ComponentOccurrence Object

Description

This object represents an individual occurrence within an assembly. An occurrence can be either a part or subassembly. Information obtained from the occurrence is returned in the context of the component definition that served as the starting point to access the occurrence.

Methods

Name	Description
ChangeRowOfiAssemblyMember	Method that changes the row in the iAssemblyFactory this occurrence references. This method can be used only if the IsiAssemblyMember property returns True.
ChangeRowOfiPartMember	Method that changes the row in the iPartTable this iPartMember represents. This method can be used only if the iPartMember property is True.
CreateGeometryProxy	Method that creates a proxy object for input object. A proxy object represents another object within the assembly space. Queries made on the proxy object are returned with respect to the assembly space, not the space the real geometry exists in.
Delete	Method that deletes the occurrence. This is the equivalent of the user deleting the occurrence interactively.
Edit	Activates this component occurrence for editing by the end user via the user interface.
ExitEdit	Method that causes the component occurrence to return from the edit mode and into the environment specified by the input argument. If the ComponentOccurrence is not currently active (i.e. this is not the same occurrence as returned by AssemblyComponentDefinition.ActiveOccurrence), then this method does nothing.
GetDegreesOfFreedom	Method that returns the available degrees of freedom for the occurrence.
GetDisplayMode	Gets the display mode type - default or override.
GetReferenceKey	

	Method that generates and returns the reference key for this entity.
Replace	Method that replaces the occurrence or all instances of an occurrence with another file.
SetDesignViewRepresentation	Method that sets a design view representation for an assembly occurrence.
SetDisplayMode	Sets the display mode and type - default or override.
SetLevelOfDetailRepresentation	Method that sets a level of detail representation for an assembly occurrence.
SetTransformWithoutConstraints	Method that sets the position and orientation of the occurrence, ignoring any constraints on the occurrence. When the assembly is recomputed the occurrence will reposition to honor the constraints.
ShowRelationships	Method that shows all of the assembly constraints, joints and iMate objects associated with this occurrence.
Suppress	Suppresses this occurrence.
Unsuppress	Method that unsuppresses the occurrence.

Properties

Name	Description
ActiveDesignViewRepresentation	Property that returns the name of the active Design View Representation for an assembly occurrence. This property returns a null string in the case where a design view representation was set for the occurrence non-associatively (i.e. with the 'Associative' flag turned off). Supported occurrences of parts and assemblies.
ActiveLevelOfDetailRepresentation	Property that returns the name of the active Level of Detail Representation for an assembly occurrence.
ActivePositionalRepresentation	Gets and sets the active Positional Representation for this occurrence.
Adaptive	'Put' is Inventor Only: Gets/Sets the Boolean flag that specifies whether this Occurrence is adaptive or not.

Appearance	Gets and sets the current appearance of the component occurrence.
AppearanceSourceType	Gets and sets the source of the appearance for the component occurrence.
Application	Returns the top-level parent application object. When used the context of Inventor, an Application object is returned. When used in the context of Apprentice, an ApprenticeServer object is returned.
AssociativeForeignFilename	Read-only property that returns the full file name of the associative foreign file. This property returns empty string if the IsAssociativelyImported returns False.
AttributeSets	Property that returns the AttributeSets collection object associated with this object.
BOMStructure	Gets and sets the BOM structure override.
Constraints	Property returns the collection of constraints that are acting on the occurrence.
ContactSet	Gets and sets whether the component belongs in the contact set.
ContextDefinition	Property that returns the object this occurrence is in the context of. For example, all coordinate data returned by the definition is in the space of this ComponentDefinition.
Definition	Property that returns the object this occurrence references.
DefinitionDocumentType	Gets the type of the Document whose occurrence this is.
DisabledActionTypes	Gets and sets the action types valid for this component occurrence.
Enabled	'Put' is Inventor Only: Gets/Sets the Boolean flag that specifies whether this Occurrence is enabled or not.
Excluded	Read-write property that gets and sets whether the occurrence is excluded in the active row of the iAssembly factory. This property returns

	False and cannot be set to True if the parent document is not an iAssembly.
Flexible	Only works for assembly occurrences. Gets and sets the Boolean flag that specifies whether the assembly is flexible.
Grounded	'Put' is Inventor Only: Gets/Sets the Boolean flag that specifies whether this Occurrence is grounded or not.
HasAssociativeImportedComponent	Read-only property that returns whether the ComponentOccurrence has an associative imported component.
HasBodyOverride	Property that returns a Boolean specifying whether the occurrence path contains body-modifying assembly features.
iMateDefinitions	Property that returns the iMateDefinitions that are available from this occurrence. The iMateDefinition objects returned are actually proxies for the various iMateDefinition objects. These can be used as input to the Add and ValidResult methods of the iMateResults object.
ImportedComponent	Read-only property that returns the associative ImportedComponent object if the HasAssociativeImportedComponent returns True.
IsAssociativelyImported	Gets whether this occurrence is an associatively imported occurrence.
IsAssociativeToDesignViewRepresentation	Gets and sets whether this occurrence is associative to a design view representation.
IsiAssemblyMember	Property that returns whether the ComponentOccurrence is an iAssemblyMember. The property returns True if the ComponentOccurrence is an iAssemblyMember. This property always returns False for occurrences of part documents.
IsiPartMember	Property that specifies if the ComponentOccurence is an iPartMember. The property is True if the ComponentOccurence is an iPartMember.

IsPatternElement	Property that indicates whether this occurrence represents a pattern element. In the case where this occurrence represents a pattern element, this property returns True. The PatternElement property can be used to get that pattern element.
IsSubstituteOccurrence	Property that returns whether this occurrence references a substitute part in the context of a substitute level of detail representation.
Joints	Inventor Only: Gets the enumerator that presents the joints applied on this Component Occurrence.
MassProperties	Property that returns the MassProperties object. This supports performing mass properties calculations for this particular occurrence.
Name	Gets/Sets the human-readable name of this Component Occurrence.
OccurrencePath	Gets the path of immediate (directly instanced) occurrences that make up this occurrence.
OverrideOpacity	Gets and sets the opacity of an occurrence.
Parent	Gets the parent object from whom this object can logically be reached.
ParentOccurrence	Property that returns the parent of this occurrence. This property is only valid for the occurrences in a multi-level assembly that are not in the top level. The parent occurrence is the occurrence representing the subassembly this occurrence is contained within.
PatternElement	Property that returns the pattern element this occurrence represents. In the case where this occurrence is not part of a pattern this property returns Nothing. The IsPatternElement property can be used to check if this occurrence is part of a pattern.
RangeBox	Property that returns a Box object which contains the opposing points of a rectangular box that is guaranteed to enclose this object.
ReferencedDocumentDescriptor	

	Property that returns an enumeration of descriptors that represent the native document references held by this document.
ShowDegreesOfFreedom	Gets and sets whether to display the degrees of freedom for the occurrence.
SubOccurrences	Property that returns the collection of occurrences for an occurrence. This property applies to occurrences that represent a subassembly. The collection returned provides access to the occurrences contained within the subassembly. If this collection is obtained from an occurrence that represents a part, it will not contain any occurrences.
Suppressed	Property that returns whether this occurrence is suppressed or not.
SurfaceBodies	Property that returns the SurfaceBodies collection for the occurrence. This property applies to occurrences that represent a part and provides access to the B-Rep of that part. The B-Rep queries will return coordinate data in the context of the component definition that served as the starting point to access the occurrence, which can also be accessed through the ContextDefinition property.
Transformation	Use F1 key to display help topic.
Transparent	'Put' is Inventor Only: Gets/Sets the Boolean flag that specifies whether this Occurrence is transparent or not.
Type	Returns an ObjectTypeEnum indicating this object's type.
Visible	'Put' is Inventor Only: Gets/Sets the Boolean flag that specifies whether this Occurrence is visible or not.

Accessed From

AngleConstraint.AffectedOccurrenceOne, AngleConstraint.AffectedOccurrenceTwo, AngleConstraint.OccurrenceOne, AngleConstraint.OccurrenceTwo, AngleConstraintProxy.AffectedOccurrenceOne, AngleConstraintProxy.AffectedOccurrenceTwo, AngleConstraintProxy.ContainingOccurrence, AngleConstraintProxy.OccurrenceOne, AngleConstraintProxy.OccurrenceTwo, AngleiMateDefinitionProxy.ContainingOccurrence,

AngularModelDimensionProxy.ContainingOccurrence,
AnnotationPlaneProxy.ContainingOccurrence,
ArcLengthDimConstraintProxy.ContainingOccurrence,
AssemblyComponentDefinition.ActiveOccurrence,
AssemblyConstraint.AffectedOccurrenceOne, AssemblyConstraint.AffectedOccurrenceTwo,
AssemblyConstraint.OccurrenceOne, AssemblyConstraint.OccurrenceTwo,
AssemblyDocument.GetSelectedObject, AssemblyJoint.AffectedOccurrenceOne,
AssemblyJoint.AffectedOccurrenceTwo, AssemblyJoint.OccurrenceOne,
AssemblyJoint.OccurrenceTwo, AssemblyJointProxy.AffectedOccurrenceOne,
AssemblyJointProxy.AffectedOccurrenceTwo, AssemblyJointProxy.ContainingOccurrence,
AssemblyJointProxy.OccurrenceOne, AssemblyJointProxy.OccurrenceTwo,
AssemblySymmetryConstraint.AffectedOccurrenceOne,
AssemblySymmetryConstraint.AffectedOccurrenceTwo,
AssemblySymmetryConstraint.OccurrenceOne, AssemblySymmetryConstraint.OccurrenceTwo,
AssemblySymmetryConstraintProxy.AffectedOccurrenceOne,
AssemblySymmetryConstraintProxy.AffectedOccurrenceTwo,
AssemblySymmetryConstraintProxy.ContainingOccurrence,
AssemblySymmetryConstraintProxy.OccurrenceOne,
AssemblySymmetryConstraintProxy.OccurrenceTwo,
BendConstraintProxy.ContainingOccurrence, BendPartFeatureProxy.ContainingOccurrence,
BossFeatureProxy.ContainingOccurrence, BoundaryPatchFeatureProxy.ContainingOccurrence,
ChamferFeatureProxy.ContainingOccurrence,
CircularOccurrencePatternProxy.ContainingOccurrence,
CircularPatternFeatureProxy.ContainingOccurrence,
ClientFeatureElementProxy.ContainingOccurrence, ClientFeatureProxy.ContainingOccurrence,
CoilFeatureProxy.ContainingOccurrence, CoincidentConstraint3DProxy.ContainingOccurrence,
CoincidentConstraintProxy.ContainingOccurrence,
CollinearConstraint3DProxy.ContainingOccurrence,
CollinearConstraintProxy.ContainingOccurrence, CombineFeatureProxy.ContainingOccurrence,
ComponentOccurrence.ParentOccurrence,
ComponentOccurrenceProxy.ContainingOccurrence,
ComponentOccurrenceProxy.NativeObject, ComponentOccurrenceProxy.ParentOccurrence,
ComponentOccurrences.Add, ComponentOccurrences.AddByComponentDefinition,
ComponentOccurrences.AddCustomiPartMember,
ComponentOccurrences.AddiAssemblyMember, ComponentOccurrences.AddiPartMember,
ComponentOccurrences.AddVirtual, ComponentOccurrences.AddWithOptions,
ComponentOccurrences.Item, ComponentOccurrences.ItemByName,
ComponentOccurrencesEnumerator.Item,
CompositeiMateDefinitionProxy.ContainingOccurrence,
ConcentricConstraint3DProxy.ContainingOccurrence,
ConcentricConstraintProxy.ContainingOccurrence, CustomConstraint.AffectedOccurrenceOne,
CustomConstraint.AffectedOccurrenceTwo, CustomConstraint.OccurrenceOne,
CustomConstraint.OccurrenceTwo, CustomConstraint3DProxy.ContainingOccurrence,
CustomConstraintProxy.AffectedOccurrenceOne,
CustomConstraintProxy.AffectedOccurrenceTwo,
CustomConstraintProxy.ContainingOccurrence, CustomConstraintProxy.OccurrenceOne,
CustomConstraintProxy.OccurrenceTwo, DecalFeatureProxy.ContainingOccurrence,
DeleteFaceFeatureProxy.ContainingOccurrence,
DerivedAliasComponentProxy.ContainingOccurrence,
DerivedAssemblyComponentProxy.ContainingOccurrence,

DerivedAssemblyOccurrence.ReferencedOccurrence,
DerivedFutureAssemblyComponentProxy.ContainingOccurrence,
DerivedFuturePartComponentProxy.ContainingOccurrence,
DerivedPartComponentProxy.ContainingOccurrence,
DiameterDimConstraintProxy.ContainingOccurrence,
DiameterModelDimensionProxy.ContainingOccurrence,
DirectEditDeleteOperationProxy.ContainingOccurrence,
DirectEditFeatureProxy.ContainingOccurrence,
DirectEditMoveOperationProxy.ContainingOccurrence,
DirectEditOperationProxy.ContainingOccurrence,
DirectEditRotateOperationProxy.ContainingOccurrence,
DirectEditScaleOperationProxy.ContainingOccurrence,
DirectEditSizeOperationProxy.ContainingOccurrence, DWGArcProxy.ContainingOccurrence,
DWGBlockDefinitionProxy.ContainingOccurrence,
DWGBlockReferenceProxy.ContainingOccurrence,
DWGEllipticalArcProxy.ContainingOccurrence,
DWGEntityArcSegmentProxy.ContainingOccurrence,
DWGEntityEllipticalArcSegmentProxy.ContainingOccurrence,
DWGEntityLineSegmentProxy.ContainingOccurrence, DWGEntityProxy.ContainingOccurrence,
DWGEntitySegmentProxy.ContainingOccurrence,
DWGEntitySplineSegmentProxy.ContainingOccurrence, DWGLineProxy.ContainingOccurrence,
DWGPointProxy.ContainingOccurrence, DWGPolyline2DProxy.ContainingOccurrence,
DWGPolyline3DProxy.ContainingOccurrence, DWGPolylineProxy.ContainingOccurrence,
DWGSplineProxy.ContainingOccurrence, EdgeLoopProxy.ContainingOccurrence,
EdgeProxy.ContainingOccurrence, EdgeUseProxy.ContainingOccurrence,
EllipseRadiusDimConstraintProxy.ContainingOccurrence,
EmbossFeatureProxy.ContainingOccurrence, EqualConstraint3DProxy.ContainingOccurrence,
EqualLengthConstraintProxy.ContainingOccurrence,
EqualRadiusConstraintProxy.ContainingOccurrence,
ExtendFeatureProxy.ContainingOccurrence, ExtrudeFeatureProxy.ContainingOccurrence,
FaceDraftFeatureProxy.ContainingOccurrence, FaceOffsetFeatureProxy.ContainingOccurrence,
FaceProxy.ContainingOccurrence, FaceShellProxy.ContainingOccurrence,
FeatureBasedOccurrencePatternProxy.ContainingOccurrence,
FeatureDimensionProxy.ContainingOccurrence,
FeaturePatternElementProxy.ContainingOccurrence, FilletFeatureProxy.ContainingOccurrence,
FlushConstraint.AffectedOccurrenceOne, FlushConstraint.AffectedOccurrenceTwo,
FlushConstraint.OccurrenceOne, FlushConstraint.OccurrenceTwo,
FlushConstraintProxy.AffectedOccurrenceOne, FlushConstraintProxy.AffectedOccurrenceTwo,
FlushConstraintProxy.ContainingOccurrence, FlushConstraintProxy.OccurrenceOne,
FlushConstraintProxy.OccurrenceTwo, FlushiMateDefinitionProxy.ContainingOccurrence,
FreeformFeatureProxy.ContainingOccurrence, GraphicsNodeProxy.ContainingOccurrence,
GrillFeatureProxy.ContainingOccurrence, GroundConstraint3DProxy.ContainingOccurrence,
GroundConstraintProxy.ContainingOccurrence,
HelicalConstraint3DProxy.ContainingOccurrence, HoleFeatureProxy.ContainingOccurrence,
HorizontalAlignConstraintProxy.ContainingOccurrence,
HorizontalConstraintProxy.ContainingOccurrence, iFeatureProxy.ContainingOccurrence,
iMateResultProxy.ContainingOccurrence,
ImportedDWGComponentProxy.ContainingOccurrence,
ImportedGenericComponentProxy.ContainingOccurrence,
InsertConstraint.AffectedOccurrenceOne, InsertConstraint.AffectedOccurrenceTwo,

InsertConstraint.OccurrenceOne, InsertConstraint.OccurrenceTwo, InsertConstraintProxy.AffectedOccurrenceOne, InsertConstraintProxy.AffectedOccurrenceTwo, InsertConstraintProxy.ContainingOccurrence, InsertConstraintProxy.OccurrenceOne, InsertConstraintProxy.OccurrenceTwo, InsertiMateDefinitionProxy.ContainingOccurrence, InterferenceResult.OccurrenceOne, InterferenceResult.OccurrenceTwo, IntersectionCurveProxy.ContainingOccurrence, KnitFeatureProxy.ContainingOccurrence, LayoutConstraintProxy.ContainingOccurrence, LevelOfDetailRepresentation.SubstituteOccurrence, LinearModelDimensionProxy.ContainingOccurrence, LineLengthDimConstraint3DProxy.ContainingOccurrence, LipFeatureProxy.ContainingOccurrence, LoftFeatureProxy.ContainingOccurrence, MateConstraint.AffectedOccurrenceOne, MateConstraint.AffectedOccurrenceTwo, MateConstraint.OccurrenceOne, MateConstraint.OccurrenceTwo, MateConstraintProxy.AffectedOccurrenceOne, MateConstraintProxy.AffectedOccurrenceTwo, MateConstraintProxy.ContainingOccurrence, MateConstraintProxy.OccurrenceOne, MateConstraintProxy.OccurrenceTwo, MateiMateDefinitionProxy.ContainingOccurrence, MeshEdgeProxy.ContainingOccurrence, MeshFaceProxy.ContainingOccurrence, MeshFeatureEntityProxy.ContainingOccurrence, MeshFeatureProxy.ContainingOccurrence, MeshFeatureSetProxy.ContainingOccurrence, MeshVertexProxy.ContainingOccurrence, MidpointConstraint3DProxy.ContainingOccurrence, MidpointConstraintProxy.ContainingOccurrence, MidSurfaceFeatureProxy.ContainingOccurrence, MirrorFeatureProxy.ContainingOccurrence, ModelCompositeAnnotationProxy.ContainingOccurrence, ModelDatumIdentifierProxy.ContainingOccurrence, ModelDatumReferenceFrameProxy.ContainingOccurrence, ModelFeatureControlFrameProxy.ContainingOccurrence, ModelGeneralNoteProxy.ContainingOccurrence, ModelHoleThreadNoteProxy.ContainingOccurrence, ModelLeaderNoteProxy.ContainingOccurrence, ModelSurfaceTextureSymbolProxy.ContainingOccurrence, ModelToleranceFeatureProxy.ContainingOccurrence, MoveFaceFeatureProxy.ContainingOccurrence, MoveFeatureProxy.ContainingOccurrence, NonParametricBaseFeatureDefinition.TargetOccurrence, NonParametricBaseFeatureProxy.ContainingOccurrence, OccurrencePatternElementProxy.ContainingOccurrence, OffsetConstraintProxy.ContainingOccurrence, OffsetDimConstraintProxy.ContainingOccurrence, OffsetSplineDimConstraintProxy.ContainingOccurrence, OnFaceConstraint3DProxy.ContainingOccurrence, OnFaceCurveProxy.ContainingOccurrence, ParallelConstraint3DProxy.ContainingOccurrence, ParallelConstraintProxy.ContainingOccurrence, ParallelToXAxisConstraint3DProxy.ContainingOccurrence, ParallelToXYPlaneConstraint3DProxy.ContainingOccurrence, ParallelToXZPlaneConstraint3DProxy.ContainingOccurrence, ParallelToYAxisConstraint3DProxy.ContainingOccurrence, ParallelToYZPlaneConstraint3DProxy.ContainingOccurrence, ParallelToZAxisConstraint3DProxy.ContainingOccurrence, PartDocument.GetSelectedObject, PathEntityProxy.ContainingOccurrence, PathProxy.ContainingOccurrence, PatternConstraintProxy.ContainingOccurrence, PerpendicularConstraint3DProxy.ContainingOccurrence,

PerpendicularConstraintProxy.ContainingOccurrence,
PlanarSketchProxy.ContainingOccurrence,
PointAndPlaneDistanceDimConstraint3DProxy.ContainingOccurrence,
PointCloudPlaneProxy.ContainingOccurrence, PointCloudPointProxy.ContainingOccurrence,
PointCloudProxy.ContainingOccurrence, Profile3DProxy.ContainingOccurrence,
ProfileEntity3DProxy.ContainingOccurrence, ProfileEntityProxy.ContainingOccurrence,
ProfilePath3DProxy.ContainingOccurrence, ProfilePathProxy.ContainingOccurrence,
ProfileProxy.ContainingOccurrence, ProjectedCutProxy.ContainingOccurrence,
RadiusDimConstraint3DProxy.ContainingOccurrence,
RadiusDimConstraintProxy.ContainingOccurrence,
RadiusModelDimensionProxy.ContainingOccurrence,
RectangularOccurrencePatternProxy.ContainingOccurrence,
RectangularPatternFeatureProxy.ContainingOccurrence,
ReferenceFeatureProxy.ContainingOccurrence,
ReplaceFaceFeatureProxy.ContainingOccurrence, RestFeatureProxy.ContainingOccurrence,
RevolveFeatureProxy.ContainingOccurrence, RibFeatureProxy.ContainingOccurrence,
RotateRotateConstraint.AffectedOccurrenceOne,
RotateRotateConstraint.AffectedOccurrenceTwo, RotateRotateConstraint.OccurrenceOne,
RotateRotateConstraint.OccurrenceTwo,
RotateRotateConstraintProxy.AffectedOccurrenceOne,
RotateRotateConstraintProxy.AffectedOccurrenceTwo,
RotateRotateConstraintProxy.ContainingOccurrence,
RotateRotateConstraintProxy.OccurrenceOne, RotateRotateConstraintProxy.OccurrenceTwo,
RotateRotateiMateDefinitionProxy.ContainingOccurrence,
RotateTranslateConstraint.AffectedOccurrenceOne,
RotateTranslateConstraint.AffectedOccurrenceTwo,
RotateTranslateConstraint.OccurrenceOne, RotateTranslateConstraint.OccurrenceTwo,
RotateTranslateConstraintProxy.AffectedOccurrenceOne,
RotateTranslateConstraintProxy.AffectedOccurrenceTwo,
RotateTranslateConstraintProxy.ContainingOccurrence,
RotateTranslateConstraintProxy.OccurrenceOne,
RotateTranslateConstraintProxy.OccurrenceTwo,
RotateTranslateiMateDefinitionProxy.ContainingOccurrence,
RuledSurfaceFeatureProxy.ContainingOccurrence,
RuleFilletFeatureProxy.ContainingOccurrence, SculptFeatureProxy.ContainingOccurrence,
ShellFeatureProxy.ContainingOccurrence, ShrinkwrapComponentProxy.ContainingOccurrence,
SilhouetteCurveProxy.ContainingOccurrence, Sketch3DProxy.ContainingOccurrence,
SketchArc3DProxy.ContainingOccurrence, SketchArcProxy.ContainingOccurrence,
SketchBlockDefinitionProxy.ContainingOccurrence, SketchBlockProxy.ContainingOccurrence,
SketchCircle3DProxy.ContainingOccurrence, SketchCircleProxy.ContainingOccurrence,
SketchControlPointSpline3DProxy.ContainingOccurrence,
SketchControlPointSplineProxy.ContainingOccurrence,
SketchDrivenPatternFeatureProxy.ContainingOccurrence,
SketchEllipse3DProxy.ContainingOccurrence, SketchEllipseProxy.ContainingOccurrence,
SketchEllipticalArc3DProxy.ContainingOccurrence,
SketchEllipticalArcProxy.ContainingOccurrence,
SketchEquationCurve3DProxy.ContainingOccurrence,
SketchEquationCurveProxy.ContainingOccurrence,
SketchFixedSpline3DProxy.ContainingOccurrence,
SketchFixedSplineProxy.ContainingOccurrence, SketchImageProxy.ContainingOccurrence,

SketchLine3DProxy.ContainingOccurrence, SketchLineProxy.ContainingOccurrence, SketchOffsetSplineProxy.ContainingOccurrence, SketchPoint3DProxy.ContainingOccurrence, SketchPointProxy.ContainingOccurrence, SketchSpline3DProxy.ContainingOccurrence, SketchSplineHandle3DProxy.ContainingOccurrence, SketchSplineHandleProxy.ContainingOccurrence, SketchSplineProxy.ContainingOccurrence, SmoothConstraint3DProxy.ContainingOccurrence, SmoothConstraintProxy.ContainingOccurrence, SnapFitFeatureProxy.ContainingOccurrence, SplineFitPointConstraintProxy.ContainingOccurrence, SplineFitPointsConstraint3DProxy.ContainingOccurrence, SplitFeatureProxy.ContainingOccurrence, SurfaceBodyProxy.ContainingOccurrence, SweepFeatureProxy.ContainingOccurrence, SymmetryConstraintProxy.ContainingOccurrence, TangentConstraint.AffectedOccurrenceOne, TangentConstraint.AffectedOccurrenceTwo, TangentConstraint.OccurrenceOne, TangentConstraint.OccurrenceTwo, TangentConstraint3DProxy.ContainingOccurrence, TangentConstraintProxy.AffectedOccurrenceOne, TangentConstraintProxy.AffectedOccurrenceTwo, TangentConstraintProxy.ContainingOccurrence, TangentConstraintProxy.OccurrenceOne, TangentConstraintProxy.OccurrenceTwo, TangentDistanceDimConstraintProxy.ContainingOccurrence, TangentiMateDefinitionProxy.ContainingOccurrence, TangentSketchConstraintProxy.ContainingOccurrence, TextBoxConstraintProxy.ContainingOccurrence, TextBoxProxy.ContainingOccurrence, ThickenFeatureProxy.ContainingOccurrence, ThreadFeatureProxy.ContainingOccurrence, ThreePointAngleDimConstraintProxy.ContainingOccurrence, TransitionalConstraint.AffectedOccurrenceOne, TransitionalConstraint.AffectedOccurrenceTwo, TransitionalConstraint.OccurrenceOne, TransitionalConstraint.OccurrenceTwo, TransitionalConstraintProxy.AffectedOccurrenceOne, TransitionalConstraintProxy.AffectedOccurrenceTwo, TransitionalConstraintProxy.ContainingOccurrence, TransitionalConstraintProxy.OccurrenceOne, TransitionalConstraintProxy.OccurrenceTwo, TranslateTranslateConstraint.AffectedOccurrenceOne, TranslateTranslateConstraint.AffectedOccurrenceTwo, TranslateTranslateConstraint.OccurrenceOne, TranslateTranslateConstraint.OccurrenceTwo, TranslateTranslateConstraintProxy.AffectedOccurrenceOne, TranslateTranslateConstraintProxy.AffectedOccurrenceTwo, TranslateTranslateConstraintProxy.ContainingOccurrence, TranslateTranslateConstraintProxy.OccurrenceOne, TranslateTranslateConstraintProxy.OccurrenceTwo, TrimFeatureProxy.ContainingOccurrence, TwoLineAngleDimConstraint3DProxy.ContainingOccurrence, TwoLineAngleDimConstraintProxy.ContainingOccurrence, TwoPointDistanceDimConstraint3DProxy.ContainingOccurrence, TwoPointDistanceDimConstraintProxy.ContainingOccurrence, UserCoordinateSystemProxy.ContainingOccurrence, VertexProxy.ContainingOccurrence, VerticalAlignConstraintProxy.ContainingOccurrence, VerticalConstraintProxy.ContainingOccurrence, WeldmentComponentDefinition.ActiveOccurrence, WorkAxisProxy.ContainingOccurrence, WorkPlaneProxy.ContainingOccurrence, WorkPointProxy.ContainingOccurrence, WorkSurfaceProxy.ContainingOccurrence

Derived Classes

ComponentOccurrenceProxy

Samples

Name	Description
Adding iAssembly occurrences	This sample demonstrates adding iAssembly occurrences to an assembly.
Adding iPart occurrences to an assembly	This sample demonstrates adding iPart occurrences to an assembly.
Assembly Add Occurrence	This sample demonstrates placing an assembly occurrence.
iMate Creation During Occurrence Placement	This sample demonstrates creating multiple iMate results when adding an occurrence into an assembly. This uses the AddUsingiMate method which is the equivalent of using the Place Component command and checking the Use iMate check box on the dialog.
Interference Analysis	This sample demonstrates the functions used to calculate interference analysis in an assembly.
Add mate constraint using work planes in parts	This sample demonstrates creating a mate constraint between two occurrences using the work planes within those occurrences.
Traverse an Assembly	This sample shows how to recursively traverse an assembly and get the count of leaf node components and subassemblies.
Assembly Ground Occurrences	This sample demonstrates grounding an assembly occurrence.
Replace content center part	This sample demonstrates how to replace the content part referenced by an assembly occurrence.
Replace content center part	This sample demonstrates how to replace the content part referenced by an assembly occurrence.
Derived Parts and Assemblies	This sample demonstrates the use of the API to create derived parts and assemblies.
Create assembly occurrence with representations	This sample demonstrates how to create an assembly occurrence by specifying various representations.

| Projection - project across parts | This sample demonstrates projecting a sketch entity across parts in an assembly. To use the sample, have an assembly open that contains at least two occurrences, (parts only), and run the program. |
| Assembly Move Occurrence | This sample demonstrates moving a component occurrence. This sample performs a translate, but a rotate can also be performed since the transform is defined using a matrix. |

Version
Introduced in version 4

© Copyright 2017 Autodesk, Inc.   Comment on this page.