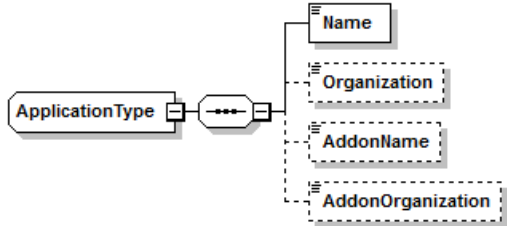


Data dictionary for QIF Library PrimitivesPD.xsd (normative)


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

Complex types	Simple types	Attr. groups
ApplicationType	ColorType	AttrDrawable
AuthorType	ListDouble9Type	
DrawableBaseType		
Matrix33Type		
NodeBaseType		
NodeWithIdBaseType		
QuaternionType		

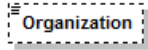
complexType **ApplicationType**

diagram	
children	Name Organization AddonName AddonOrganization
annotation	documentation The ApplicationType contains information about the application.

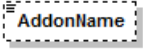
element **ApplicationType/Name**

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

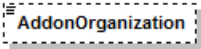
element **ApplicationType/Organization**

diagram	
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional Organization element is the name of the organization that created the software application.

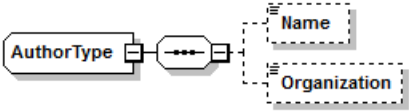
element **ApplicationType/AddonName**

diagram	
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional AddonName element is the name of the software add-on application.


element **ApplicationType/AddonOrganization**

diagram	
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional AddonOrganization element is the name of the organization that created the software add-on application.

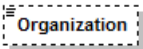
complexType **AuthorType**

diagram	
children	Name Organization
annotation	documentation The AuthorType contains information about the author.

element **AuthorType/Name**

diagram	
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The optional Author element is the name of the person.

element **AuthorType/Organization**

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


annotation	documentation The optional Organization element is the name of author's organization.
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complexType DrawableBaseType

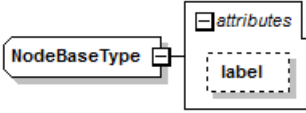
diagram	<p>The diagram illustrates the relationship between <code>DrawableBaseType</code> and <code>NodeWithIdBaseType</code>. <code>NodeWithIdBaseType</code> is a base class with attributes <code>label</code> and <code>id</code>. <code>DrawableBaseType</code> is an extension of <code>NodeWithIdBaseType</code> and includes additional attributes: <code>color</code>, <code>transparency</code>, <code>hidden</code>, and <code>size</code>. These attributes are grouped under a group named <code>AttrDrawable</code>. A dashed box labeled <code>Attributes</code> is also shown, indicating the collection of attributes.</p>																																										
type	extension of NodeWithIdBaseType																																										
properties	<table><tr><td>base</td><td>NodeWithIdBaseType</td></tr><tr><td>abstract</td><td>true</td></tr></table>	base	NodeWithIdBaseType	abstract	true																																						
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abstract	true																																										
children	Attributes																																										
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><tr><td>color</td><td>ColorType</td><td></td><td></td><td></td><td>documentation The optional color attribute defines the RGB color property of a model entity.</td></tr><tr><td>transparency</td><td>xs:double</td><td></td><td>0.0</td><td></td><td>documentation The optional transparency attribute defines the transparency property of a model entity.</td></tr><tr><td>hidden</td><td>xs:boolean</td><td></td><td>0</td><td></td><td>documentation The optional hidden attribute defines the visibility property of a model entity in the graphical window.</td></tr><tr><td>size</td><td>DoublePositiveType</td><td></td><td></td><td></td><td>documentation The optional size attribute defines a recommended size for visualization of an infinite</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.	color	ColorType				documentation The optional color attribute defines the RGB color property of a model entity.	transparency	xs:double		0.0		documentation The optional transparency attribute defines the transparency property of a model entity.	hidden	xs:boolean		0		documentation The optional hidden attribute defines the visibility property of a model entity in the graphical window.	size	DoublePositiveType				documentation The optional size attribute defines a recommended size for visualization of an infinite
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		drawable element such as plane, cylinder, axis, etc., or objects without explicit geometric parameters (e.g. coordinate system).
annotation	documentation The DrawableBaseType is the abstract base type for drawable elements. It contains data necessary for a model entity visualization.	

complexType Matrix33Type

diagram		
type	extension of ListDouble9Type	
properties	base ListDouble9Type	
facets	Kind length	Value 9 Annotation
annotation	documentation The Matrix33 element is a 3x3 matrix.	

complexType NodeBaseType

diagram		
properties	abstract true	
used by	complexType NodeWithIdBaseType	
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.
annotation	documentation The NodeBaseType is the abstract base type for model elements.	

attribute NodeBaseType/@label

type	xs:string
annotation	documentation The optional label attribute is the model entity "nameplate". Normally it can be seen at the entity item in the project tree.

complexType **NodeWithIdBaseType**

diagram	<pre>classDiagram class NodeBaseType { <<extension>> attributes label } class NodeWithIdBaseType { id } class Attributes { } NodeBaseType .. > NodeWithIdBaseType NodeWithIdBaseType .. > Attributes</pre>					
type	extension of NodeBaseType					
properties	base	NodeBaseType				
	abstract	true				
children	Attributes					
used by	complexType	DrawableBaseType				
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 NodeWithIdBaseType is the abstract base type for model elements with id.					

attribute **NodeWithIdBaseType/@id**

type	QIFIdType
properties	use required
annotation	documentation The required id attribute is the unique model entity identifier.

complexType **QuaternionType**

diagram						
children	Value					
annotation	documentation The Quaternion is the quaternion type.					

element **QuaternionType/Value**

diagram						
type	D4Type					
properties	content	simple				

facets	Kind length	Value 4	Annotation
annotation	documentation The Quaternion is defined in the following way: the first element is the scalar part ($\cos(\theta/2)$), the second, third, and fourth elements are the imaginary/"vector" part, ($\sin(\theta/2) * \text{axis}$).		

simpleType ColorType

type	restriction of ListIntType		
properties	base	ListIntType	
used by	attribute	AttrDrawable/@color	
facets	Kind length	Value 3	Annotation
annotation	documentation The ColorType is the RGB color type - a triplet of integer numbers: the red-component, the green-component and the blue-component.		

simpleType ListDouble9Type

type	restriction of ListDoubleType		
properties	base	ListDoubleType	
used by	complexType	Matrix33Type	
facets	Kind length	Value 9	Annotation
annotation	documentation The ListDouble9Type is an array of nine double values.		

attributeGroup AttrDrawable

used by	complexType DrawableBaseType					
attributes	Name color	Type ColorType	Use	Default	Fixed	Annotation documentation The optional color attribute defines the RGB color property of a model entity.
	transparency	xs:double		0.0		documentation The optional transparency attribute defines the transparency property of a model entity.
	hidden	xs:boolean		0		documentation The optional hidden attribute defines the visibility property of a model entity in the graphical window.
	size	DoublePositiveType				documentation The optional size attribute defines a recommended size for visualization of an infinite drawable element such as plane, cylinder, axis, etc., or objects without explicit geometric parameters (e.g. coordinate system).

attribute **AttrDrawable/@color**

type	ColorType		
facets	Kind	Value	Annotation
	length	3	
annotation	documentation The optional color attribute defines the RGB color property of a model entity.		

attribute **AttrDrawable/@transparency**

type	xs:double
properties	default 0.0
annotation	<p>documentation</p> <p>The optional transparency attribute defines the transparency property of a model entity.</p>

attribute **AttrDrawable/@hidden**

type	xs:boolean
properties	default 0
annotation	<p>documentation</p> <p>The optional hidden attribute defines the visibility property of a model entity in the graphical window.</p>

attribute **AttrDrawable/@size**

type	DoublePositiveType		
facets	Kind minExclusive	Value 0.0	Annotation
annotation	documentation The optional size attribute defines a recommended size for visualization of an infinite drawable element such as plane, cylinder, axis, etc., or objects without explicit geometric parameters (e.g. coordinate system).		