

Data dictionary for QIF Library Visualization.xsd (normative)

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

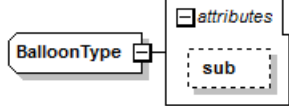
Complex types

[BalloonType](#)
[CameraBaseType](#)
[CameraType](#)
[FontsType](#)
[FontType](#)
[FrameCircularType](#)
[FrameFlagType](#)
[FrameIrregularFormType](#)
[FrameRectangularType](#)
[FramesType](#)
[FrameType](#)
[LeaderCircularType](#)
[LeaderDoubleHeadCircularType](#)
[LeaderDoubleHeadExtendType](#)
[LeaderDoubleHeadType](#)
[LeaderExtendType](#)
[LeaderType](#)
[PMIDisplaySetType](#)
[PMIDisplayType](#)
[SavedViewType](#)
[TextsType](#)
[TextType](#)
[ViewBaseType](#)
[ViewSetType](#)
[VisualizationSetType](#)
[WitnessLinesType](#)

Simple types

[CameraFormEnumType](#)
[LeaderHeadFormEnumType](#)

complexType **BalloonType**

diagram						
type	extension of xs:unsignedInt					
properties	base xs:unsignedInt					
used by	element PMIDisplayType/Balloon					
attributes	Name sub	Type NaturalType	Use	Default	Fixed	Annotation documentation The sub is a sub-index of the balloon which is normally used for the case of grouped annotations where the leading annotation has the group index (without a sub-index) and all other group entities

	have a unique extra sub-indexes.
annotation	documentation The BalloonType defines the balloon with an unique index.


attribute **BalloonType/@sub**

type	NaturalType		
facets	Kind	Value	Annotation
	minInclusive	1	
annotation	documentation The sub is a sub-index of the balloon which is normally used for the case of grouped annotations where the leading annotation has the group index (without a sub-index) and all other group entities have a unique extra sub-indexes.		

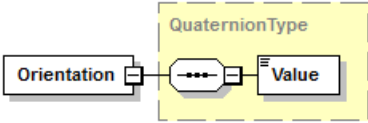
complexType **CameraBaseType**

diagram																			
type	extension of ViewBaseType																		
properties	base ViewBaseType abstract true																		
children	Attributes ViewPlaneOrigin Orientation Ratio Near Far Height																		
used by	complexType CameraType SavedViewType																		
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>label</td><td>xs:string</td><td></td><td></td><td></td><td>documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.</td></tr><tr><td>id</td><td>QIFIdType</td><td>required</td><td></td><td></td><td>documentation The required id attribute is the unique model entity identifier.</td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	label	xs:string				documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.	id	QIFIdType	required			documentation The required id attribute is the unique model entity identifier.
Name	Type	Use	Default	Fixed	Annotation														
label	xs:string				documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.														
id	QIFIdType	required			documentation The required id attribute is the unique model entity identifier.														
annotation	documentation The CameraBaseType is the abstract base type for all camera types.																		


element **CameraBaseType/ViewPlaneOrigin**

diagram	
type	PointSimpleType
properties	content simple
facets	Kind Value Annotation length 3
annotation	documentation The ViewPlaneOrigin element is the view plane origin.


element **CameraBaseType/Orientation**

diagram	
type	QuaternionType
properties	content complex
children	Value
annotation	documentation The Orientation element is the rotation of the view plane around the view plane origin.


element **CameraBaseType/Ratio**

diagram	
type	xs:double
properties	content simple
annotation	documentation The Ratio element is the aspect ratio of the view plane (normally it corresponds to the viewport).

element **CameraBaseType/Near**


diagram	
type	xs:double
properties	content simple
annotation	documentation The Near element is the distance from the view plane to the near clipping plane.

element **CameraBaseType/Far**

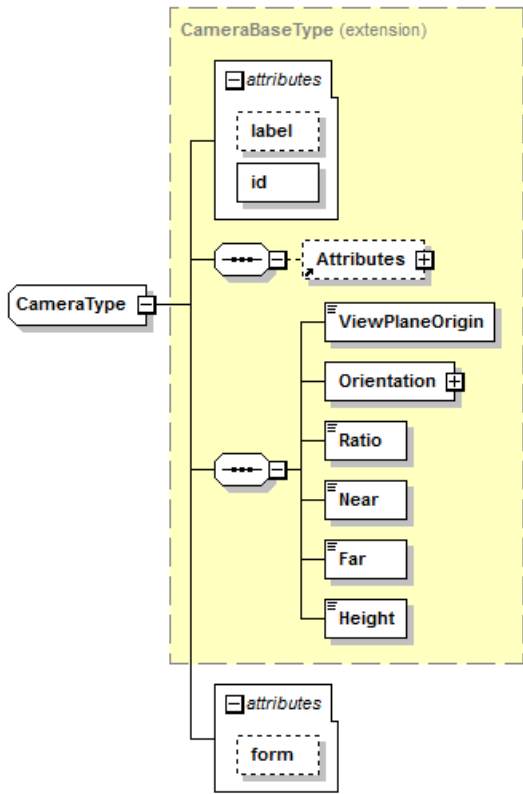
diagram	
type	xs:double
properties	content simple

annotation	documentation The Far element is the distance from the view plane to the far clipping plane.
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element **CameraBaseType/Height**

diagram	
type	xs:double
properties	content simple
annotation	documentation The Height element half of the top to bottom extent of the near clipping plane.

complexType **CameraType**

diagram						
type	extension of CameraBaseType					
properties	base CameraBaseType					
children	Attributes ViewPlaneOrigin Orientation Ratio Near Far Height					
used by	element Camera					
attributes	Name label	Type xs:string	Use	Default	Fixed	Annotation documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.
	id	QIFIdType	required			documentation The required id attribute is the unique

	form CameraFormEnumType ORTHOGRAPHIC	model entity identifier. documentation The optional form attribute specifies the camera type which can take one of the following values: 'ORTHOGRAPHIC' or 'PERSPECTIVE'.
annotation	documentation The CameraType defines the camera. The camera describes projection of the 3D model space to 2D window.	

attribute **CameraType/@form**

type	CameraFormEnumType	
properties	default	ORTHOGRAPHIC
facets	Kind enumeration	Value ORTHOGRAPHIC Annotation PERSPECTIVE
annotation	documentation The optional form attribute specifies the camera type which can take one of the following values: 'ORTHOGRAPHIC' or 'PERSPECTIVE'.	

complexType **FontsType**

diagram						
children	Font					
used by	element	Fonts				
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute is the number of objects in this set.
annotation	documentation The FontsType represents a container for storing all unique fonts used for model entities visualization.					

attribute **FontsType/@N**

type	NaturalType	
properties	use	required
facets	Kind minInclusive	Value 1 Annotation
annotation	documentation The required N attribute is the number of objects in this set.	

element **FontType/Font**

diagram						
type	FontType					
properties	minOcc	1	maxOcc	unbounded	content	complex
children	Attributes Name Size					
attributes	Name index	Type xs:unsignedInt	Use required	Default	Fixed	Annotation documentation The required index attribute is an index identifying a font within the Fonts table.
	bold	xs:boolean		false		documentation The optional bold attribute shows if the written text must be bold.
	italic	xs:boolean		false		documentation The optional italic attribute shows if the written text must be italicized.
	underline	xs:boolean		false		documentation The optional underline attribute shows if the written text must be underlined.
annotation	documentation Each Font element is a font which is used for visualization of 3D annotations.					

complexType **FontType**

diagram						
children	Attributes Name Size					
used by	element FontsType/Font					
attributes	Name index	Type xs:unsignedInt	Use required	Default	Fixed	Annotation documentation The required index attribute is an index identifying a font within the Fonts table.
	bold	xs:boolean		false		documentation The optional bold attribute shows if the written text must be bold.
	italic	xs:boolean		false		documentation The optional italic attribute shows if the written text must be italicized.
	underline	xs:boolean		false		documentation The optional underline attribute shows if the written text must be underlined.
annotation	documentation The FontType defines a font.					

attribute **FontType/@index**

type	xs:unsignedInt
properties	use required
annotation	documentation The required index attribute is an index identifying a font within the Fonts table.

attribute **FontType/@bold**

type	xs:boolean
properties	default false
annotation	documentation The optional bold attribute shows if the written text must be bold.

attribute **FontType/@italic**


type	xs:boolean
properties	default false

annotation	documentation The optional italic attribute shows if the written text must be italicized.
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
attribute **FontType/@underline**

type	xs:boolean
properties	default false
annotation	documentation The optional underline attribute shows if the written text must be underlined.

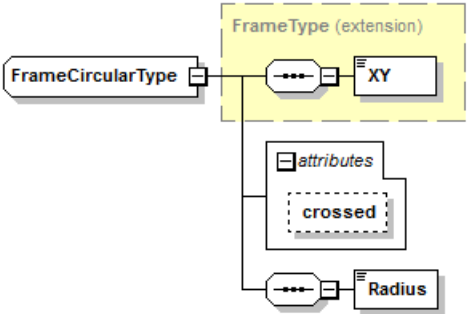
element **FontType/Name**

diagram	
type	xs:string
properties	content simple
annotation	documentation The Name element is the font name.

element **FontType/Size**

diagram	
type	NaturalType
properties	content simple
facets	Kind Value Annotation minInclusive 1
annotation	documentation The Size element is the font size defined in points (typography, 1 pt = 1/72 inch).

complexType **FrameCircularType**


diagram						
type	extension of FrameType					
properties	base FrameType					
children	XY Radius					
used by	element FrameCircular					
attributes	Name crossed	Type xs:boolean	Use optional	Default true	Fixed	Annotation documentation

		The optional crossed attribute shows if the frame must be crossed with the middle line which separates the circular frame in two halves (top and bottom).
annotation	documentation	The FrameCircularType defines a circular frame which is normally used for visualization of datum targets.

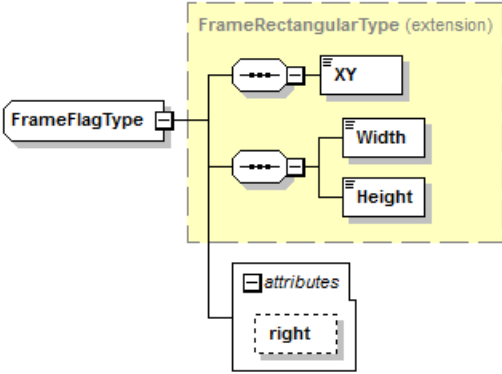
attribute **FrameCircularType/@crossed**

type	xs:boolean	
properties	use optional	default true
annotation	documentation	The optional crossed attribute shows if the frame must be crossed with the middle line which separates the circular frame in two halves (top and bottom).

element **FrameCircularType/Radius**

diagram		
type	xs:double	
properties	content	simple
annotation	documentation	The Radius element is the frame radius.

complexType **FrameFlagType**

diagram						
type	extension of FrameRectangularType					
properties	base FrameRectangularType					
children	XY Width Height					
used by	element FrameFlag					
attributes	Name right	Type xs:boolean	Use optional	Default true	Fixed	Annotation documentation The optional right attribute shows if the flag frame has the triangle element at the right side.
annotation	documentation The FrameFlagType defines a flag frame which is normally used for visualization of flag notes.					

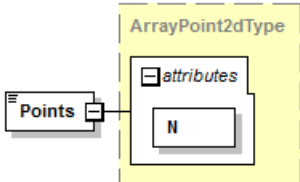
attribute **FrameFlagType/@right**

type	xs:boolean
properties	use optional default true
annotation	documentation The optional right attribute shows if the flag frame has the triangle element at the right side.

complexType **FrameIrregularFormType**

diagram	
type	extension of FrameType
properties	base FrameType
children	XY Points
used by	element FrameIrregularForm
annotation	documentation The FrameIrregularFormType defines an irregular form frame.

element **FrameIrregularFormType/Points**

diagram													
type	ArrayPoint2dType												
properties	content complex												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>N</td><td>xs:positiveInteger</td><td>required</td><td></td><td></td><td>documentation The required N attribute gives the number of points represented by the array. The number of entries in the array must be 2N.</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	N	xs:positiveInteger	required			documentation The required N attribute gives the number of points represented by the array. The number of entries in the array must be 2N.
Name	Type	Use	Default	Fixed	Annotation								
N	xs:positiveInteger	required			documentation The required N attribute gives the number of points represented by the array. The number of entries in the array must be 2N.								
annotation	documentation The Points element is a 2D polyline which describes the frame shape. The 2D coordinates of the polyline point are defined in the visualization plane coordinate system.												

complexType **FrameRectangularType**

diagram	
type	extension of FrameType
properties	base FrameType
children	XY Width Height
used by	element FrameRectangular complexType FrameFlagType
annotation	documentation The FrameRectangularType defines a rectangular frame.

element **FrameRectangularType/Width**

diagram	
type	xs:double
properties	content simple
annotation	documentation The Width element is the frame width.

element **FrameRectangularType/Height**

diagram	
type	xs:double
properties	content simple
annotation	documentation The Height element is the frame height.

complexType **FramesType**

diagram						
children	Frame					
used by	element Frames					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute is the number of objects in this array.
annotation	documentation The FramesType is an array of visualization frames.					


attribute **FramesType/@N**

type	NaturalType				
properties	use required				
facets	Kind minInclusive	Value 1	Annotation		
annotation	documentation The required N attribute is the number of objects in this array.				

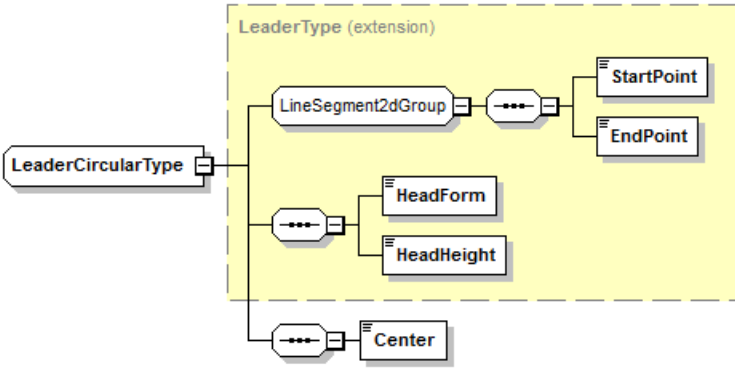
complexType **FrameType**

diagram						
properties	abstract true					
children	XY					
used by	element Frame complexTypes FrameCircularType FrameIrregularFormType FrameRectangularType					
annotation	documentation The FrameType is the abstract base type for all frame types.					


element **FrameType/XY**

diagram	
type	Point2dSimpleType
properties	content simple
facets	Kind Value Annotation length 2
annotation	documentation The XY element specifies 2D coordinates of the anchor point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **LeaderCircularType**

diagram	
type	extension of LeaderType
properties	base LeaderType
children	StartPoint EndPoint HeadForm HeadHeight Center
used by	element LeaderCircular
annotation	documentation The LeaderCircularType defines a leader that is a circular arc which is less than a semicircle.

element **LeaderCircularType/Center**

diagram	
type	Point2dSimpleType
properties	content simple
facets	Kind Value Annotation length 2
annotation	documentation The Center element specifies 2D coordinates of the leader central point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **LeaderDoubleHeadCircularType**

diagram	
type	extension of LeaderDoubleHeadType
properties	base <code>LeaderDoubleHeadType</code>
children	StartPoint EndPoint HeadForm HeadHeight HeadForm2 PointConnection Center
used by	element LeaderDoubleHeadCircular
annotation	documentation The <code>LeaderDoubleHeadCircularType</code> defines the double head circular leader.

element **LeaderDoubleHeadCircularType/Center**

diagram	
type	Point2dSimpleType
properties	content <code>simple</code>
facets	Kind Value Annotation length 2
annotation	documentation The <code>Center</code> element specifies 2D coordinates of the second central point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **LeaderDoubleHeadExtendType**

diagram	
type	extension of LeaderDoubleHeadType
properties	base <code>LeaderDoubleHeadType</code>
children	StartPoint EndPoint HeadForm HeadHeight HeadForm2 PointConnection PointExtension
used by	element LeaderDoubleHeadExtend
annotation	documentation The <code>LeaderDoubleHeadExtendType</code> defines the double head extended leader which has a break point and consists of two segments.


element **LeaderDoubleHeadExtendType/PointExtension**

diagram	
type	Point2dSimpleType
properties	content <code>simple</code>
facets	Kind Value Annotation length 2
annotation	documentation The <code>PointExtension</code> element specifies 2D coordinates of the extension point. The 2D coordinates are defined in the visualization plane coordinate system.


complexType **LeaderDoubleHeadType**

diagram	
type	extension of LeaderType
properties	base LeaderType
children	StartPoint EndPoint HeadForm HeadHeight HeadForm2 PointConnection
used by	element LeaderDoubleHead complexTypes LeaderDoubleHeadCircularType LeaderDoubleHeadExtendType
annotation	documentation The LeaderDoubleHeadType defines the double head leader.

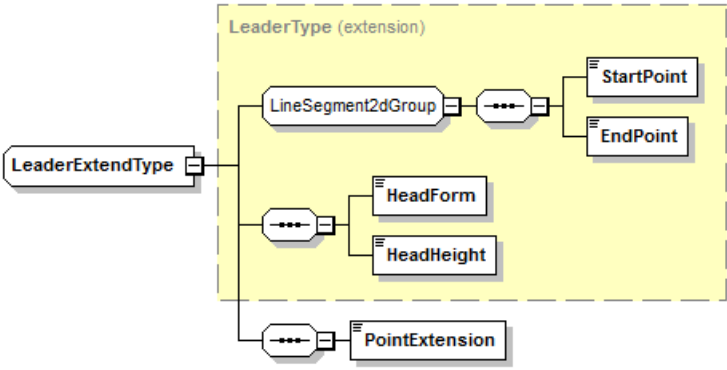
element **LeaderDoubleHeadType/HeadForm2**

diagram																																																	
type	LeaderHeadFormEnumType																																																
properties	content simple																																																
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>NONE</td><td></td></tr><tr><td>enumeration</td><td>ARROW_OPEN</td><td></td></tr><tr><td>enumeration</td><td>ARROW_UNFILLED</td><td></td></tr><tr><td>enumeration</td><td>ARROW_BLANKED</td><td></td></tr><tr><td>enumeration</td><td>ARROW_FILLED</td><td></td></tr><tr><td>enumeration</td><td>TRIANGLE_BLANKED</td><td></td></tr><tr><td>enumeration</td><td>TRIANGLE_FILLED</td><td></td></tr><tr><td>enumeration</td><td>DOT_BLANKED</td><td></td></tr><tr><td>enumeration</td><td>DOT_FILLED</td><td></td></tr><tr><td>enumeration</td><td>BOX_BLANKED</td><td></td></tr><tr><td>enumeration</td><td>BOX_FILLED</td><td></td></tr><tr><td>enumeration</td><td>DIMENSION_ORIGIN</td><td></td></tr><tr><td>enumeration</td><td>SYMBOL_SLASH</td><td></td></tr><tr><td>enumeration</td><td>SYMBOL_INTEGRAL</td><td></td></tr><tr><td>enumeration</td><td>SYMBOL_CROSS</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	NONE		enumeration	ARROW_OPEN		enumeration	ARROW_UNFILLED		enumeration	ARROW_BLANKED		enumeration	ARROW_FILLED		enumeration	TRIANGLE_BLANKED		enumeration	TRIANGLE_FILLED		enumeration	DOT_BLANKED		enumeration	DOT_FILLED		enumeration	BOX_BLANKED		enumeration	BOX_FILLED		enumeration	DIMENSION_ORIGIN		enumeration	SYMBOL_SLASH		enumeration	SYMBOL_INTEGRAL		enumeration	SYMBOL_CROSS	
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annotation	<div>documentation</div> <div>The HeadForm2 defines the second head form.</div>																																																


element **LeaderDoubleHeadType/PointConnection**

diagram	
type	Point2dSimpleType
properties	content simple
facets	Kind Value Annotation length 2
annotation	documentation The PointConnection specifies 2D coordinates of the connection point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **LeaderExtendType**

diagram	
type	extension of LeaderType
properties	base LeaderType
children	StartPoint EndPoint HeadForm HeadHeight PointExtension
used by	element LeaderExtend
annotation	documentation The LeaderExtendType defines the extended leader which has a break point and consists of two segments.


element **LeaderExtendType/PointExtension**

diagram	
type	Point2dSimpleType
properties	content simple
facets	Kind Value Annotation length 2
annotation	documentation The PointExtension element specifies 2D coordinates of the extension point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **LeaderType**

diagram	
type	extension of LineSegment2dType
properties	base LineSegment2dType
children	StartPoint EndPoint HeadForm HeadHeight
used by	element Leader complexTypes LeaderCircularType LeaderDoubleHeadType LeaderExtendType
annotation	documentation The Leader defines the 3D annotation leader.

element **LeaderType/HeadForm**

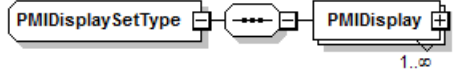
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annotation	<div>documentation</div> <div>The HeadForm element defines a form of the leader head.</div>																																																

element **LeaderType/HeadHeight**

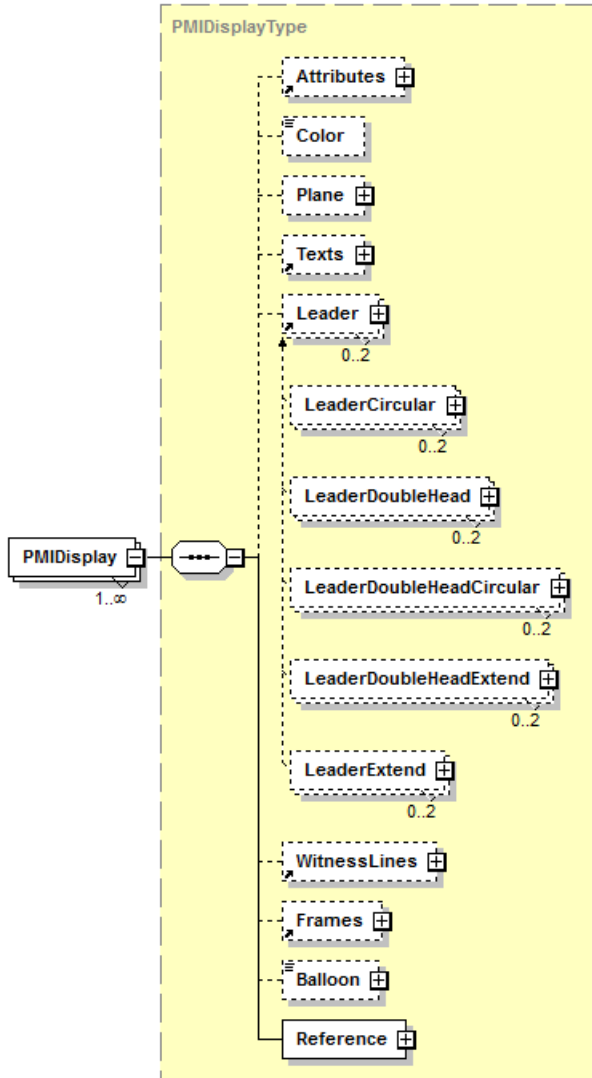
diagram	
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type	xs:double
properties	content simple
annotation	documentation The HeadHeight element is a size of the leader head.

complexType **PMIDisplaySetType**

diagram	
children	PMIDisplay
used by	element PMIDisplaySet
annotation	documentation The PMIDisplaySetType represents a container for storing all display data used of the annotation data.

element **PMIDisplaySetType/PMIDisplay**

diagram	
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type	PMIDisplayType
properties	minOcc 1 maxOcc unbounded content complex
children	Attributes Color Plane Texts Leader WitnessLines Frames Balloon Reference
annotation	documentation Each PMIDisplay element contains a block of display information which is used for visualization of the annotation data.

complexType PMIDisplayType

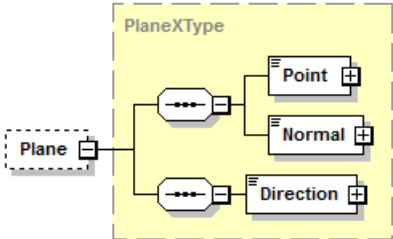
diagram	
children	Attributes Color Plane Texts Leader WitnessLines Frames Balloon Reference
used by	element PMIDisplaySetType/PMIDisplay
annotation	documentation The FontType defines a block of display data used for visualization of PMI entities.

element PMIDisplayType/Color

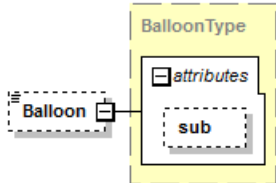
diagram	
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type	ColorType		
properties	minOcc	0	
	maxOcc	1	
	content	simple	
facets	Kind	Value	Annotation
	length	3	
annotation	documentation The optional ColorType is the RGB color type - a triplet of integer numbers: the red-component, the green-component and the blue-component.		

element **PMIDisplayType/Plane**

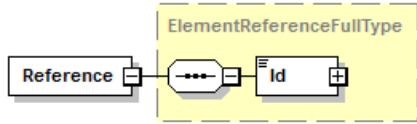
diagram	
type	PlaneXType
properties	<div>minOcc0</div> <div>maxOcc1</div> <div>contentcomplex</div>
children	Point Normal Direction
annotation	<div>documentation</div> <div>The optional Plane element specifies a visualization plane with a predefined x-direction which must be used as the text direction.</div>

element **PMIDisplayType/Balloon**

diagram			
type	BalloonType		
properties	minOcc	0	
	maxOcc	1	
	content	complex	
attributes	Name	Type	Use
	sub	NaturalType	
		Default	Fixed
			Annotation
			documentation
			The sub is a sub-index of the balloon which is normally used for the case of grouped annotations where the leading annotation has the group index (without

		a sub-index) and all other group entities have a unique extra sub-indexes.
annotation	documentation The optional Balloon element defines the visualization balloon. Every visualization balloon has a unique number.	

element **PMIDisplayType/Reference**

diagram		
type	ElementReferenceFullType	
properties	content	complex
children	Id	
annotation	documentation The Reference element is the id of an annotation entity which will be visualized according to the display information defined in the fields above.	

complexType **SavedViewType**

diagram						
type	extension of CameraBaseType					
properties	base CameraBaseType					
children	Attributes ViewPlaneOrigin Orientation Ratio Near Far Height AnnotationVisibleIds AnnotationHiddenIds BodyIds ComponentIds PlaneClippingIds					
used by	element SavedView					
attributes	Name label	Type xs:string	Use	Default	Fixed	Annotation documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.
	id	QIFIdType	required			documentation The required id attribute is the unique model entity identifier.
annotation	documentation					

The SavedViewType defines saved view to facilitate representation of the model and its annotations.

element SavedViewType/AnnotationVisibleIds

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 AnnotationVisibleIds element is an array of identifiers of model characteristics which must be visible in this saved view.					

element SavedViewType/AnnotationHiddenIds

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 AnnotationHiddenIds element is an array of identifiers of model characteristics which must be hidden in this saved view.
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element SavedViewType/BodyIds

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 BodyIds element is an array of identifiers of model bodies which must be visible in this saved view. If the BodyIds element is absent, then all model bodies are visible in this saved view.					

element SavedViewType/ComponentIds

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 ComponentIds element is an array of identifiers of model components which must be visible in this saved view. If the ComponentIds element is absent, then all model components are visible in this saved view.

element SavedViewType/PlaneClippingIds

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 PlaneClippingIds element is an array of identifiers of model clipping planes which must be activated in this saved view.					

complexType TextsType

diagram						
children	Text					
used by	element Texts					
attributes	Name fontIndex	Type xs:unsignedInt	Use required	Default	Fixed	Annotation documentation The required fontIndex attribute is a index of a font font within the

	lineHeight xs:double N NaturalType required	Fonts table. documentation The lineHeight attribute is a height of the text line defined in the model units. documentation The required N attribute is the number of objects in this array.
annotation	documentation The TextsType defines a number of 3D annotation text lines.	

attribute TextsType/@fontIndex

type	xs:unsignedInt
properties	use required
annotation	documentation The required fontIndex attribute is a index of a font font within the Fonts table.

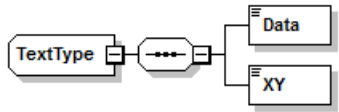
attribute TextsType/@lineHeight

type	xs:double
annotation	documentation The lineHeight attribute is a height of the text line defined in the model units.


attribute TextsType/@N

type	NaturalType
properties	use required
facets	Kind Value Annotation minInclusive 1
annotation	documentation The required N attribute is the number of objects in this array.


complexType TextType

diagram		
children	Data XY	
used by	element Text	
annotation	documentation The TextType is a 3D annotation text.	

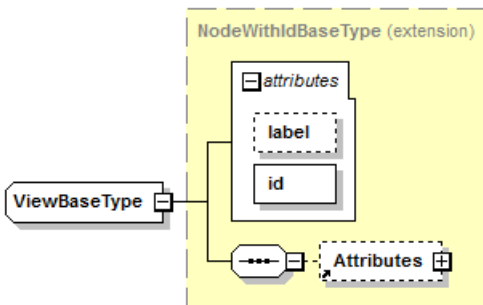
element **TextType/Data**

diagram	
type	xs:string
properties	content simple
annotation	documentation The Data element is a string.

element **TextType/XY**

diagram	
type	Point2dSimpleType
properties	content simple
facets	Kind Value Annotation length 2
annotation	documentation The XY specifies 2D coordinates of the text anchor point. The 2D coordinates are defined in the visualization plane coordinate system.

complexType **ViewBaseType**

diagram						
type	extension of NodeWithIdBaseType					
properties	base	NodeWithIdBaseType				
	abstract	true				
children	Attributes					
used by	element	ViewBase				
	complexType	CameraBaseType				
attributes	Name	Type	Use	Default	Fixed	Annotation
	label	xs:string				documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.
	id	QIFIdType	required			documentation The required id attribute is the unique model entity

	identifier.
annotation	documentation The ViewBaseType is the abstract base type for all view types.

complexType ViewSetType

diagram						
children	ViewBase					
used by	element ViewSet					
attributes	Name N	Type NaturalType	Use required	Default	Fixed	Annotation documentation The required N attribute is the number of objects in this set.
annotation	documentation The ViewSetType represents a container for storing all views present in the CAD scene.					

attribute ViewSetType/@N

type	NaturalType			
properties	use required			
facets	Kind minInclusive	Value 1	Annotation	
annotation	documentation The required N attribute is the number of objects in this set.			

complexType VisualizationSetType

diagram					
children	Fonts PMIDisplaySet				
used by	element VisualizationSet				
annotation	documentation The VisualizationSetType represents a container for storing all visualization data used for drawing of PMI entities in a graphical 3D scene.				

complexType **WitnessLinesType**

diagram						
children	Segment1 Segment2					
used by	element WitnessLines					
attributes	Name width	Type xs:double	Use required	Default	Fixed	Annotation documentation The width attribute is the width of the witness lines in points.
annotation	documentation The WitnessLinesType defines a pair of witness lines.					

attribute **WitnessLinesType/@width**

type	xs:double
properties	use required
annotation	documentation The width attribute is the width of the witness lines in points.

element **WitnessLinesType/Segment1**

diagram						
type	LineSegment2dType					
properties	content complex					
children	StartPoint EndPoint					
annotation	documentation The Segment1 element is the first witness line.					

element **WitnessLinesType/Segment2**

diagram						
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type	LineSegment2dType
properties	content complex
children	StartPoint EndPoint
annotation	documentation The Segment2 element is the second witness line.

simpleType **CameraFormEnumType**

type	restriction of xs:string		
properties	base xs:string		
used by	attribute	CameraType/@form	
facets	Kind	Value	Annotation
	enumeration	ORTHOGRAPHIC	
	enumeration	PERSPECTIVE	
annotation	documentation The CameraFormEnumType enumerates values that describe the camera form and can take the following values: 'ORTHOGRAPHIC' - an orthographic camera; 'PERSPECTIVE' - a perspective camera;		

simpleType **LeaderHeadFormEnumType**

type	restriction of xs:string		
properties	base xs:string		
used by	elements	LeaderType/HeadForm LeaderDoubleHeadType/HeadForm2	
facets	Kind	Value	Annotation
	enumeration	NONE	
	enumeration	ARROW_OPEN	
	enumeration	ARROW_UNFILLED	
	enumeration	ARROW_BLANKED	
	enumeration	ARROW_FILLED	
	enumeration	TRIANGLE_BLANKED	
	enumeration	TRIANGLE_FILLED	
	enumeration	DOT_BLANKED	
	enumeration	DOT_FILLED	
	enumeration	BOX_BLANKED	
	enumeration	BOX_FILLED	
	enumeration	DIMENSION_ORIGIN	
	enumeration	SYMBOL_SLASH	
	enumeration	SYMBOL_INTEGRAL	
	enumeration	SYMBOL_CROSS	
annotation	documentation The LeaderHeadFormEnumType enumerates values that describe the leader head forms.		