## **Stairs-Related Methods**

Stairs in VisualARQ include flights, landings, slabs, with rules for slopes, tread/riser, balanced designs, and spiral types. Styles define defaults; components for customization. Methods cover creation, path/height/width mods, step counts, rules, components, and checks.

AddStairStyle

* Signature: Guid AddStairStyle(String name)
* Description: Creates a new stair style and returns its Guid.
* Example: style\_id = va.AddStairStyle("MyStair")
* Notes: Check existence with va.GetAllStairStyleIds() (returns Guid[]); use va.GetStyleName(id) for names. Use va.IsStairStyle(id) to verify.

AddStair

* Signature: Guid AddStair(Guid styleId, Curve pathCurve, Double height, Double width, Int32 stepCount, StairAlignment alignment)
* Description: Creates a stair along the path curve with specified parameters using the style, returns the Guid.
* Example: curve = rs.coercecurve(rs.AddLine((0,0,0), (10,0,0))) stair\_id = va.AddStair(style\_id, curve, 3.0, 1.2, 18, va.StairAlignment.Center)

GetAllStairStyleIds

* Signature: Guid[] GetAllStairStyleIds()
* Description: Returns array of all stair style Guids.
* Example: style\_ids = va.GetAllStairStyleIds()

GetCurrentStairStyle

* Signature: Guid GetCurrentStairStyle()
* Description: Gets the current/default stair style Guid.
* Example: current\_id = va.GetCurrentStairStyle()

SetCurrentStairStyle

* Signature: Boolean SetCurrentStairStyle(Guid styleId)
* Description: Sets the current/default stair style. Returns True on success.
* Example: success = va.SetCurrentStairStyle(style\_id)

AddStairSlab

* Signature: Boolean AddStairSlab(Guid styleId, String name, Double thickness)
* Description: Adds a slab to the stair style. Returns True on success.
* Example: success = va.AddStairSlab(style\_id, "ConcreteSlab", 0.15)

GetStairStyleId

* Signature: Guid GetStairStyleId(String name)
* Description: Gets the stair style Guid by name.
* Example: style\_id = va.GetStairStyleId("MyStair")

GetStairPathCurve

* Signature: Curve GetStairPathCurve(Guid stairId)
* Description: Gets the path curve of a stair instance.
* Example: path = va.GetStairPathCurve(stair\_id) rs.AddCurve(path)

SetStairPathCurve

* Signature: Boolean SetStairPathCurve(Guid stairId, Curve pathCurve)
* Description: Sets the path curve for a stair instance. Returns True on success.
* Example: new\_curve = rs.coercecurve(rs.AddArc(...)) # e.g., for spiral success = va.SetStairPathCurve(stair\_id, new\_curve)

GetStairHeight

* Signature: Double GetStairHeight(Guid stairId)
* Description: Gets the height of a stair instance.
* Example: height = va.GetStairHeight(stair\_id)

SetStairHeight

* Signature: Boolean SetStairHeight(Guid stairId, Double height)
* Description: Sets the height for a stair instance. Returns True on success.
* Example: success = va.SetStairHeight(stair\_id, 3.5)

GetStairWidth

* Signature: Double GetStairWidth(Guid stairId)
* Description: Gets the width of a stair instance.
* Example: width = va.GetStairWidth(stair\_id)

SetStairWidth

* Signature: Boolean SetStairWidth(Guid stairId, Double width)
* Description: Sets the width for a stair instance. Returns True on success.
* Example: success = va.SetStairWidth(stair\_id, 1.5)

GetStairAlignment

* Signature: StairAlignment GetStairAlignment(Guid stairId)
* Description: Gets the alignment of a stair instance.
* Example: alignment = va.GetStairAlignment(stair\_id)

SetStairAlignment

* Signature: Boolean SetStairAlignment(Guid stairId, StairAlignment alingment)
* Description: Sets the alignment for a stair instance. Returns True on success.
* Example: success = va.SetStairAlignment(stair\_id, va.StairAlignment.Center)
* Notes: Param named alingment (typo in DLL).

GetStairStepCount

* Signature: Int32 GetStairStepCount(Guid stairId)
* Description: Gets the step count of a stair instance.
* Example: count = va.GetStairStepCount(stair\_id)

SetStairStepCount

* Signature: Boolean SetStairStepCount(Guid stairId, Int32 stepCount)
* Description: Sets the step count for a stair instance. Returns True on success.
* Example: success = va.SetStairStepCount(stair\_id, 20)

GetStairTread

* Signature: Double GetStairTread(Guid stairId)
* Description: Gets the tread depth of a stair instance.
* Example: tread = va.GetStairTread(stair\_id)

SetStairTread

* Signature: Boolean SetStairTread(Guid stairId, Double tread)
* Description: Sets the tread depth for a stair instance. Returns True on success.
* Example: success = va.SetStairTread(stair\_id, 0.28)

GetStairRiser

* Signature: Double GetStairRiser(Guid stairId)
* Description: Gets the riser height of a stair instance.
* Example: riser = va.GetStairRiser(stair\_id)

TestStairSlopeRule

* Signature: Boolean TestStairSlopeRule(Guid stairId)
* Description: Tests if the stair complies with slope rules.
* Example: complies = va.TestStairSlopeRule(stair\_id)

AreStairStyleRulesEnabled

* Signature: Boolean AreStairStyleRulesEnabled(Guid styleId)
* Description: Checks if slope rules are enabled for the stair style.
* Example: enabled = va.AreStairStyleRulesEnabled(style\_id)

EnableStairStyleRules

* Signature: Boolean EnableStairStyleRules(Guid styleId, Boolean enable)
* Description: Enables/disables slope rules for the stair style. Returns True on success.
* Example: success = va.EnableStairStyleRules(style\_id, True)

GetStairStyleSlopeRuleRangeMin

* Signature: Double GetStairStyleSlopeRuleRangeMin(Guid styleId)
* Description: Gets the minimum slope rule range for the stair style.
* Example: min\_slope = va.GetStairStyleSlopeRuleRangeMin(style\_id)

GetStairStyleSlopeRuleRangeMax

* Signature: Double GetStairStyleSlopeRuleRangeMax(Guid styleId)
* Description: Gets the maximum slope rule range for the stair style.
* Example: max\_slope = va.GetStairStyleSlopeRuleRangeMax(style\_id)

SetStairStyleSlopeRuleRange

* Signature: Boolean SetStairStyleSlopeRuleRange(Guid styleId, Double min, Double max)
* Description: Sets the slope rule range for the stair style. Returns True on success.
* Example: success = va.SetStairStyleSlopeRuleRange(style\_id, 0.2, 0.45)

GetStairStyleShowArrows

* Signature: Boolean GetStairStyleShowArrows(Guid styleId)
* Description: Checks if arrows are shown in the stair style.
* Example: show\_arrows = va.GetStairStyleShowArrows(style\_id)

SetStairStyleShowArrows

* Signature: Boolean SetStairStyleShowArrows(Guid styleId, Boolean show)
* Description: Sets whether arrows are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowArrows(style\_id, True)

GetStairStyleShowStepNumbers

* Signature: Boolean GetStairStyleShowStepNumbers(Guid styleId)
* Description: Checks if step numbers are shown in the stair style.
* Example: show\_numbers = va.GetStairStyleShowStepNumbers(style\_id)

SetStairStyleShowStepNumbers

* Signature: Boolean SetStairStyleShowStepNumbers(Guid styleId, Boolean show)
* Description: Sets whether step numbers are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowStepNumbers(style\_id, True)

GetStairStyleShowTreadSlab

* Signature: Boolean GetStairStyleShowTreadSlab(Guid styleId)
* Description: Checks if tread slabs are shown in the stair style.
* Example: show\_tread = va.GetStairStyleShowTreadSlab(style\_id)

SetStairStyleShowTreadSlab

* Signature: Boolean SetStairStyleShowTreadSlab(Guid styleId, Boolean show)
* Description: Sets whether tread slabs are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowTreadSlab(style\_id, True)

GetStairStyleShowRiserSlab

* Signature: Boolean GetStairStyleShowRiserSlab(Guid styleId)
* Description: Checks if riser slabs are shown in the stair style.
* Example: show\_riser = va.GetStairStyleShowRiserSlab(style\_id)

SetStairStyleShowRiserSlab

* Signature: Boolean SetStairStyleShowRiserSlab(Guid styleId, Boolean show)
* Description: Sets whether riser slabs are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowRiserSlab(style\_id, True)

GetStairStyleTreadThickness

* Signature: Double GetStairStyleTreadThickness(Guid styleId)
* Description: Gets the tread thickness in the stair style.
* Example: thickness = va.GetStairStyleTreadThickness(style\_id)

SetStairStyleTreadThickness

* Signature: Boolean SetStairStyleTreadThickness(Guid styleId, Double thickness)
* Description: Sets the tread thickness in the stair style. Returns True on success.
* Example: success = va.SetStairStyleTreadThickness(style\_id, 0.03)

GetStairStyleRiserThickness

* Signature: Double GetStairStyleRiserThickness(Guid styleId)
* Description: Gets the riser thickness in the stair style.
* Example: thickness = va.GetStairStyleRiserThickness(style\_id)

SetStairStyleRiserThickness

* Signature: Boolean SetStairStyleRiserThickness(Guid styleId, Double thickness)
* Description: Sets the riser thickness in the stair style. Returns True on success.
* Example: success = va.SetStairStyleRiserThickness(style\_id, 0.02)

GetStairStyleTreadNosing

* Signature: Double GetStairStyleTreadNosing(Guid styleId)
* Description: Gets the tread nosing in the stair style.
* Example: nosing = va.GetStairStyleTreadNosing(style\_id)

SetStairStyleTreadNosing

* Signature: Boolean SetStairStyleTreadNosing(Guid styleId, Double nosing)
* Description: Sets the tread nosing in the stair style. Returns True on success.
* Example: success = va.SetStairStyleTreadNosing(style\_id, 0.025)

SetStairStyleBalanced

* Signature: Boolean SetStairStyleBalanced(Guid styleId, Boolean isBalanced, Double balancedOffset)
* Description: Sets if the stair style is balanced and the offset. Returns True on success.
* Example: success = va.SetStairStyleBalanced(style\_id, True, 0.3)

GetStairStyleBalancedOffset

* Signature: Double GetStairStyleBalancedOffset(Guid styleId)
* Description: Gets the balanced offset in the stair style.
* Example: offset = va.GetStairStyleBalancedOffset(style\_id)

GetStairNumComponents

* Signature: Int32 GetStairNumComponents(Guid stairId)
* Description: Gets the number of components in a stair instance (flights, landings).
* Example: num = va.GetStairNumComponents(stair\_id)

GetAllStairComponents

* Signature: Guid[] GetAllStairComponents(Guid stairId)
* Description: Gets array of component Guids in a stair instance.
* Example: components = va.GetAllStairComponents(stair\_id)

GetStairComponentId

* Signature: Guid GetStairComponentId(Guid stairId, Int32 componentIndex)
* Description: Gets the Guid of a stair component by index.
* Example: component\_id = va.GetStairComponentId(stair\_id, 0) # First component

GetStairComponentType

* Signature: StairComponentType GetStairComponentType(Guid stairComponentId)
* Description: Gets the type of a stair component.
* Example: type = va.GetStairComponentType(component\_id)

SetStairComponentType

* Signature: Boolean SetStairComponentType(Guid stairComponentId, StairComponentType type)
* Description: Sets the type of a stair component. Returns True on success.
* Example: success = va.SetStairComponentType(component\_id, va.StairComponentType.Steps)

GetStairComponentStepCount

* Signature: Int32 GetStairComponentStepCount(Guid stairComponentId)
* Description: Gets the step count of a stair component (flight/landing).
* Example: count = va.GetStairComponentStepCount(component\_id)

SetStairLandingContours

* Signature: Boolean SetStairLandingContours(Guid landingId, StairLandingContour interiorContour, StairLandingContour exteriorContour)
* Description: Sets the interior/exterior contours for a stair landing. Returns True on success.
* Example: from VisualARQ.Script import StairLandingContour interior = StairLandingContour() # Create with params; details pending exterior = StairLandingContour() success = va.SetStairLandingContours(landing\_id, interior, exterior)

SetStairLandingStepCount

* Signature: Boolean SetStairLandingStepCount(Guid landingId, Int32 stepCount)
* Description: Sets the step count for a stair landing. Returns True on success.
* Example: success = va.SetStairLandingStepCount(landing\_id, 2)

GetStairSlabId

* Signature: Guid GetStairSlabId(Guid styleId)
* Description: Gets the slab Guid in a stair style.
* Example: slab\_id = va.GetStairSlabId(style\_id)

GetStairSlabThickness

* Signature: Double GetStairSlabThickness(Guid styleId)
* Description: Gets the slab thickness in a stair style.
* Example: thickness = va.GetStairSlabThickness(style\_id)

GetStairStartSlabThickness

* Signature: Double GetStairStartSlabThickness(Guid stairId)
* Description: Gets the start slab thickness of a stair instance.
* Example: thickness = va.GetStairStartSlabThickness(stair\_id)

SetStairStartSlabThickness

* Signature: Boolean SetStairStartSlabThickness(Guid stairId, Double thickness)
* Description: Sets the start slab thickness for a stair instance. Returns True on success.
* Example: success = va.SetStairStartSlabThickness(stair\_id, 0.2)

GetStairEndSlabThickness

* Signature: Double GetStairEndSlabThickness(Guid stairId)
* Description: Gets the end slab thickness of a stair instance.
* Example: thickness = va.GetStairEndSlabThickness(stair\_id)

SetStairEndSlabThickness

* Signature: Boolean SetStairEndSlabThickness(Guid stairId, Double thickness)
* Description: Sets the end slab thickness for a stair instance. Returns True on success.
* Example: success = va.SetStairEndSlabThickness(stair\_id, 0.2)

GetStairClearanceShape

* Signature: Brep GetStairClearanceShape(Guid stairId, Double clearanceHeight)
* Description: Gets the clearance shape brep for a stair at given height.
* Example: clearance = va.GetStairClearanceShape(stair\_id, 2.0)

GetSpiralStairTurnAngle

* Signature: Double GetSpiralStairTurnAngle(Guid stairId)
* Description: Gets the turn angle of a spiral stair.
* Example: angle = va.GetSpiralStairTurnAngle(stair\_id)

SetSpiralStairTurnAngle

* Signature: Boolean SetSpiralStairTurnAngle(Guid stairId, Double turnAngle)
* Description: Sets the turn angle for a spiral stair. Returns True on success.
* Example: success = va.SetSpiralStairTurnAngle(stair\_id, math.pi \* 2) # 360 degrees

IsStairFlight

* Signature: Boolean IsStairFlight(Guid id)
* Description: Checks if the Guid is a stair flight component.
* Example: is\_flight = va.IsStairFlight(id)

IsStairLanding

* Signature: Boolean IsStairLanding(Guid id)
* Description: Checks if the Guid is a stair landing component.
* Example: is\_landing = va.IsStairLanding(id)

IsStairSlab

* Signature: Boolean IsStairSlab(Guid id)
* Description: Checks if the Guid is a stair slab.
* Example: is\_slab = va.IsStairSlab(id)

IsStairComponent

* Signature: Boolean IsStairComponent(Guid id)
* Description: Checks if the Guid is a stair component (flight/landing/slab).
* Example: is\_component = va.IsStairComponent(id)

IsStair

* Signature: Boolean IsStair(Guid id)
* Description: Checks if the Guid is a stair instance.
* Example: is\_stair = va.IsStair(id)

IsStairStyle

* Signature: Boolean IsStairStyle(Guid id)
* Description: Checks if the Guid is a stair style.
* Example: is\_style = va.IsStairStyle(id)

IsStairStyleBalanced

* Signature: Boolean IsStairStyleBalanced(Guid styleId)
* Description: Checks if the stair style is balanced.
* Example: is\_balanced = va.IsStairStyleBalanced(style\_id)

IsSpiralStair

* Signature: Boolean IsSpiralStair(Guid stairId)
* Description: Checks if the stair is spiral.
* Example: is\_spiral = va.IsSpiralStair(stair\_id)

DeleteStyle

* Signature: Boolean DeleteStyle(Guid styleId)
* Description: Deletes a stair style. Returns True on success.
* Example: success = va.DeleteStyle(style\_id)

RenameStyle

* Signature: Boolean RenameStyle(Guid styleId, String newName)
* Description: Renames a stair style. Returns True on success.
* Example: success = va.RenameStyle(style\_id, "NewStairStyle")

GetStyleName

* Signature: String GetStyleName(Guid styleId)
* Description: Gets the name of a stair style.
* Example: name = va.GetStyleName(style\_id)

DeleteStyleComponent

* Signature: Boolean DeleteStyleComponent(Guid componentId)
* Description: Deletes a style component (e.g., slab). Returns True on success.
* Example: success = va.DeleteStyleComponent(slab\_id)

Enums/Options Reference for Stairs

* StairAlignment: Left (0), Center (1), Right (2)
* StairComponentType: Landing (0), Ramp (1), Steps (2)

GetStairStyleId

* Signature: Guid GetStairStyleId(String name)
* Description: Gets the stair style Guid by name.
* Example: style\_id = va.GetStairStyleId("MyStair")

GetStairStyleSlopeRuleRangeMin

* Signature: Double GetStairStyleSlopeRuleRangeMin(Guid styleId)
* Description: Gets the minimum slope rule range for the stair style.
* Example: min\_range = va.GetStairStyleSlopeRuleRangeMin(style\_id)

GetStairStyleSlopeRuleRangeMax

* Signature: Double GetStairStyleSlopeRuleRangeMax(Guid styleId)
* Description: Gets the maximum slope rule range for the stair style.
* Example: max\_range = va.GetStairStyleSlopeRuleRangeMax(style\_id)

SetStairStyleSlopeRuleRange

* Signature: Boolean SetStairStyleSlopeRuleRange(Guid styleId, Double min, Double max)
* Description: Sets the slope rule range for the stair style. Returns True on success.
* Example: success = va.SetStairStyleSlopeRuleRange(style\_id, 0.25, 0.4)

GetStairStyleShowArrows

* Signature: Boolean GetStairStyleShowArrows(Guid styleId)
* Description: Checks if arrows are shown in the stair style.
* Example: show\_arrows = va.GetStairStyleShowArrows(style\_id)

SetStairStyleShowArrows

* Signature: Boolean SetStairStyleShowArrows(Guid styleId, Boolean show)
* Description: Sets whether arrows are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowArrows(style\_id, True)

GetStairStyleShowStepNumbers

* Signature: Boolean GetStairStyleShowStepNumbers(Guid styleId)
* Description: Checks if step numbers are shown in the stair style.
* Example: show\_numbers = va.GetStairStyleShowStepNumbers(style\_id)

SetStairStyleShowStepNumbers

* Signature: Boolean SetStairStyleShowStepNumbers(Guid styleId, Boolean show)
* Description: Sets whether step numbers are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowStepNumbers(style\_id, True)

GetStairStyleShowTreadSlab

* Signature: Boolean GetStairStyleShowTreadSlab(Guid styleId)
* Description: Checks if tread slabs are shown in the stair style.
* Example: show\_tread = va.GetStairStyleShowTreadSlab(style\_id)

SetStairStyleShowTreadSlab

* Signature: Boolean SetStairStyleShowTreadSlab(Guid styleId, Boolean show)
* Description: Sets whether tread slabs are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowTreadSlab(style\_id, True)

GetStairStyleShowRiserSlab

* Signature: Boolean GetStairStyleShowRiserSlab(Guid styleId)
* Description: Checks if riser slabs are shown in the stair style.
* Example: show\_riser = va.GetStairStyleShowRiserSlab(style\_id)

SetStairStyleShowRiserSlab

* Signature: Boolean SetStairStyleShowRiserSlab(Guid styleId, Boolean show)
* Description: Sets whether riser slabs are shown in the stair style. Returns True on success.
* Example: success = va.SetStairStyleShowRiserSlab(style\_id, True)

GetStairStyleTreadThickness

* Signature: Double GetStairStyleTreadThickness(Guid styleId)
* Description: Gets the tread thickness in the stair style.
* Example: thickness = va.GetStairStyleTreadThickness(style\_id)

SetStairStyleTreadThickness

* Signature: Boolean SetStairStyleTreadThickness(Guid styleId, Double thickness)
* Description: Sets the tread thickness in the stair style. Returns True on success.
* Example: success = va.SetStairStyleTreadThickness(style\_id, 0.03)

GetStairStyleRiserThickness

* Signature: Double GetStairStyleRiserThickness(Guid styleId)
* Description: Gets the riser thickness in the stair style.
* Example: thickness = va.GetStairStyleRiserThickness(style\_id)

SetStairStyleRiserThickness

* Signature: Boolean SetStairStyleRiserThickness(Guid styleId, Double thickness)
* Description: Sets the riser thickness in the stair style. Returns True on success.
* Example: success = va.SetStairStyleRiserThickness(style\_id, 0.02)

GetStairStyleTreadNosing

* Signature: Double GetStairStyleTreadNosing(Guid styleId)
* Description: Gets the tread nosing in the stair style.
* Example: nosing = va.GetStairStyleTreadNosing(style\_id)

SetStairStyleTreadNosing

* Signature: Boolean SetStairStyleTreadNosing(Guid styleId, Double nosing)
* Description: Sets the tread nosing in the stair style. Returns True on success.
* Example: success = va.SetStairStyleTreadNosing(style\_id, 0.025)

SetStairStyleBalanced

* Signature: Boolean SetStairStyleBalanced(Guid styleId, Boolean isBalanced, Double balancedOffset)
* Description: Sets if the stair style is balanced and the offset. Returns True on success.
* Example: success = va.SetStairStyleBalanced(style\_id, True, 0.3)

GetStairStyleBalancedOffset

* Signature: Double GetStairStyleBalancedOffset(Guid styleId)
* Description: Gets the balanced offset in the stair style.
* Example: offset = va.GetStairStyleBalancedOffset(style\_id)

GetStairNumComponents

* Signature: Int32 GetStairNumComponents(Guid stairId)
* Description: Gets the number of components in a stair instance (flights, landings).
* Example: num = va.GetStairNumComponents(stair\_id)

GetAllStairComponents

* Signature: Guid[] GetAllStairComponents(Guid stairId)
* Description: Gets array of component Guids in a stair instance.
* Example: components = va.GetAllStairComponents(stair\_id)

GetStairComponentId

* Signature: Guid GetStairComponentId(Guid stairId, Int32 componentIndex)
* Description: Gets the Guid of a stair component by index.
* Example: component\_id = va.GetStairComponentId(stair\_id, 0) # First component

GetStairComponentType

* Signature: StairComponentType GetStairComponentType(Guid stairComponentId)
* Description: Gets the type of a stair component.
* Example: type = va.GetStairComponentType(component\_id)

SetStairComponentType

* Signature: Boolean SetStairComponentType(Guid stairComponentId, StairComponentType type)
* Description: Sets the type of a stair component. Returns True on success.
* Example: success = va.SetStairComponentType(component\_id, va.StairComponentType.Steps)

GetStairComponentStepCount

* Signature: Int32 GetStairComponentStepCount(Guid stairComponentId)
* Description: Gets the step count of a stair component (flight/landing).
* Example: count = va.GetStairComponentStepCount(component\_id)

GetStairFlightStartPoint

* Signature: Point2d GetStairFlightStartPoint(Guid flightId)
* Description: Gets the start point (2D) of a stair flight.
* Example: start = va.GetStairFlightStartPoint(flight\_id)

GetStairFlightEndPoint

* Signature: Point2d GetStairFlightEndPoint(Guid flightId)
* Description: Gets the end point (2D) of a stair flight.
* Example: end = va.GetStairFlightEndPoint(flight\_id)

SetStairLandingContours

* Signature: Boolean SetStairLandingContours(Guid landingId, StairLandingContour interiorContour, StairLandingContour exteriorContour)
* Description: Sets the interior/exterior contours for a stair landing. Returns True on success.
* Example: success = va.SetStairLandingContours(landing\_id, va.StairLandingContour.Rect, va.StairLandingContour.Curved)

SetStairLandingStepCount

* Signature: Boolean SetStairLandingStepCount(Guid landingId, Int32 stepCount)
* Description: Sets the step count for a stair landing. Returns True on success.
* Example: success = va.SetStairLandingStepCount(landing\_id, 2)

GetStairSlabId

* Signature: Guid GetStairSlabId(Guid styleId)
* Description: Gets the slab Guid in a stair style.
* Example: slab\_id = va.GetStairSlabId(style\_id)

GetStairSlabThickness

* Signature: Double GetStairSlabThickness(Guid styleId)
* Description: Gets the slab thickness in a stair style.
* Example: thickness = va.GetStairSlabThickness(style\_id)

GetStairStartSlabThickness

* Signature: Double GetStairStartSlabThickness(Guid stairId)
* Description: Gets the start slab thickness of a stair instance.
* Example: thickness = va.GetStairStartSlabThickness(stair\_id)

SetStairStartSlabThickness

* Signature: Boolean SetStairStartSlabThickness(Guid stairId, Double thickness)
* Description: Sets the start slab thickness for a stair instance. Returns True on success.
* Example: success = va.SetStairStartSlabThickness(stair\_id, 0.2)

GetStairEndSlabThickness

* Signature: Double GetStairEndSlabThickness(Guid stairId)
* Description: Gets the end slab thickness of a stair instance.
* Example: thickness = va.GetStairEndSlabThickness(stair\_id)

SetStairEndSlabThickness

* Signature: Boolean SetStairEndSlabThickness(Guid stairId, Double thickness)
* Description: Sets the end slab thickness for a stair instance. Returns True on success.
* Example: success = va.SetStairEndSlabThickness(stair\_id, 0.2)

GetStairClearanceShape

* Signature: Brep GetStairClearanceShape(Guid stairId, Double clearanceHeight)
* Description: Gets the clearance shape brep for a stair at given height.
* Example: clearance = va.GetStairClearanceShape(stair\_id, 2.0)

GetSpiralStairTurnAngle

* Signature: Double GetSpiralStairTurnAngle(Guid stairId)
* Description: Gets the turn angle of a spiral stair.
* Example: angle = va.GetSpiralStairTurnAngle(stair\_id)

SetSpiralStairTurnAngle

* Signature: Boolean SetSpiralStairTurnAngle(Guid stairId, Double turnAngle)
* Description: Sets the turn angle for a spiral stair. Returns True on success.
* Example: success = va.SetSpiralStairTurnAngle(stair\_id, math.pi \* 2) # 360 degrees

IsStairFlight

* Signature: Boolean IsStairFlight(Guid id)
* Description: Checks if the Guid is a stair flight component.
* Example: is\_flight = va.IsStairFlight(id)

IsStairLanding

* Signature: Boolean IsStairLanding(Guid id)
* Description: Checks if the Guid is a stair landing component.
* Example: is\_landing = va.IsStairLanding(id)

IsStairSlab

* Signature: Boolean IsStairSlab(Guid id)
* Description: Checks if the Guid is a stair slab.
* Example: is\_slab = va.IsStairSlab(id)

IsStairComponent

* Signature: Boolean IsStairComponent(Guid id)
* Description: Checks if the Guid is a stair component (flight/landing/slab).
* Example: is\_component = va.IsStairComponent(id)

IsStair

* Signature: Boolean IsStair(Guid id)
* Description: Checks if the Guid is a stair instance.
* Example: is\_stair = va.IsStair(id)

IsStairStyle

* Signature: Boolean IsStairStyle(Guid id)
* Description: Checks if the Guid is a stair style.
* Example: is\_style = va.IsStairStyle(id)

IsStairStyleBalanced

* Signature: Boolean IsStairStyleBalanced(Guid styleId)
* Description: Checks if the stair style is balanced.
* Example: is\_balanced = va.IsStairStyleBalanced(style\_id)

IsSpiralStair

* Signature: Boolean IsSpiralStair(Guid stairId)
* Description: Checks if the stair is spiral.
* Example: is\_spiral = va.IsSpiralStair(stair\_id)

DeleteStyle

* Signature: Boolean DeleteStyle(Guid styleId)
* Description: Deletes a stair style. Returns True on success.
* Example: success = va.DeleteStyle(style\_id)

RenameStyle

* Signature: Boolean RenameStyle(Guid styleId, String newName)
* Description: Renames a stair style. Returns True on success.
* Example: success = va.RenameStyle(style\_id, "NewStairStyle")

GetStyleName

* Signature: String GetStyleName(Guid styleId)
* Description: Gets the name of a stair style.
* Example: name = va.GetStyleName(style\_id)

DeleteStyleComponent

* Signature: Boolean DeleteStyleComponent(Guid componentId)
* Description: Deletes a style component (e.g., slab). Returns True on success.
* Example: success = va.DeleteStyleComponent(slab\_id)

Enums/Options Reference for Stairs

* StairAlignment: Left (0), Center (1), Right (2)
* StairComponentType: Landing (0), Ramp (1), Steps (2)
* StairLandingContour: Rect (0), Curved (1)

## **Railing-Related Methods**

Railings in VisualARQ consist of posts, rails, balusters along a path curve. Styles define the components; methods cover creation, path/height/alignment mods, component configs (template profiles, alignments, rotations, margins, joints), and checks.

AddRailingStyle

* Signature: Guid AddRailingStyle(String name)
* Description: Creates a new railing style and returns its Guid.
* Example: style\_id = va.AddRailingStyle("MyRailing")
* Notes: Check existence with va.GetAllRailingStyleIds() (returns Guid[]); use va.GetStyleName(id) for names. Use va.IsRailingStyle(id) to verify.

AddRailing

* Signature: Guid AddRailing(Guid styleId, Curve pathCurve)
* Description: Creates a railing along the path curve using the style, returns the Guid.
* Example: curve = rs.coercecurve(rs.AddLine((0,0,0), (10,0,0))) railing\_id = va.AddRailing(style\_id, curve)

GetAllRailingStyleIds

* Signature: Guid[] GetAllRailingStyleIds()
* Description: Returns array of all railing style Guids.
* Example: style\_ids = va.GetAllRailingStyleIds()

GetCurrentRailingStyle

* Signature: Guid GetCurrentRailingStyle()
* Description: Gets the current/default railing style Guid.
* Example: current\_id = va.GetCurrentRailingStyle()

SetCurrentRailingStyle

* Signature: Boolean SetCurrentRailingStyle(Guid styleId)
* Description: Sets the current/default railing style. Returns True on success.
* Example: success = va.SetCurrentRailingStyle(style\_id)

AddRailingPost

* Signature: Guid AddRailingPost(Guid styleId, String name, Guid templateProfileId)
* Description: Adds a post to the railing style, returns the post Guid.
* Example: post\_id = va.AddRailingPost(style\_id, "Post1", template\_profile\_id)

AddRailingRail

* Signature: Guid AddRailingRail(Guid styleId, String name, Guid templateProfileId)
* Description: Adds a rail to the railing style, returns the rail Guid.
* Example: rail\_id = va.AddRailingRail(style\_id, "Rail1", template\_profile\_id)

AddRailingBaluster

* Signature: Guid AddRailingBaluster(Guid styleId, String name, Guid templateProfileId)
* Description: Adds a baluster to the railing style, returns the baluster Guid.
* Example: baluster\_id = va.AddRailingBaluster(style\_id, "Baluster1", template\_profile\_id)

GetRailingStyleId

* Signature: Guid GetRailingStyleId(String name)
* Description: Gets the railing style Guid by name.
* Example: style\_id = va.GetRailingStyleId("MyRailing")

GetRailingPathCurve

* Signature: Curve GetRailingPathCurve(Guid railingId)
* Description: Gets the path curve of a railing instance.
* Example: path = va.GetRailingPathCurve(railing\_id) rs.AddCurve(path)

SetRailingPathCurve

* Signature: Boolean SetRailingPathCurve(Guid railingId, Curve curve)
* Description: Sets the path curve for a railing instance. Returns True on success.
* Example: success = va.SetRailingPathCurve(railing\_id, new\_curve)

GetRailingHeight

* Signature: Double GetRailingHeight(Guid railingId)
* Description: Gets the height of a railing instance.
* Example: height = va.GetRailingHeight(railing\_id)

SetRailingHeight

* Signature: Boolean SetRailingHeight(Guid railingId, Double height)
* Description: Sets the height for a railing instance. Returns True on success.
* Example: success = va.SetRailingHeight(railing\_id, 1.1)

GetRailingAlignment

* Signature: RailingAlignment GetRailingAlignment(Guid railingId)
* Description: Gets the alignment of a railing instance.
* Example: alignment = va.GetRailingAlignment(railing\_id)

SetRailingAlignment

* Signature: Boolean SetRailingAlignment(Guid railingId, RailingAlignment alignment)
* Description: Sets the alignment for a railing instance. Returns True on success.
* Example: success = va.SetRailingAlignment(railing\_id, va.RailingAlignment.Center)

GetRailingAlignmentOffset

* Signature: Double GetRailingAlignmentOffset(Guid railingId)
* Description: Gets the alignment offset of a railing instance.
* Example: offset = va.GetRailingAlignmentOffset(railing\_id)

SetRailingAlignmentOffset

* Signature: Boolean SetRailingAlignmentOffset(Guid railingId, Double offset)
* Description: Sets the alignment offset for a railing instance. Returns True on success.
* Example: success = va.SetRailingAlignmentOffset(railing\_id, 0.05)

GetRailingStyleHandrailId

* Signature: Guid GetRailingStyleHandrailId(Guid styleId)
* Description: Gets the handrail Guid in a railing style.
* Example: handrail\_id = va.GetRailingStyleHandrailId(style\_id)

GetRailingStylePostId

* Signature: Guid GetRailingStylePostId(Guid styleId)
* Description: Gets the post Guid in a railing style.
* Example: post\_id = va.GetRailingStylePostId(style\_id)

GetRailingStyleBalusterId

* Signature: Guid GetRailingStyleBalusterId(Guid styleId)
* Description: Gets the baluster Guid in a railing style.
* Example: baluster\_id = va.GetRailingStyleBalusterId(style\_id)

GetRailingRailTemplateProfileId

* Signature: Guid GetRailingRailTemplateProfileId(Guid railId)
* Description: Gets the template profile Guid for a rail.
* Example: template\_id = va.GetRailingRailTemplateProfileId(rail\_id)

SetRailingRailTemplateProfileId

* Signature: Boolean SetRailingRailTemplateProfileId(Guid railId, Guid templateProfileId)
* Description: Sets the template profile for a rail. Returns True on success.
* Example: success = va.SetRailingRailTemplateProfileId(rail\_id, template\_id)

GetRailingRailSizeProfileId

* Signature: Guid GetRailingRailSizeProfileId(Guid railId)
* Description: Gets the size profile Guid for a rail.
* Example: size\_id = va.GetRailingRailSizeProfileId(rail\_id)

GetRailingRailVerticalAlignment

* Signature: RailingRailVerticalAlignment GetRailingRailVerticalAlignment(Guid railId)
* Description: Gets the vertical alignment of a rail.
* Example: alignment = va.GetRailingRailVerticalAlignment(rail\_id)

SetRailingRailVerticalAlignment

* Signature: Boolean SetRailingRailVerticalAlignment(Guid railId, RailingRailVerticalAlignment alignment)
* Description: Sets the vertical alignment for a rail. Returns True on success.
* Example: success = va.SetRailingRailVerticalAlignment(rail\_id, va.RailingRailVerticalAlignment.Top)

GetRailingRailVerticalAlignmentOffset

* Signature: Double GetRailingRailVerticalAlignmentOffset(Guid railId)
* Description: Gets the vertical alignment offset of a rail.
* Example: offset = va.GetRailingRailVerticalAlignmentOffset(rail\_id)

SetRailingRailVerticalAlignmentOffset

* Signature: Boolean SetRailingRailVerticalAlignmentOffset(Guid railId, Double offset)
* Description: Sets the vertical alignment offset for a rail. Returns True on success.
* Example: success = va.SetRailingRailVerticalAlignmentOffset(rail\_id, 0.1)

GetRailingRailHorizontalAlignment

* Signature: RailingRailHorizontalAlignment GetRailingRailHorizontalAlignment(Guid railId)
* Description: Gets the horizontal alignment of a rail.
* Example: alignment = va.GetRailingRailHorizontalAlignment(rail\_id)

SetRailingRailHorizontalAlignment

* Signature: Boolean SetRailingRailHorizontalAlignment(Guid railId, RailingRailHorizontalAlignment alignment)
* Description: Sets the horizontal alignment for a rail. Returns True on success.
* Example: success = va.SetRailingRailHorizontalAlignment(rail\_id, va.RailingRailHorizontalAlignment.Center)

GetRailingRailHorizontalAlignmentOffset

* Signature: Double GetRailingRailHorizontalAlignmentOffset(Guid railId)
* Description: Gets the horizontal alignment offset of a rail.
* Example: offset = va.GetRailingRailHorizontalAlignmentOffset(rail\_id)

SetRailingRailHorizontalAlignmentOffset

* Signature: Boolean SetRailingRailHorizontalAlignmentOffset(Guid railId, Double offset)
* Description: Sets the horizontal alignment offset for a rail. Returns True on success.
* Example: success = va.SetRailingRailHorizontalAlignmentOffset(rail\_id, 0.05)

GetRailingRailOrientation

* Signature: RailingRailOrientation GetRailingRailOrientation(Guid railId)
* Description: Gets the orientation of a rail.
* Example: orientation = va.GetRailingRailOrientation(rail\_id)

SetRailingRailOrientation

* Signature: Boolean SetRailingRailOrientation(Guid railId, RailingRailOrientation orientation)
* Description: Sets the orientation for a rail. Returns True on success.
* Example: success = va.SetRailingRailOrientation(rail\_id, va.RailingRailOrientation.Vertical)

GetRailingRailProfileRotation

* Signature: Double GetRailingRailProfileRotation(Guid railId)
* Description: Gets the profile rotation of a rail.
* Example: rotation = va.GetRailingRailProfileRotation(rail\_id)

SetRailingRailProfileRotation

* Signature: Boolean SetRailingRailProfileRotation(Guid railId, Double rotation)
* Description: Sets the profile rotation for a rail. Returns True on success.
* Example: success = va.SetRailingRailProfileRotation(rail\_id, math.pi / 4)

GetRailingRailEndStyle

* Signature: RailingRailEndStyle GetRailingRailEndStyle(Guid railId)
* Description: Gets the end style of a rail.
* Example: end\_style = va.GetRailingRailEndStyle(rail\_id)

SetRailingRailEndStyle

* Signature: Boolean SetRailingRailEndStyle(Guid railId, RailingRailEndStyle endStyle)
* Description: Sets the end style for a rail. Returns True on success.
* Example: success = va.SetRailingRailEndStyle(rail\_id, va.RailingRailEndStyle.Square)

GetRailingRailEndsMargin

* Signature: Double GetRailingRailEndsMargin(Guid railId)
* Description: Gets the ends margin of a rail.
* Example: margin = va.GetRailingRailEndsMargin(rail\_id)

SetRailingRailEndsMargin

* Signature: Boolean SetRailingRailEndsMargin(Guid railId, Double margin)
* Description: Sets the ends margin for a rail. Returns True on success.
* Example: success = va.SetRailingRailEndsMargin(rail\_id, 0.1)

GetRailingRailPlanarJointStyle

* Signature: RailingRailJointStyle GetRailingRailPlanarJointStyle(Guid railId)
* Description: Gets the planar joint style of a rail.
* Example: joint = va.GetRailingRailPlanarJointStyle(rail\_id)

SetRailingRailPlanarJointStyle

* Signature: Boolean SetRailingRailPlanarJointStyle(Guid railId, RailingRailJointStyle jointStyle)
* Description: Sets the planar joint style for a rail. Returns True on success.
* Example: success = va.SetRailingRailPlanarJointStyle(rail\_id, va.RailingRailJointStyle.Miter)

GetRailingRailNonPlanarJointStyle

* Signature: RailingRailJointStyle GetRailingRailNonPlanarJointStyle(Guid railId)
* Description: Gets the non-planar joint style of a rail.
* Example: joint = va.GetRailingRailNonPlanarJointStyle(rail\_id)

SetRailingRailNonPlanarJointStyle

* Signature: Boolean SetRailingRailNonPlanarJointStyle(Guid railId, RailingRailJointStyle jointStyle)
* Description: Sets the non-planar joint style for a rail. Returns True on success.
* Example: success = va.SetRailingRailNonPlanarJointStyle(rail\_id, va.RailingRailJointStyle.Break)

GetRailingPostTemplateProfileId

* Signature: Guid GetRailingPostTemplateProfileId(Guid postId)
* Description: Gets the template profile Guid for a post.
* Example: template\_id = va.GetRailingPostTemplateProfileId(post\_id)

SetRailingPostTemplateProfileId

* Signature: Boolean SetRailingPostTemplateProfileId(Guid postId, Guid templateProfileId)
* Description: Sets the template profile for a post. Returns True on success.
* Example: success = va.SetRailingPostTemplateProfileId(post\_id, template\_id)

GetRailingPostSizeProfileId

* Signature: Guid GetRailingPostSizeProfileId(Guid postId)
* Description: Gets the size profile Guid for a post.
* Example: size\_id = va.GetRailingPostSizeProfileId(post\_id)

GetRailingPostHorizontalAlignment

* Signature: RailingPostHorizontalAlignment GetRailingPostHorizontalAlignment(Guid postId)
* Description: Gets the horizontal alignment of a post.
* Example: alignment = va.GetRailingPostHorizontalAlignment(post\_id)

SetRailingPostHorizontalAlignment

* Signature: Boolean SetRailingPostHorizontalAlignment(Guid postId, RailingPostHorizontalAlignment alignment)
* Description: Sets the horizontal alignment for a post. Returns True on success.
* Example: success = va.SetRailingPostHorizontalAlignment(post\_id, va.RailingPostHorizontalAlignment.Center)

GetRailingPostHorizontalAlignmentOffset

* Signature: Double GetRailingPostHorizontalAlignmentOffset(Guid postId)
* Description: Gets the horizontal alignment offset of a post.
* Example: offset = va.GetRailingPostHorizontalAlignmentOffset(post\_id)

SetRailingPostHorizontalAlignmentOffset

* Signature: Boolean SetRailingPostHorizontalAlignmentOffset(Guid postId, Double offset)
* Description: Sets the horizontal alignment offset for a post. Returns True on success.
* Example: success = va.SetRailingPostHorizontalAlignmentOffset(post\_id, 0.05)

GetRailingPostProfileRotation

* Signature: Double GetRailingPostProfileRotation(Guid postId)
* Description: Gets the profile rotation of a post.
* Example: rotation = va.GetRailingPostProfileRotation(post\_id)

SetRailingPostProfileRotation

* Signature: Boolean SetRailingPostProfileRotation(Guid postId, Double rotation)
* Description: Sets the profile rotation for a post. Returns True on success.
* Example: success = va.SetRailingPostProfileRotation(post\_id, math.pi / 4)

GetRailingPostEndsMargin

* Signature: Double GetRailingPostEndsMargin(Guid postId)
* Description: Gets the ends margin of a post.
* Example: margin = va.GetRailingPostEndsMargin(post\_id)

SetRailingPostEndsMargin

* Signature: Boolean SetRailingPostEndsMargin(Guid postId, Double margin)
* Description: Sets the ends margin for a post. Returns True on success.
* Example: success = va.SetRailingPostEndsMargin(post\_id, 0.1)

GetRailingBalusterTemplateProfileId

* Signature: Guid GetRailingBalusterTemplateProfileId(Guid balusterId)
* Description: Gets the template profile Guid for a baluster.
* Example: template\_id = va.GetRailingBalusterTemplateProfileId(baluster\_id)

SetRailingBalusterTemplateProfileId

* Signature: Boolean SetRailingBalusterTemplateProfileId(Guid balusterId, Guid templateProfileId)
* Description: Sets the template profile for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterTemplateProfileId(baluster\_id, template\_id)

GetRailingBalusterSizeProfileId

* Signature: Guid GetRailingBalusterSizeProfileId(Guid balusterId)
* Description: Gets the size profile Guid for a baluster.
* Example: size\_id = va.GetRailingBalusterSizeProfileId(baluster\_id)

GetRailingBalusterPathAlignment

* Signature: RailingBalusterPathAlignment GetRailingBalusterPathAlignment(Guid balusterId)
* Description: Gets the path alignment of a baluster.
* Example: alignment = va.GetRailingBalusterPathAlignment(baluster\_id)

SetRailingBalusterPathAlignment

* Signature: Boolean SetRailingBalusterPathAlignment(Guid balusterId, RailingBalusterPathAlignment alignment)
* Description: Sets the path alignment for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterPathAlignment(baluster\_id, va.RailingBalusterPathAlignment.Center)

GetRailingBalusterPathMargin

* Signature: Double GetRailingBalusterPathMargin(Guid balusterId)
* Description: Gets the path margin of a baluster.
* Example: margin = va.GetRailingBalusterPathMargin(baluster\_id)

SetRailingBalusterPathMargin

* Signature: Boolean SetRailingBalusterPathMargin(Guid balusterId, Double margin)
* Description: Sets the path margin for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterPathMargin(baluster\_id, 0.05)

GetRailingBalusterHorizontalAlignment

* Signature: RailingBalusterHorizontalAlignment GetRailingBalusterHorizontalAlignment(Guid balusterId)
* Description: Gets the horizontal alignment of a baluster.
* Example: alignment = va.GetRailingBalusterHorizontalAlignment(baluster\_id)

SetRailingBalusterHorizontalAlignment

* Signature: Boolean SetRailingBalusterHorizontalAlignment(Guid balusterId, RailingBalusterHorizontalAlignment alignment)
* Description: Sets the horizontal alignment for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterHorizontalAlignment(baluster\_id, va.RailingBalusterHorizontalAlignment.Center)

GetRailingBalusterHorizontalAlignmentOffset

* Signature: Double GetRailingBalusterHorizontalAlignmentOffset(Guid balusterId)
* Description: Gets the horizontal alignment offset of a baluster.
* Example: offset = va.GetRailingBalusterHorizontalAlignmentOffset(baluster\_id)

SetRailingBalusterHorizontalAlignmentOffset

* Signature: Boolean SetRailingBalusterHorizontalAlignmentOffset(Guid balusterId, Double offset)
* Description: Sets the horizontal alignment offset for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterHorizontalAlignmentOffset(baluster\_id, 0.03)

GetRailingBalusterProfileRotation

* Signature: Double GetRailingBalusterProfileRotation(Guid balusterId)
* Description: Gets the profile rotation of a baluster.
* Example: rotation = va.GetRailingBalusterProfileRotation(baluster\_id)

SetRailingBalusterProfileRotation

* Signature: Boolean SetRailingBalusterProfileRotation(Guid balusterId, Double rotation)
* Description: Sets the profile rotation for a baluster. Returns True on success.
* Example: success = va.SetRailingBalusterProfileRotation(baluster\_id, math.pi / 4)

GetRailingBalusterDistance

* Signature: Double GetRailingBalusterDistance(Guid balusterId)
* Description: Gets the distance between balusters.
* Example: distance = va.GetRailingBalusterDistance(baluster\_id)

SetRailingBalusterDistance

* Signature: Boolean SetRailingBalusterDistance(Guid balusterId, Double distance)
* Description: Sets the distance between balusters. Returns True on success.
* Example: success = va.SetRailingBalusterDistance(baluster\_id, 0.15)

GetRailingBalusterTopMargin

* Signature: Double GetRailingBalusterTopMargin(Guid balusterId)
* Description: Gets the top margin of balusters.
* Example: margin = va.GetRailingBalusterTopMargin(baluster\_id)

SetRailingBalusterTopMargin

* Signature: Boolean SetRailingBalusterTopMargin(Guid balusterId, Double margin)
* Description: Sets the top margin for balusters. Returns True on success.
* Example: success = va.SetRailingBalusterTopMargin(baluster\_id, 0.05)

GetRailingBalusterBottomMargin

* Signature: Double GetRailingBalusterBottomMargin(Guid balusterId)
* Description: Gets the bottom margin of balusters.
* Example: margin = va.GetRailingBalusterBottomMargin(baluster\_id)

SetRailingBalusterBottomMargin

* Signature: Boolean SetRailingBalusterBottomMargin(Guid balusterId, Double margin)
* Description: Sets the bottom margin for balusters. Returns True on success.
* Example: success = va.SetRailingBalusterBottomMargin(baluster\_id, 0.05)

IsRailing

* Signature: Boolean IsRailing(Guid id)
* Description: Checks if the Guid is a railing instance.
* Example: is\_railing = va.IsRailing(id)

IsRailingStyle

* Signature: Boolean IsRailingStyle(Guid id)
* Description: Checks if the Guid is a railing style.
* Example: is\_style = va.IsRailingStyle(id)

IsRailingPost

* Signature: Boolean IsRailingPost(Guid id)
* Description: Checks if the Guid is a railing post.
* Example: is\_post = va.IsRailingPost(id)

IsRailingRail

* Signature: Boolean IsRailingRail(Guid id)
* Description: Checks if the Guid is a railing rail.
* Example: is\_rail = va.IsRailingRail(id)

IsRailingBaluster

* Signature: Boolean IsRailingBaluster(Guid id)
* Description: Checks if the Guid is a railing baluster.
* Example: is\_baluster = va.IsRailingBaluster(id)

DeleteStyle

* Signature: Boolean DeleteStyle(Guid styleId)
* Description: Deletes a railing style. Returns True on success.
* Example: success = va.DeleteStyle(style\_id)

RenameStyle

* Signature: Boolean RenameStyle(Guid styleId, String newName)
* Description: Renames a railing style. Returns True on success.
* Example: success = va.RenameStyle(style\_id, "NewRailingStyle")

GetStyleName

* Signature: String GetStyleName(Guid styleId)
* Description: Gets the name of a railing style.
* Example: name = va.GetStyleName(style\_id)

DeleteStyleComponent

* Signature: Boolean DeleteStyleComponent(Guid componentId)
* Description: Deletes a style component (post, rail, baluster). Returns True on success.
* Example: success = va.DeleteStyleComponent(post\_id)

Enums/Options Reference for Railing

* RailingAlignment: Left (0), Center (1), Right (2)
* RailingBalusterHorizontalAlignment: Exterior (0), Center (1), Interior (2)
* RailingBalusterPathAlignment: Start (0), Center (1), End (2), Justify (3)
* RailingPostHorizontalAlignment: Exterior (0), Center (1), Interior (2)
* RailingRailHorizontalAlignment: Exterior (0), Center (1), Interior (2)
* RailingRailVerticalAlignment: Top (0), Center (1), Bottom (2)
* RailingRailOrientation: Aligned (0), Vertical (1)
* RailingRailEndStyle: Plumb (0), Square (1)
* RailingRailJointStyle: None (0), Break (1), Miter (2), Flat (3)