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1 Introduction

1.1 Purpose

External applications request access to document annotations/measurements for rendering purposes and to gain access to calculated measurement values. They also like to programmatically define new annotations/measurements through our REST-interface. This document provides each structure of all supported measurements and annotations.

2 General properties

Each annotation and each measurement inherit annotation, connection line and caption properties

2.1 Annotation properties

Name	Type	Description
restColor	RestColor	Line color
frameColor	RestColor	Frame color
lineWeight	Integer	Line weight
lineStyle	Integer	0: normal stroke 1: dashed stroke 2: dotted stroke 3: dashed and dotted stroke
showOrdinalNumber	Boolean	Display ordinal number
ordinalNumber	Integer	Identifier of current annotation. This identifier can change after ims client modification of annotations.

2.2 Connection line properties

Name	Type	Description
visible	Boolean	Display connection line
color	RestColor	Line color
weight	Integer	Line weight

2.3 Caption properties

Name	Type	Description
visible	Boolean	Display caption
rotationAngle	Double	Rotation angle
opaque	Boolean	Display frame color
restFont	RestFont	Font for caption

3 Types

3.1 RestFont

Name	Type	Description	
fontName	String	Font name	
attributes	RestFontBaseAttribute	Font attributes	
		Name	Type
		FAMILY	.RestFontStringAttribute
		WEIGHT	.RestFontFloatAttribute
		WIDTH	.RestFontFloatAttribute
		POSTURE	.RestFontFloatAttribute
		SIZE	.RestFontFloatAttribute
		SUPERSCRIPT	.RestFontIntegerAttribute
		FOREGROUND	.RestFontColorAttribute
		BACKGROUND	.RestFontColorAttribute
		UNDERLINE	.RestFontIntegerAttribute
		STRIKETHROUGH	.RestFontBooleanAttribute
		RUN_DIRECTION	.RestFontBooleanAttribute
		BIDI_EMBEDDING	.RestFontIntegerAttribute
		JUSTIFICATION	.RestFontFloatAttribute
		INPUT_METHOD_UNDERLINE	.RestFontIntegerAttribute
		SWAP_COLORS	.RestFontBooleanAttribute
		KERNING	.RestFontIntegerAttribute
		LIGATURES	.RestFontIntegerAttribute
TRACKING			

3.2 RestFontBaseAttribute

Name	Description
type	e.g .RestFontFloatAttribute (! leading point)
key	e.q JUSTIFICATION
value	e.g 65

3.3 RestColor

Name	Type
red	Integer

green	Integer
blue	Integer
alpha	Integer

3.4 RestPrefixCaptionPoint

A point with a caption

Name	Type
caption	RestPrefixCaption
point	RestPoint

3.5 RestPrefixCaption

A Caption with an offset relative to the RestPrefixCaptionPoint.

Name	Type	Description
prefix	String	Custom label
offset	RestPoint	
value	String	Readonly – computed label

3.6 RestPoint

Name	Type
x	Integer
y	Integer

3.7 RestMeasurement

Name	Type	Description
value	Double	Readonly – computed label
unit	String	Unit of the measurement.
useOwnUnit	boolean	True: Unit above will be used as measurements own unit False: Unit of documents calibration will be used
potency	Integer	0: for count object 1-3: for dimensions

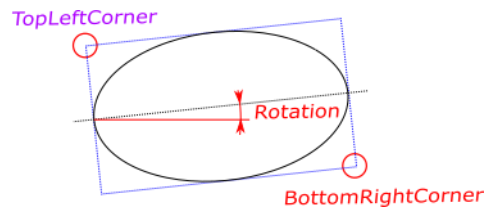
4 Annotations

Magenta labeled points are [RestPrefixCaptionPoint](#) types

Red labeled points are [RestPoint](#) types

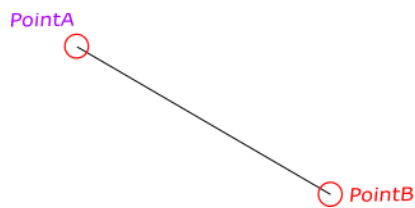
4.1 RestEllipse

GET / POST



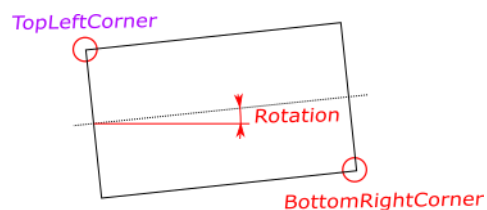
4.2 RestLine

GET / POST



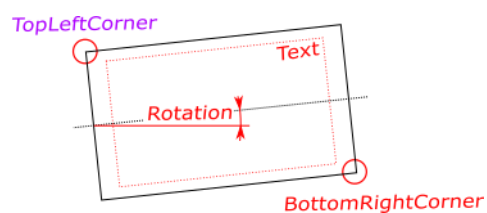
4.3 RestRectangle

GET / POST



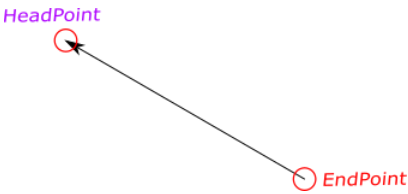
4.4 RestTextbox

GET / POST



4.5 RestArrow

GET / POST



5 Measurements

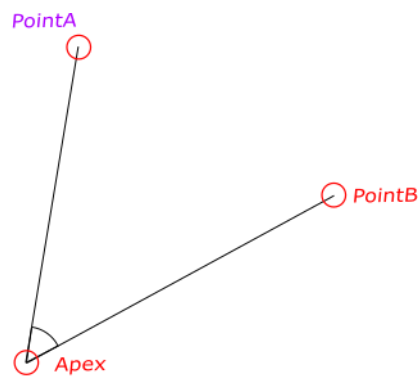
Magenta labeled points are [RestPrefixCaptionPoint](#) types.

Red labeled points are [RestPoint](#) types.

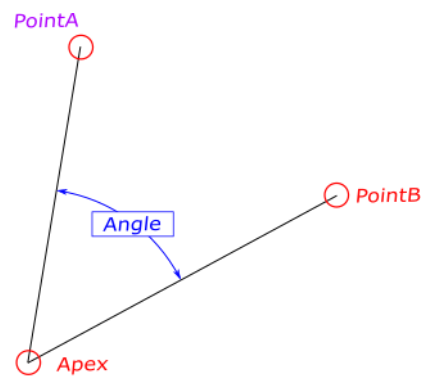
Blue labeled captions are [RestMeasurement](#) types. They are read only and therefore only available in GET requests.

5.1 RestMeasAngle

POST

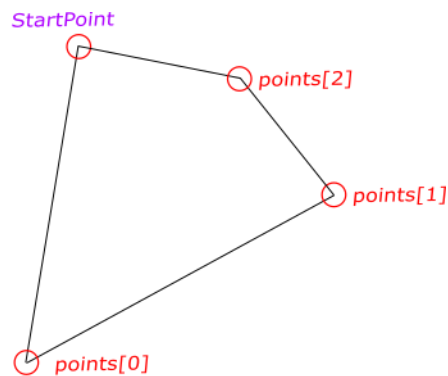


GET

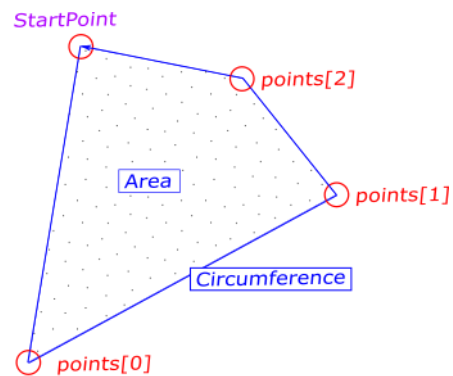


5.2 RestMeasArea

POST



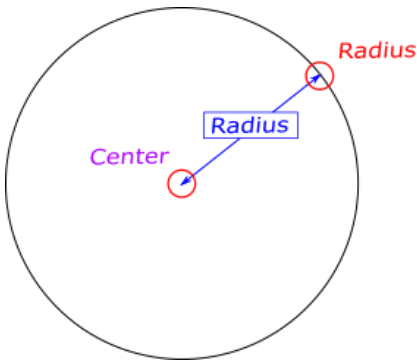
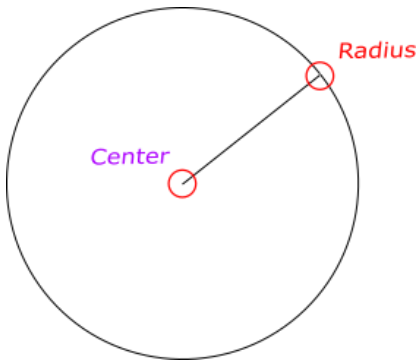
GET



5.3 RestMeasCircle

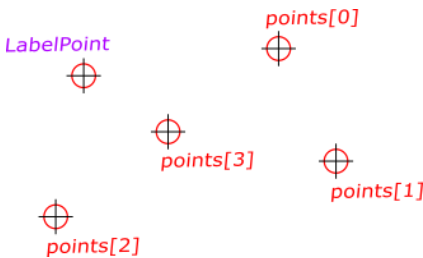
POST

GET

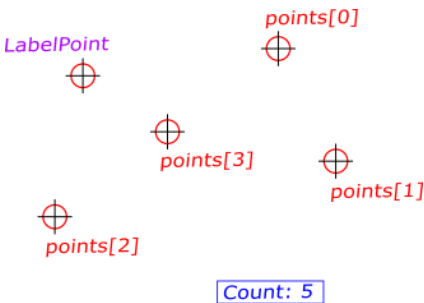


5.4 RestMeasCountObjects

POST

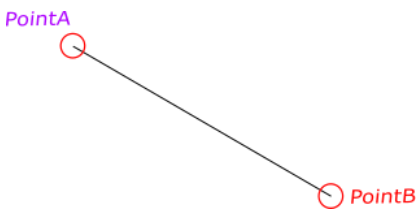


GET

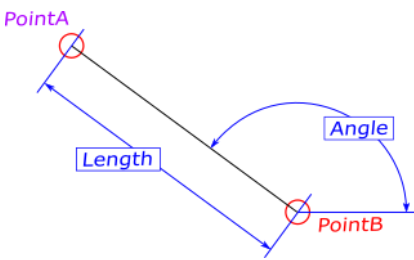


5.5 RestMeasLine

POST



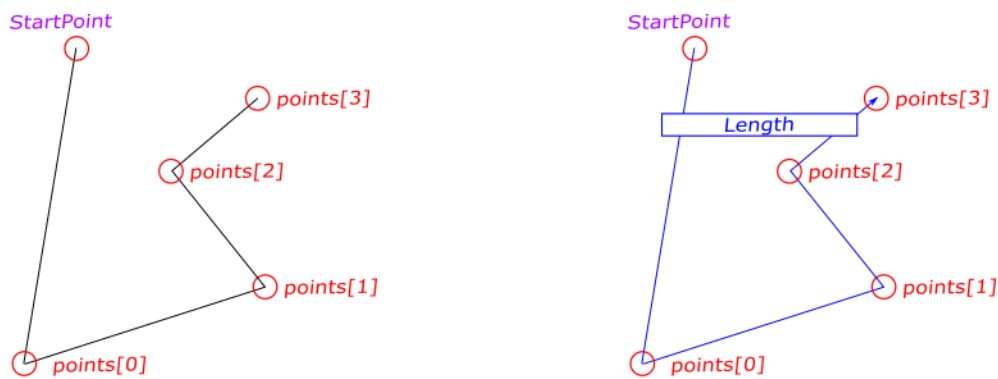
GET



5.6 RestMeasMultiLine

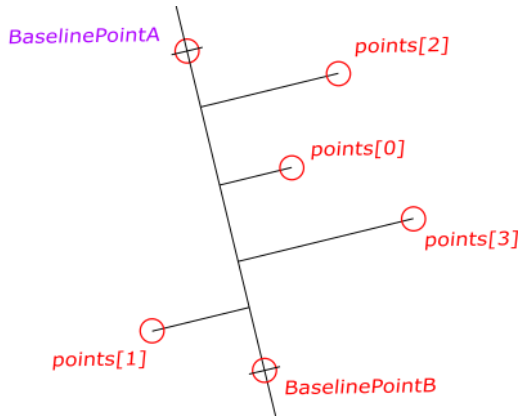
POST

GET

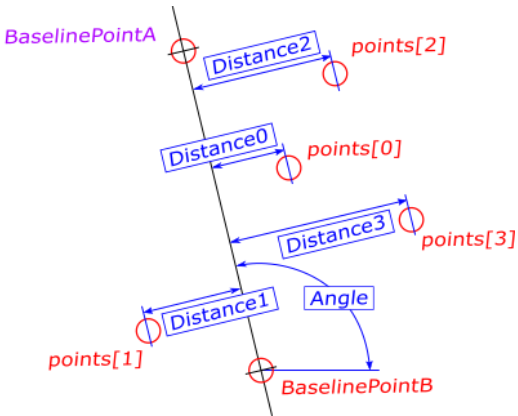


5.7 RestMeasMultipleDistance

POST

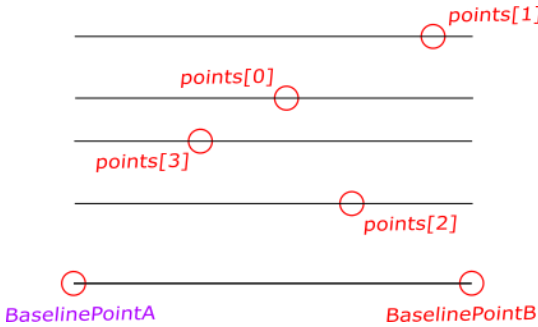


GET



5.8 RestMeasParallelDistance

POST



GET

