEvalType is the base type that defines the results of a statistical evaluation of measured values with linear units or their deviations from nominal. The type itself can be used to accumulate summary statistics over different types of linear characteristics.</p>

element **LinearCharacteristicStatsEvalType/ValueStats**

diagram



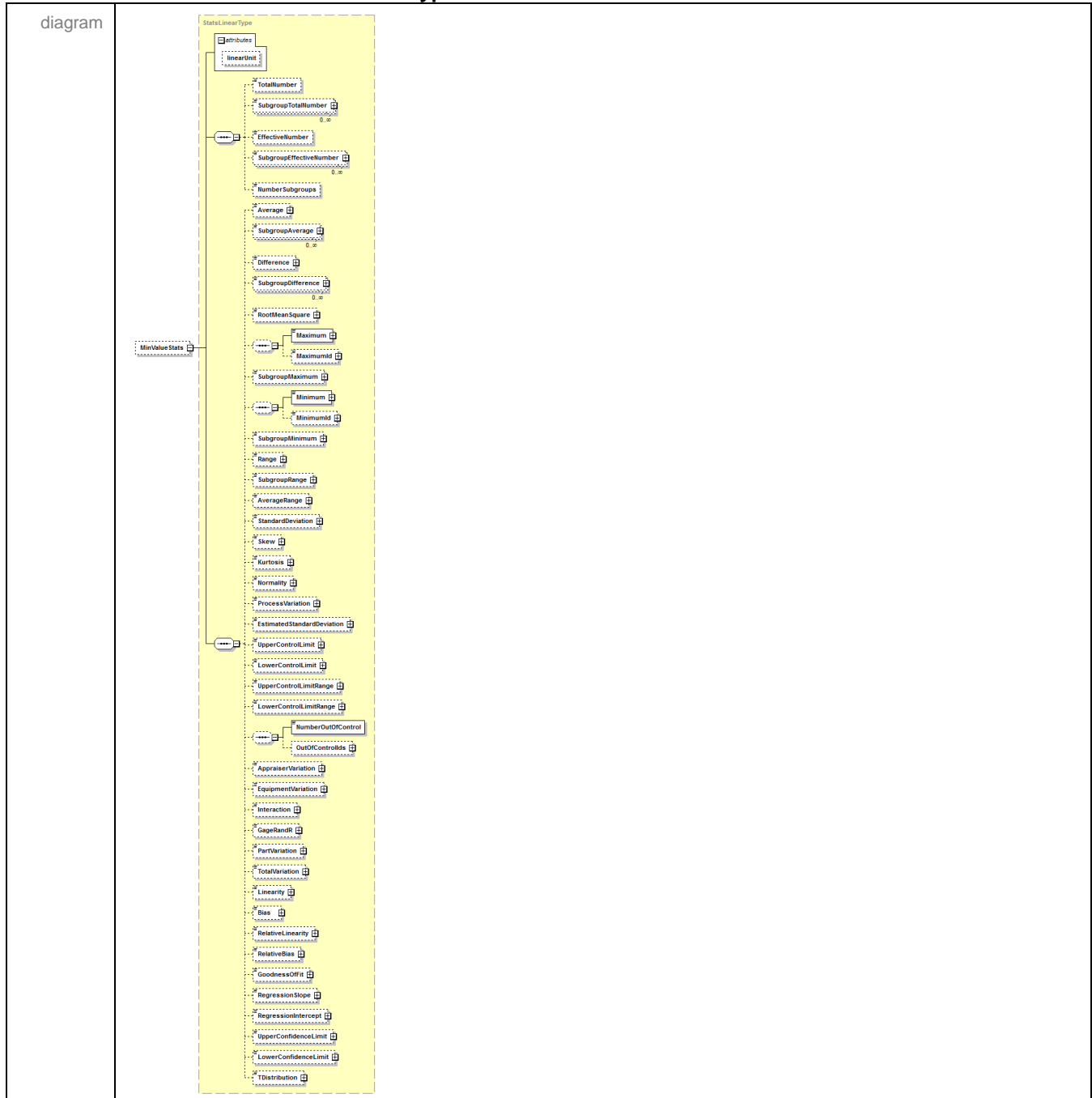
type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **LinearCharacteristicStatsEvalType/MaxValueStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRnDr PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>linearUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

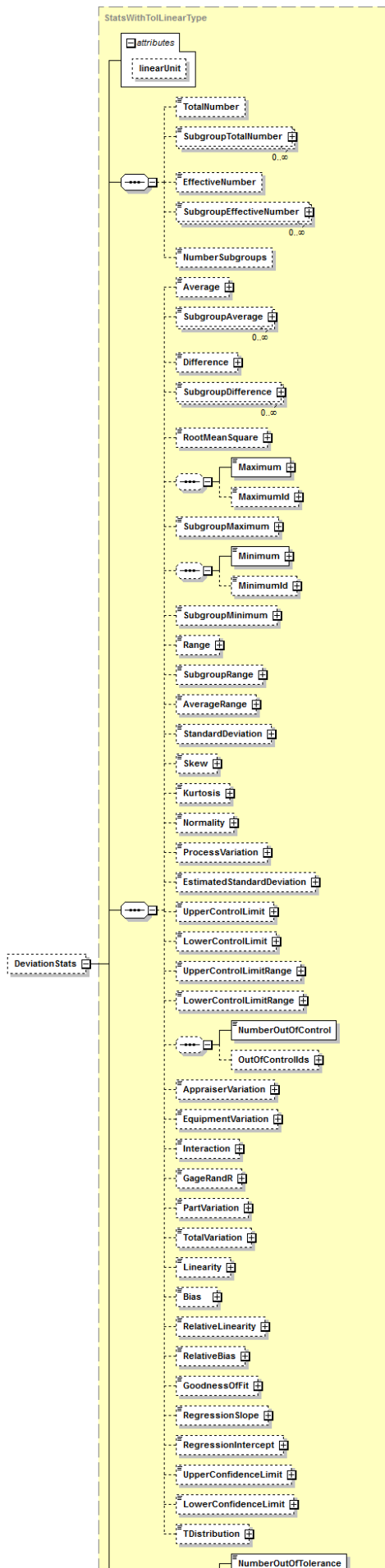
element **LinearCharacteristicStatsEvalType/MinValueStats**



type	StatsLinearType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **LinearCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **LinearCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **LinearCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType LinearCoordinateCharacteristicStatsEvalType

diagram						
type	extension of LinearCharacteristicStatsEvalType					
properties	base LinearCharacteristicStatsEvalType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element LinearCoordinateCharacteristicStats					
annotation	documentation The LinearCoordinateCharacteristicStatsEvalType defines the results of a statistical evaluation of actual linear coordinate characteristics.					

complexType **LineProfileCharacteristicStatsEvalType**

diagram	<p>The diagram illustrates the structure of the LineProfileCharacteristicStatsEvalType complex type. It is an extension of the ProfileCharacteristicStatsEvalBaseType. The structure is organized into several containers (indicated by dashed boxes) connected to a central element LineProfileCharacteristicStatsE.... The containers include:</p> <ul style="list-style-type: none"> Attributes (dashed box) ActualIds and Subgroup (grouped together, with a cardinality of 1..∞) Status (dashed box) StudyIssue (dashed box) DistributionTransformation (dashed box) ValueStats, MaxValueStats, and MinValueStats (grouped together) CapabilityCalculationMethod, WorstPositiveDeviationStats, and WorstNegativeDeviationStats (grouped together) PointDeviationsStats, DatumsOkStats, and CompositeSegmentsStats (grouped together)
type	extension of ProfileCharacteristicStatsEvalBaseType
properties	base ProfileCharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod WorstPositiveDeviationStats WorstNegativeDeviationStats PointDeviationsStats DatumsOkStats CompositeSegmentsStats
used by	element LineProfileCharacteristicStats
annotation	<p>documentation</p> <p>The LineProfileCharacteristicStatsEvalType defines the results of a statistical evaluation of actual profile of a line characteristics.</p>

complexType **LocationCharacteristicStatsEvalType**

diagram	
type	extension of GeometricCharacteristicStatsEvalType
properties	base GeometricCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DatumsOkStats
used by	element LocationCharacteristicStats complexTypes ConcentricityCharacteristicStatsEvalType PositionCharacteristicStatsEvalType SymmetryCharacteristicStatsEvalType
annotation	documentation The LocationCharacteristicStatsEvalType is the base type that defines the results of a statistical evaluation of actual location characteristics. The type itself can be used to accumulate summary statistics over different types of location characteristics.

element **LocationCharacteristicStatsEvalType/DatumsOkStats**

diagram	
type	<u>StatsPassFailType</u>
properties	minOcc 0 maxOcc 1 content complex
children	<u>TotalNumber</u> <u>SubgroupTotalNumber</u> <u>EffectiveNumber</u> <u>SubgroupEffectiveNumber</u> <u>NumberSubgroups</u> <u>FailurePercentage</u> <u>NumberFailures</u>
annotation	documentation The optional DatumsOkStats element is the result of a statistical evaluation of DatumsOk flags.

complexType **OrientationCharacteristicStatsEvalType**

diagram	<p>The diagram illustrates the structure of the OrientationCharacteristicStatsEvalType complex type, which is an extension of GeometricCharacteristicStatsEvalType. The base type is enclosed in a yellow dashed box. The OrientationCharacteristicStatsEvalType is represented by a box on the left with a connector to the base type. The base type contains several elements: Attributes, ActualIds, Subgroup (with a cardinality of 1..∞), Status, StudyIssue, DistributionTransformation, ValueStats, MaxValueStats, MinValueStats, CapabilityCalculationMethod, DatumsOkStats, BonusStats, and ReferenceLengthStats. The OrientationCharacteristicStatsEvalType box is connected to the Attributes and ValueStats elements of the base type.</p>
type	extension of GeometricCharacteristicStatsEvalType
properties	base GeometricCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats BonusStats ReferenceLengthStats
used by	element OrientationCharacteristicStats complexTypes AngularityCharacteristicStatsEvalType ParallelismCharacteristicStatsEvalType PerpendicularityCharacteristicStatsEvalType
annotation	documentation The OrientationCharacteristicActualBaseType is the base type that defines the results of a statistical evaluation of actual orientation characteristics. The type itself can be used to accumulate summary statistics over different types of orientation characteristics.

element **OrientationCharacteristicStatsEvalType/CapabilityCalculationMethod**

diagram	<p>The diagram shows the CapabilityCalculationMethod element, which is a dashed box containing the text CapabilityCalculationMethod.</p>
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA

annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.
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element **OrientationCharacteristicStatsEvalType/DatumsOkStats**

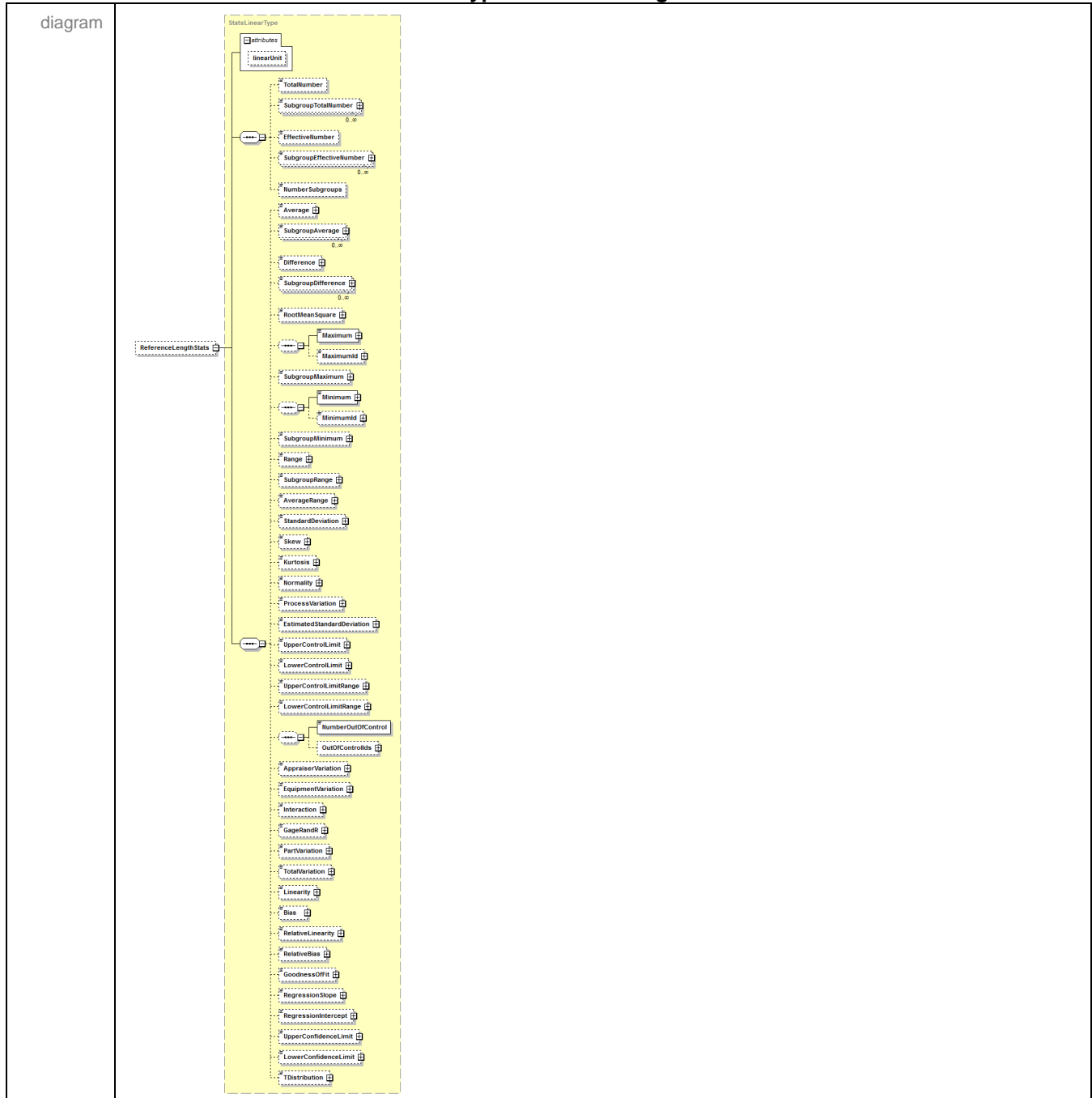
diagram	
type	<u>StatsPassFailType</u>
properties	minOcc 0 maxOcc 1 content complex
children	<u>TotalNumber</u> <u>SubgroupTotalNumber</u> <u>EffectiveNumber</u> <u>SubgroupEffectiveNumber</u> <u>NumberSubgroups</u> <u>FailurePercentage</u> <u>NumberFailures</u>
annotation	documentation The optional DatumsOkStats element is the result of a statistical evaluation of DatumsOk flags.

element **OrientationCharacteristicStatsEvalType/BonusStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	<u>TDistribution</u>					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional BonusStats element is the result of a statistical evaluation of the applied bonus.					

element **OrientationCharacteristicStatsEvalType/ReferenceLengthStats**



type	StatsLinearType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name	Type	Use	Default	Fixed	Annotation
	linearUnit	xs:token				documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional ReferenceLengthStats element is the result of a statistical evaluation of the actual length of the applied tolerance zone.					

complexType ParallelismCharacteristicStatsEvalType

diagram						
type	extension of OrientationCharacteristicStatsEvalType					
properties	base	OrientationCharacteristicStatsEvalType				

children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats BonusStats ReferenceLengthStats
used by	element ParallelismCharacteristicStats
annotation	documentation The ParallelismCharacteristicStatsEvalType defines the results of a statistical evaluation of actual parallelism characteristics.

complexType **PerpendicularityCharacteristicStatsEvalType**

diagram	
type	extension of OrientationCharacteristicStatsEvalType
properties	base OrientationCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats BonusStats ReferenceLengthStats
used by	element PerpendicularityCharacteristicStats
annotation	documentation The PerpendicularityCharacteristicStatsEvalType defines the results of a statistical evaluation of actual perpendicularity characteristics.

complexType **PointDeviationsStatsEvalType**

diagram	
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children	PointDeviationStats
used by	element ProfileCharacteristicStatsEvalBaseType/PointDeviationsStats
annotation	documentation The PointDeviationsStatsEvalType defines a list of the results of statistical evaluations of vector deviations of individual measurement points from nominal.

element [PointDeviationsStatsEvalType/PointDeviationStats](#)

diagram	
type	PointDeviationStatsEvalType
properties	minOcc 1 maxOcc unbounded content complex
children	MeasurePointActualIds DeviationStats
annotation	documentation Each PointDeviationStats element gives the results of a statistical evaluation of vector deviation of an individual measurement point from nominal.

complexType [PointDeviationStatsEvalType](#)

diagram	
children	MeasurePointActualIds DeviationStats
used by	element PointDeviationsStatsEvalType/PointDeviationStats
annotation	documentation The PointDeviationStatsEvalType defines the results of a statistical evaluation of the deviation of a measurement point from nominal.

element [PointDeviationStatsEvalType/MeasurePointActualIds](#)

diagram	
type	StatsArrayIdType
properties	content complex
children	Ids Exclusion
annotation	documentation The MeasurePointActualIds element is a list of the QIF ids of points in the feature actual point lists used in the evaluation.

element **PointDeviationStatsEvalType/DeviationStats**

diagram	
type	StatsLinearType
properties	content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The DeviationStats element is the results of a statistical evaluation of the deviation of the individual measurement points in the direction of the surface or curve normal.					

complexType **PointProfileCharacteristicStatsEvalType**

diagram						
type	extension of ProfileCharacteristicStatsEvalBaseType					
properties	base ProfileCharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod WorstPositiveDeviationStats WorstNegativeDeviationStats PointDeviationsStats DatumsOkStats CompositeSegmentsStats					
used by	element PointProfileCharacteristicStats					
annotation	documentation The PointProfileCharacteristicStatsEvalType defines the results of a statistical evaluation of actual profile at a point characteristics.					

complexType **PositionCharacteristicStatsEvalType**

diagram	
type	extension of LocationCharacteristicStatsEvalType
properties	base LocationCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DatumsOkStats CapabilityCalculationMethod CompositeSegmentsStats
used by	element PositionCharacteristicStats
annotation	documentation The PositionCharacteristicStatsEvalType defines the results of a statistical evaluation of of actual position characteristics.

element **PositionCharacteristicStatsEvalType/CapabilityCalculationMethod**

diagram	
type	PositionCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	<div>Kind</div> <div> <div>enumeration</div> <div>Value</div> <div>THREE_SIGMA</div> <div>Annotation</div> </div> <div> <div>enumeration</div> <div>SIX_SIGMA</div> </div> <div> <div>enumeration</div> <div>BIVARIATE</div> </div> <div> <div>enumeration</div> <div>TRIVARIATE</div> </div>

annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this position tolerance zone.
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element **PositionCharacteristicStatsEvalType/CompositeSegmentsStats**

diagram	
type	CompositeSegmentsPositionStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	SecondCompositeSegmentPositionStats ThirdCompositeSegmentPositionStats FourthCompositeSegmentPositionStats
annotation	documentation The optional CompositeSegmentsStats element is the results of a statistical evaluation of actual composite segments.

complexType **ProfileCharacteristicStatsEvalBaseType**

diagram	
type	extension of GeometricCharacteristicStatsEvalType
properties	base GeometricCharacteristicStatsEvalType abstract true
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod WorstPositiveDeviationStats WorstNegativeDeviationStats PointDeviationsStats DatumsOkStats CompositeSegmentsStats
used by	complexTypes LineProfileCharacteristicStatsEvalType PointProfileCharacteristicStatsEvalType SurfaceProfileCharacteristicStatsEvalType SurfaceProfileNonUniformCharacteristicStatsEvalType
annotation	documentation The ProfileCharacteristicStatsEvalBaseType is the abstract base type that defines the results of a statistical evaluation of actual profile characteristics.

element **ProfileCharacteristicStatsEvalBaseType/CapabilityCalculationMethod**

diagram	
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple

facets	Kind	Value	Annotation
	enumeration	THREE_SIGMA	
	enumeration	SIX_SIGMA	
annotation	documentation	The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.	

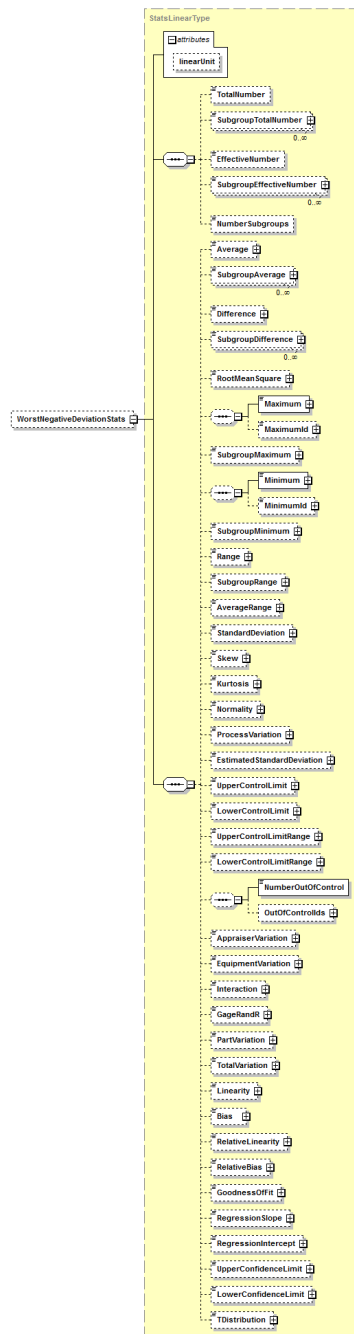
element **ProfileCharacteristicStatsEvalBaseType/WorstPositiveDeviationStats**

diagram	
type	StatsLinearType

properties	minOcc 0 maxOcc 1 content complex												
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution												
attributes	<table><tr><td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr><tr><td>linearUnit</td><td>xs:token</td><td></td><td></td><td></td><td>documentation The optional linearUnit attribute defines the unit used by StatsLinearType.</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	linearUnit	xs:token				documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
Name	Type	Use	Default	Fixed	Annotation								
linearUnit	xs:token				documentation The optional linearUnit attribute defines the unit used by StatsLinearType.								
annotation	documentation The optional WorstPositiveDeviationStats element is the result of a statistical evaluation of the worst positive deviation.												

element **ProfileCharacteristicStatsEvalBaseType/WorstNegativeDeviationStats**

diagram



type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional WorstNegativeDeviationStats element is the result of a statistical evaluation of the worst positive deviation.					

element **ProfileCharacteristicStatsEvalBaseType/PointDeviationsStats**

diagram						
type	PointDeviationsStatsEvalType					
properties	minOcc	0	maxOcc	1	content	complex
children	PointDeviationStats					
annotation	documentation The optional PointDeviationsStats element is a list of the results of statistical evaluation of vector deviations of measurement points from nominal.					

element **ProfileCharacteristicStatsEvalBaseType/DatumsOkStats**

diagram						
type	StatsPassFailType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups FailurePercentage NumberFailures					
annotation	documentation The optional DatumsOkStats element is the result of a statistical evaluation of DatumsOk flags.					

element **ProfileCharacteristicStatsEvalBaseType/CompositeSegmentsStats**

diagram	
type	CompositeSegmentsProfileStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	SecondCompositeSegmentProfileStats ThirdCompositeSegmentProfileStats FourthCompositeSegmentProfileStats
annotation	documentation The optional CompositeSegmentsStats element is the results of a statistical evaluation of actual composite segments.

complexType **RadiusCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats

used by	element RadiusCharacteristicStats
annotation	documentation The RadiusCharacteristicStatsEvalType defines the results of a statistical evaluation of actual radius characteristics.

complexType **RunoutCharacteristicStatsEvalBaseType**

diagram	
type	extension of GeometricCharacteristicStatsEvalType
properties	base GeometricCharacteristicStatsEvalType abstract true
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats
used by	complexTypes CircularRunoutCharacteristicStatsEvalType TotalRunoutCharacteristicStatsEvalType
annotation	documentation The RunoutCharacteristicActualBaseType is the abstract base type that defines the results of a statistical evaluation of actual runout characteristics.

element **RunoutCharacteristicStatsEvalBaseType/CapabilityCalculationMethod**

diagram	
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA

annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.
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element RunoutCharacteristicStatsEvalBaseType/DatumsOkStats

diagram	
type	StatsPassFailType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups FailurePercentage NumberFailures
annotation	documentation The optional DatumsOkStats element is the result of a statistical evaluation of DatumsOk flags.

complexType SamplingIntervalType


diagram	
children	SamplingIntervalEnum OtherSamplingInterval
used by	element SamplingMethodType/SamplingInterval
annotation	documentation The SamplingIntervalType defines the sampling interval.

element SamplingIntervalType/SamplingIntervalEnum

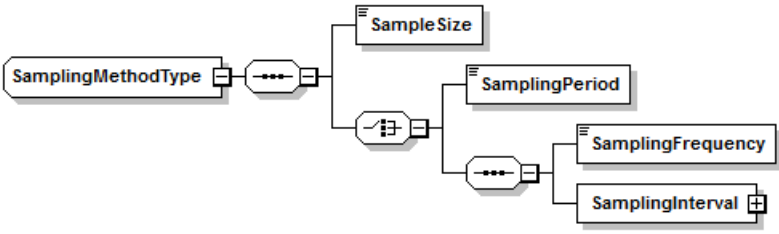
diagram	
type	SamplingIntervalEnumType
properties	content simple
facets	Kind Value Annotation

	enumeration SHIFT enumeration DAY enumeration HOUR enumeration WEEK enumeration MONTH enumeration BATCH enumeration LOT
annotation	documentation The SamplingIntervalEnum element describes an often-used sampling interval.


element **SamplingIntervalType/OtherSamplingInterval**

diagram	
type	xs:string
properties	content simple
annotation	documentation The OtherSamplingInterval element describes the sampling interval in natural language.


complexType **SamplingMethodType**

diagram	
children	SampleSize SamplingPeriod SamplingFrequency SamplingInterval
annotation	documentation The SamplingMethodType defines a method for sample selection.

element **SamplingMethodType/SampleSize**


diagram	
type	xs:positiveInteger
properties	content simple
annotation	documentation The SampleSize element specifies the number of samples x to be used in a statistical evaluation, the last x samples collected with be used in the calculation.

element **SamplingMethodType/SamplingPeriod**

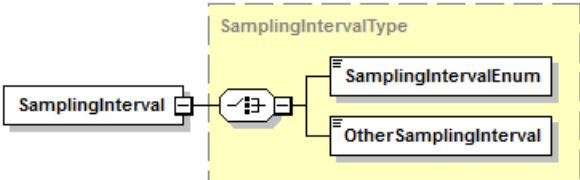
diagram	
type	xs:positiveInteger

properties	content simple
annotation	documentation The SamplingPeriod element specifies the sampling period x, every xth part is measured.

element SamplingMethodType/SamplingFrequency

diagram	 A diagram showing a box labeled "SamplingFrequency" with a small icon of three horizontal lines to its left.
type	xs:positiveInteger
properties	content simple
annotation	documentation The SamplingFrequency element specifies the sampling frequency x, x parts are measured in each sampling interval.

element SamplingMethodType/SamplingInterval

diagram	 A diagram showing a box labeled "SamplingInterval" connected to a dashed yellow box labeled "SamplingIntervalType". Inside the dashed box, there is a choice symbol (a circle with a vertical line and a horizontal line) connected to two boxes: "SamplingIntervalEnum" and "OtherSamplingInterval".
type	SamplingIntervalType
properties	content complex
children	SamplingIntervalEnum OtherSamplingInterval
annotation	documentation The SamplingInterval element specifies the sampling interval.

complexType **SquareCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element SquareCharacteristicStats
annotation	documentation The SquareCharacteristicStatsEvalType defines the results of a statistical evaluation of actual square characteristics.

complexType **StatsAngularType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements AngularCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedAngularCharacteristicStatsEvalType/MaxDeviationStats AngularCharacteristicStatsEvalType/MaxValueStats UserDefinedAngularCharacteristicStatsEvalType/MaxValueStats AngularCharacteristicStatsEvalType/MinDeviationStats UserDefinedAngularCharacteristicStatsEvalType/MinDeviationStats AngularCharacteristicStatsEvalType/MinValueStats UserDefinedAngularCharacteristicStatsEvalType/MinValueStats					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The StatsAngularType defines a StatsNumericalBaseType with an optional angularUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an angle value is given, the unit type is the primary angle unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and radians if not.					

attribute **StatsAngularType/@angularUnit**

type	xs:token
annotation	documentation The optional angularUnit attribute defines the unit used by StatsAngularType.

complexType **StatsAreaType**

diagram	<p>The diagram illustrates the structure of the StatsAreaType complex type. It is an extension of StatsNumericalBaseType (indicated by a dashed box). The StatsAreaType is shown as a container for various statistical attributes, each represented by a small box with a plus icon. The attributes are organized into a vertical list, with some grouped under sub-headers like Maximum and Minimum. The attributes include: TotalNumber, SubgroupTotalNumber, EffectiveNumber, SubgroupEffectiveNumber, NumberSubgroups, Average, SubgroupAverage, Difference, SubgroupDifference, RootMeanSquare, Maximum, MaximumId, SubgroupMaximum, Minimum, MinimumId, SubgroupMinimum, Range, SubgroupRange, AverageRange, StandardDeviation, Skew, Kurtosis, Normality, ProcessVariation, EstimatedStandardDeviation, UpperControlLimit, LowerControlLimit, UpperControlLimitRange, LowerControlLimitRange, NumberOutOfControl, OutOfControlIds, AppraiserVariation, EquipmentVariation, Interaction, GageRandR, PartVariation, TotalVariation, Linearity, Bias, RelativeLinearity, RelativeBias, GoodnessOfFit, RegressionSlope, RegressionIntercept, UpperConfidenceLimit, LowerConfidenceLimit, and TDistribution. A separate box labeled attributes is shown at the bottom left of the diagram.</p>
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedAreaCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedAreaCharacteristicStatsEvalType/MaxValueStats UserDefinedAreaCharacteristicStatsEvalType/MinDeviationStats UserDefinedAreaCharacteristicStatsEvalType/MinValueStats					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsAreaType.
annotation	documentation The StatsAreaType defines a StatsNumericalBaseType with an optional areaUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an area value is given, the unit type is the primary area unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and square meters if not.					

attribute **StatsAreaType/@areaUnit**

type	xs:token
annotation	documentation The optional areaUnit attribute defines the unit used by StatsAreaType.

complexType **StatsArrayIdType**

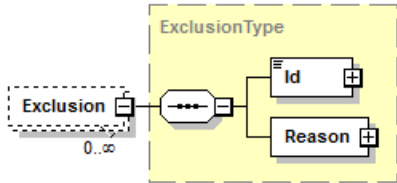
diagram						
children	Ids Exclusion					
used by	elements ActualSubgroupType/ActualIds CharacteristicStatsEvalBaseType/ActualIds AverageFeatureType/ActualIds PointDeviationStatsEvalType/MeasurePointActualIds					
annotation	documentation The StatsArrayIdType defines the set of QIF ids of actuals used in a statistical evaluation.					

element **StatsArrayIdType/Ids**

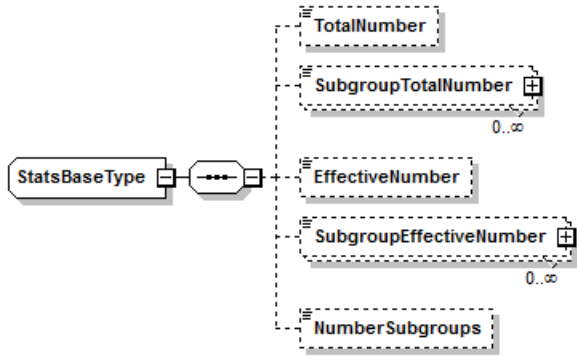
diagram						
type	ArrayReferenceFullType					
properties	content complex					
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id

		elements are present in this array.
annotation	documentation The Ids element is an array of QIF ids of actuals.	

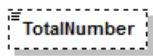
element **StatsArrayIdType/Exclusion**

diagram		
type	ExclusionType	
properties	minOcc 0 maxOcc unbounded content complex	
children	Id Reason	
annotation	documentation Each optional Exclusion element signifies that a QIF id in the Ids array is to be excluded from a statistical evaluation with a reason.	

complexType **StatsBaseType**

diagram		
properties	abstract true	
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups	
used by	complexTypes	StatsNumericalBaseType StatsPassFailType
annotation	documentation The StatsBaseType is the abstract base type that defines various results of statistical evaluations not involving numerical characteristic values.	

element **StatsBaseType/TotalNumber**

diagram		
type	xs:nonNegativeInteger	
properties	minOcc 0 maxOcc 1 content simple	

annotation	documentation The optional TotalNumber element is the total number of candidate observations for a statistical evaluation corresponding to the "TOTNUM" StatsValuesEnumType enumeration.
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element StatsBaseType/SubgroupTotalNumber

diagram						
type	SubgroupIntegerType					
properties	minOcc	0	maxOcc	unbounded	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	subgroupid	QIFIdType	required			documentation The (required) subgroupid attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation Each optional SubgroupTotalNumber element is the total number of candidate observations in a subgroup for a statistical evaluation corresponding to the "TOTNUM" SubgroupStatsValuesEnumType enumeration.					

element StatsBaseType/EffectiveNumber

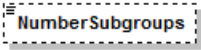
diagram						
type	xs:nonNegativeInteger					
properties	minOcc	0	maxOcc	1	content	simple
annotation	documentation The optional EffectiveNumber element is the actual number of observations used in the statistical evaluation: it is the total number of observations minus those observations excluded from the calculation and corresponds to the "EFFNUM" StatsValuesEnumType enumeration.					

element StatsBaseType/SubgroupEffectiveNumber

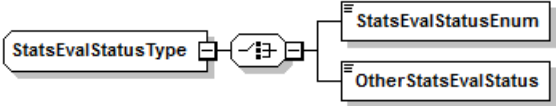
diagram						
type	SubgroupIntegerType					

properties	minOcc 0 maxOcc unbounded content complex					
attributes	Name subgroupId	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation Each optional SubgroupEffectiveNumber element is the actual number of candidate observations used in a subgroup for a statistical evaluation corresponding to the "EFFNUM" SubgroupStatsValuesEnumType enumeration.					


element **StatsBaseType/NumberSubgroups**

diagram	
type	xs:nonNegativeInteger
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional NumberSubgroups element is the number of subgroups used in the statistical evaluation corresponding to the "NUMSUB" StatsValuesEnumType enumeration.


complexType **StatsEvalStatusType**

diagram	
children	StatsEvalStatusEnum OtherStatsEvalStatus
used by	element CharacteristicStatsEvalBaseType/Status
annotation	documentation The StatsEvalStatusType defines the status of a statistical evaluation.

element **StatsEvalStatusType/StatsEvalStatusEnum**

diagram			
type	StatsEvalStatusEnumType		
properties	content	simple	
facets	Kind enumeration enumeration enumeration enumeration	Value PASS FAIL INFORMATIONAL UNDEFINED	Annotation
annotation	documentation The StatsEvalStatusEnum element describes an often-used status of a statistical evaluation.		

element **StatsEvalStatusType/OtherStatsEvalStatus**

diagram	
type	xs:string
properties	content simple
annotation	documentation The OtherStatsEvalStatus element describes the status of a statistical evaluation in natural language.

complexType **StatsForceType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedForceCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedForceCharacteristicStatsEvalType/MaxValueStats UserDefinedForceCharacteristicStatsEvalType/MinDeviationStats UserDefinedForceCharacteristicStatsEvalType/MinValueStats					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsForceType.
annotation	documentation The StatsForceType defines a StatsNumericalBaseType with an optional forceUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a force value is given, the unit type is the primary force unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Newtons if not.					

attribute **StatsForceType/@forceUnit**

type	xs:token
annotation	documentation The optional forceUnit attribute defines the unit used by StatsForceType.

complexType **StatsLinearType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements OrientationCharacteristicStatsEvalType/BonusStats PointDeviationStatsEvalType/DeviationStats

	ThreadCharacteristicStatsEvalType/FunctionalSizeStats CircularityCharacteristicStatsEvalType/MaxCircularityStats CylindricityCharacteristicStatsEvalType/MaxCylindricityStats LinearCharacteristicStatsEvalType/MaxDeviationStats UserDefinedLinearCharacteristicStatsEvalType/MaxDeviationStats FlatnessCharacteristicStatsEvalType/MaxFlatnessStats StraightnessCharacteristicStatsEvalType/MaxStraightnessStats GeometricCharacteristicStatsEvalType/MaxValueStats CompositeSegmentStatsEvalBaseType/MaxValueStats LinearCharacteristicStatsEvalType/MaxValueStats UserDefinedLinearCharacteristicStatsEvalType/MaxValueStats LinearCharacteristicStatsEvalType/MinDeviationStats UserDefinedLinearCharacteristicStatsEvalType/MinDeviationStats GeometricCharacteristicStatsEvalType/MinValueStats CompositeSegmentStatsEvalBaseType/MinValueStats LinearCharacteristicStatsEvalType/MinValueStats UserDefinedLinearCharacteristicStatsEvalType/MinValueStats ThreadCharacteristicStatsEvalType/PitchDiameterStats OrientationCharacteristicStatsEvalType/ReferenceLengthStats ProfileCharacteristicStatsEvalBaseType/WorstNegativeDeviationStats ProfileCharacteristicStatsEvalBaseType/WorstPositiveDeviationStats					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The StatsLinearType defines a StatsNumericalBaseType with an optional linearUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a length value is given, the unit type is the primary length unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters if not.					

attribute StatsLinearType/@linearUnit

type	xs:token
annotation	documentation The optional linearUnit attribute defines the unit used by StatsLinearType.

complexType **StatsMassType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumIdd SubgroupMaximum Minimum MinimumIdd SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedMassCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedMassCharacteristicStatsEvalType/MaxValueStats UserDefinedMassCharacteristicStatsEvalType/MinDeviationStats UserDefinedMassCharacteristicStatsEvalType/MinValueStats					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsMassType.
annotation	documentation The StatsMassType defines a StatsNumericalBaseType with an optional massUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a mass value is given, the unit type is the primary mass unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and kilograms if not.					

attribute **StatsMassType/@massUnit**

type	xs:token
annotation	documentation The optional massUnit attribute defines the unit used by StatsMassType.

complexType **StatsNumericalBaseType**

diagram		
type	extension of StatsBaseType	
properties	base	StatsBaseType
	abstract	true
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution	

used by	complexTypes StatsAngularType StatsAreaType StatsForceType StatsLinearType StatsMassType StatsPressureType StatsSpeedType StatsTemperatureType StatsTimeType StatsUserDefinedUnitType StatsWithTolNumericalBaseType
annotation	documentation The StatsNumericalBaseType is the abstract base type that defines various results of statistical evaluations with numerical values but not involving tolerances or specification limits.

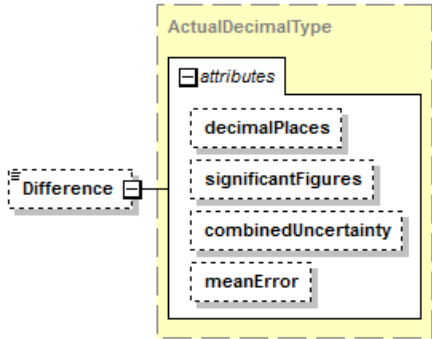
element **StatsNumericalBaseType/Average**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Average element is the average of all included observations corresponding to the "AVG" StatsValuesEnumType enumeration.					

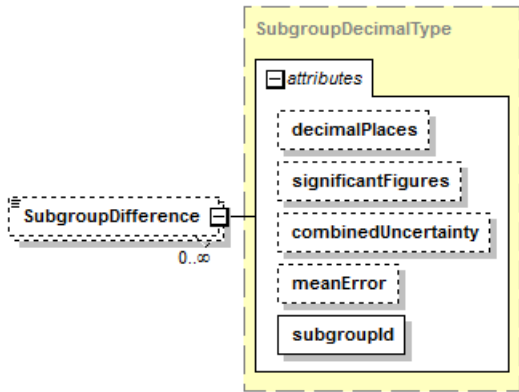
element **StatsNumericalBaseType/SubgroupAverage**

diagram	<pre>graph LR SA[SubgroupAverage 0..∞] --- SDT[SubgroupDecimalType] subgraph SDT [SubgroupDecimalType] direction TB A[attributes] A --- DP[decimalPlaces] A --- SF[significantFigures] A --- CU[combinedUncertainty] A --- ME[meanError] A --- SI[subgroupId] end</pre>																																									
type	SubgroupDecimalType																																									
properties	minOcc	0	maxOcc	unbounded	content	complex																																				
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>decimalPlaces</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>significantFigures</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>combinedUncertainty</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</td></tr><tr><td>meanError</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</td></tr><tr><td>subgroupId</td><td>QIFIdType</td><td>required</td><td></td><td></td><td>documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.</td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.					
Name	Type	Use	Default	Fixed	Annotation																																					
decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																																					
significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																																					
combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.																																					
meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.																																					
subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.																																					
annotation	documentation Each optional SubgroupAverage element is the average of all included observations in a subgroup corresponding to the "AVG" SubaroupStatsValuesEnumType enumeration.																																									

element **StatsNumericalBaseType/Difference**

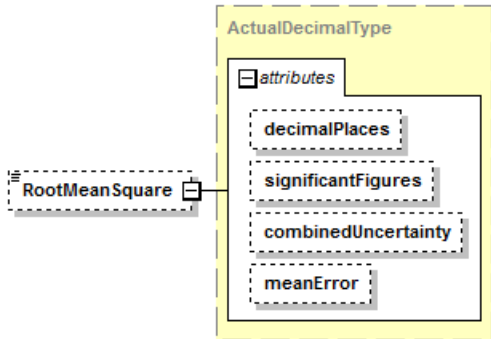
diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Difference element is the difference between the last and first items in a group of characteristics corresponding to the "DIFF" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/SubgroupDifference**

diagram						
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type	SubgroupDecimalType					
properties	minOcc	0	maxOcc	unbounded	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.
annotation	documentation Each optional SubgroupDifference element is the difference between the last and first items in a subgroup of characteristics corresponding to the "DIFF" SubgroupStatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/RootMeanSquare**

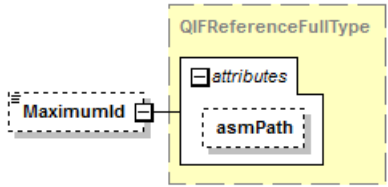
diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.

	<p>combinedUncertainty NonNegativeDecimalType</p> <p>meanError NonNegativeDecimalType</p>	<p>documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</p> <p>documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</p>
annotation	<p>documentation The optional RootMeanSquare element is the root mean square of all included observations corresponding to the "RMS" StatsValuesEnumType enumeration.</p>	

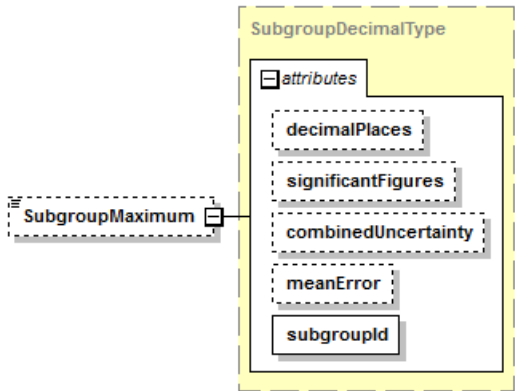
element **StatsNumericalBaseType/Maximum**

diagram	<pre> graph LR ADT[ActualDecimalType] --> Max[Maximum] Max --> DP[decimalPlaces] Max --> SF[significantFigures] Max --> CU[combinedUncertainty] Max --> ME[meanError] </pre>					
type	ActualDecimalType					
properties	content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	<p>documentation The Maximum element is the maximum (most positive) of all included observations corresponding to the "MAX" StatsValuesEnumType enumeration.</p>					

element **StatsNumericalBaseType/MaximumId**

diagram						
type	QIFReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name asmPath	Type QIFIdType	Use	Default	Fixed	Annotation documentation The optional asmPath attribute is an id which must be used for locating of the assembly path within the AsmPaths. The assembly path (instantiation chain) unambiguously identifies a model entity within an assembly.
annotation	documentation The optional MaximumId element is QIF id corresponding to the maximum (most positive) observation.					

element **StatsNumericalBaseType/SubgroupMaximum**

diagram						
type	<u>SubgroupDecimalType</u>					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name decimalPlaces	Type xs:nonNegativeInteger	Use	Default	Fixed	Annotation documentation See documentation of SpecifiedDecimalType.

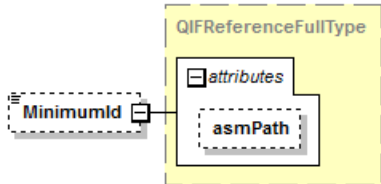
	<p>significantFigures xs:nonNegativeInteger</p> <p>combinedUncertainty NonNegativeDecimalType</p> <p>meanError NonNegativeDecimalType</p> <p>subgroupId QIFIdType required</p>	<p>documentation See documentation of SpecifiedDecimalType.</p> <p>documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</p> <p>documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</p> <p>documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.</p>
annotation	<p>documentation Each optional SubgroupMaximum element is the maximum (most positive) of all included observations in a subgroup corresponding to the "MAX" SubgroupStatsValuesEnumType enumeration.</p>	

element **StatsNumericalBaseType/Minimum**

diagram						
type	ActualDecimalType					
properties	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is

		a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The Minimum element is the minimum (most negative) of all included observations corresponding to the "MIN" StatsValuesEnumType enumeration.	

element **StatsNumericalBaseType/MinimumId**

diagram						
type	QIFReferenceFullType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	asmPath	QIFIdType				documentation The optional asmPath attribute is an id which must be used for locating of the assembly path within the AsmPaths. The assembly path (instantiation chain) unambiguously identifies a model entity within an assembly.
annotation	documentation The optional MinimumId element is QIF id corresponding to the minimum (most negative) observation.					

element **StatsNumericalBaseType/SubgroupMinimum**

diagram						
type	SubgroupDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.
annotation	documentation Each optional SubgroupMinimum element is the minimum (most negative) of all included observations in a subgroup corresponding to the "MIN" SubgroupStatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Range**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Range element is the overall range of all included observations corresponding to the "RANGE" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/SubgroupRange**

diagram						
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type	SubgroupDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.
annotation	documentation Each optional SubgroupRange element is the range of all included observations in a subgroup corresponding to the "RANGE" SubgroupStatsValuesEnumType enumeration.					

element StatsNumericalBaseType/AverageRange

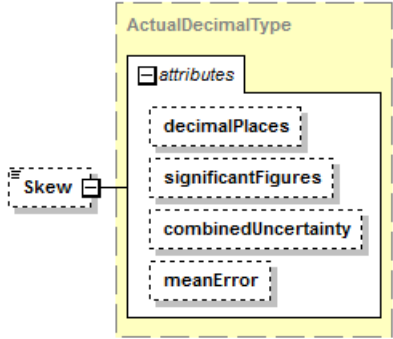
diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.

	combinedUncertainty NonNegativeDecimalType meanError NonNegativeDecimalType	documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType. documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional AverageRange element is the average range over all subgroups corresponding to the "AVGRNG" StatsValuesEnumType enumeration.	

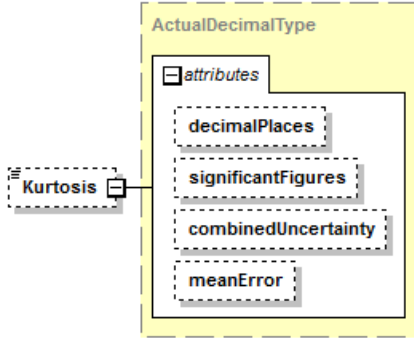
element **StatsNumericalBaseType/StandardDeviation**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional StandardDeviation element is the sample standard deviation of all all included observations corresponding to the "STDDEV" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Skew**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Skew element is the skew of all included observations corresponding to the "SKEW" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Kurtosis**

diagram						
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type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Kurtosis element is the kurtosis of all included observations corresponding to the "KURT" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Normality**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.

	meanError NonNegativeDecimalType	documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Normality element is the normality index of all included observations corresponding to the "NORM" StatsValuesEnumType enumeration.	

element **StatsNumericalBaseType/ProcessVariation**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional ProcessVariation element is the process variation (6-sigma) over all included observations corresponding to the "PROVAR" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/EstimatedStandardDeviation**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional EstimatedStandardDeviation element is the standard deviation estimated from the average range over all subgroups corresponding to the "ESTSTDV" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/UpperControlLimit**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional UpperControlLimit element is the upper control limit for individual observations or subgroup means corresponding to the "UCL" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/LowerControlLimit**

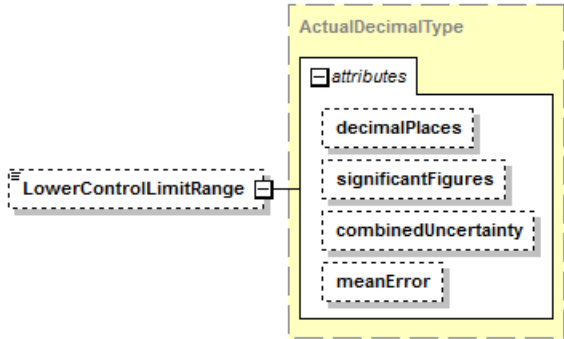
diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	<div> <div>Name</div> <div>decimalPlaces</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div> <div>Use</div> <div>Default</div> <div>Fixed</div> <div> <div>Annotation</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</div> <div>documentation</div> </div>					
	<div> <div>significantFigures</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div>					
	<div> <div>combinedUncertainty</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					
	<div> <div>meanError</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional LowerControlLimit element is the lower control limit for individual observations or subgroup means corresponding to the "LCL" StatsValuesEnumType enumeration.	

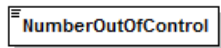
element **StatsNumericalBaseType/UpperControlLimitRange**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional UpperControlLimitRange element is the upper control limit for subgroup ranges corresponding to the "UCLRNG" StatsValuesEnumType enumeration.				

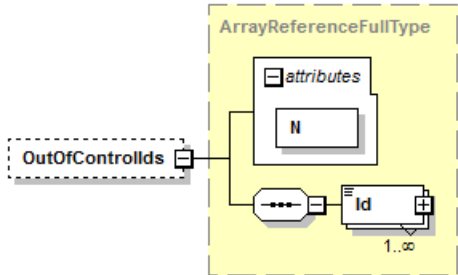
element **StatsNumericalBaseType/LowerControlLimitRange**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional LowerControlLimitRange element is the lower control limit for subgroup ranges corresponding to the "LCLRNG" StatsValuesEnumType enumeration.					

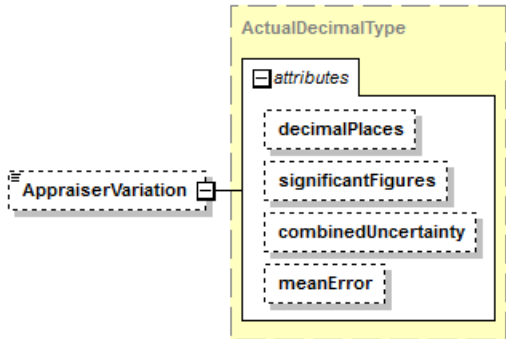
element **StatsNumericalBaseType/NumberOutOfControl**

diagram						
type	xs:nonNegativeInteger					
properties	content simple					
annotation	documentation The NumberOutOfControl element is the number of samples or subgroups out of control corresponding to the "NUMOOC" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/OutOfControlIds**

diagram						
type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name	Type	Use	Default	Fixed	Annotation
	N	NaturalType	required			documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional OutOfControlIds element is an array of the QIF ids of out of control observations.					

element **StatsNumericalBaseType/AppraiserVariation**

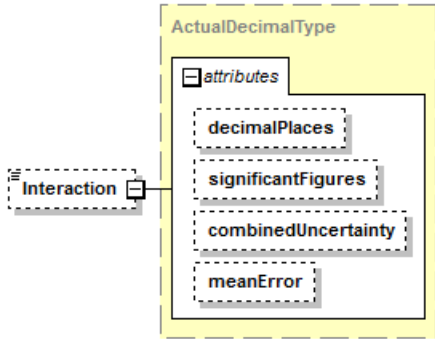
diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty

	meanError NonNegativeDecimalType	assigned to the SpecifiedDecimalType. documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional AppraiserVariation element is the appraiser variation corresponding to the "AV" StatsValuesEnumType enumeration.	

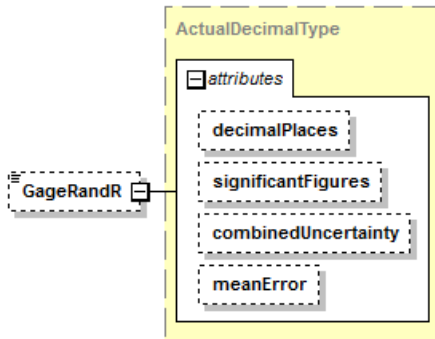
element **StatsNumericalBaseType/EquipmentVariation**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional EquipmentVariation element is the equipment variation corresponding to the "EV" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Interaction**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Interaction element is the ANOVA interaction between appraiser and equipment corresponding to the "INTERACTION" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/GageRandR**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional GageRandR element is the combined equipment and appraiser variation (Gage R and R) corresponding to the "RANDR" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/PartVariation**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	<div> <div>Name</div> <div>decimalPlaces</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div> <div>Use</div> <div>Default</div> <div>Fixed</div> <div> <div>Annotation</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</div> <div>documentation</div> </div>					
	<div> <div>significantFigures</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div>					
	<div> <div>combinedUncertainty</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					
	<div> <div>meanError</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional PartVariation element is the part variation corresponding to the "PV" StatsValuesEnumType enumeration.	

element **StatsNumericalBaseType/TotalVariation**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional TotalVariation element is the total variation (part + appraiser + equipment) corresponding to the "TV" StatsValuesEnumType enumeration.				

element **StatsNumericalBaseType/Linearity**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativeLinearity element is the linearity corresponding to the "LNRTY" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/Bias**

diagram						
type	ActualDecimalType					
properties	minOcc 0					

	maxOcc 1 content complex					
attributes	<div><div>Name</div><div>decimalPlaces</div></div> <div><div>Type</div><div>xs:nonNegativeInteger</div></div> <div>Use</div> <div>Default</div> <div>Fixed</div> <div>Annotation</div> <div>documentation See documentation of SpecifiedDecimalType. documentation See documentation of SpecifiedDecimalType. documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType. documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</div>					
annotation	documentation The optional RelativeBias element is the bias corresponding to the "BIAS" StatsValuesEnumType enumeration.					

significantFigures

xs:nonNegativeInteger

documentation
See documentation of SpecifiedDecimalType.

combinedUncertainty

NonNegativeDecimalType

documentation
The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.

meanError

NonNegativeDecimalType

documentation
The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.

element **StatsNumericalBaseType/RelativeLinearity**

diagram																																				
type	ActualDecimalType																																			
properties	minOcc 0 maxOcc 1 content complex																																			
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>decimalPlaces</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>significantFigures</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>combinedUncertainty</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</td></tr><tr><td>meanError</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional meanError attribute is</td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is					
Name	Type	Use	Default	Fixed	Annotation																															
decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																															
significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																															
combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.																															
meanError	NonNegativeDecimalType				documentation The optional meanError attribute is																															

significantFigures

xs:nonNegativeInteger

documentation
See documentation of SpecifiedDecimalType.

combinedUncertainty

NonNegativeDecimalType

documentation
The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.

meanError

NonNegativeDecimalType

documentation
The optional meanError attribute is

		a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativeLinearity element is the linearity expressed as a percentage of the measurement range corresponding to the "REL_LNRTY" StatsValuesEnumType enumeration.	

element **StatsNumericalBaseType/RelativeBias**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional RelativeBias element is the bias expressed as a percentage of the measurement range corresponding to the "REL_BIAS" StatsValuesEnumType enumeration.				

element **StatsNumericalBaseType/GoodnessOfFit**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional GoodnessOfFit element is the R-squared goodness of fit for a linear regression corresponding to the "R_SQR" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/RegressionSlope**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RegressionSlope element is the slope for a linear regression (the m in y = mx + b) corresponding to the "SLOPE" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/RegressionIntercept**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RegressionIntercept element is the intercept for a linear regression (the b in $y = mx + b$) corresponding to the "INTCPT" StatsValuesEnumType enumeration.	

element **StatsNumericalBaseType/UpperConfidenceLimit**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional UpperConfidenceLimit element is the upper confidence limit for the statistical evaluation corresponding to the "UPRCONFLIM" StatsValuesEnumType enumeration.				

element **StatsNumericalBaseType/LowerConfidenceLimit**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional LowerConfidenceLimit element is the lower confidence limit for the statistical evaluation corresponding to the "LWRCONFLIM" StatsValuesEnumType enumeration.					

element **StatsNumericalBaseType/TDistribution**

diagram						
type	ActualDecimalType					


properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional TDistribution element is the T-Distribution value for the statistical evaluation corresponding to the "TDIST" StatsValuesEnumType enumeration.					

complexType StatsPassFailType


diagram					
type	extension of StatsBaseType				
properties	base StatsBaseType				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups FailurePercentage NumberFailures				
used by	elements UserDefinedAttributeCharacteristicStatsEvalType/AttributeStats OrientationCharacteristicStatsEvalType/DatumsOkStats LocationCharacteristicStatsEvalType/DatumsOkStats RunoutCharacteristicStatsEvalBaseType/DatumsOkStats ProfileCharacteristicStatsEvalBaseType/DatumsOkStats ThreadCharacteristicStatsEvalType/ThreadStats				

annotation	documentation The StatsPassFailType defines various results of statistical evaluations involving pass/fail conditions rather than numerical values.
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element **StatsPassFailType/FailurePercentage**

diagram	
type	xs:decimal
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional FailurePercentage element is the fraction of included observations that have failed expressed as a number between 0.0 and 1.0.

element **StatsPassFailType/NumberFailures**

diagram	
type	xs:nonNegativeInteger
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional NumberFailures element is the number of included observations that have failed.

complexType **StatsPressureType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedPressureCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedPressureCharacteristicStatsEvalType/MaxValueStats UserDefinedPressureCharacteristicStatsEvalType/MinDeviationStats UserDefinedPressureCharacteristicStatsEvalType/MinValueStats				
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed
					Annotation documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.
annotation	documentation The StatsPressureType defines a StatsNumericalBaseType with an optional pressureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a pressure value is given, the unit type is the primary angle unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Pascals if not.				

attribute **StatsPressureType/@pressureUnit**

type	xs:token
annotation	documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.

complexType **StatsSpeedType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedSpeedCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedSpeedCharacteristicStatsEvalType/MaxValueStats UserDefinedSpeedCharacteristicStatsEvalType/MinDeviationStats UserDefinedSpeedCharacteristicStatsEvalType/MinValueStats					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the unit used by StatsSpeedType.
annotation	documentation The StatsSpeedType defines a StatsNumericalBaseType with an optional speedUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a speed value is given, the unit type is the primary speed unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters per second if not.					

attribute **StatsSpeedType/@speedUnit**

type	xs:token
annotation	documentation The optional speedUnit attribute defines the unit used by StatsSpeedType.

complexType **StatsTemperatureType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumIld SubgroupMaximum Minimum MinimumIld SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedTemperatureCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedTemperatureCharacteristicStatsEvalType/MaxValueStats UserDefinedTemperatureCharacteristicStatsEvalType/MinDeviationStats UserDefinedTemperatureCharacteristicStatsEvalType/MinValueStats					
attributes	Name temperatureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.
annotation	documentation The StatsTemperatureType defines a StatsNumericalBaseType with an optional temperatureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a temperature value is given, the unit type is the primary angle unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Kelvin if not.					

attribute **StatsTemperatureType/@temperatureUnit**

type	xs:token
annotation	documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.

complexType **StatsTimeType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedTimeCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedTimeCharacteristicStatsEvalType/MaxValueStats UserDefinedTimeCharacteristicStatsEvalType/MinDeviationStats UserDefinedTimeCharacteristicStatsEvalType/MinValueStats					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsTimeType.
annotation	documentation The StatsTimeType defines a StatsNumericalBaseType with an optional timeUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a time value is given, the unit type is the primary time unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and seconds if not.					

attribute **StatsTimeType/@timeUnit**

type	xs:token
annotation	documentation The optional timeUnit attribute defines the unit used by StatsTimeType.

complexType **StatsUserDefinedUnitType**

diagram	
type	extension of StatsNumericalBaseType
properties	base StatsNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution
used by	elements UserDefinedUnitCharacteristicStatsEvalType/MaxDeviationStats

	UserDefinedUnitCharacteristicStatsEvalType/MaxValueStats UserDefinedUnitCharacteristicStatsEvalType/MinDeviationStats UserDefinedUnitCharacteristicStatsEvalType/MinValueStats					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.
annotation	documentation The StatsUserDefinedUnitType defines a StatsNumericalBaseType with user defined units that are not available in another type derived from StatsNumericalBaseType. In particular this type is not to be used with linear units, angular units, or units of temperature, area, force, mass, pressure, speed, or time.					

attribute **StatsUserDefinedUnitType/@unitName**

type	xs:token
properties	use required
annotation	documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.

complexType **StatsWithTolAngularType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfToleranceIds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperToleranceIds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	AngularCharacteristicStatsEvalType/DeviationStats UserDefinedAngularCharacteristicStatsEvalType/DeviationStats AngularCharacteristicStatsEvalType/ValueStats UserDefinedAngularCharacteristicStatsEvalType/ValueStats				
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.
annotation	documentation The StatsWithTolAngularType defines a StatsWithTolNumericalBaseType with an optional angularUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an angle value is given, the unit type is the primary angle unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and radians if not.					

attribute **StatsWithTolAngularType/@angularUnit**

type	xs:token
annotation	documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.

complexType **StatsWithTolAreaType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancels SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancels SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedAreaCharacteristicStatsEvalType/DeviationStats UserDefinedAreaCharacteristicStatsEvalType/ValueStats				
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsWithTolAreaType.
annotation	documentation The StatsWithTolAreaType defines a StatsWithTolNumericalBaseType with an optional areaUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when an area value is given, the unit type is the primary area unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and square meters if not.					

attribute **StatsWithTolAreaType/@areaUnit**

type	xs:token
annotation	documentation The optional areaUnit attribute defines the unit used by StatsWithTolAreaType.

complexType **StatsWithTolForceType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfToleranceIds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperToleranceIds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedForceCharacteristicStatsEvalType/DeviationStats UserDefinedForceCharacteristicStatsEvalType/ValueStats				
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsWithTolForceType.
annotation	documentation The StatsWithTolForceType defines a StatsWithTolNumericalBaseType with an optional forceUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a force value is given, the unit type is the primary force unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Newtons if not.					

attribute **StatsWithTolForceType/@forceUnit**

type	xs:token
annotation	documentation The optional forceUnit attribute defines the unit used by StatsWithTolForceType.

complexType **StatsWithTolLinearType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	LinearCharacteristicStatsEvalType/DeviationStats UserDefinedLinearCharacteristicStatsEvalType/DeviationStats SurfaceTextureCharacteristicStatsEvalType/RoughnessAverageValueStats GeometricCharacteristicStatsEvalType/ValueStats CompositeSegmentStatsEvalBaseType/ValueStats LinearCharacteristicStatsEvalType/ValueStats UserDefinedLinearCharacteristicStatsEvalType/ValueStats				
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The StatsWithTolLinearType defines a StatsWithTolNumericalBaseType with an optional linearUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a length value is given, the unit type is the primary length unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters if not.					

attribute **StatsWithTolLinearType/@linearUnit**

type	xs:token
annotation	documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.

complexType **StatsWithTolMassType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancels SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancels SubgroupNumberOverUpperTolerance

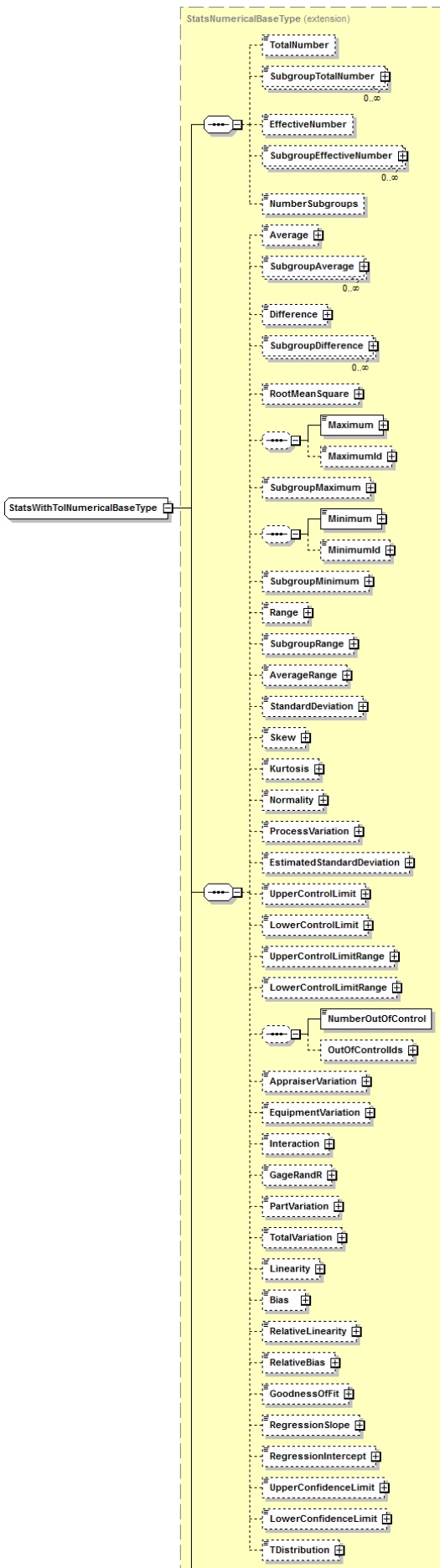
	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedMassCharacteristicStatsEvalType/DeviationStats UserDefinedMassCharacteristicStatsEvalType/ValueStats				
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsWithTolMassType.
annotation	documentation The StatsWithTolMassType defines a StatsWithTolNumericalBaseType with an optional massUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a mass value is given, the unit type is the primary mass unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and kilograms if not.					

attribute **StatsWithTolMassType/@massUnit**

type	xs:token
annotation	documentation The optional massUnit attribute defines the unit used by StatsWithTolMassType.

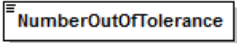
complexType **StatsWithToINumericalBaseType**

diagram

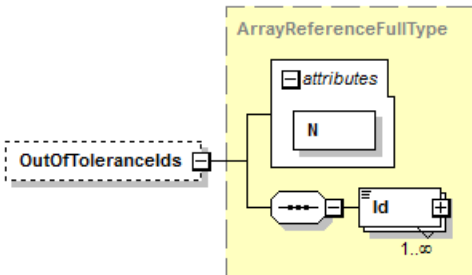


type	extension of StatsNumericalBaseType	
properties	base abstract	StatsNumericalBaseType true
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation	
used by	complexTypes	StatsWithTolAngularType StatsWithTolAreaType StatsWithTolForceType StatsWithTolLinearType StatsWithTolMassType StatsWithTolPressureType StatsWithTolSpeedType StatsWithTolTemperatureType StatsWithTolTimeType StatsWithTolUserDefinedUnitType
annotation	documentation The StatsWithTolNumericalBaseType is the abstract base type that defines various results of statistical evaluations involving numerical tolerances or specification limits.	

element **StatsWithTolNumericalBaseType/NumberOutOfTolerance**

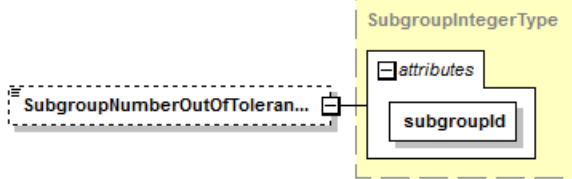
diagram		
type	xs:nonNegativeInteger	
properties	content	simple
annotation	documentation The NumberOutOfTolerance element is the number of characteristics out of tolerance corresponding to the "NUMOOT" StatsValuesEnumType enumeration.	

element **StatsWithTolNumericalBaseType/OutOfTolerancelds**


diagram						
type	ArrayReferenceFullType					
properties	minOcc	0		maxOcc	1	
	content	complex				
children	Id					
attributes	Name	Type	Use	Default	Fixed	Annotation
	N	NaturalType	required			documentation The required N attribute shows how many Id elements are present in this

	array.
annotation	documentation The optional OutOfTolerancelds element is an array of the QIF ids of out of tolerance observations.

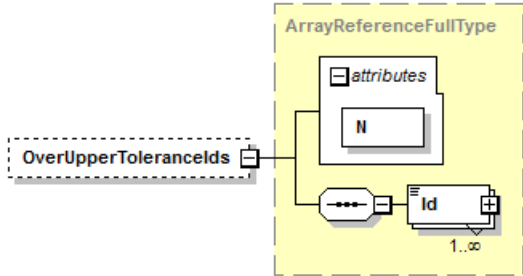
element **StatsWithTolNumericalBaseType/SubgroupNumberOutOfTolerance**

diagram						
type	SubgroupIntegerType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation Each optional SubgroupNumberOutOfTolerance element is the number of characteristics out of tolerance in the subgroup corresponding to the "NUMOOT" SubgroupStatsValuesEnumType enumeration.					

element **StatsWithTolNumericalBaseType/NumberOverUpperTolerance**

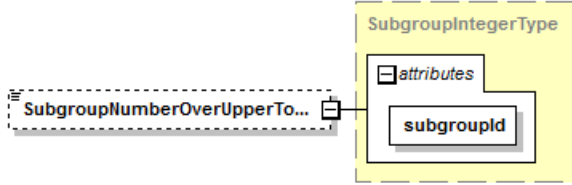
diagram						
type	xs:nonNegativeInteger					
properties	minOcc	0	maxOcc	1	content	simple
annotation	documentation The optional NumberOverUpperTolerance element is the number of included observations that are above the upper specification limit for bi-directional tolerances or outside the tolerance zone corresponding to the "NOOTH1" StatsValuesEnumType enumeration.					

element **StatsWithTolNumericalBaseType/OverUpperTolerancelds**

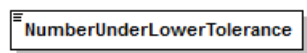
diagram						
---------	-------------------------------------------------------------------------------------	--	--	--	--	--

type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional OverUpperToleranceIds element is an array of the QIF ids of the above upper tolerance limit observations.					

element **StatsWithToINumericalBaseType/SubgroupNumberOverUpperTolerance**

diagram						
type	<u>SubgroupIntegerType</u>					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name <u>subgroupId</u>	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation Each optional SubgroupNumberOverUpperTolerance element is the number of characteristics above the upper specification limit in the subgroup corresponding to the "NOOTHI" SubgroupStatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/NumberUnderLowerTolerance**

diagram	
type	xs:nonNegativeInteger
properties	content simple
annotation	<p>documentation</p> <p>The NumberUnderLowerTolerance element is the number of included observations that are below the lower specification limit for bi-directional tolerances corresponding to the "NOOTLO" StatsValuesEnumType enumeration.</p>

element **StatsWithToINumericalBaseType/UnderLowerTolerancelds**

diagram						
type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional UnderLowerTolerancelds element is an array of the QIF ids of the below lower tolerance limit observations.					

element **StatsWithToINumericalBaseType/SubgroupNumberUnderLowerTolerance**

diagram						
type	<u>SubgroupIntegerType</u>					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name <u>subgroupId</u>	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation Each optional SubgroupNumberUnderLowerTolerance element is the number of characteristics below the lower specification limit in the subgroup corresponding to the "NOOTLO" SubgroupStatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/Cp**

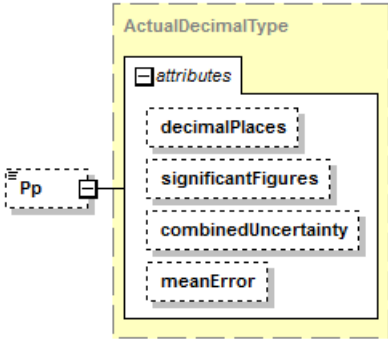
diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Cp element is the capability index over all subgroups corresponding to the "CP" StatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/Cpk**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Cpk element is the capability index over all subgroups taking into account distribution centering on nominal corresponding to the "CPK" StatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/Pp**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Pp element is the performance index over all subgroups corresponding to the "PP" StatsValuesEnumType enumeration.	

element **StatsWithToINumericalBaseType/Ppk**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Ppk element is the performance index over all subgroups taking into account distribution centering on nominal corresponding to the "PPK" StatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/Cm**

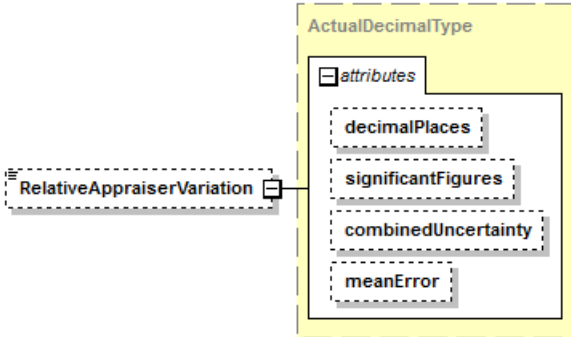
diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Cm element is the 8-sigma capability index over all subgroups corresponding to the "CM" StatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/Cmk**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Cmk element is the 8-sigma capability index over all subgroups taking into account distribution centering on nominal corresponding to the "CMK" StatsValuesEnumType enumeration.					

element **StatsWithToINumericalBaseType/RelativeAppraiserVariation**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativeAppraiserVariation element is the appraiser variation relative to the size of the tolerance zone corresponding to the "REL_AV" StatsValuesEnumType enumeration.	

element **StatsWithToINumericalBaseType/RelativeEquipmentVariation**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional RelativeEquipmentVariation element is the equipment variation relative to the size of the tolerance zone corresponding to the "REL_EV" StatsValuesEnumType enumeration.				

element **StatsWithTolNumericalBaseType/RelativeInteraction**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativeInteraction element is the ANOVA interaction between appraiser and equipment relative to the size of the tolerance zone corresponding to the "REL_INTERACTION" StatsValuesEnumType enumeration.					

element **StatsWithTolNumericalBaseType/RelativeGageRandR**

diagram						
type	ActualDecimalType					

properties	minOcc0 maxOcc1 contentcomplex																																			
attributes	<table><tr><td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr><tr><td>decimalPlaces</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>significantFigures</td><td>xs:nonNegativeInteger</td><td></td><td></td><td></td><td>documentation See documentation of SpecifiedDecimalType.</td></tr><tr><td>combinedUncertainty</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</td></tr><tr><td>meanError</td><td>NonNegativeDecimalType</td><td></td><td></td><td></td><td>documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.					
Name	Type	Use	Default	Fixed	Annotation																															
decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																															
significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.																															
combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.																															
meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.																															
annotation	documentation The optional RelativeGageRandR element is the combined equipment and appraiser variation (Gage R and R) relative to the size of the tolerance zone corresponding to the "REL_RANDR" StatsValuesEnumType enumeration.																																			

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativePartVariation element is the part variation relative to the size of the tolerance zone corresponding to the "REL_PV" StatsValuesEnumType enumeration.	

element **StatsWithToINumericalBaseType/RelativeTotalVariation**

diagram						
type	ActualDecimalType					
properties	minOcc	0	maxOcc	1	content	complex
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional RelativeTotalVariation element is the total variation (part + appraiser + equipment) relative to the size of the tolerance zone corresponding to the "REL_TV" StatsValuesEnumType enumeration.					

complexType **StatsWithTolPressureType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedPressureCharacteristicStatsEvalType/DeviationStats UserDefinedPressureCharacteristicStatsEvalType/ValueStats				
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsWithTolPressureType.
annotation	documentation The StatsWithTolPressureType defines a StatsWithTolNumericalBaseType with an optional pressureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a pressure value is given, the unit type is the primary pressure unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Pascals if not.					

attribute StatsWithTolPressureType/@pressureUnit

type	xs:token
annotation	documentation The optional pressureUnit attribute defines the unit used by StatsWithTolPressureType.

complexType **StatsWithTolSpeedType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedSpeedCharacteristicStatsEvalType/DeviationStats UserDefinedSpeedCharacteristicStatsEvalType/ValueStats				
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the unit used by StatsWithTolSpeedType.
annotation	documentation The StatsWithTolSpeedType defines a StatsWithTolNumericalBaseType with an optional speedUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a speed value is given, the unit type is the primary speed unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and meters per second if not.					

attribute **StatsWithTolSpeedType/@speedUnit**

type	xs:token
annotation	documentation The optional speedUnit attribute defines the unit used by StatsWithTolSpeedType.

complexType **StatsWithTolTemperatureType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Ca Cpk Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedTemperatureCharacteristicStatsEvalType/DeviationStats UserDefinedTemperatureCharacteristicStatsEvalType/ValueStats				
attributes	Name temperatureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsWithTolTemperatureType.
annotation	documentation The StatsWithTolTemperatureType defines a StatsWithTolNumericalBaseType with an optional temperatureUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a temperature value is given, the unit type is the primary temperature unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and Kelvin if not.					

attribute **StatsWithTolTemperatureType/@temperatureUnit**

type	xs:token
annotation	documentation The optional temperatureUnit attribute defines the unit used by StatsWithTolTemperatureType.

complexType **StatsWithTolTimeType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedTimeCharacteristicStatsEvalType/DeviationStats UserDefinedTimeCharacteristicStatsEvalType/ValueStats				
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsWithTolTimeType.
annotation	documentation The StatsWithTolTimeType defines a StatsWithTolNumericalBaseType with an optional timeUnit attribute that identifies the unit being used by its UnitName. If no value for the attribute is given in an instance file when a time value is given, the unit type is the primary time unit specified in the PrimaryUnits element of a FileUnits element, if there is a FileUnits element, and seconds if not.					

attribute **StatsWithTolTimeType/@timeUnit**

type	xs:token
annotation	documentation The optional timeUnit attribute defines the unit used by StatsWithTolTimeType.

complexType **StatsWithTolUserDefinedUnitType**

diagram	
type	extension of StatsWithTolNumericalBaseType
properties	base StatsWithTolNumericalBaseType
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfToleranceIds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperToleranceIds SubgroupNumberOverUpperTolerance

	NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
used by	elements	UserDefinedUnitCharacteristicStatsEvalType/DeviationStats UserDefinedUnitCharacteristicStatsEvalType/ValueStats				
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsWithTolUserDefinedUnitType.
annotation	documentation The StatsWithTolUserDefinedUnitType defines a StatsWithTolNumericalBaseType with user defined units that not are available in another type derived from StatsWithTolNumericalBaseType. In particular this type is not to be used with linear units, angular units, or units of temperature, area, force, mass, pressure, speed, or time.					

attribute **StatsWithTolUserDefinedUnitType/@unitName**

type	xs:token
properties	use required
annotation	documentation The (required) unitName attribute is the unit name for the StatsWithTolUserDefinedUnitType.

complexType **StraightnessCharacteristicStatsEvalType**

diagram						
type	extension of FormCharacteristicStatsEvalBaseType					
properties	base FormCharacteristicStatsEvalBaseType					
children	Attributes Actuallds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod MaxStraightnessStats					
used by	element	StraightnessCharacteristicStats				

annotation	documentation The StraightnessCharacteristicActualType defines the results of a statistical evaluation of actual straightness characteristics.
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element **StraightnessCharacteristicStatsEvalType/MaxStraightnessStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum

	Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxStraightnessStats element is result of a statistical evaluation of the actual overall feature straightness when a per-unit-length characteristic is used.					

complexType **StudyIssueType**

diagram						
children	Traceability AssignableCauseIds CorrectiveActionIds Resolution CharacteristicIds SubgroupIds					
used by	element CharacteristicStatsEvalBaseType/StudyIssue					
attributes	Name id	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The id attribute is the QIF id of the study issue, used for referencing.
annotation	documentation The StudyIssueType defines the details of a statistical study issue.					

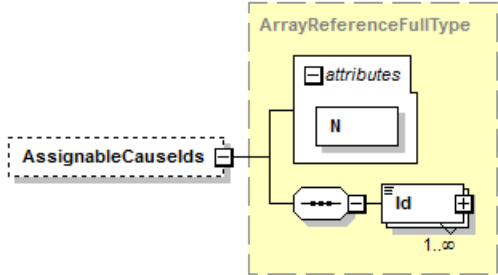
attribute **StudyIssueType/@id**

type	QIFIdType
properties	use required
annotation	documentation The id attribute is the QIF id of the study issue, used for referencing.

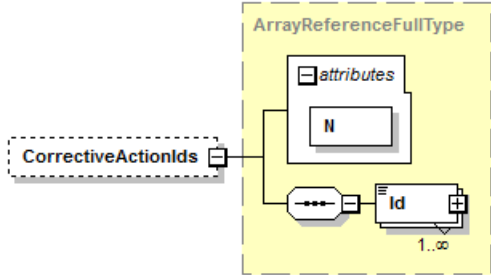
element **StudyIssueType/Traceability**

diagram	
type	InspectionTraceabilityType
properties	minOcc 0 maxOcc 1 content complex
children	InspectingOrganization CustomerOrganization SupplierCode PurchaseOrderNumber OrderNumber ReportNumber InspectionScope InspectionMode PartialInspection NotableEvents NotedEvents InspectionStart InspectionEnd InspectionSoftwareItems InspectionProgram InspectionOperator ReportPreparer ReportPreparationDate ReportType SecurityClassification PlantLocation ReferencedQIFPlanInstance ReferencedQIFPlan Errors
annotation	documentation The optional Traceability element is traceability information associated with the statistical study issue.

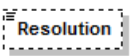
element **StudyIssueType/AssignableCauseIds**

diagram						
type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional AssignableCauseIds element contains the ids of assignable causes associated with this issue.					

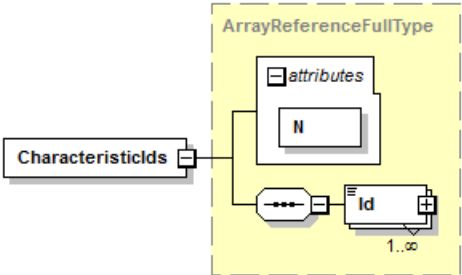
element **StudyIssueType/CorrectiveActionIds**

diagram						
type	ArrayReferenceFullType					
properties	minOcc	0	maxOcc	1	content	complex
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The optional CorrectiveActionIds element contains the ids of corrective actions taken in the resolution of this issue.					

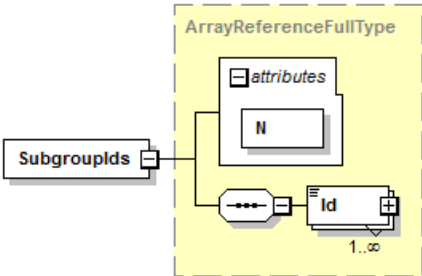
element **StudyIssueType/Resolution**

diagram	
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional Resolution element contains additional notes about the resolution of the issue.

element **StudyIssueType/CharacteristicIds**

diagram						
type	ArrayReferenceFullType					
properties	content complex					
children	Id					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The CharacteristicIds element is a list of one or more characteristic actual ids identifying the particular observations that caused an issue in the study.					

element **StudyIssueType/SubgroupIds**

diagram						
type	ArrayReferenceFullType					
properties	content complex					
children	Id					

attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute shows how many Id elements are present in this array.
annotation	documentation The SubgroupIds element is a list of one or more subgroup actual ids identifying the particular observations that caused an issue in the study.					

complexType SubgroupDecimalType

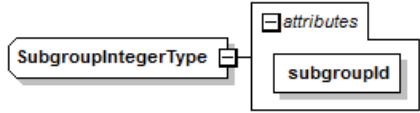
diagram	<pre> classDiagram class SubgroupDecimalType { subgroupId } class ActualDecimalType { decimalPlaces significantFigures combinedUncertainty meanError } SubgroupDecimalType -- > ActualDecimalType </pre>					
type	extension of ActualDecimalType					
properties	base ActualDecimalType					
used by	elements StatsNumericalBaseType/SubgroupAverage StatsNumericalBaseType/SubgroupDifference StatsNumericalBaseType/SubgroupMaximum StatsNumericalBaseType/SubgroupMinimum StatsNumericalBaseType/SubgroupRange					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
	subgroupId	QIFIdType	required			documentation The (required) subgroupId attribute

		references the id of the subgroup with which this decimal value is associated.
annotation	documentation A SubgroupDecimalType defines an ActualDecimalType associated with a particular subgroup id.	

attribute SubgroupDecimalType/@subgroupId

type	QIFIdType
properties	use required
annotation	documentation The (required) subgroupId attribute references the id of the subgroup with which this decimal value is associated.

complexType SubgroupIntegerType

diagram						
type	extension of xs:positiveInteger					
properties	base xs:positiveInteger					
used by	elements StatsBaseType/SubgroupEffectiveNumber StatsWithTolNumericalBaseType/SubgroupNumberOutOfTolerance StatsWithTolNumericalBaseType/SubgroupNumberOverUpperTolerance StatsWithTolNumericalBaseType/SubgroupNumberUnderLowerTolerance StatsBaseType/SubgroupTotalNumber					
attributes	Name subgroupId	Type QIFIdType	Use required	Default	Fixed	Annotation documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.
annotation	documentation A SubgroupIntegerType defines an xs:positiveInteger type associated with a particular subgroup id.					

attribute SubgroupIntegerType/@subgroupId

type	QIFIdType
properties	use required
annotation	documentation The (required) subgroupId attribute references the id of the subgroup with which this integer value is associated.

complexType **SummaryStatisticsAngularType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the UnitName for the SummaryStatisticsAngularType.
annotation	documentation The SummaryStatisticsAngularType defines a summary of a single angular statistical value.					

attribute **SummaryStatisticsAngularType/@angularUnit**

type	xs:token
annotation	documentation The optional angularUnit attribute defines the UnitName for the SummaryStatisticsAngularType.

complexType **SummaryStatisticsAreaType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the UnitName for the SummaryStatisticsAreaType.
annotation	documentation The SummaryStatisticsAreaType defines a summary of a single area statistical value.					

attribute **SummaryStatisticsAreaType/@areaUnit**

type	xs:token
annotation	documentation The optional areaUnit attribute defines the UnitName for the SummaryStatisticsAreaType.

complexType **SummaryStatisticsForceType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the UnitName for the SummaryStatisticsForceType.
annotation	documentation The SummaryStatisticsForceType defines a summary of a single force statistical value.					

attribute **SummaryStatisticsForceType/@forceUnit**

type	xs:token
annotation	documentation The optional forceUnit attribute defines the UnitName for the SummaryStatisticsForceType.

complexType **SummaryStatisticsLinearType**

diagram	<p>The diagram illustrates the SummaryStatisticsLinearType as an extension of SummaryStatisticsType. The SummaryStatisticsLinearType is shown as a box with a small square icon. It is connected to a dashed box labeled SummaryStatisticsType (extension). Inside this dashed box, there is a SummaryType box, which is connected to a choice box (a circle with a horizontal line and a small square icon). This choice box contains five options: Average, Maximum, Minimum, Range, and StandardDeviation, each represented by a box with a small square icon. Below the choice box, there is an attributes box, which contains the linearUnit attribute, represented by a box with a small square icon.</p>					
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the UnitName for the SummaryStatisticsLinearType.
annotation	documentation The SummaryStatisticsLinearType defines a summary of a single linear statistical value.					

attribute **SummaryStatisticsLinearType/@linearUnit**

type	xs:token
annotation	documentation The optional linearUnit attribute defines the UnitName for the SummaryStatisticsLinearType.

complexType **SummaryStatisticsMassType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the UnitName for the SummaryStatisticsMassType.
annotation	documentation The SummaryStatisticsMassType defines a summary of a single mass statistical value.					

attribute **SummaryStatisticsMassType/@massUnit**

type	xs:token
annotation	documentation The optional massUnit attribute defines the UnitName for the SummaryStatisticsMassType.

complexType **SummaryStatisticsPressureType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the UnitName for the SummaryStatisticsPressureType.
annotation	documentation The SummaryStatisticsPressureType defines a summary of a single pressure statistical value.					

attribute **SummaryStatisticsPressureType/@pressureUnit**

type	xs:token
annotation	documentation The optional pressureUnit attribute defines the UnitName for the SummaryStatisticsPressureType.

complexType **SummaryStatisticsSpeedType**

diagram	<p>The diagram shows the structure of the SummaryStatisticsSpeedType complex type. It is an extension of SummaryStatisticsType. The SummaryStatisticsSpeedType is represented by a box on the left. A line connects it to a dashed box labeled "SummaryStatisticsType (extension)". Inside this dashed box, there is a box for SummaryType and a dashed box containing five elements: Average, Maximum, Minimum, Range, and StandardDeviation. Below the dashed box, there is a box labeled "attributes" containing a dashed box for speedUnit.</p>					
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the UnitName for the SummaryStatisticsSpeedType.
annotation	documentation The SummaryStatisticsSpeedType defines a summary of a single speed statistical value.					

attribute **SummaryStatisticsSpeedType/@speedUnit**

type	xs:token
annotation	documentation The optional speedUnit attribute defines the UnitName for the SummaryStatisticsSpeedType.

complexType **SummaryStatisticsTemperatureType**

diagram	<p>The diagram illustrates the SummaryStatisticsTemperatureType as an extension of SummaryStatisticsType. The extension is shown in a yellow dashed box. Inside this box, the SummaryStatisticsType is represented by a box with a dashed border, containing the following elements: SummaryType, Average, Maximum, Minimum, Range, and StandardDeviation. Each of these elements has a small square icon with a plus sign next to it. The SummaryStatisticsTemperatureType is represented by a box with a solid border, connected to the extension box by a line. Below the extension box, there is a box labeled attributes containing the temperatureUnit attribute, which is represented by a dashed box.</p>					
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name	Type	Use	Default	Fixed	Annotation
	temperatureUnit	xs:token				documentation The optional temperatureUnit attribute defines the UnitName for the SummaryStatisticsTemperatureType.
annotation	documentation The SummaryStatisticsTemperatureType defines a summary of a single angular statistical value.					

attribute **SummaryStatisticsTemperatureType/@temperatureUnit**

type	xs:token
annotation	documentation The optional temperatureUnit attribute defines the UnitName for the SummaryStatisticsTemperatureType.

complexType **SummaryStatisticsTimeType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the UnitName for the SummaryStatisticsTimeType.
annotation	documentation The SummaryStatisticsTimeType defines a summary of a single time statistical value.					

attribute **SummaryStatisticsTimeType/@timeUnit**

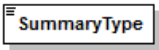
type	xs:token
annotation	documentation The optional timeUnit attribute defines the UnitName for the SummaryStatisticsTimeType.

complexType **SummaryStatisticsType**

diagram						
children	SummaryType Average Maximum Minimum Range StandardDeviation					

used by	complexTypes	SummaryStatisticsAngularType SummaryStatisticsAreaType SummaryStatisticsForceType SummaryStatisticsLinearType SummaryStatisticsMassType SummaryStatisticsPressureType SummaryStatisticsSpeedType SummaryStatisticsTemperatureType SummaryStatisticsTimeType SummaryStatisticsUserDefinedUnitType
annotation	documentation	The SummaryStatisticsType defines a summary of a single unitless statistical value and is the base class for summary values with units.

element **SummaryStatisticsType/SummaryType**

diagram			
type	StatsValuesEnumType		
properties	content	simple	
facets	Kind	Value	Annotation
	enumeration	TOTNUM	
	enumeration	EFFNUM	
	enumeration	NUMSUB	
	enumeration	AVG	
	enumeration	DIFF	
	enumeration	RMS	
	enumeration	MAX	
	enumeration	MIN	
	enumeration	RANGE	
	enumeration	AVGRNG	
	enumeration	STDDEV	
	enumeration	SKEW	
	enumeration	KURT	
	enumeration	NORM	
	enumeration	PROVAR	
	enumeration	ESTSTDV	
	enumeration	UCL	
	enumeration	LCL	
	enumeration	UCLRNG	
	enumeration	LCLRNG	
	enumeration	NUMOOC	
	enumeration	NUMOOT	
	enumeration	NOOTHI	
	enumeration	NOOTLO	
	enumeration	CP	
	enumeration	CPK	
	enumeration	PP	
	enumeration	PPK	
	enumeration	CM	
	enumeration	CMK	
	enumeration	AV	
	enumeration	REL_AV	
	enumeration	EV	

	enumeration REL_EV enumeration INTERACTION enumeration REL_INTERACTION enumeration RANDR enumeration REL_RANDR enumeration PV enumeration REL_PV enumeration TV enumeration REL_TV enumeration LNRTY enumeration BIAS enumeration REL_LNRTY enumeration REL_BIAS enumeration R_SQR enumeration SLOPE enumeration INTCPT enumeration UPRCONFLIM enumeration LWRCONFLIM enumeration TDIST
annotation	documentation The SummaryType element is the type of statistical value being summarized.

element SummaryStatisticsType/Average

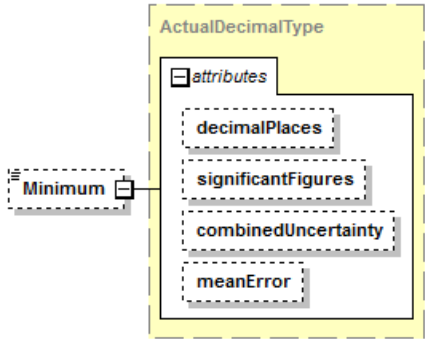
diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the

	meanError NonNegativeDecimalType	SpecifiedDecimalType. documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Average element is the average of the statistical value corresponding to the "AVG" StatsValuesEnumType enumeration.	

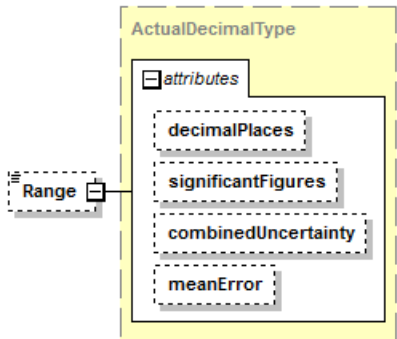
element **SummaryStatisticsType/Maximum**

diagram						
type	ActualDecimalType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation	The optional Maximum element is the maximum of the statistical value corresponding to the "MAX" StatsValuesEnumType enumeration.				

element **SummaryStatisticsType/Minimum**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	Name	Type	Use	Default	Fixed	Annotation
	decimalPlaces	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	significantFigures	xs:nonNegativeInteger				documentation See documentation of SpecifiedDecimalType.
	combinedUncertainty	NonNegativeDecimalType				documentation The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.
	meanError	NonNegativeDecimalType				documentation The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional Minimum element is the Minimum of the statistical value corresponding to the "MIN" StatsValuesEnumType enumeration.					

element **SummaryStatisticsType/Range**

diagram						
type	ActualDecimalType					

properties	minOcc 0 maxOcc 1 content complex					
attributes	<div> <div>Name</div> <div>decimalPlaces</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div> <div>Use</div> <div>Default</div> <div>Fixed</div> <div> <div>Annotation</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</div> </div>					
	<div> <div>significantFigures</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div>					
	<div> <div>combinedUncertainty</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					
	<div> <div>meanError</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					
annotation	documentation The optional Range element is the range of the statistical value corresponding to the "RANGE" StatsValuesEnumType enumeration.					

element **SummaryStatisticsType/StandardDeviation**

diagram						
type	ActualDecimalType					
properties	minOcc 0 maxOcc 1 content complex					
attributes	<div> <div>Name</div> <div>decimalPlaces</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div> <div>Use</div> <div>Default</div> <div>Fixed</div> <div> <div>Annotation</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>See documentation of SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional combinedUncertainty attribute is a value expressing the combined uncertainty assigned to the SpecifiedDecimalType.</div> <div>documentation</div> <div>The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.</div> <div>documentation</div> </div>					
	<div> <div>significantFigures</div> </div> <div> <div>Type</div> <div>xs:nonNegativeInteger</div> </div>					
	<div> <div>combinedUncertainty</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					
	<div> <div>meanError</div> </div> <div> <div>Type</div> <div>NonNegativeDecimalType</div> </div>					

		The optional meanError attribute is a value expressing the mean error assigned to the SpecifiedDecimalType.
annotation	documentation The optional StandardDeviation element is the standard deviation of the statistical value corresponding to the "STDDEV" StatsValuesEnumType enumeration.	

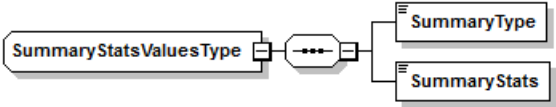
complexType **SummaryStatisticsUserDefinedUnitType**

diagram						
type	extension of SummaryStatisticsType					
properties	base SummaryStatisticsType					
children	SummaryType Average Maximum Minimum Range StandardDeviation					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute defines the UnitName for the SummaryStatisticsUserDefinedUnitType.
annotation	documentation The SummaryStatisticsUserDefinedUnitType defines a summary of a single user-defined unit statistical value. This type is not to be used for units available in another user-defined summary statistics type. In particular this type is not to be used with linear units, angular units, or units of temperature, area, force, mass, pressure, speed, or time. The information can be common to more than one user-defined characteristic.					

attribute **SummaryStatisticsUserDefinedUnitType/@unitName**

type	xs:token
properties	use required
annotation	documentation The (required) unitName attribute defines the UnitName for the SummaryStatisticsUserDefinedUnitType.


complexType **SummaryStatsValuesType**

diagram	
children	SummaryType SummaryStats
annotation	documentation The SummaryStatsValuesType defines a the summary values to accumulated for a statistical value. For example, the average Cpk and the worst (minimum) Cpk value over all characteristics may be summarized.

element **SummaryStatsValuesType/SummaryType**

diagram	<div><div><div></div></div><div>SummaryType</div></div>																		
type	SummaryStatsValuesEnumType																		
properties	content simple																		
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>AVG</td><td></td></tr><tr><td>enumeration</td><td>MAX</td><td></td></tr><tr><td>enumeration</td><td>MIN</td><td></td></tr><tr><td>enumeration</td><td>RANGE</td><td></td></tr><tr><td>enumeration</td><td>STDDEV</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	AVG		enumeration	MAX		enumeration	MIN		enumeration	RANGE		enumeration	STDDEV	
Kind	Value	Annotation																	
enumeration	AVG																		
enumeration	MAX																		
enumeration	MIN																		
enumeration	RANGE																		
enumeration	STDDEV																		
annotation	<div>documentation</div> <div>The SummaryType element defines the type of summary value to which the list of accumulated statistics applies.</div>																		

element **SummaryStatsValuesType/SummaryStats**

diagram	
type	ListSummaryStatsValuesType
properties	content simple
annotation	documentation The SummaryStats element defines a list of statistical values to be included in the summary of a statistical value.

complexType **SurfaceProfileCharacteristicStatsEvalType**

diagram	
type	extension of ProfileCharacteristicStatsEvalBaseType
properties	base ProfileCharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod WorstPositiveDeviationStats WorstNegativeDeviationStats PointDeviationsStats DatumsOkStats CompositeSegmentsStats
used by	element SurfaceProfileCharacteristicStats
annotation	<p>documentation</p> <p>The SurfaceProfileCharacteristicStatsEvalType defines the results of a statistical evaluation of actual profile of a surface characteristics.</p>

complexType **SurfaceProfileNonUniformCharacteristicStatsEvalType**

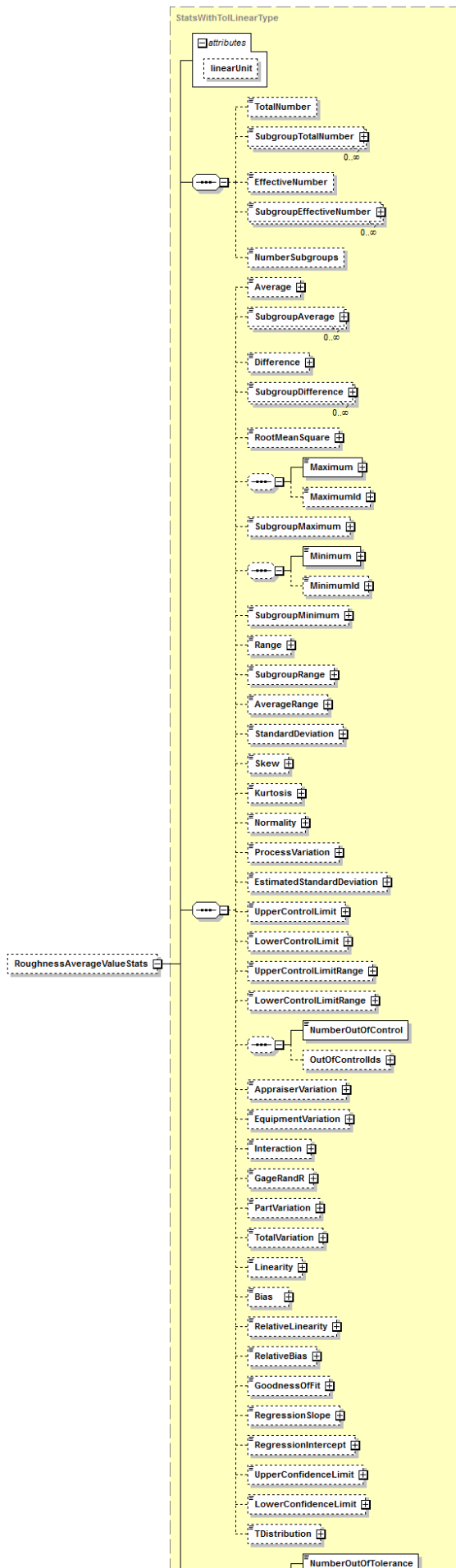
diagram	
type	extension of ProfileCharacteristicStatsEvalBaseType
properties	base ProfileCharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod WorstPositiveDeviationStats WorstNegativeDeviationStats PointDeviationsStats DatumsOkStats CompositeSegmentsStats
used by	element SurfaceProfileNonUniformCharacteristicStats
annotation	<p>documentation</p> <p>The SurfaceProfileNonUniformCharacteristicStatsEvalType defines the results of a statistical evaluation of actual non-uniform profile of a surface characteristics.</p>

complexType **SurfaceTextureCharacteristicStatsEvalType**

diagram	<p>The diagram shows the structure of the SurfaceTextureCharacteristicStatsEvalType complex type. It is an extension of CharacteristicStatsEvalBaseType. The structure is as follows:</p> <ul style="list-style-type: none"> Attributes (sequence) A choice between ActualIds and Subgroup (sequence), with a cardinality of 1..∞. Status (sequence) StudyIssue (sequence) DistributionTransformation (sequence) RoughnessAverageValueStats (sequence)
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation RoughnessAverageValueStats
used by	element SurfaceTextureCharacteristicStats
annotation	<p>documentation</p> <p>The SurfaceTextureCharacteristicStatsEvalType defines the results of a statistical evaluation of actual surface texture characteristics.</p>

element **SurfaceTextureCharacteristicStatsEvalType/RoughnessAverageValueStats**

diagram



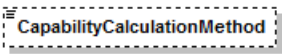
type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional RoughnessAverageValueStats element is the result of a statistical evaluation of measured Roughness Average (Ra) values.					

complexType **SymmetryCharacteristicStatsEvalType**

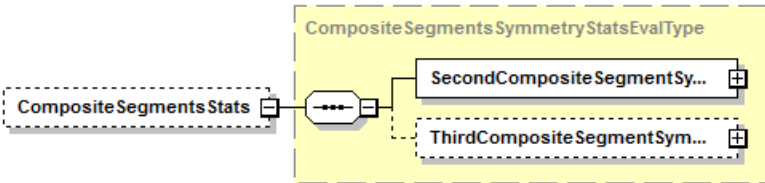
diagram						
type	extension of LocationCharacteristicStatsEvalType					
properties	base	LocationCharacteristicStatsEvalType				

children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DatumsOkStats CapabilityCalculationMethod CompositeSegmentsStats
used by	element SymmetryCharacteristicStats
annotation	documentation The SymmetryCharacteristicStatsEvalType defines the results of a statistical evaluation of actual symmetry characteristics.

element **SymmetryCharacteristicStatsEvalType/CapabilityCalculationMethod**

diagram	 A dashed rectangular box containing the text "CapabilityCalculationMethod".
type	OneSidedCapabilityCalculationEnumType
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA
annotation	documentation The optional CapabilityCalculationMethod element is the method used to calculate process capability for this one-sided tolerance.

element **SymmetryCharacteristicStatsEvalType/CompositeSegmentsStats**

diagram	 A diagram showing a dashed rectangular box labeled "CompositeSegments Stats" connected by a line to a yellow rectangular box labeled "CompositeSegments Symmetry StatsEvalType". Inside the yellow box, there are two sub-elements: "SecondComposite Segment Sy..." and "ThirdComposite Segment Sym...", each with a plus sign in a box to its right.
type	CompositeSegmentsSymmetryStatsEvalType
properties	minOcc 0 maxOcc 1 content complex
children	SecondCompositeSegmentSymmetryStats ThirdCompositeSegmentSymmetryStats
annotation	documentation The optional CompositeSegmentsStats element is the results of a statistical evaluation of actual composite segments.

complexType **ThicknessCharacteristicStatsEvalType**

diagram	
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element ThicknessCharacteristicStats
annotation	documentation The ThicknessCharacteristicStatsEvalType defines the results of a statistical evaluation of actual thickness characteristics.

complexType ThreadCharacteristicStatsEvalType

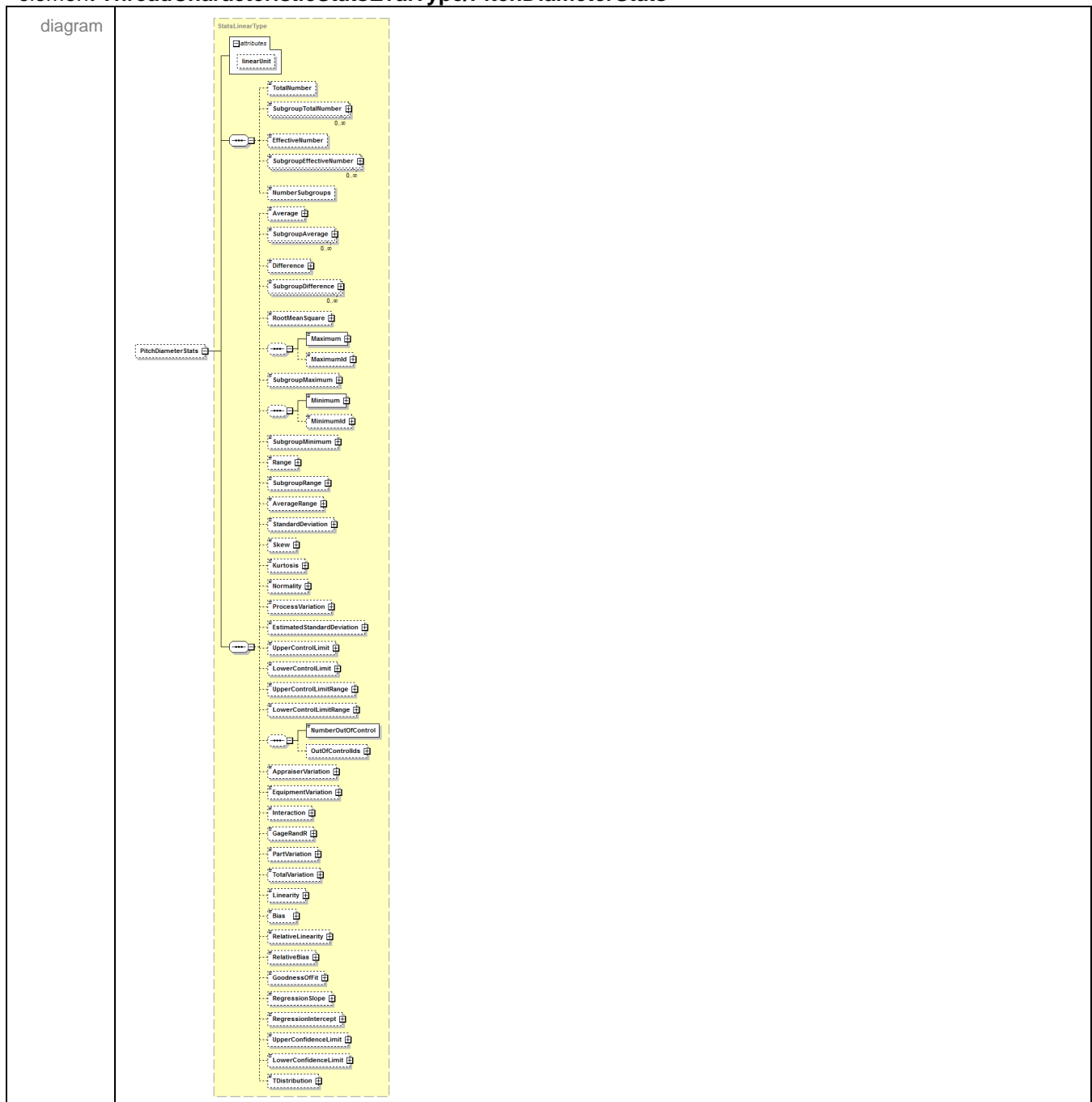
diagram	
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ThreadStats PitchDiameterStats FunctionalSizeStats
used by	element ThreadCharacteristicStats
annotation	documentation The ThreadCharacteristicStatsEvalType defines the results of a statistical evaluation of thread characteristics.

element ThreadCharacteristicStatsEvalType/ThreadStats

diagram	
type	StatsPassFailType

properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups FailurePercentage NumberFailures
annotation	documentation The optional ThreadStats element is the result of a statistical evaluation of the pass/fail condition of actual measured threads.

element ThreadCharacteristicStatsEvalType/PitchDiameterStats



type	StatsLinearType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional PitchDiameterStats element is the result of a statistical evaluation of the pitch diameter.					

element **ThreadCharacteristicStatsEvalType/FunctionalSizeStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional FunctionalSizeStats element is the result of a statistical evaluation of the functional size.					

complexType **TotalRunoutCharacteristicStatsEvalType**

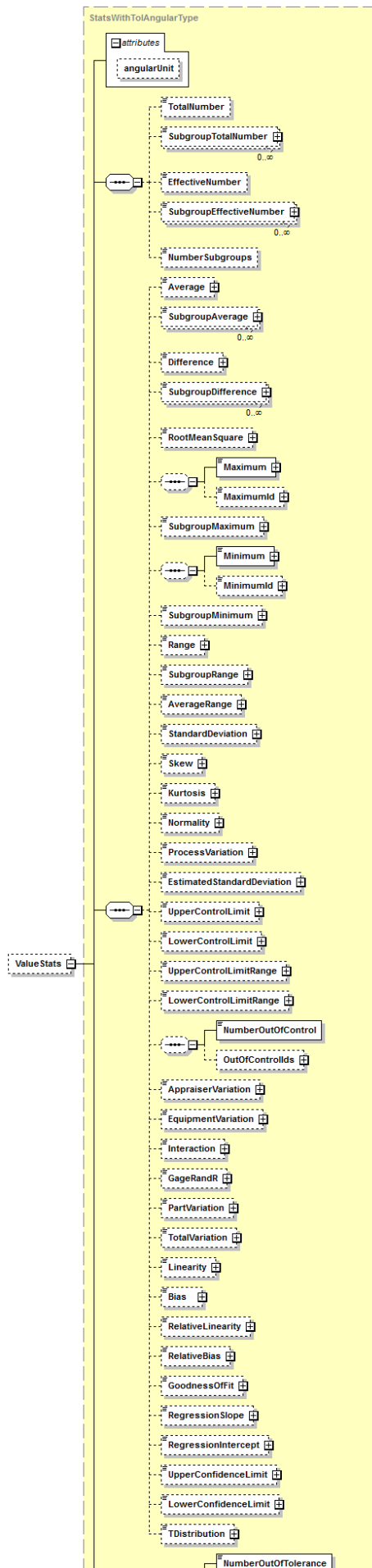
diagram						
type	extension of RunoutCharacteristicStatsEvalBaseType					
properties	base RunoutCharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats CapabilityCalculationMethod DatumsOkStats					
used by	element TotalRunoutCharacteristicStats					
annotation	documentation The TotalRunoutCharacteristicStatsEvalType defines the results of a statistical evaluation of actual total runout characteristics.					

complexType **UserDefinedAngularCharacteristicStatsEvalType**

diagram	<p>The diagram illustrates the structure of the UserDefinedAngularCharacteristicStatsEvalType complex type. It is an extension of CharacteristicStatsEvalBaseType. The structure is as follows:</p> <ul style="list-style-type: none"> UserDefinedAngularCharacteristicStatsEvalType (Root) <ul style="list-style-type: none"> Attributes (Sequence) Choice (Sequence) <ul style="list-style-type: none"> ActualIds (Sequence) Subgroup (Sequence, 1..∞) Status (Sequence) StudyIssue (Sequence) DistributionTransformation (Sequence) Choice (Sequence) <ul style="list-style-type: none"> ValueStats (Sequence) MaxValueStats (Sequence) MinValueStats (Sequence) DeviationStats (Sequence) MaxDeviationStats (Sequence) MinDeviationStats (Sequence)
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element UserDefinedAngularCharacteristicStats
annotation	<p>documentation</p> <p>The UserDefinedAngularCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with angular units or their deviations from nominal. This user defined type is not to be used where an appropriate type already exists, in particular it is not to be used for: angle-between, angle (the feature angle: included, draft, taper), angular-coordinate or angle-from.</p>

element **UserDefinedAngularCharacteristicStatsEvalType/ValueStats**

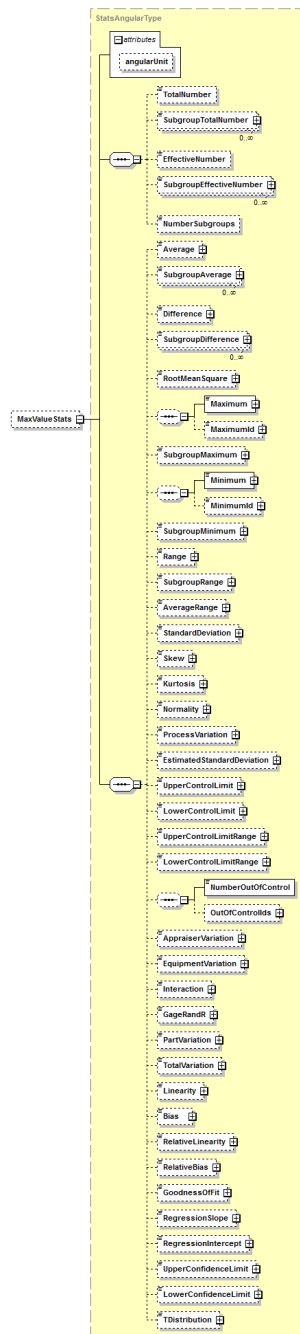
diagram



type	StatsWithTolAngularType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedAngularCharacteristicStatsEvalType/MaxValueStats**

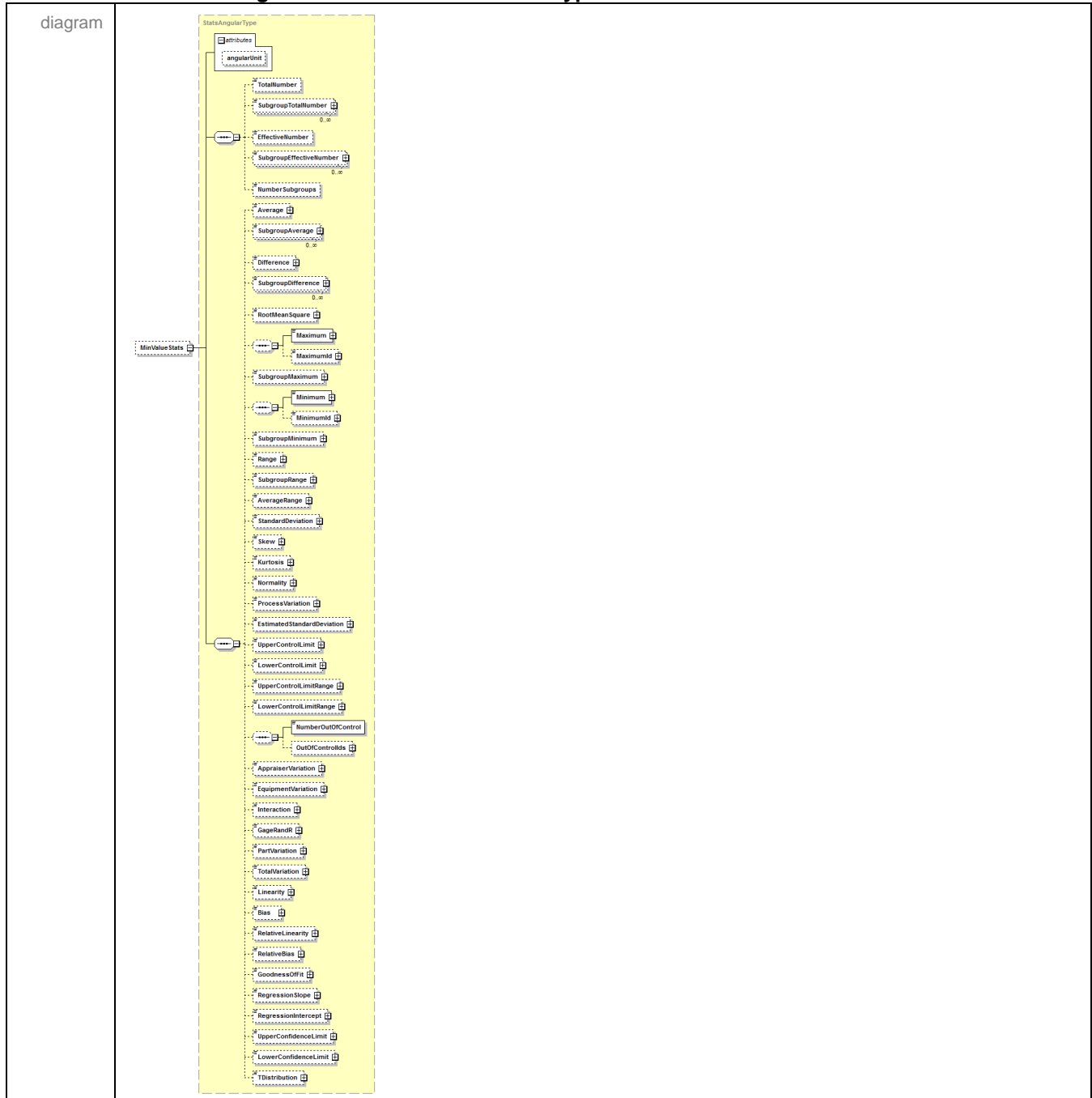
diagram



type	StatsAngularType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit

	<u>TDistribution</u>					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

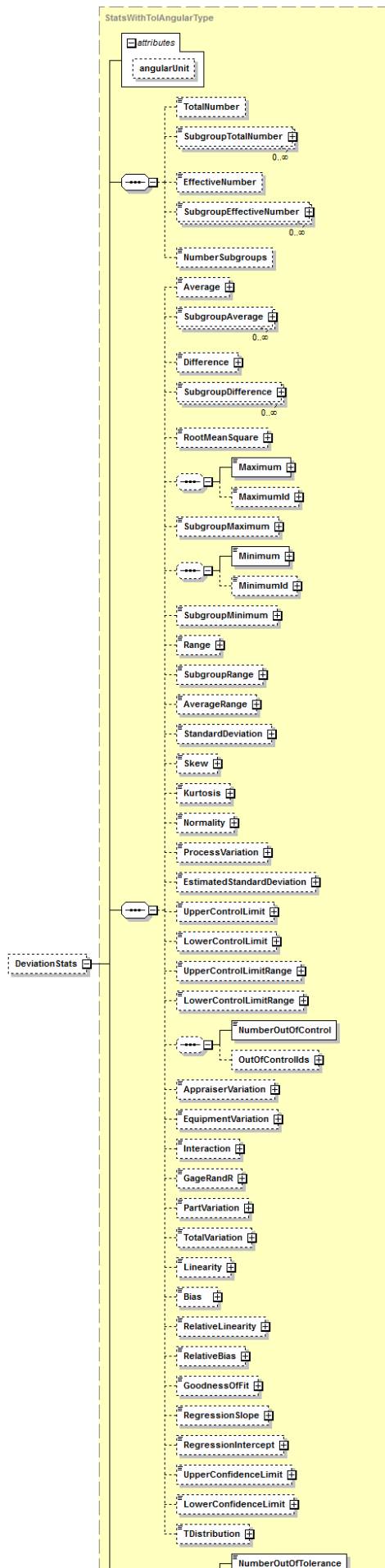
element **UserDefinedAngularCharacteristicStatsEvalType/MinValueStats**



type	StatsAngularType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name	Type	Use	Default	Fixed	Annotation
	angularUnit	xs:token				documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedAngularCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolAngularType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumIld SubgroupMaximum Minimum MinimumIld SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIlds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsWithTolAngularType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedAngularCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsAngularType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	<u>TDistribution</u>					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedAngularCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsAngularType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

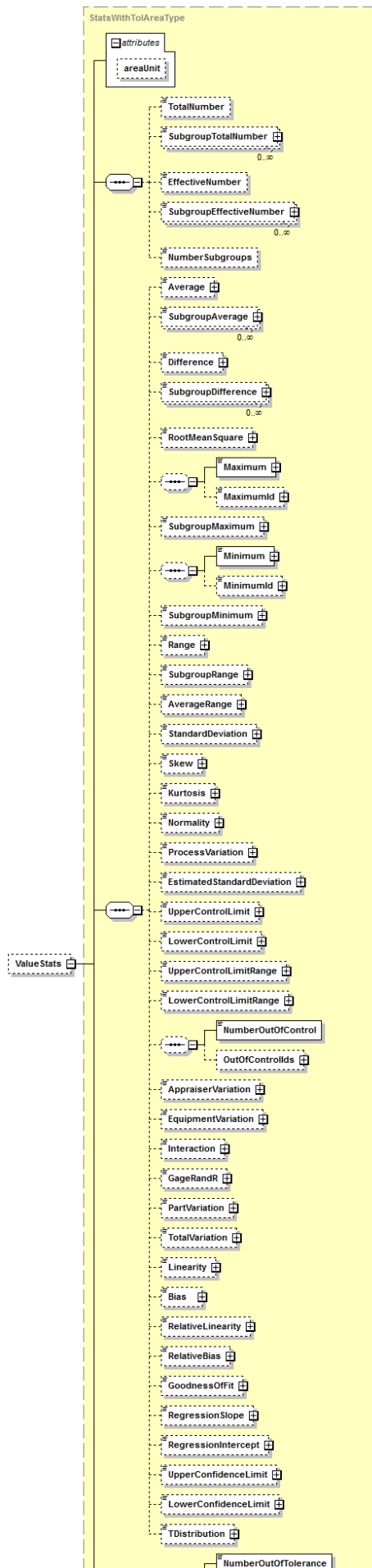
	TDistribution					
attributes	Name angularUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional angularUnit attribute defines the unit used by StatsAngularType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedAreaCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedAreaCharacteristicStats					
annotation	documentation The UserDefinedAreaCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with area units or their deviations from nominal.					

element **UserDefinedAreaCharacteristicStatsEvalType/ValueStats**

diagram



type	StatsWithTolAreaType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsWithTolAreaType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

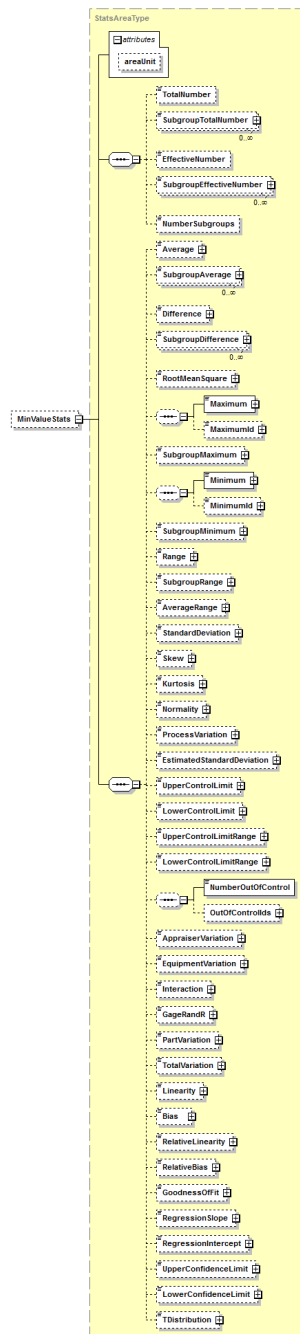
element **UserDefinedAreaCharacteristicStatsEvalType/MaxValueStats**

diagram	
type	StatsAreaType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	TDistribution					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsAreaType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

element **UserDefinedAreaCharacteristicStatsEvalType/MinValueStats**

diagram

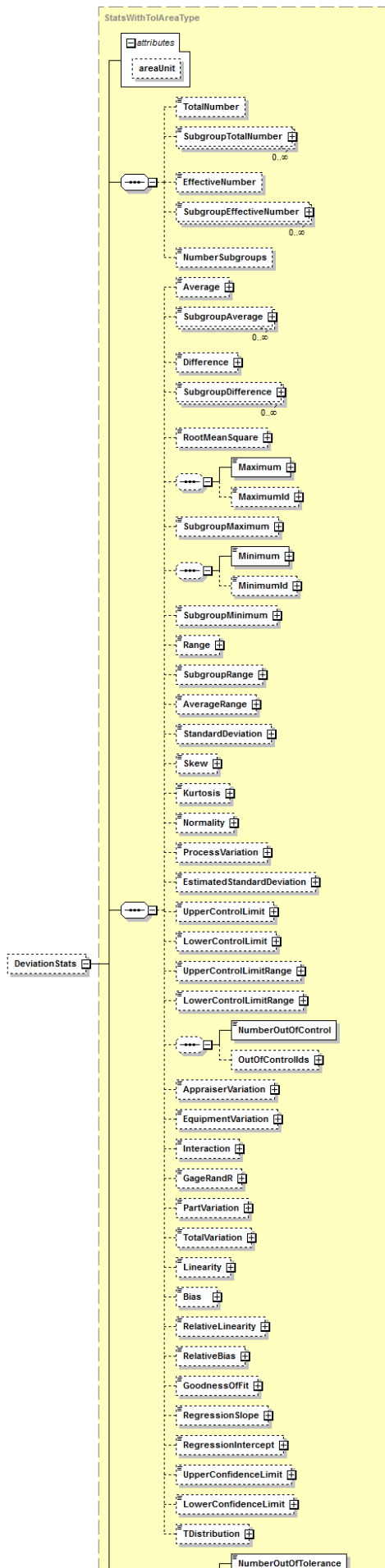


type	StatsAreaType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsAreaType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedAreaCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolAreaType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsWithTolAreaType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedAreaCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsAreaType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsAreaType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedAreaCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsAreaType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	<u>TDistribution</u>					
attributes	Name areaUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional areaUnit attribute defines the unit used by StatsAreaType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedAttributeCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation AttributeStats					
used by	element UserDefinedAttributeCharacteristicStats					
annotation	documentation The UserDefinedAttributeCharacteristicStatsEvalType defines the results of a statistical evaluation of non-numerical attribute values.					

element **UserDefinedAttributeCharacteristicStatsEvalType/AttributeStats**

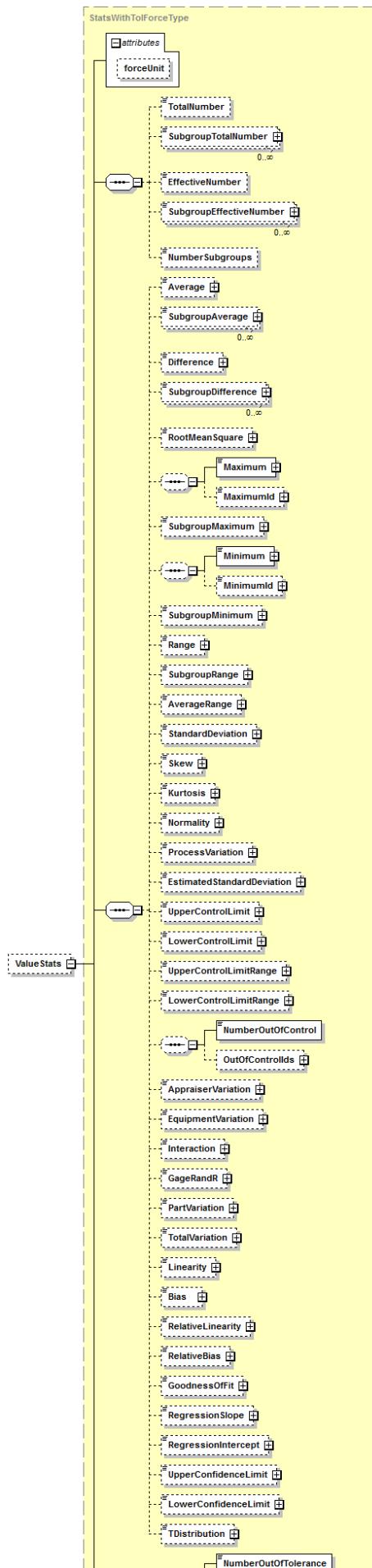
diagram	
type	StatsPassFailType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups FailurePercentage NumberFailures
annotation	documentation The optional AttributeStats element is the result of a statistical evaluation of actual measured attributes.

complexType **UserDefinedForceCharacteristicStatsEvalType**

diagram	<p>The diagram illustrates the structure of the UserDefinedForceCharacteristicStatsEvalType complex type. It is an extension of the CharacteristicStatsEvalBaseType. The structure is as follows:</p> <ul style="list-style-type: none"> Attributes (dashed box) A choice between ActualIds and Subgroup (dashed box), with a cardinality of 1..∞. Status (dashed box) StudyIssue (dashed box) DistributionTransformation (dashed box) A choice between ValueStats, MaxValueStats, MinValueStats, DeviationStats, MaxDeviationStats, and MinDeviationStats (dashed boxes).
type	extension of CharacteristicStatsEvalBaseType
properties	base CharacteristicStatsEvalBaseType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element UserDefinedForceCharacteristicStats
annotation	<p>documentation</p> <p>The UserDefinedForceCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with force units or their deviations from nominal.</p>

element **UserDefinedForceCharacteristicStatsEvalType/ValueStats**

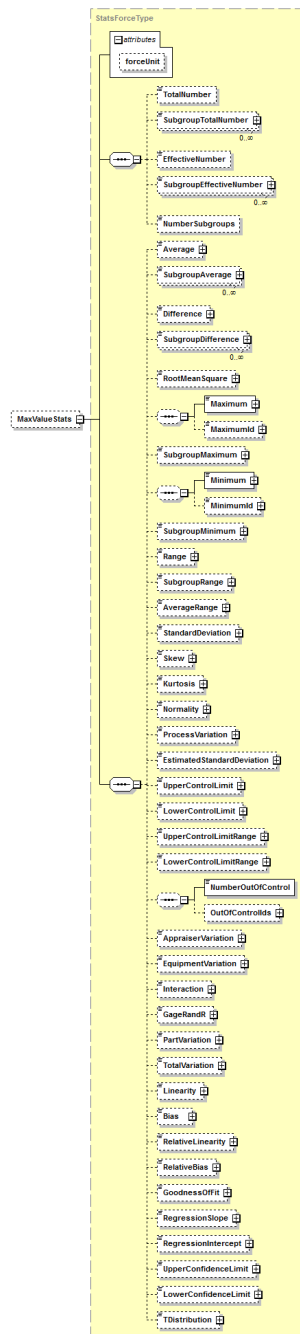
diagram



type	StatsWithTolForceType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsWithTolForceType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedForceCharacteristicStatsEvalType/MaxValueStats**

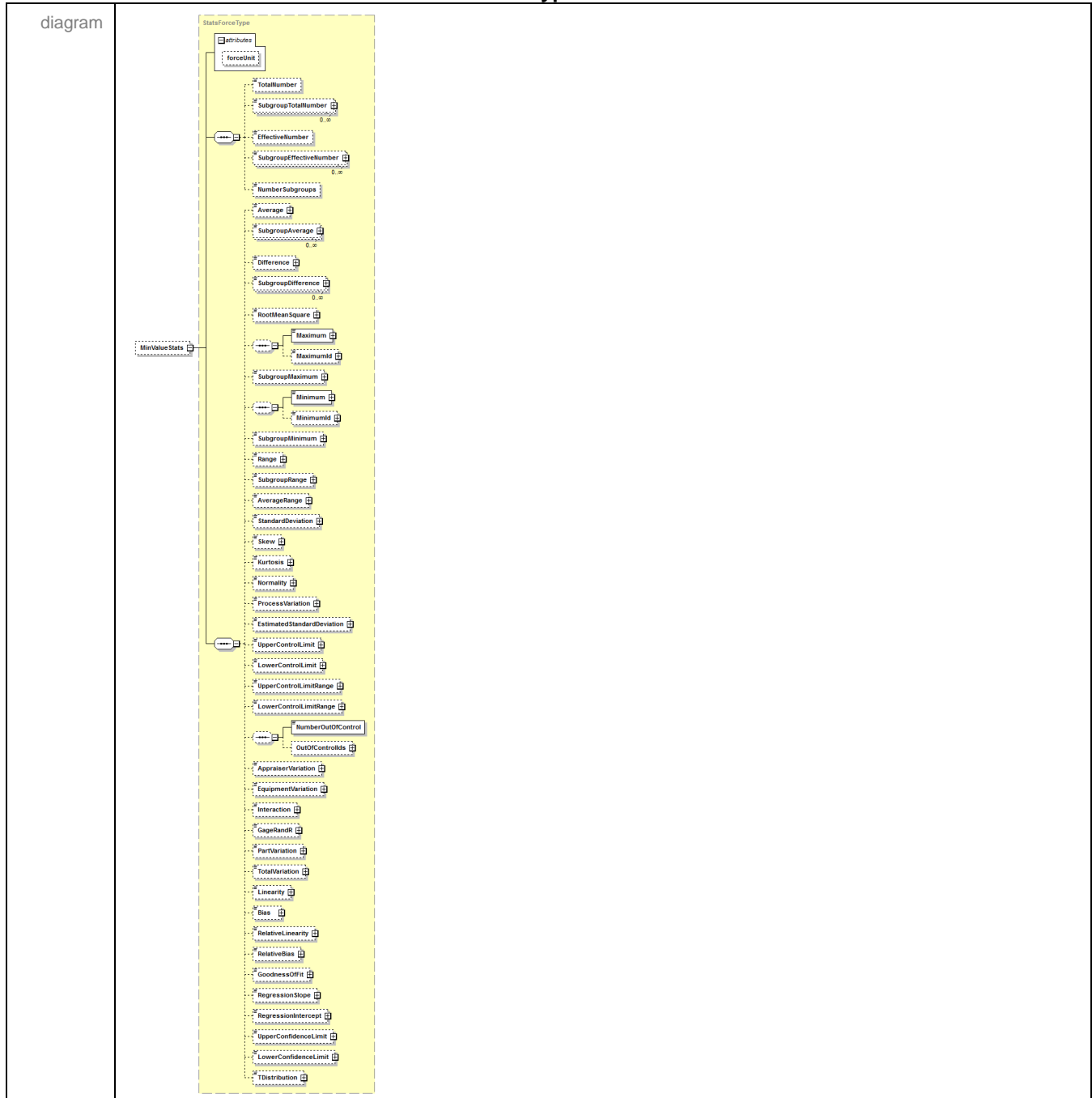
diagram



type	StatsForceType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsForceType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

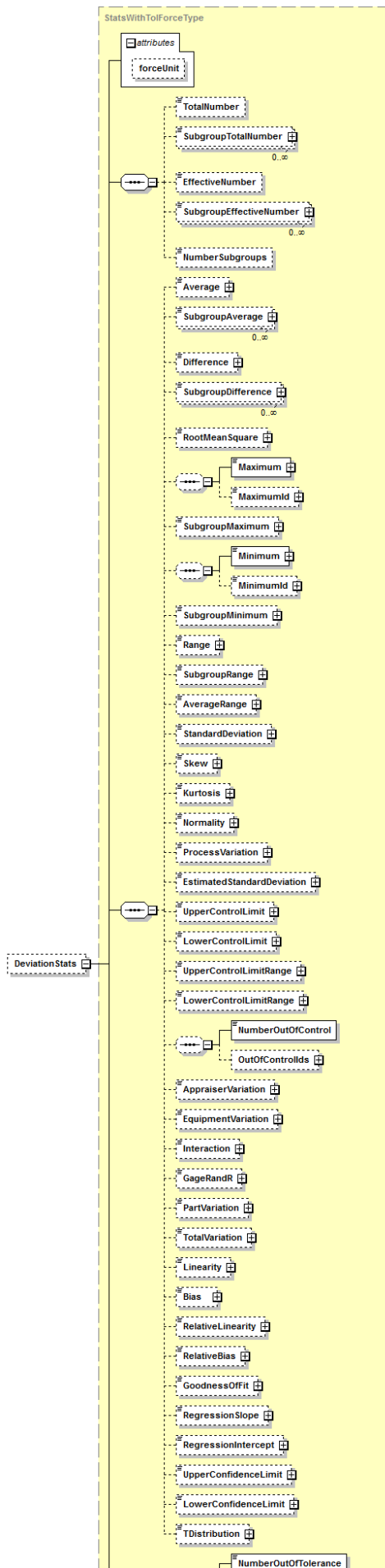
element **UserDefinedForceCharacteristicStatsEvalType/MinValueStats**



type	StatsForceType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsForceType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedForceCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolForceType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsWithTolForceType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedForceCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsForceType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

	TDistribution					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsForceType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedForceCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsForceType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

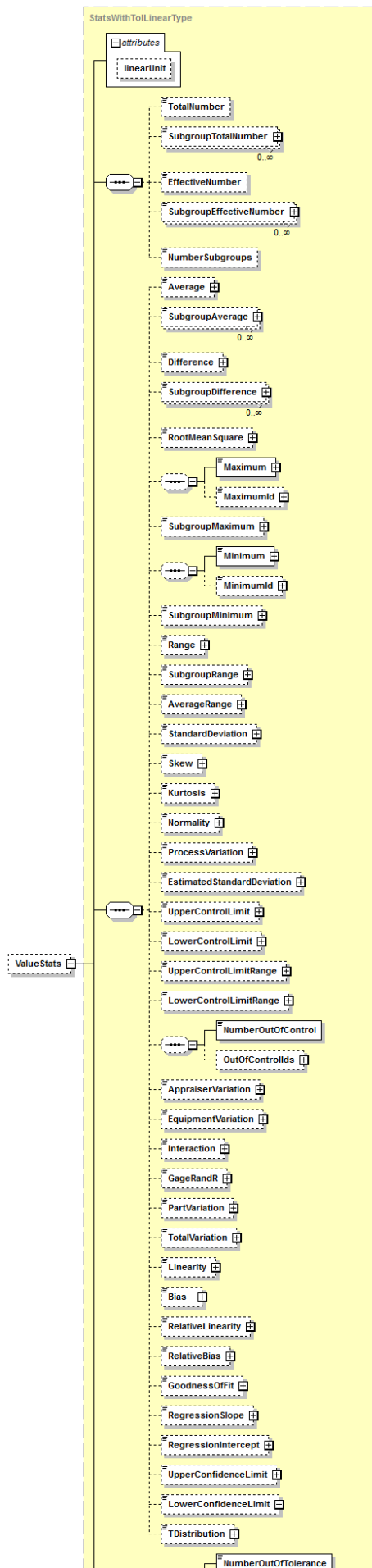
	TDistribution					
attributes	Name forceUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional forceUnit attribute defines the unit used by StatsForceType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType UserDefinedLinearCharacteristicStatsEvalType

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedLinearCharacteristicStats					
annotation	documentation The UserDefinedLinearCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with linear units or their deviations from nominal. This user defined type is not to be used where an appropriate type already exists. In particular it is not to be used for: angularity, chord, circularity, circular-runout, concentricity, curve-length, cylindricity, depth, diameter, distance-between, distance-from, flatness, height, length, linear-coordinate, line-profile, parallelism, perpendicularity, point-profile, position, radius, square, straightness, surface-profile, surface-texture, symmetry, thickness, total-runout or width.					

element **UserDefinedLinearCharacteristicStatsEvalType/ValueStats**

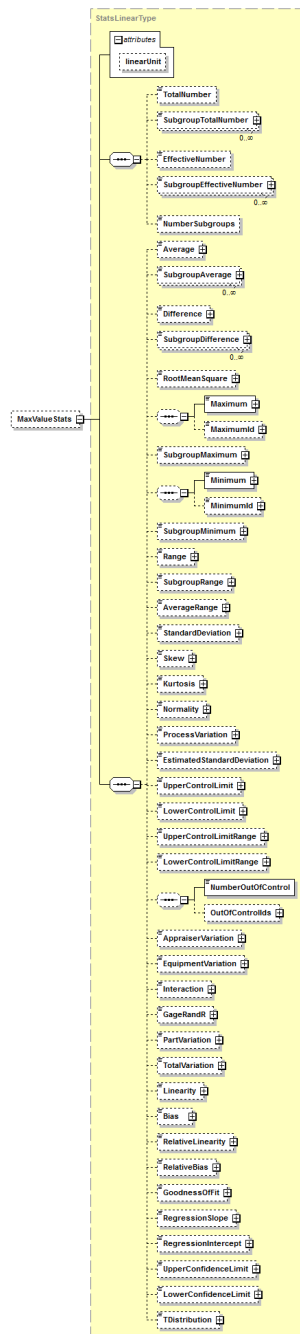
diagram



type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedLinearCharacteristicStatsEvalType/MaxValueStats**

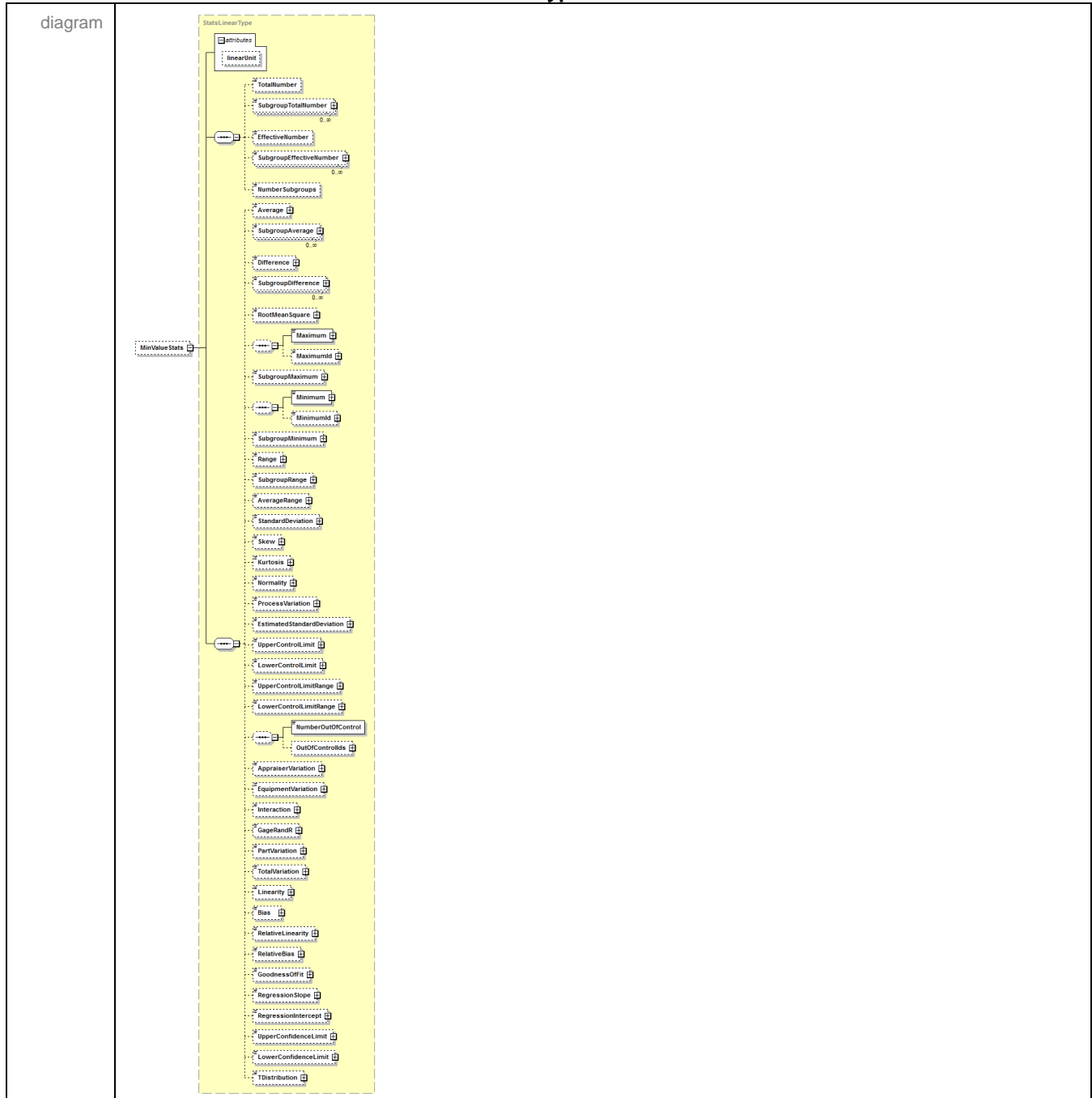
diagram



type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>linearUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

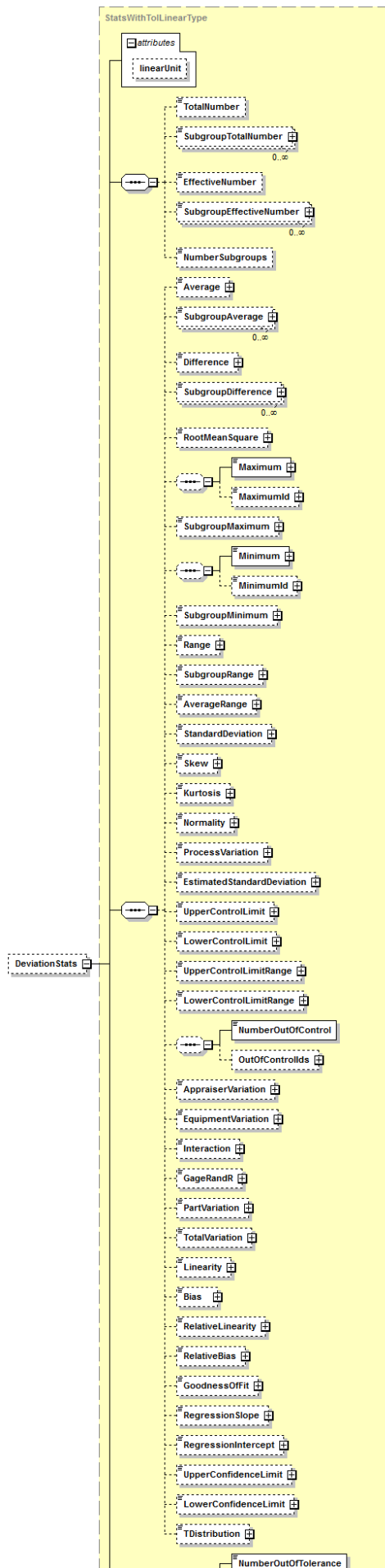
element **UserDefinedLinearCharacteristicStatsEvalType/MinValueStats**



type	StatsLinearType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedLinearCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolLinearType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsWithTolLinearType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedLinearCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedLinearCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsLinearType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

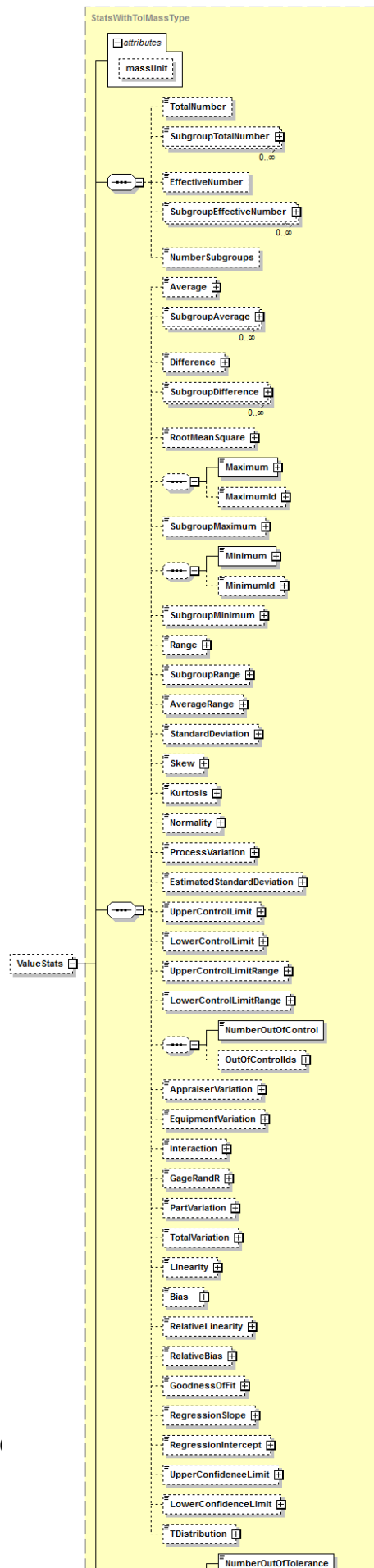
	TDistribution					
attributes	Name linearUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional linearUnit attribute defines the unit used by StatsLinearType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedMassCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedMassCharacteristicStats					
annotation	documentation The UserDefinedMassCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with mass units or their deviations from nominal.					

element **UserDefinedMassCharacteristicStatsEvalType/ValueStats**

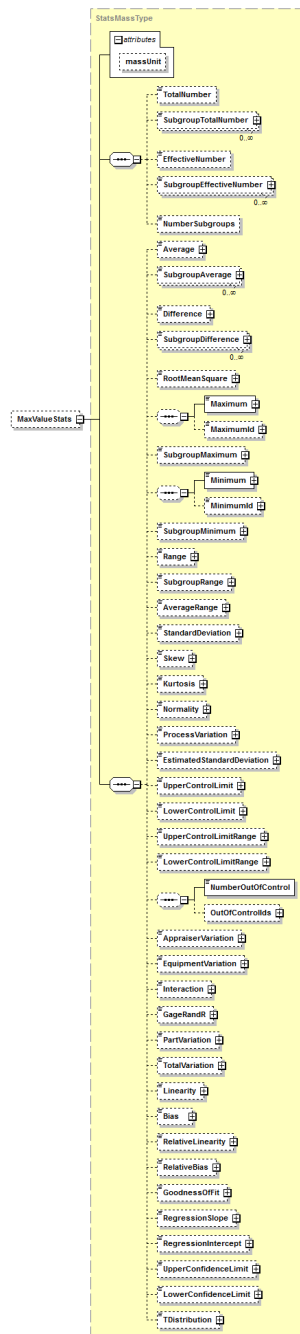
diagram



type	StatsWithTolMassType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsWithTolMassType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedMassCharacteristicStatsEvalType/MaxValueStats**

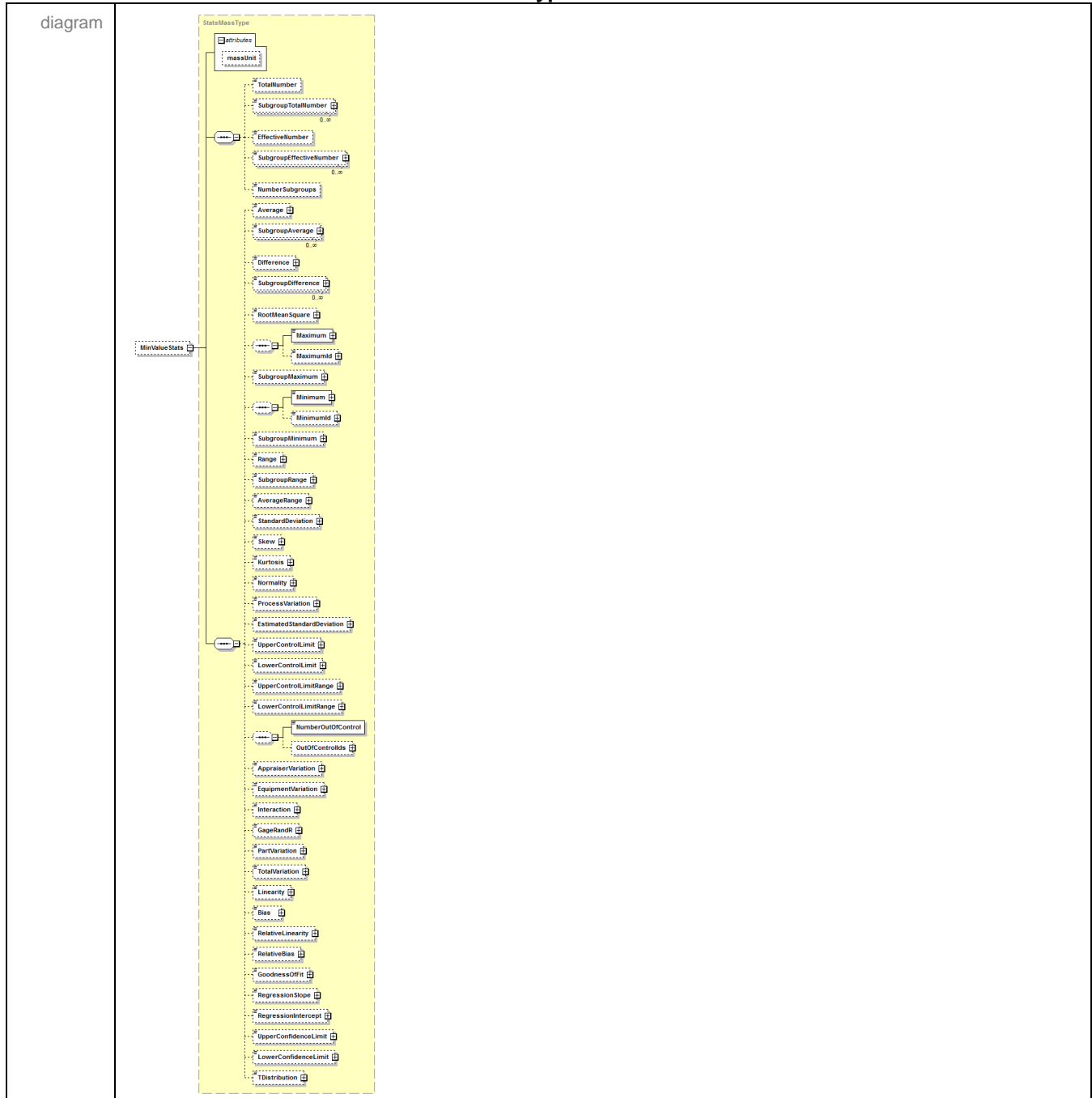
diagram



type	StatsMassType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsMassType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

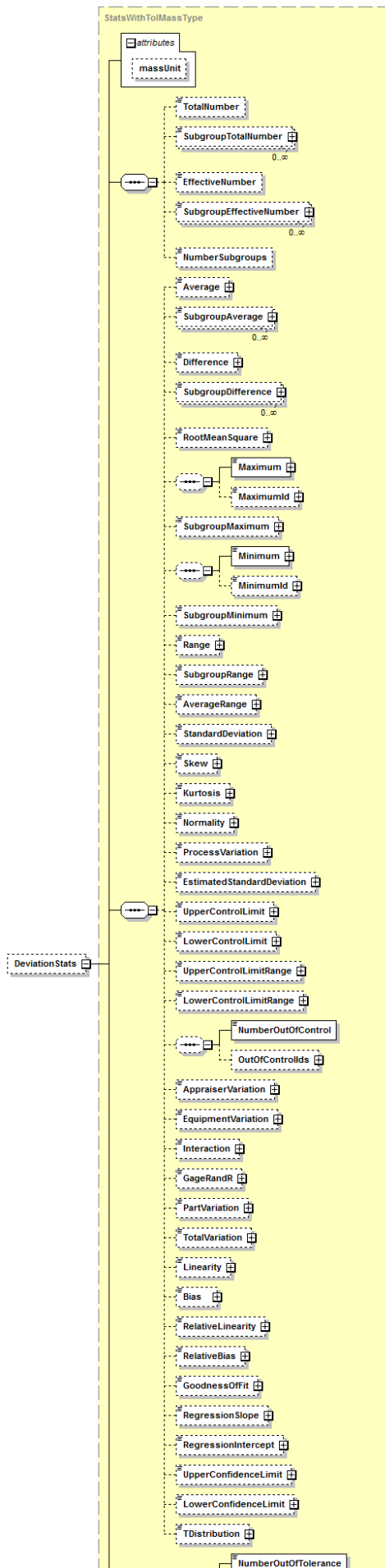
element **UserDefinedMassCharacteristicStatsEvalType/MinValueStats**



type	StatsMassType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsMassType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedMassCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolMassType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsWithTolMassType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedMassCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsMassType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsMassType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedMassCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsMassType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

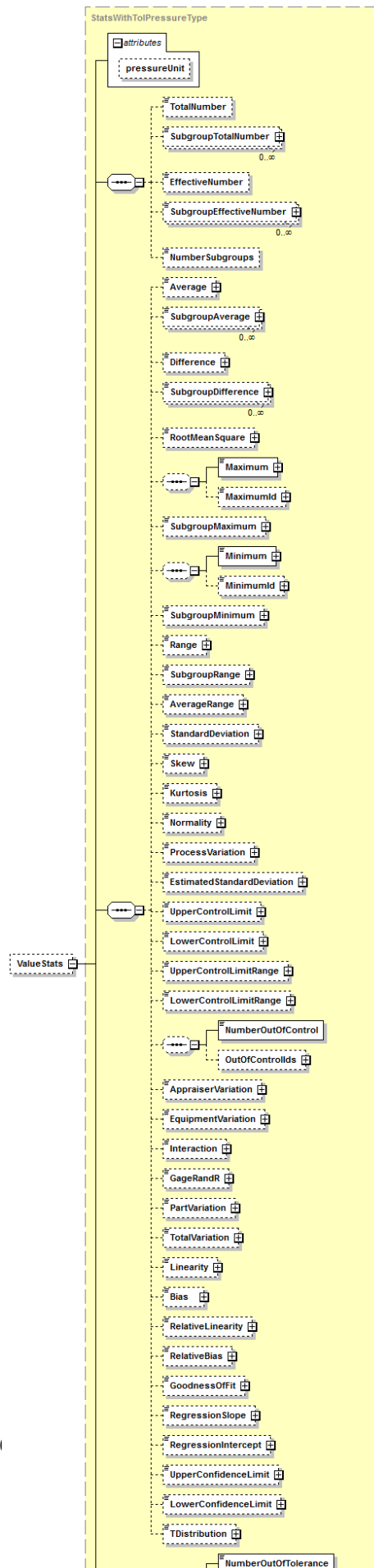
	TDistribution					
attributes	Name massUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional massUnit attribute defines the unit used by StatsMassType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedPressureCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedPressureCharacteristicStats					
annotation	documentation The UserDefinedPressureCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with pressure units or their deviations from nominal.					

element **UserDefinedPressureCharacteristicStatsEvalType/ValueStats**

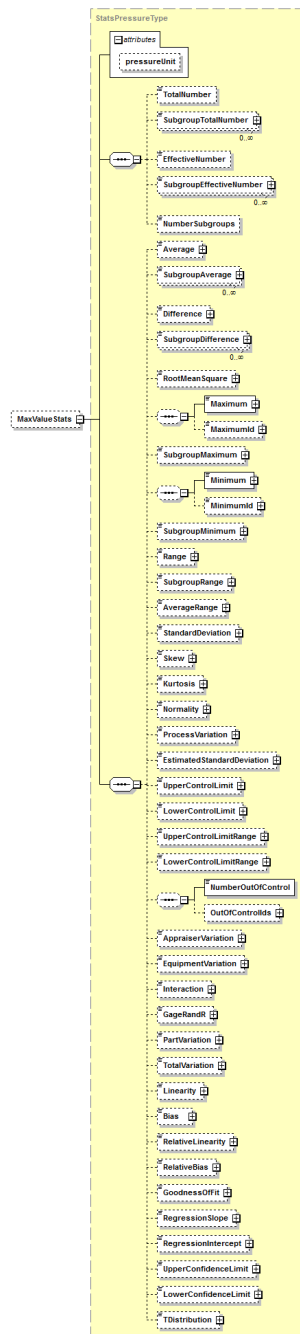
diagram



type	StatsWithTolPressureType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsWithTolPressureType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedPressureCharacteristicStatsEvalType/MaxValueStats**

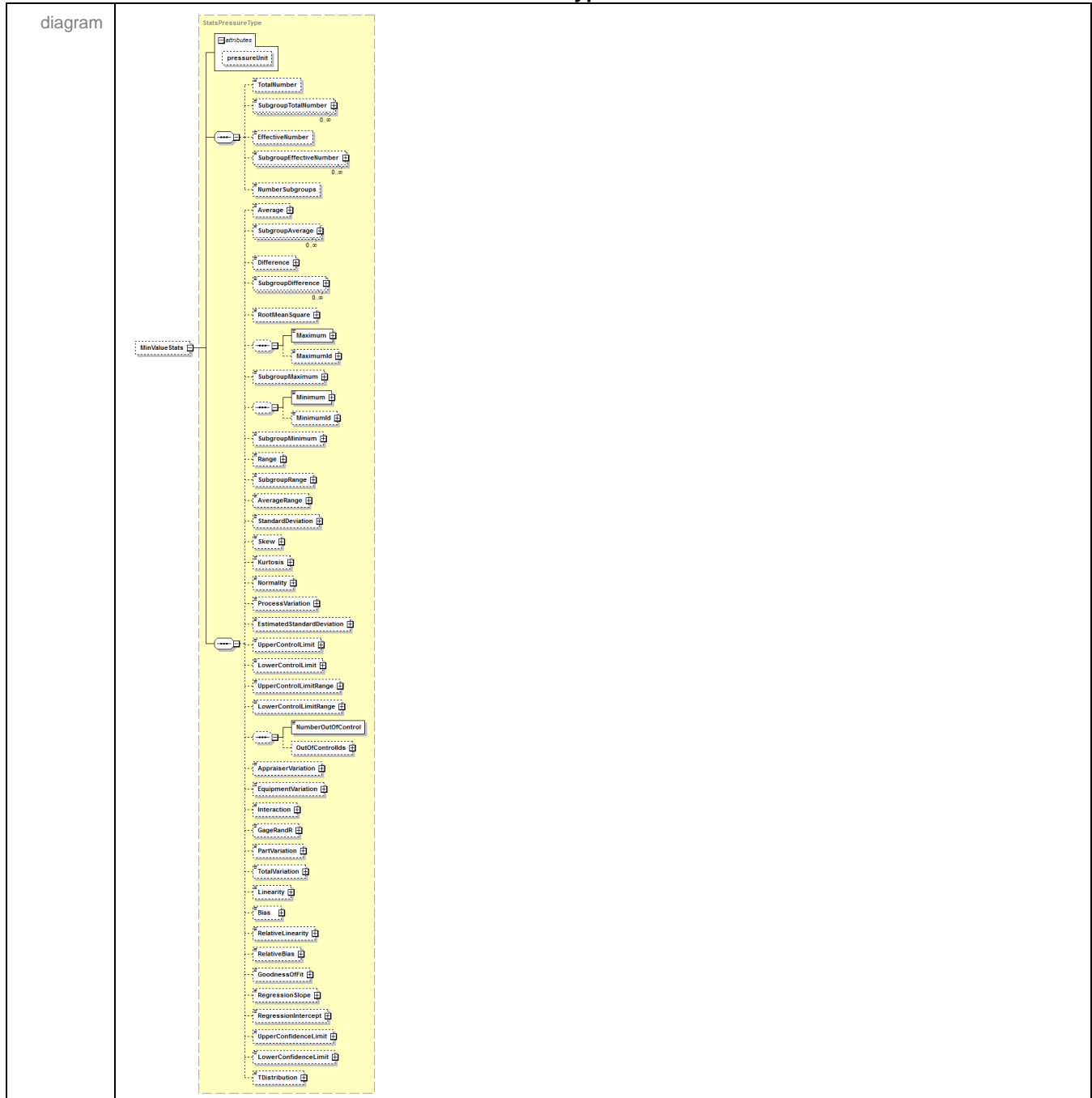
diagram



type	StatsPressureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>pressureUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

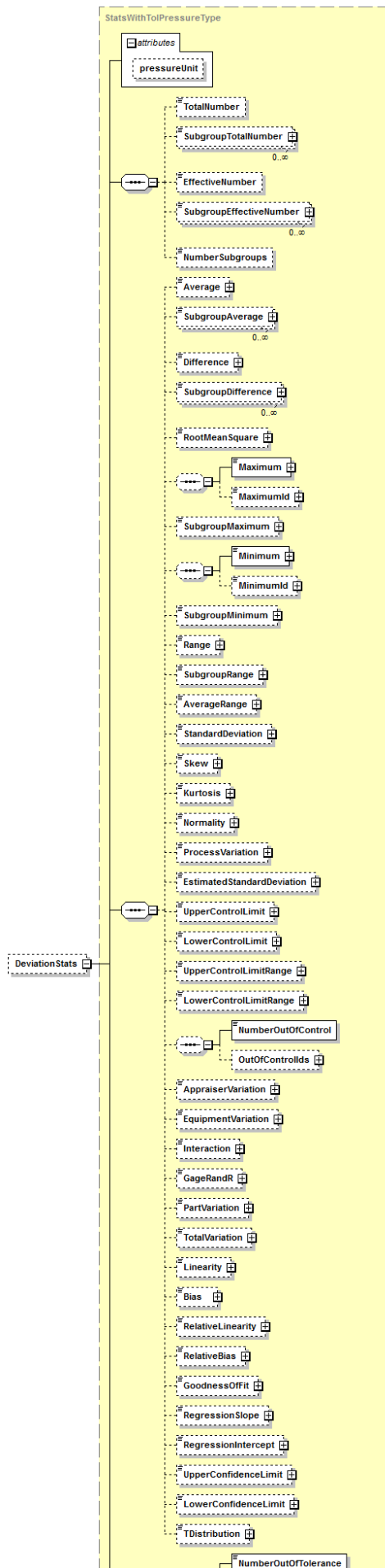
element **UserDefinedPressureCharacteristicStatsEvalType/MinValueStats**



type	StatsPressureType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name	Type	Use	Default	Fixed	Annotation
	pressureUnit	xs:token				documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedPressureCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolPressureType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsWithTolPressureType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedPressureCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsPressureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedPressureCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsPressureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

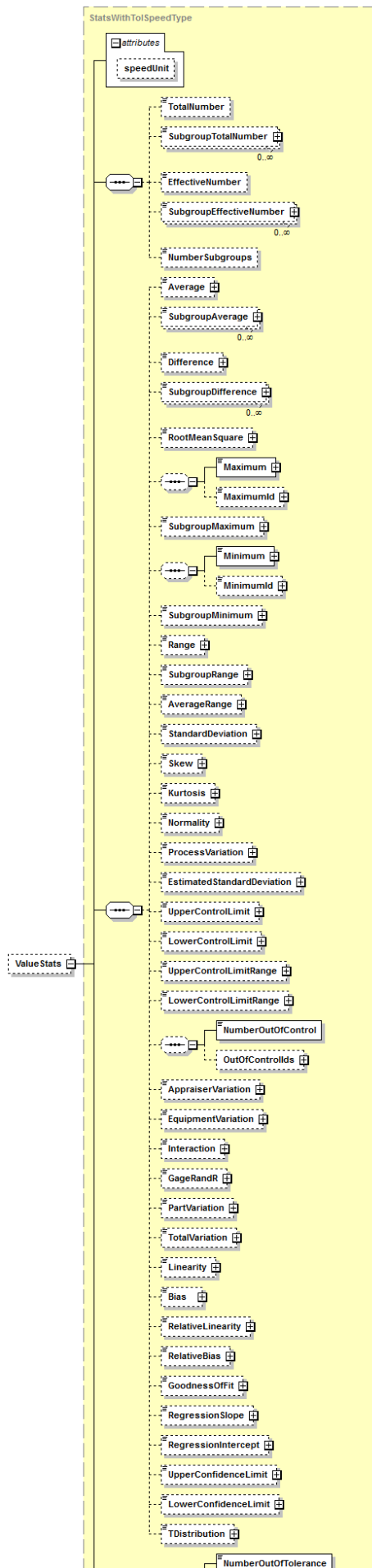
	TDistribution					
attributes	Name pressureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional pressureUnit attribute defines the unit used by StatsPressureType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType UserDefinedSpeedCharacteristicStatsEvalType

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedSpeedCharacteristicStats					
annotation	documentation The UserDefinedSpeedCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with speed units or their deviations from nominal.					

element **UserDefinedSpeedCharacteristicStatsEvalType/ValueStats**

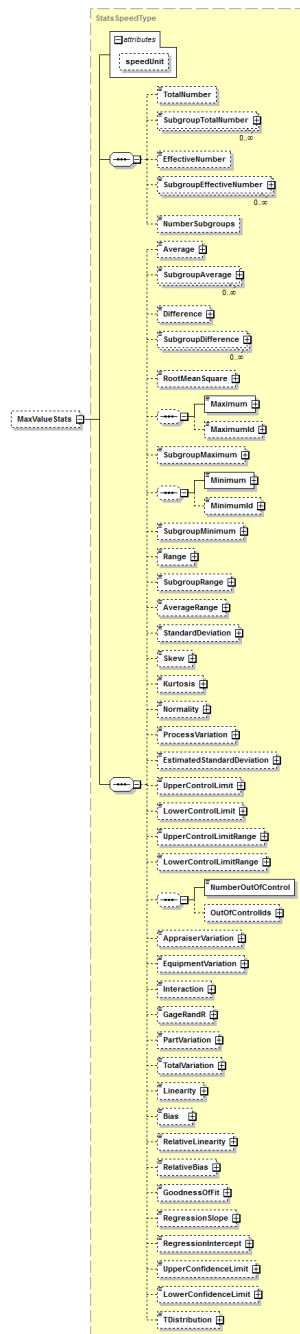
diagram



type	StatsWithTolSpeedType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the unit used by StatsWithTolSpeedType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedSpeedCharacteristicStatsEvalType/MaxValueStats**

diagram

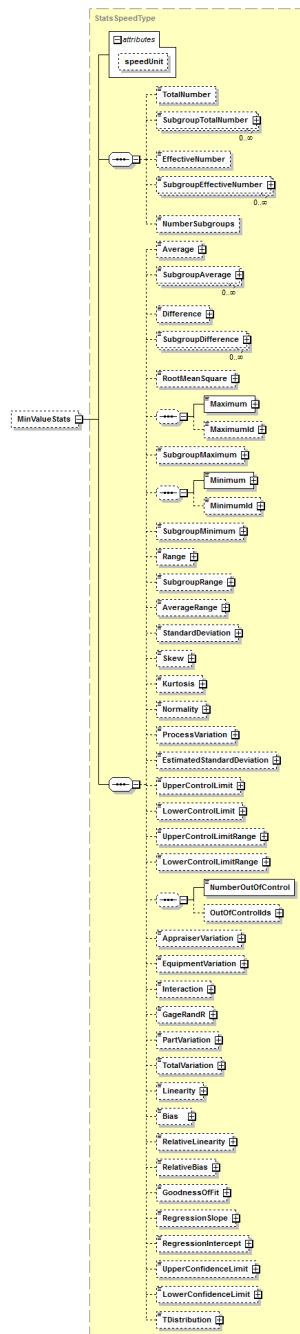


type	StatsSpeedType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	TDistribution					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit speedUnit attribute defines the unit used by StatsSpeedType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

element **UserDefinedSpeedCharacteristicStatsEvalType/MinValueStats**

diagram

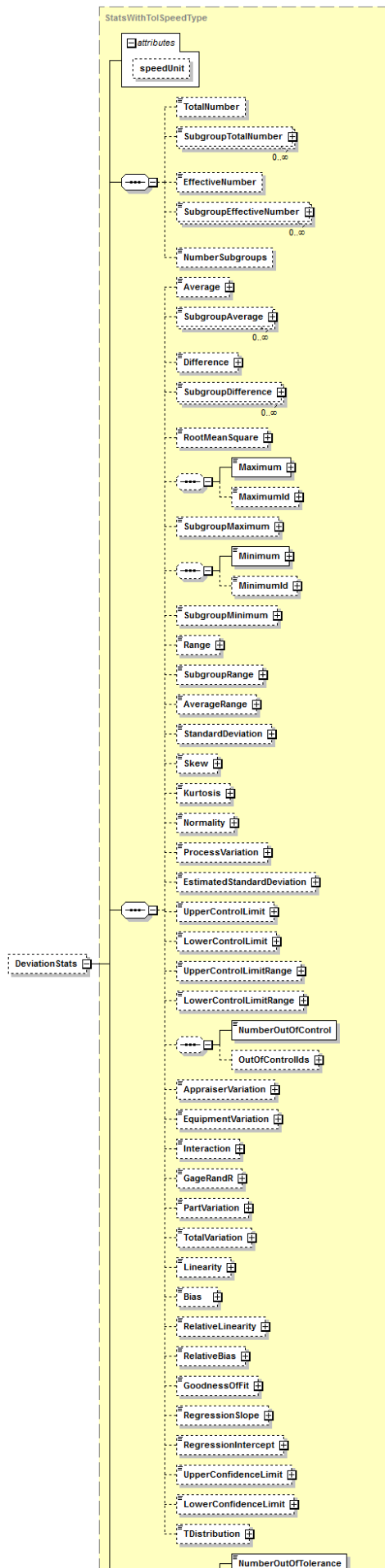


type	StatsSpeedType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	<u>TDistribution</u>					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit speedUnit attribute defines the unit used by StatsSpeedType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedSpeedCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolSpeedType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the unit used by StatsWithTolSpeedType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedSpeedCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsSpeedType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit speedUnit attribute defines the unit used by StatsSpeedType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedSpeedCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsSpeedType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

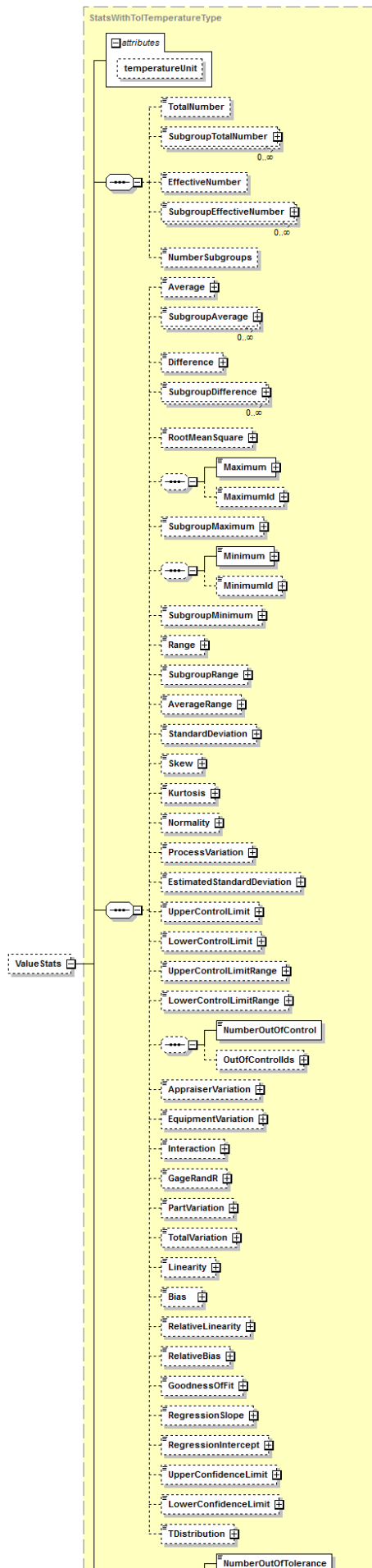
	TDistribution					
attributes	Name speedUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional speedUnit attribute defines the unit used by StatsSpeedType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedTemperatureCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedTemperatureCharacteristicStats					
annotation	documentation The UserDefinedTemperatureCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with temperature units or their deviations from nominal.					

element **UserDefinedTemperatureCharacteristicStatsEvalType/ValueStats**

diagram



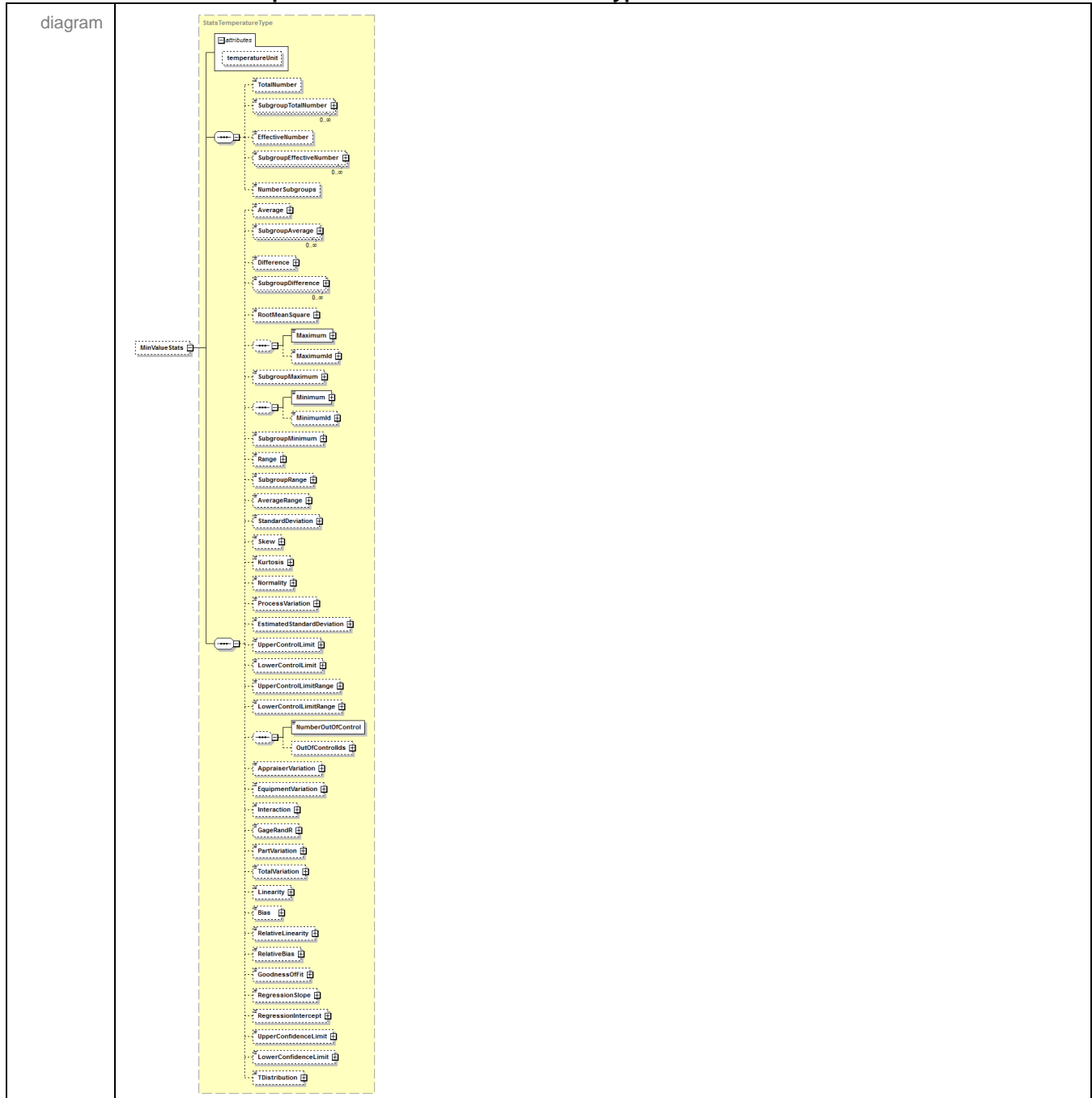
type	StatsWithTolTemperatureType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name temperatureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsWithTolTemperatureType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedTemperatureCharacteristicStatsEvalType/MaxValueStats**

diagram	
type	StatsTemperatureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>temperatureUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

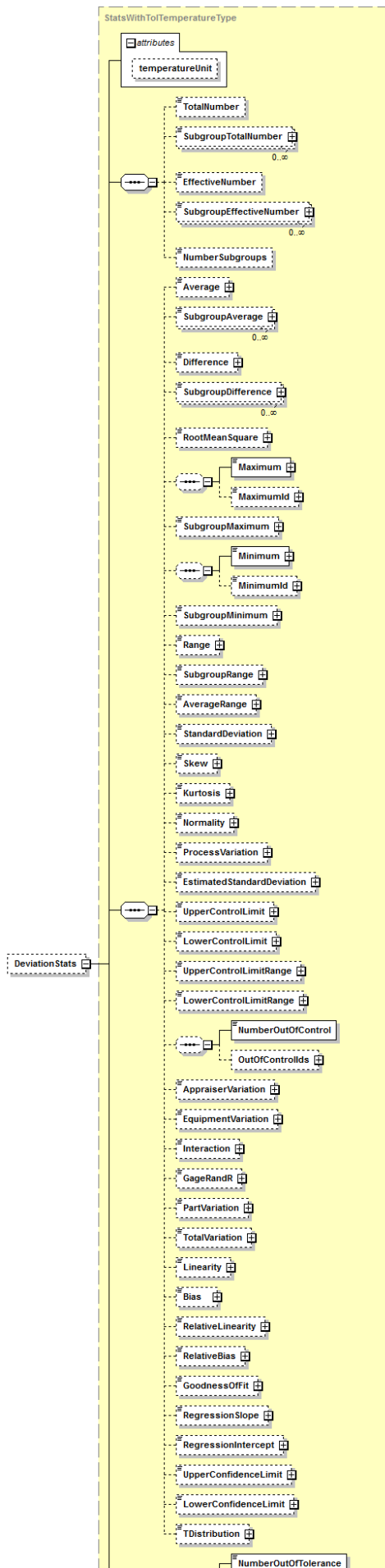
element **UserDefinedTemperatureCharacteristicStatsEvalType/MinValueStats**



type	StatsTemperatureType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name	Type	Use	Default	Fixed	Annotation
	temperatureUnit	xs:token				documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedTemperatureCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolTemperatureType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name temperatureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsWithTolTemperatureType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedTemperatureCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsTemperatureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name <u>temperatureUnit</u>	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedTemperatureCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsTemperatureType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

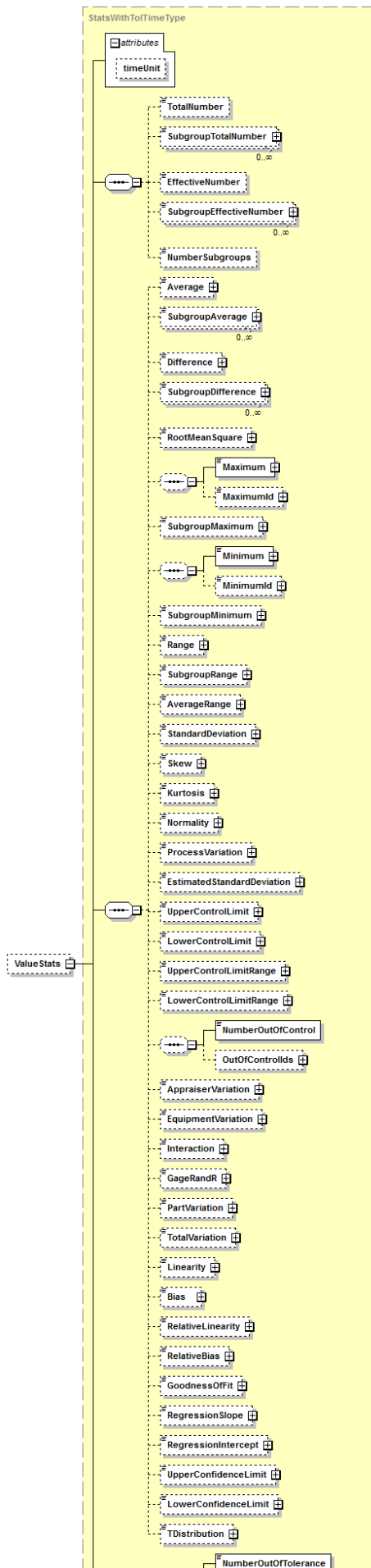
	TDistribution					
attributes	Name temperatureUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional temperatureUnit attribute defines the unit used by StatsTemperatureType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType UserDefinedTimeCharacteristicStatsEvalType

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedTimeCharacteristicStats					
annotation	documentation The UserDefinedTimeCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with time units or their deviations from nominal.					

element **UserDefinedTimeCharacteristicStatsEvalType/ValueStats**

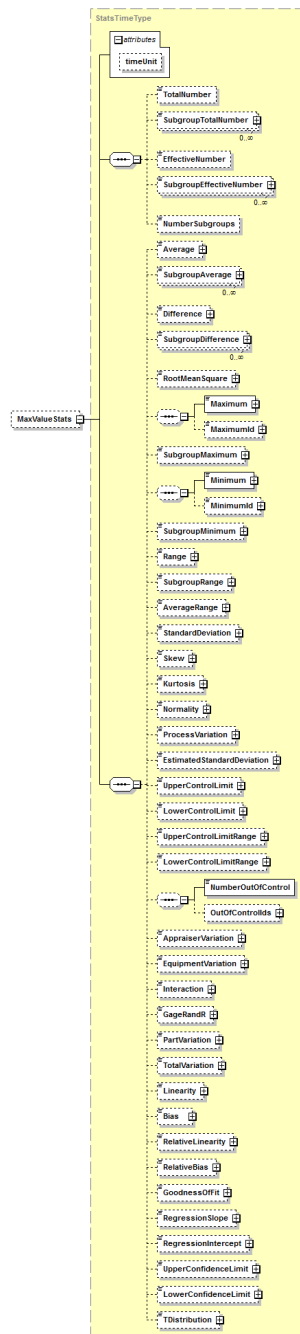
diagram



type	StatsWithTolTimeType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsWithTolTimeType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedTimeCharacteristicStatsEvalType/MaxValueStats**

diagram

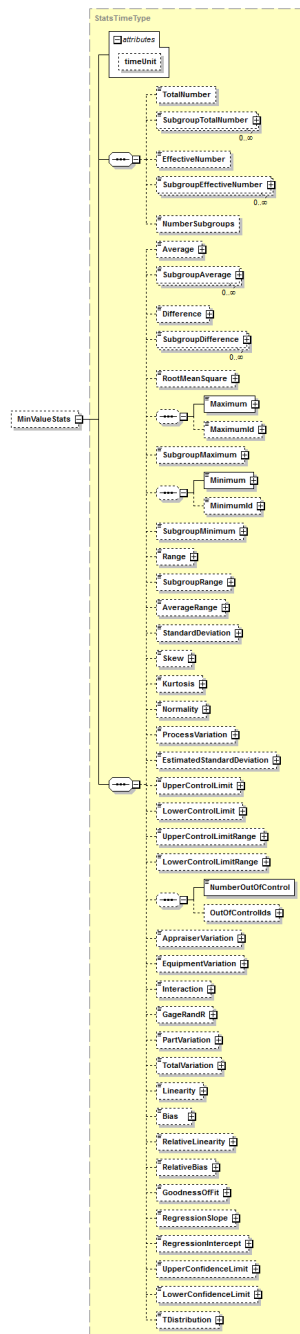


type	StatsTimeType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	TDistribution					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsTimeType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

element **UserDefinedTimeCharacteristicStatsEvalType/MinValueStats**

diagram

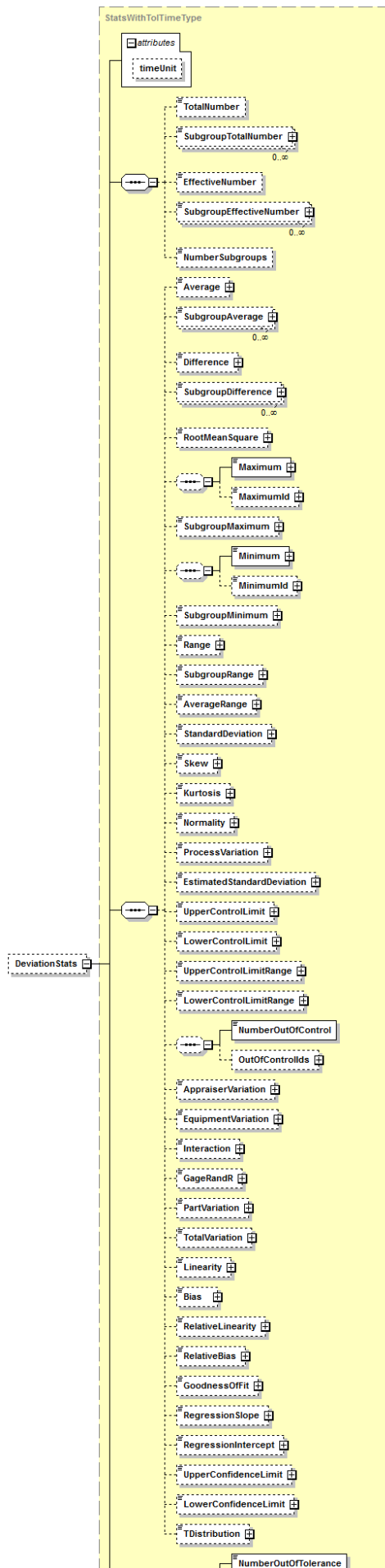


type	StatsTimeType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	TDistribution					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsTimeType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedTimeCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolTimeType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsWithTolTimeType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedTimeCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsTimeType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

	TDistribution					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsTimeType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedTimeCharacteristicStatsEvalType/MinDeviationStats**

diagram	
type	StatsTimeType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution

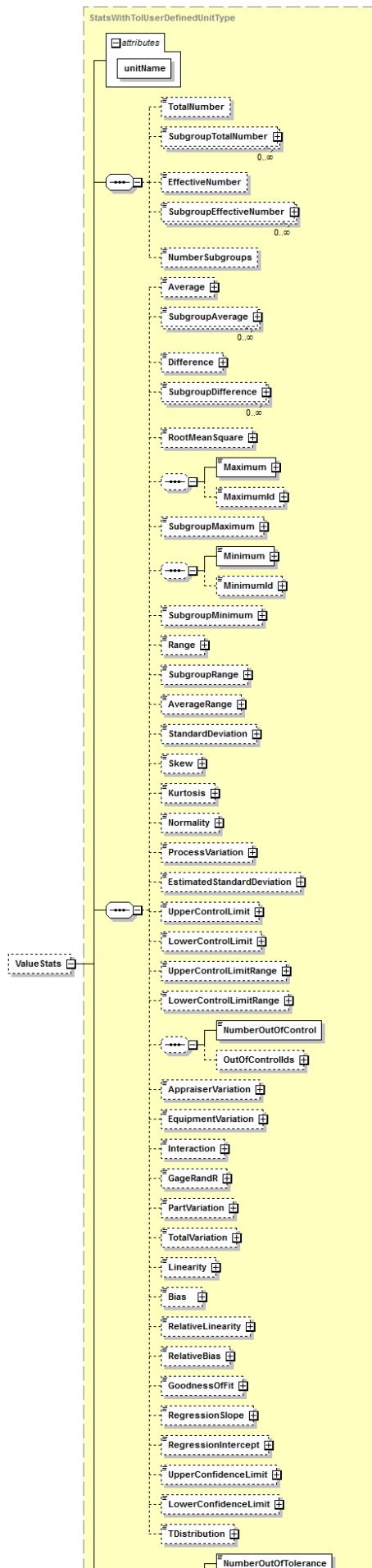
	TDistribution					
attributes	Name timeUnit	Type xs:token	Use	Default	Fixed	Annotation documentation The optional timeUnit attribute defines the unit used by StatsTimeType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **UserDefinedUnitCharacteristicStatsEvalType**

diagram						
type	extension of CharacteristicStatsEvalBaseType					
properties	base CharacteristicStatsEvalBaseType					
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats					
used by	element UserDefinedUnitCharacteristicStats					
annotation	documentation The UserDefinedUnitCharacteristicStatsEvalType defines the results of a statistical evaluation of measured values with user defined units or their deviations from nominal. This type is not to be used for units available in another user-defined statistics evaluation type. In particular this type is not to be used with linear units, angular units, or units of temperature, area, force, mass, pressure, speed, or time. The information can be common to more than one user-defined characteristic.					

element **UserDefinedUnitCharacteristicStatsEvalType/ValueStats**

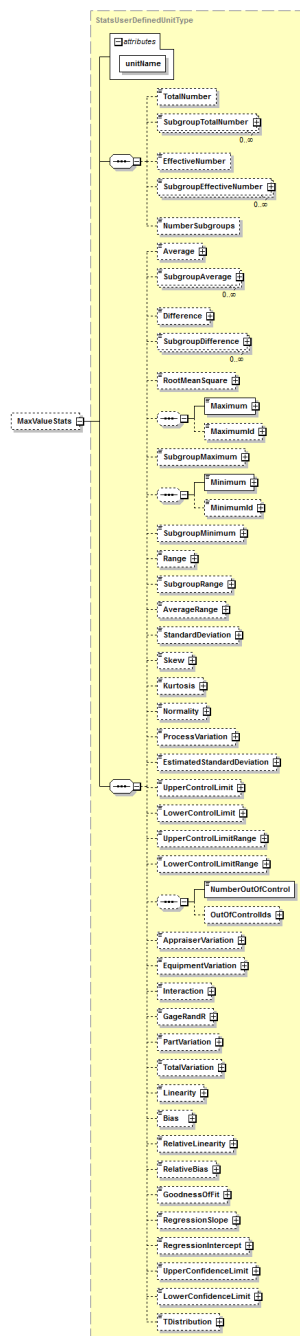
diagram



type	StatsWithTolUserDefinedUnitType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsWithTolUserDefinedUnitType.
annotation	documentation The optional ValueStats element is the result of a statistical evaluation of actual measured values.					

element **UserDefinedUnitCharacteristicStatsEvalType/MaxValueStats**

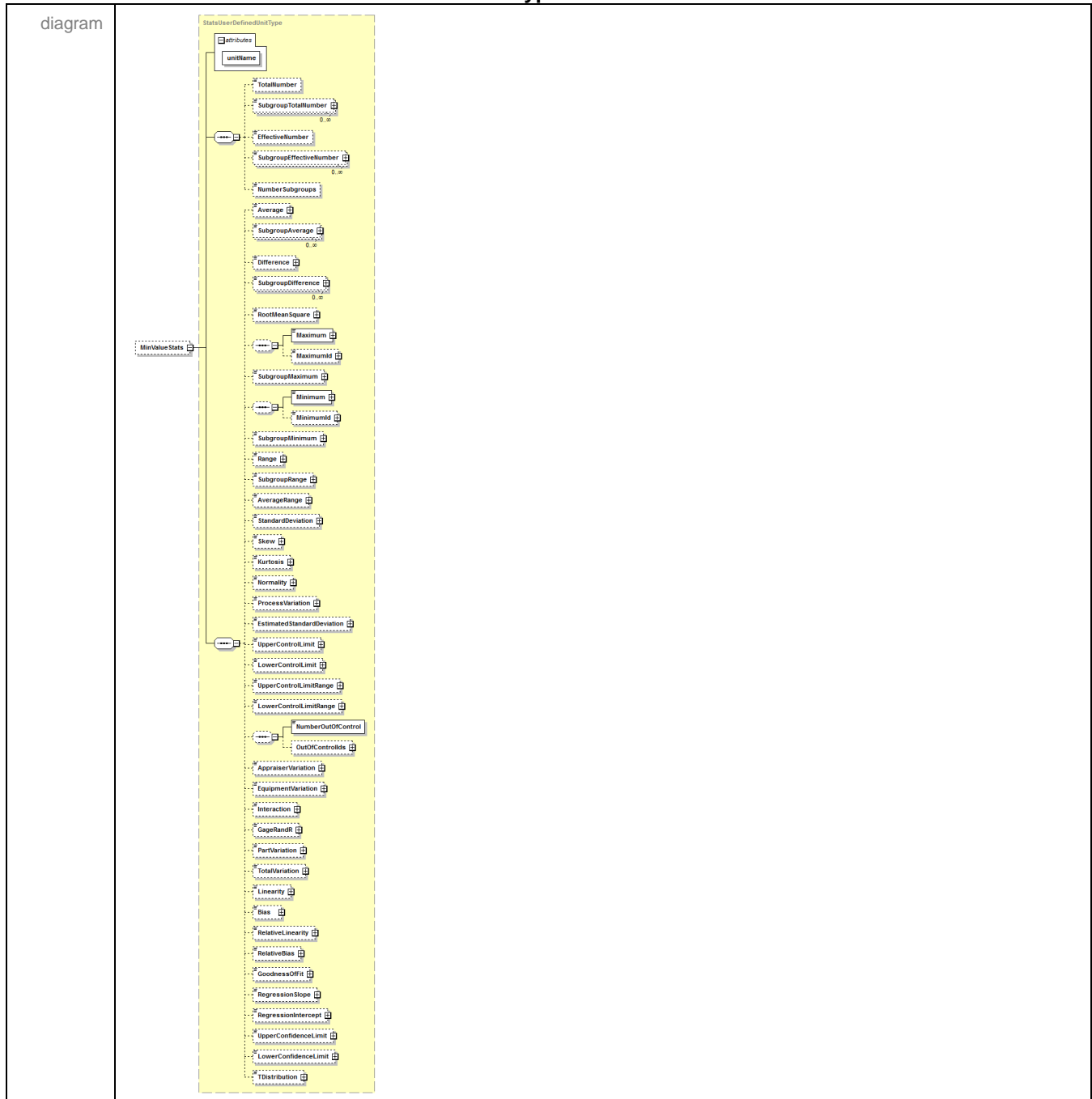
diagram



type	StatsUserDefinedUnitType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Distribution

	<u>TDistribution</u>					
attributes	Name <u>unitName</u>	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.
annotation	documentation The optional MaxValueStats element is the result of a statistical evaluation of the maxima of the actual measured values.					

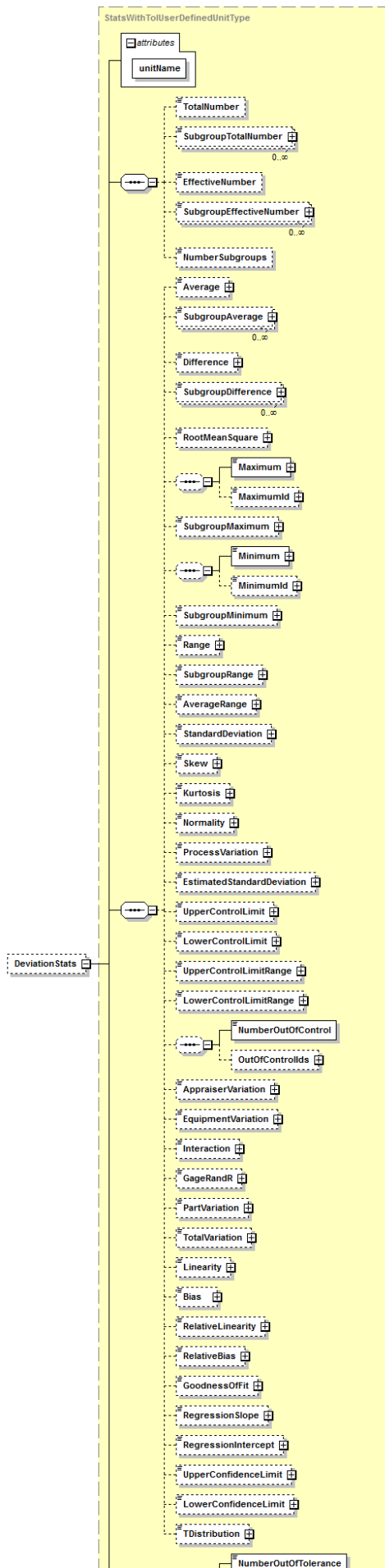
element **UserDefinedUnitCharacteristicStatsEvalType/MinValueStats**



type	StatsUserDefinedUnitType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.
annotation	documentation The optional MinValueStats element is the result of a statistical evaluation of the minima of the actual measured values.					

element **UserDefinedUnitCharacteristicStatsEvalType/DeviationStats**

diagram



type	StatsWithTolUserDefinedUnitType					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups AverageSubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution NumberOutOfTolerance OutOfTolerancelds SubgroupNumberOutOfTolerance NumberOverUpperTolerance OverUpperTolerancelds SubgroupNumberOverUpperTolerance NumberUnderLowerTolerance UnderLowerTolerancelds SubgroupNumberUnderLowerTolerance Cp Cpk Pp Ppk Cm Cmk RelativeAppraiserVariation RelativeEquipmentVariation RelativeInteraction RelativeGageRandR RelativePartVariation RelativeTotalVariation					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsWithTolUserDefinedUnitType.
annotation	documentation The optional DeviationStats element is the result of a statistical evaluation of the deviations of actual measured values from nominal.					

element **UserDefinedUnitCharacteristicStatsEvalType/MaxDeviationStats**

diagram	
type	StatsUserDefinedUnitType
properties	minOcc 0 maxOcc 1 content complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit Tdistribution

	<u>TDistribution</u>					
attributes	Name <u>unitName</u>	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.
annotation	documentation The optional MaxDeviationStats element is the result of a statistical evaluation of the deviations of the maxima of the actual measured values from nominal.					

element **UserDefinedUnitCharacteristicStatsEvalType/MinDeviationStats**



type	StatsUserDefinedUnitType					
properties	minOcc	0	maxOcc	1	content	complex
children	TotalNumber SubgroupTotalNumber EffectiveNumber SubgroupEffectiveNumber NumberSubgroups Average SubgroupAverage Difference SubgroupDifference RootMeanSquare Maximum MaximumId SubgroupMaximum Minimum MinimumId SubgroupMinimum Range SubgroupRange AverageRange StandardDeviation Skew Kurtosis Normality ProcessVariation EstimatedStandardDeviation UpperControlLimit LowerControlLimit UpperControlLimitRange LowerControlLimitRange NumberOutOfControl OutOfControlIds AppraiserVariation EquipmentVariation Interaction GageRandR PartVariation TotalVariation Linearity Bias RelativeLinearity RelativeBias GoodnessOfFit RegressionSlope RegressionIntercept UpperConfidenceLimit LowerConfidenceLimit TDistribution					
attributes	Name unitName	Type xs:token	Use required	Default	Fixed	Annotation documentation The (required) unitName attribute is the unit name for the StatsUserDefinedType.
annotation	documentation The optional MinDeviationStats element is the result of a statistical evaluation of the deviations of the minima of the actual measured values from nominal.					

complexType **WidthCharacteristicStatsEvalType**

diagram	<pre>classDiagram class WidthCharacteristicStatsEvalType class LinearCharacteristicStatsEvalType class Attributes class ActualIds class Subgroup class Status class StudyIssue class DistributionTransformation class ValueStats class MaxValueStats class MinValueStats class DeviationStats class MaxDeviationStats class MinDeviationStats WidthCharacteristicStatsEvalType -- > LinearCharacteristicStatsEvalType WidthCharacteristicStatsEvalType -- Attributes WidthCharacteristicStatsEvalType -- ActualIds WidthCharacteristicStatsEvalType -- Subgroup : 1..∞ WidthCharacteristicStatsEvalType -- Status WidthCharacteristicStatsEvalType -- StudyIssue WidthCharacteristicStatsEvalType -- DistributionTransformation WidthCharacteristicStatsEvalType -- ValueStats WidthCharacteristicStatsEvalType -- MaxValueStats WidthCharacteristicStatsEvalType -- MinValueStats WidthCharacteristicStatsEvalType -- DeviationStats WidthCharacteristicStatsEvalType -- MaxDeviationStats WidthCharacteristicStatsEvalType -- MinDeviationStats</pre>
type	extension of LinearCharacteristicStatsEvalType
properties	base LinearCharacteristicStatsEvalType
children	Attributes ActualIds Subgroup Status StudyIssue DistributionTransformation ValueStats MaxValueStats MinValueStats DeviationStats MaxDeviationStats MinDeviationStats
used by	element WidthCharacteristicStats

annotation	documentation The WidthCharacteristicStatsEvalType defines the results of a statistical evaluation of actual width characteristics.
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simpleType **ActionToTakeEnumType**

type	restriction of xs:NMTOKEN		
properties	base xs:NMTOKEN		
used by	element	CorrectiveActionType/ActionToTakeEnum	
facets	Kind	Value	Annotation
	enumeration	HALT_PRODUCTION	
	enumeration	CONTAINMENT	
	enumeration	NEW_MATERIAL_BATCH	
	enumeration	NEW_TOOLING	
	enumeration	INSPECT_100PC	
	enumeration	REBOOT	
	enumeration	RECALIBRATE	
	enumeration	OTHER	
annotation	documentation The ActionToTakeEnumType enumerates the various corrective action that can be taken when a control issue is encountered.		

simpleType **AssignableCauseEnumType**

type	restriction of xs:NMTOKEN		
properties	base xs:NMTOKEN		
used by	element	AssignableCauseType/AssignableCauseEnum	
facets	Kind	Value	Annotation
	enumeration	POWER_FAILURE	
	enumeration	BROKEN_TOOL	
	enumeration	COMPUTER_CRASH	
	enumeration	WEATHER_EVENT	
	enumeration	OTHER	
annotation	documentation The AssignableCauseEnumType enumerates various common causes that can be assigned to a control issue.		

simpleType **ControllIssueEnumType**

type	restriction of xs:NMTOKEN		
properties	base xs:NMTOKEN		
used by	element	ControllIssueType/ControllIssueEnum	
facets	Kind	Value	Annotation
	enumeration	OOT	
	enumeration	CP	
	enumeration	CPK	
	enumeration	PP	
	enumeration	PPK	
	enumeration	OOC	
	enumeration	TRENDING	

	enumeration SKEWED
	enumeration ONETHIRDDGROUPED
	enumeration TWOTHIRDDGROUPED
	enumeration OSCILLATING
	enumeration STRATIFIED
	enumeration OOCRNG
	enumeration UNDEFINED
annotation	documentation The ControllIssueEnumType enumerates the various control issues that can occur.

simpleType **DistributionTransformationEnumType**

type	restriction of xs:NMTOKEN		
properties	base	xs:NMTOKEN	
used by	element	DistributionTransformationType/DistributionTransformationEnum	
facets	Kind	Value	Annotation
	enumeration	LOGNORMAL	
	enumeration	BOUNDED	
	enumeration	UNBOUNDED	
annotation	documentation The DistributionTransformationEnumType enumerates values that describe a transformation applied to a raw statistical distribution.		

simpleType **ExclusionEnumType**

type	restriction of xs:NMTOKEN		
properties	base	xs:NMTOKEN	
used by	element	ExclusionReasonType/ExclusionReasonEnum	
facets	Kind	Value	Annotation
	enumeration	FLIER	
	enumeration	EQUIPERROR	
	enumeration	REWORK	
	enumeration	KNOWNCAUSE	
annotation	documentation The ExclusionEnumType enumerates values that describe the reasons for exclusion from a statistical calculation.		

simpleType **ListAccumulatedStatsValuesType**

type	list of StatsValuesEnumType
properties	base StatsValuesEnumType
annotation	documentation The ListAccumulatedStatsValuesType defines a list of the statistical values to be accumulated.

simpleType **ListSubgroupStatsValuesType**

type	list of SubgroupStatsValuesEnumType
properties	base SubgroupStatsValuesEnumType
annotation	documentation The ListSubgroupStatsValuesType defines a list of the statistical values to be accumulated on a per-subgroup basis.

simpleType **ListSummaryStatsValuesType**

type	list of StatsValuesEnumType
properties	base StatsValuesEnumType
used by	element SummaryStatsValuesType/SummaryStats
annotation	documentation The ListSummaryStatsValuesType defines a list of the statistical values to be used in a summary.

simpleType **OneSidedCapabilityCalculationEnumType**

type	restriction of xs:NMTOKEN
properties	base xs:NMTOKEN
used by	elements OrientationCharacteristicStatsEvalType/CapabilityCalculationMethod FormCharacteristicStatsEvalBaseType/CapabilityCalculationMethod RunoutCharacteristicStatsEvalBaseType/CapabilityCalculationMethod ConcentricityCharacteristicStatsEvalType/CapabilityCalculationMethod SymmetryCharacteristicStatsEvalType/CapabilityCalculationMethod ProfileCharacteristicStatsEvalBaseType/CapabilityCalculationMethod
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA
annotation	documentation The OneSidedCapabilityCalculationEnumType enumerates values that describe methods of calculating capability for one-sided tolerances. TODO explore Boeing AS9100 (QS 9000 equivalent) 7 cases for capability calculations

simpleType **PositionCapabilityCalculationEnumType**

type	restriction of xs:NMTOKEN
properties	base xs:NMTOKEN
used by	element PositionCharacteristicStatsEvalType/CapabilityCalculationMethod
facets	Kind Value Annotation enumeration THREE_SIGMA enumeration SIX_SIGMA enumeration BIVARIATE enumeration TRIVARIATE
annotation	documentation The PositionCapabilityCalculationEnumType enumerates values that describe methods of calculating capability for position tolerances.

simpleType **SamplingIntervalEnumType**

type	restriction of xs:NMTOKEN
properties	base xs:NMTOKEN
used by	element SamplingIntervalType/SamplingIntervalEnum
facets	Kind Value Annotation enumeration SHIFT enumeration DAY enumeration HOUR enumeration WEEK

	enumeration	MONTH
	enumeration	BATCH
	enumeration	LOT
annotation	documentation	The SamplingIntervalEnumType enumerates values that describe the sampling interval.

simpleType **StatsEvalStatusEnumType**

type	restriction of xs:NMTOKEN	
properties	base	xs:NMTOKEN
used by	element	StatsEvalStatusType/StatsEvalStatusEnum
facets	Kind	Value
	enumeration	PASS
	enumeration	FAIL
	enumeration	INFORMATIONAL
	enumeration	UNDEFINED
annotation	documentation	The StatsEvalStatusEnumType enumerates values that describe the status of a statistical evaluation.

simpleType **StatsValuesEnumType**

type	restriction of xs:NMTOKEN	
properties	base	xs:NMTOKEN
used by	element	SummaryStatisticsType/SummaryType
	simpleTypes	ListAccumulatedStatsValuesType ListSummaryStatsValuesType
facets	Kind	Value
	enumeration	TOTNUM
	enumeration	EFFNUM
	enumeration	NUMSUB
	enumeration	AVG
	enumeration	DIFF
	enumeration	RMS
	enumeration	MAX
	enumeration	MIN
	enumeration	RANGE
	enumeration	AVGRNG
	enumeration	STDDEV
	enumeration	SKEW
	enumeration	KURT
	enumeration	NORM
	enumeration	PROVAR
	enumeration	ESTSTDV
	enumeration	UCL
	enumeration	LCL
	enumeration	UCLRNG
	enumeration	LCLRNG
	enumeration	NUMOOC
	enumeration	NUMOOT

	enumeration	NOOTHI
	enumeration	NOOTLO
	enumeration	CP
	enumeration	CPK
	enumeration	PP
	enumeration	PPK
	enumeration	CM
	enumeration	CMK
	enumeration	AV
	enumeration	REL_AV
	enumeration	EV
	enumeration	REL_EV
	enumeration	INTERACTION
	enumeration	REL_INTERACTION
	enumeration	RANDR
	enumeration	REL_RANDR
	enumeration	PV
	enumeration	REL_PV
	enumeration	TV
	enumeration	REL_TV
	enumeration	LNRTY
	enumeration	BIAS
	enumeration	REL_LNRTY
	enumeration	REL_BIAS
	enumeration	R_SQR
	enumeration	SLOPE
	enumeration	INTCPT
	enumeration	UPRCONFLIM
	enumeration	LWRCONFLIM
	enumeration	TDIST
annotation	documentation	The StatsEnumType enumerates the various statistical values that can be accumulated.

simpleType SubgroupStatsValuesEnumType

type	restriction of xs:NMTOKEN		
properties	base	xs:NMTOKEN	
used by	simpleType	ListSubgroupStatsValuesType	
facets	Kind	Value	Annotation
	enumeration	TOTNUM	
	enumeration	EFFNUM	
	enumeration	AVG	
	enumeration	DIFF	
	enumeration	MAX	
	enumeration	MIN	
	enumeration	RANGE	
	enumeration	NUMOOT	

	enumeration NOOTHI enumeration NOOTLO
annotation	documentation The SubgroupStatsValuesEnumType enumerates the various statistical values that can be accumulated on a per-subgroup basis.

simpleType **SummaryStatsValuesEnumType**

type	restriction of xs:NMTOKEN		
properties	base	xs:NMTOKEN	
used by	element	SummaryStatsValuesType/SummaryType	
facets	Kind	Value	Annotation
	enumeration	AVG	
	enumeration	MAX	
	enumeration	MIN	
	enumeration	RANGE	
	enumeration	STDDEV	
annotation	documentation The SummaryStatsValuesEnumType enumerates the various statistical values that can be accumulated on statistical values.		