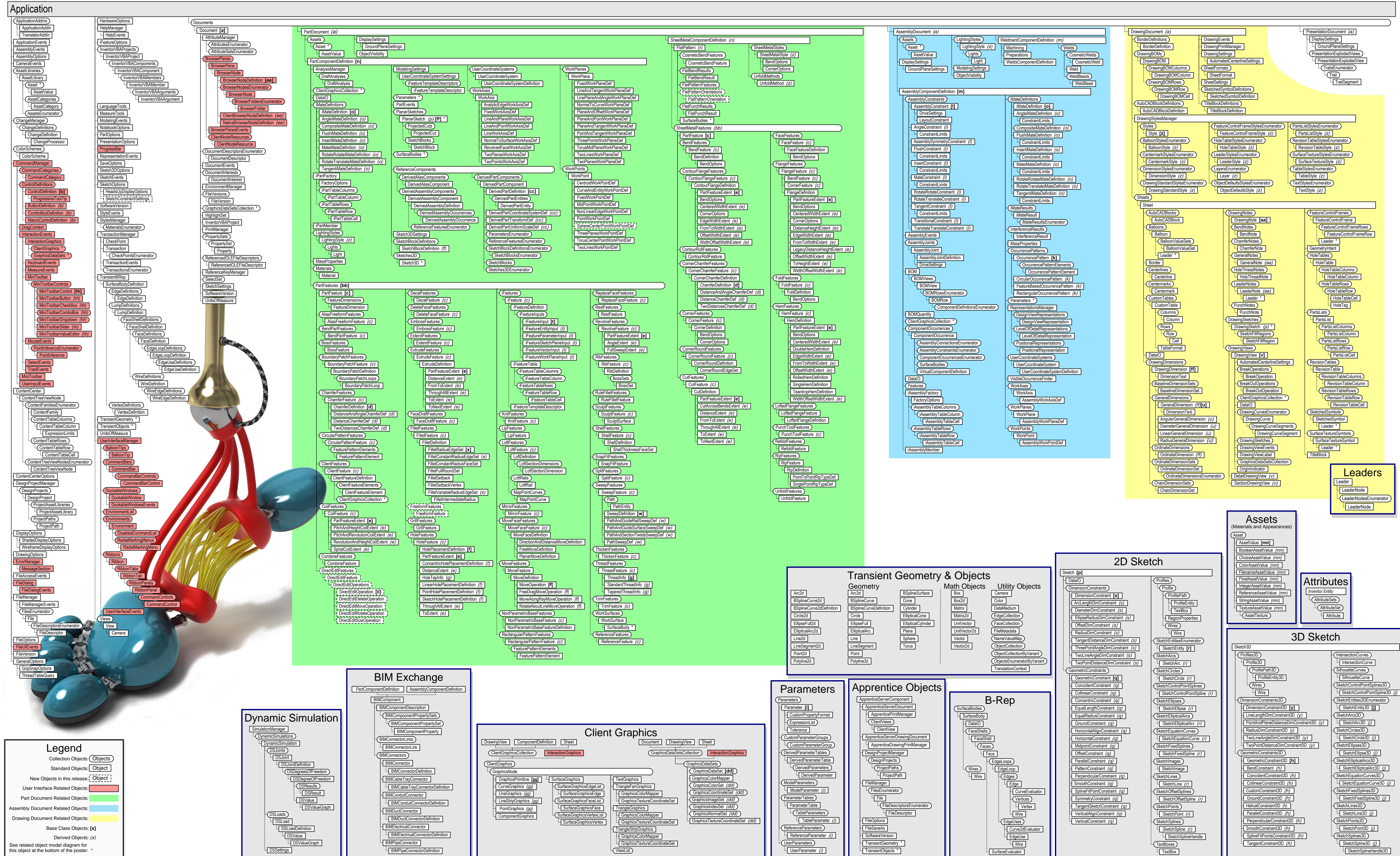


AUTODESK® INVENTOR® 2015 API Object Model



Legend

- Collection Objects:
- Standard Objects:
- New Objects in this release:
- User Interface Related Objects:
- Part Document Related Objects:
- Assembly Document Related Objects:
- Drawing Document Related Objects:
- Base Class Objects:
- Derived Objects:

See related object model diagram for this object at the bottom of the poster.

Dynamic Simulation

- SimulationManager
 - DynamicSimulations
 - DSJoint
 - DSJointDefinition
 - DSDegreesOfFreedom
 - DSDegreeOfFreedom
 - DSResults
 - DSResult
 - DSValue
 - DSValueGraph
 - DSLasts
 - DSLast
 - DSLDefinition
 - DSLValue
 - DSLValueGraph
 - DSLSettings

BIM Exchange

- PartComponentDefinition
- AssemblyComponentDefinition
- BIMComponent
 - BIMComponentDescription
 - BIMComponentPropertySets
 - BIMComponentPropertySet
 - BIMComponentProperty
- BIMConnector
 - BIMConnectorLink
 - BIMConnectorDefinition
 - BIMCableTrayConnector
 - BIMConduitConnector
 - BIMConduitConnectorDefinition
 - BIMDuctConnector
 - BIMDuctConnectorDefinition
 - BIMElectricalConnector
 - BIMElectricalConnectorDefinition
 - BIMPipeConnector
 - BIMPipeConnectorDefinition

Client Graphics

- DrawingView
- ComponentDefinition
- Sheet
- ClientGraphicsCollection
- InteractionGraphics
- GraphicsDataSetsCollection
- InteractionGraphics
 - GraphicsNode
 - GraphicsPrimitive (gg)
 - CurveGraphics (gg)
 - LineGraphics (gg)
 - LineStripGraphics (gg)
 - PointGraphics (gg)
 - ComponentGraphics
 - SurfaceGraphics
 - SurfaceGraphicsEdgeSet
 - SurfaceGraphicsEdge
 - SurfaceGraphicsFaceSet
 - SurfaceGraphicsFace
 - SurfaceGraphicsVertexSet
 - SurfaceGraphicsVertex
 - TextGraphics
 - TriangleFanGraphics
 - GraphicsColorMapper
 - GraphicsTextureCoordinateSet
 - TriangleGraphics
 - GraphicsColorMapper
 - GraphicsTextureCoordinateSet
 - GraphicsColorMapper
 - GraphicsTextureCoordinateSet
 - GraphicsTextureCoordinateSet
 - ViewList

Parameters

- Parameter (i)
- CustomList
- ExpressionList
- Tolerance
- CustomParameterGroups
- CustomParameterGroup
- DerivedParameterTables
- DerivedParameterTable
- DerivedParameters
- ModeParameters
- ModeParameter (i)
- ParameterTable
- ParameterTable
- TableParameter (i)
- ReferenceParameters
- ReferenceParameter (i)
- UserParameters
- UserParameter (i)

Apprentice Objects

- ApprenticeServerComponent
- ApprenticeServerDocument
- ApprenticePrintManager
- ClientViews
- ClientView
- ApprenticeServerDrawingDocument
- ApprenticeDrawingPrintManager
- DesignProjects
- ProjectPaths
- ProjectPath
- FileManager
- FilesEnumerator
- FileDescriptor
- FileOptions
- FileSaveAs
- SoftwareVersion
- UserParameters
- TransientGeometry
- TransientObjects *

B-Rep

- SurfaceBodies
 - SurfaceBody
 - FaceShells
 - FaceShell
 - Face
 - Wire
 - Wire
 - EdgeLoops
 - EdgeLoop
 - Edges
 - Edge
 - CurveEvaluator
 - Vertex
 - Vertex
 - Wire
 - EdgeUses
 - CurveEvaluator
 - EdgeUse
 - Wire
 - SurfaceEvaluator

2D Sketch

- Sketch (p)
- DimensionConstraints
 - DimensionConstraint (s)
 - ArclengthDimConstraint (s)
 - DiameterDimConstraint (s)
 - EllipticalCone (s)
 - EllipticalRadiusDimConstraint (s)
 - OffsetDimConstraint (s)
 - RadiusDimConstraint (s)
 - TangentDistanceDimConstraint (s)
 - ThreePointAngleDimConstraint (s)
 - TwoLineAngleDimConstraint (s)
 - TwoPointDistanceDimConstraint (s)
- GeometricConstraints
 - GeometricConstraint (g)
 - ConcidentConstraint (q)
 - CollinearConstraint (q)
 - ConcentricConstraint (q)
 - EqualLengthConstraint (q)
 - EqualRadiusConstraint (q)
 - HorizontalAlignConstraint (q)
 - MidpointConstraint (q)
 - ParallelConstraint (q)
 - PerpendicularConstraint (q)
 - SmoothConstraint (q)
 - SpineFitPointConstraint (q)
 - SymmetryConstraint (q)
 - TangentSketchConstraint (q)
 - VerticalAlignConstraint (q)
 - VerticalConstraint (q)
- ProfilePath
 - ProfilePath
 - ProfileEntity
 - TextBox
 - RegionProperties
 - Wires
 - SketchEntitiesEnumerator
 - SketchEntity (f)
 - SketchArcs
 - SketchArc (f)
 - SketchCircles
 - SketchCircle (f)
 - SketchControlPointSplines
 - SketchControlPointSpline (f)
 - SketchEllipses
 - SketchEllipse (f)
 - SketchEllipticalArcs
 - SketchEllipticalArc (f)
 - SketchEquationCurves
 - SketchEquationCurve (f)
 - SketchFixedSplines
 - SketchFixedSpline (f)
 - SketchImages
 - SketchImage
 - SketchLines
 - SketchLine (f)
 - SketchOffsetSplines
 - SketchOffsetSpline (f)
 - SketchPoints
 - SketchPoint (f)
 - SketchSplines
 - SketchSpline (f)
 - SketchSplineHandle
 - TextBlock

3D Sketch

- Sketch3D
 - Profiles3D
 - Profile3D
 - ProfilePath3D
 - Wire
 - Wire
 - DimensionConstraints3D
 - DimensionConstraint3D (y)
 - LineLengthDimConstraint3D (y)
 - PointAndPlaneDistanceDimConstraint3D (y)
 - RadiusDimConstraint3D (y)
 - TwoLineAngleDimConstraint3D (y)
 - TwoPointDistanceDimConstraint3D (y)
 - GeometricConstraints3D
 - GeometricConstraint3D (h)
 - ConcidentConstraint3D (h)
 - CollinearConstraint3D (h)
 - ConcentricConstraint3D (h)
 - CustomConstraint3D (h)
 - GroundConstraint3D (h)
 - HorizontalAlignConstraint3D (h)
 - ParallelConstraint3D (h)
 - PerpendicularConstraint3D (h)
 - SmoothConstraint3D (h)
 - SpineFitPointConstraint3D (h)
 - SymmetryConstraint3D (h)
 - TangentSketchConstraint3D (h)
 - VerticalAlignConstraint3D (h)
 - VerticalConstraint3D (h)
 - IntersectionCurves
 - SketchEntity3DEnumerator
 - SketchEntity3D (f)
 - SketchArc3D (f)
 - SketchCircle3D (f)
 - SketchCircle3D (f)
 - SketchEllipticalArc3D (f)
 - SketchEquationCurve3D (f)
 - SketchFixedSpline3D (f)
 - SketchEllipticalArc3D (f)
 - SketchEquationCurve3D (f)
 - SketchFixedSpline3D (f)
 - SketchImage3D (f)
 - SketchLine3D (f)
 - SketchOffsetSpline3D (f)
 - SketchPoint3D (f)
 - SketchSpline3D (f)
 - SketchSplineHandle3D (f)
 - TextBlock

Leaders

- Leader
- LeaderNode
- LeaderNodesEnumerator
- LeaderNode

Assets

(Materials and Appearances)

- Asset
 - AssetValue (mm)
 - BooleanAssetValue (mm)
 - ChoiceAssetValue (mm)
 - ColorAssetValue (mm)
 - FilenameAssetValue (mm)
 - FloatAssetValue (mm)
 - IntegerAssetValue (mm)
 - ReferenceAssetValue (mm)
 - StringAssetValue (mm)
 - TextureAssetValue (mm)
 - AssetTexture

Attributes

- Inventor Entity
 - AttributeSets
 - AttributeSet
 - Attribute