

# ExtrudeFeatureProxy Object

Derived from: [ExtrudeFeature](#) Object

## Description

This is an assembly-context proxy object derived from its native definition-context object.

## Methods

Name	Description
<a href="#">AddParticipant</a>	Method that adds the specified participant to the assembly feature. This method fails for features in a part.
<a href="#">Delete</a>	Method that deletes the feature. The arguments allow control over which dependent objects are also deleted.
<a href="#">GetReferenceKey</a>	Method that generates and returns the reference key for this entity.
<a href="#">GetSuppressionCondition</a>	Method that gets the suppression condition for the feature. The method returns False if no condition has been applied.
<a href="#">RemoveParticipant</a>	Method that removes the specified participant from the assembly feature. This method fails for features in a part.
<a href="#">SetAffectedBodies</a>	Method that sets a collection of SurfaceBody objects affected by this feature.
<a href="#">SetEndOfPart</a>	Method that repositions the end-of-part marker relative to the object this method is called from.
<a href="#">SetSuppressionCondition</a>	Method that sets the suppression condition for the feature.

## Properties

Name	Description
<a href="#">Adaptive</a>	Gets and sets whether this feature is adaptive or not.
<a href="#">Appearance</a>	Gets and sets the current appearance of the feature.
<a href="#">AppearanceSourceType</a>	Gets and sets the source of the appearance for the feature.
<a href="#">Application</a>	Returns the top-level parent application object. When used in the context of Inventor, an Application object is returned. When used in the context of Apprentice, an ApprenticeServer object is returned.
<a href="#">AttributeSets</a>	Property that returns the AttributeSets collection object associated with this object.
<a href="#">ConsumeInputs</a>	Gets and sets whether the inputs to this feature should be nested under this feature in the browser.
<a href="#">ContainingOccurrence</a>	Property that returns the ComponentOccurrence that the native object is being referenced through. The returned occurrence is the containing occurrence.
<a href="#">Definition</a>	Read-write property that gets and sets the ExtrudeDefinition object associated with this feature.
<a href="#">EndFaces</a>	Property that returns the set of that cap one end of the extrusion.
<a href="#">ExtendedName</a>	

	Read-only property that returns the full feature name including any extended information.
<a href="#">Faces</a>	Property that returns a collection that provides access to all of the faces of the feature. The Faces collection object will return the faces that still currently exist in the part. For example, if a face has been consumed by additional modeling operations it will not be returned.
<a href="#">FeatureDimensions</a>	Property that returns the FeatureDimensions collection object.
<a href="#">HealthStatus</a>	Property that returns an enum indicating the current state of the object.
<a href="#">IsOwnedByFeature</a>	Property that returns whether this object is owned by a feature. If True, the OwnedBy property returns the owning feature.
<a href="#">Name</a>	Gets/Sets the name of this Part Feature within the scope of this Document.
<a href="#">NativeObject</a>	Gets the object in the context of the definition instead of the containing assembly.
<a href="#">OwnedBy</a>	Property that returns the owning PartFeature object. This property returns Nothing if the IsOwnedByFeature property returns False.
<a href="#">Parameters</a>	Property that returns all the parameters associated with the feature.
<a href="#">Parent</a>	Property that returns the parent of the feature.
<a href="#">Participants</a>	Property that returns the list of participants for an assembly feature. This list is empty for features in a part.
<a href="#">RangeBox</a>	Property that returns a Box object which contains the opposing points of a rectangular box that is guaranteed to enclose this object.
<a href="#">Shared</a>	Gets and sets whether the part feature is shared or not, applies only to surface features.
<a href="#">SideFaces</a>	Property that returns a object that provides access to all of the faces created around the perimeter of the feature.
<a href="#">StartFaces</a>	Property that returns the set of that cap one end of the extrusion and are coincident with the sketch plane. In the case of a symmetric extrusion these faces are the ones on the positive normal side of the sketch plane. In the case where there aren't any start faces this property will return Nothing.
<a href="#">Suppressed</a>	Gets and sets whether this feature is suppressed or not.
<a href="#">SurfaceBodies</a>	Property that returns the bodies that this feature has created or modified.
<a href="#">Type</a>	Returns an ObjectTypeEnum indicating this object's type.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.Adaptive Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets whether this feature is adaptive or not.

## Syntax

ExtrudeFeatureProxy.**Adaptive()** As Boolean

## Property Value

This is a read/write property whose value is a Boolean.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.AddParticipant Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that adds the specified participant to the assembly feature. This method fails for features in a part.

## Syntax

ExtrudeFeatureProxy.**AddParticipant( *Occurrence* As [ComponentOccurrence](#) )**

## Parameters

Name	Type	Description
Occurrence	<a href="#">ComponentOccurrence</a>	ComponentOccurrence object that specifies the participant to be added. An error occurs if the input ComponentOccurrence is not a leaf occurrence.

## Version

Introduced in version 11

# ExtrudeFeatureProxy.Appearance Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets the current appearance of the feature.

## Syntax

ExtrudeFeatureProxy.Appearance() As [Asset](#)

## Property Value

This is a read/write property whose value is an [Asset](#).

## Version

Introduced in version 2014

# ExtrudeFeatureProxy.AppearanceSourceType Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets the source of the appearance for the feature.

## Syntax

ExtrudeFeatureProxy.AppearanceSourceType() As [AppearanceSourceTypeEnum](#)

## Property Value

This is a read/write property whose value is an [AppearanceSourceTypeEnum](#).

## Version

Introduced in version 2014

# ExtrudeFeatureProxy.Application Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Returns the top-level parent application object. When used in the context of Inventor, an Application object is returned. When used in the context of Apprentice, an ApprenticeServer object is returned.

## Syntax

ExtrudeFeatureProxy.**Application()** As Object

## Property Value

This is a read only property whose value is an Object.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.AttributeSets Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the AttributeSets collection object associated with this object.

## Syntax

ExtrudeFeatureProxy.**AttributeSets()** As [AttributeSets](#)

## Property Value

This is a read only property whose value is an [AttributeSets](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.ConsumeInputs Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets whether the inputs to this feature should be nested under this feature in the browser.

## Syntax

ExtrudeFeatureProxy.**ConsumeInputs()** As Boolean

## Property Value

This is a read/write property whose value is a Boolean.

### Version

Introduced in version 11

## ExtrudeFeatureProxy.ContainingOccurrence Property

Parent Object: [ExtrudeFeatureProxy](#)

### Description

Property that returns the ComponentOccurrence that the native object is being referenced through. The returned occurrence is the containing occurrence.

### Syntax

ExtrudeFeatureProxy.**ContainingOccurrence()** As [ComponentOccurrence](#)

## Property Value

This is a read only property whose value is a [ComponentOccurrence](#).

### Version

Introduced in version 9

## ExtrudeFeatureProxy.Definition Property

Parent Object: [ExtrudeFeatureProxy](#)

### Description

Read-write property that gets and sets the ExtrudeDefinition object associated with this feature.

### Syntax

ExtrudeFeatureProxy.**Definition()** As [ExtrudeDefinition](#)

## Property Value

This is a read/write property whose value is an [ExtrudeDefinition](#).

## Version

Introduced in version 2012

# ExtrudeFeatureProxy.Delete Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that deletes the feature. The arguments allow control over which dependent objects are also deleted.

## Syntax

```
ExtrudeFeatureProxy.Delete( [RetainConsumedSketches] As Boolean,  
[RetainDependentFeaturesAndSketches] As Boolean, [RetainDependentWorkFeatures] As  
Boolean )
```

## Parameters

Name	Type	Description
RetainConsumedSketches	Boolean	Optional input Boolean indicating if consumed sketches within the feature should be deleted. If the feature being deleted is not a sketch based feature Boolean this argument is ignored.  This is an optional argument whose default value is False.
RetainDependentFeaturesAndSketches	Boolean	Optional input Boolean that specifies if dependent features should be deleted. If there are no dependent features this argument is ignored.  This is an optional argument whose default value is False.
RetainDependentWorkFeatures	Boolean	Optional input Boolean that specifies if dependent work features should be deleted. If there are no dependent work features this argument is ignored.  This is an optional argument whose default value is False.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.EndFaces Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the set of that cap one end of the extrusion.

## Syntax

ExtrudeFeatureProxy.EndFaces() As [Faces](#)

## Property Value

This is a read only property whose value is a [Faces](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.ExtendedName Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Read-only property that returns the full feature name including any extended information.

## Syntax

ExtrudeFeatureProxy.ExtendedName() As String

## Property Value

This is a read only property whose value is a String.

## Version

Introduced in version 2012

# ExtrudeFeatureProxy.Faces Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns a collection that provides access to all of the faces of the feature. The Faces collection object will return the faces that still currently exist in the part. For example, if a face has been consumed by additional modeling operations it will not be returned.

## Syntax

ExtrudeFeatureProxy.Faces() As [Faces](#)

## Property Value

This is a read only property whose value is a [Faces](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.FeatureDimensions Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the FeatureDimensions collection object.

## Syntax

ExtrudeFeatureProxy.FeatureDimensions() As [FeatureDimensions](#)

## Property Value

This is a read only property whose value is a [FeatureDimensions](#).

## Version

Introduced in version 2008

# ExtrudeFeatureProxy.GetReferenceKey Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that generates and returns the reference key for this entity.

## Syntax

ExtrudeFeatureProxy.**GetReferenceKey( *ReferenceKey*() As Byte, [*KeyContext*] As Long )**

## Parameters

Name        Type      Description

ReferenceKey    Byte    Input/output array of Bytes that contains the reference key.

                  Input Long that specifies the key context. The key context must be supplied when working with any B-Rep entities (and SurfaceBody, FaceShell, Face, Edge, EdgeUse and Vertex objects). A key context is created using the

KeyContext    Long CreateKeyContext method of the ReferenceKeyManager object. For all other object types, the key context argument is not used and is ignored if provided.

This is an optional argument whose default value is 0.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.GetSuppressionCondition Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that gets the suppression condition for the feature. The method returns False if no condition has been applied.

## Syntax

ExtrudeFeatureProxy.**GetSuppressionCondition( *Parameter* As [Parameter](#), *ComparisonType* As [ComparisonTypeEnum](#), *Expression* As Variant ) As Boolean**

## Parameters

Name	Type	Description
Parameter	<a href="#">Parameter</a>	Parameter object that specifies the parameter whose value is to be checked for feature suppression.
ComparisonType	<a href="#">ComparisonTypeEnum</a>	ComparisonTypeEnum that specifies the type of comparison. Valid return types are kEqualToComparison, kNotEqualToComparison, kLessThanComparison, kGreaterThanOrComparison, kLessThanOrEqualComparison, kGreaterThanOrEqualComparison.
Expression	Variant	Specifies the expression used for the comparison with the parameter value. This can either be a string or a parameter object.

## Version

Introduced in version 11

# ExtrudeFeatureProxy.HealthStatus Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns an enum indicating the current state of the object.

## Syntax

ExtrudeFeatureProxy.**HealthStatus()** As [HealthStatusEnum](#)

## Property Value

This is a read only property whose value is a [HealthStatusEnum](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.IsOwnedByFeature Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns whether this object is owned by a feature. If True, the OwnedBy property returns the owning feature.

## Syntax

ExtrudeFeatureProxy.**IsOwnedByFeature()** As Boolean

## Property Value

This is a read only property whose value is a Boolean.

## Version

Introduced in version 2008

# ExtrudeFeatureProxy.Name Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets/Sets the name of this Part Feature within the scope of this Document.

## Syntax

ExtrudeFeatureProxy.**Name()** As String

## Property Value

This is a read/write property whose value is a String.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.NativeObject Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets the object in the context of the definition instead of the containing assembly.

## Syntax

ExtrudeFeatureProxy.NativeObject() As [ExtrudeFeature](#)

## Property Value

This is a read only property whose value is an [ExtrudeFeature](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.OwnedBy Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the owning PartFeature object. This property returns Nothing if the IsOwnedByFeature property returns False.

## Syntax

ExtrudeFeatureProxy.OwnedBy() As [PartFeature](#)

## Property Value

This is a read only property whose value is a [PartFeature](#).

## Version

Introduced in version 2008

# ExtrudeFeatureProxy.Parameters Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns all the parameters associated with the feature.

## Syntax

ExtrudeFeatureProxy.Parameters() As [ParametersEnumerator](#)

## Property Value

This is a read only property whose value is a [ParametersEnumerator](#).

### Version

Introduced in version 11

## ExtrudeFeatureProxy.Parent Property

Parent Object: [ExtrudeFeatureProxy](#)

### Description

Property that returns the parent of the feature.

### Syntax

ExtrudeFeatureProxy.**Parent()** As [ComponentDefinition](#)

## Property Value

This is a read only property whose value is a [ComponentDefinition](#).

### Version

Introduced in version 9

## ExtrudeFeatureProxy.Participants Property

Parent Object: [ExtrudeFeatureProxy](#)

### Description

Property that returns the list of participants for an assembly feature. This list is empty for features in a part.

### Syntax

ExtrudeFeatureProxy.**Participants()** As [ComponentOccurrencesEnumerator](#)

## Property Value

This is a read only property whose value is a [ComponentOccurrencesEnumerator](#).

## Version

Introduced in version 10

# ExtrudeFeatureProxy.RangeBox Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns a Box object which contains the opposing points of a rectangular box that is guaranteed to enclose this object.

## Syntax

ExtrudeFeatureProxy.**RangeBox()** As [Box](#)

## Property Value

This is a read only property whose value is a [Box](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.RemoveParticipant Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that removes the specified participant from the assembly feature. This method fails for features in a part.

## Syntax

ExtrudeFeatureProxy.**RemoveParticipant( *Occurrence* As [ComponentOccurrence](#) )**

## Parameters

Name	Type	Description
Occurrence	<a href="#">ComponentOccurrence</a>	

ComponentOccurrence object that specifies the participant to be removed. An error occurs if the input ComponentOccurrence is not a participant.

## Version

Introduced in version 10

# ExtrudeFeatureProxy.SetAffectedBodies Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that sets a collection of SurfaceBody objects affected by this feature.

## Syntax

ExtrudeFeatureProxy.SetAffectedBodies( *Bodies* As [ObjectCollection](#) )

## Parameters

Name	Type	Description
Bodies	<a href="#">ObjectCollection</a>	ObjectCollection of SurfaceBody objects.

## Version

Introduced in version 2010

# ExtrudeFeatureProxy.SetEndOfPart Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that repositions the end-of-part marker relative to the object this method is called from.

## Syntax

ExtrudeFeatureProxy.SetEndOfPart( *Before* As Boolean )

## Parameters

Name	Type	Description
Before Boolean	Boolean	Input Boolean that indicates if the end of part marker should be immediately before or after this work feature. A value of True indicates before and False indicates after.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.SetSuppressionCondition Method

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Method that sets the suppression condition for the feature.

## Syntax

ExtrudeFeatureProxy.**SetSuppressionCondition**( *Parameter* As [Parameter](#), *ComparisonType* As [ComparisonTypeEnum](#), *Expression* As Variant )

## Parameters

Name	Type	Description
Parameter	<a href="#">Parameter</a>	Parameter object that specifies the parameter whose value is to be checked for feature suppression.
ComparisonType	<a href="#">ComparisonTypeEnum</a>	ComparisonTypeEnum that specifies the type of comparison. Valid types are kEqualToComparison, kNotEqualToComparison, kLessThanComparison, kGreaterThanOrComparison, kLessThanOrEqualToComparison, kGreaterThanOrEqualToComparison.
Expression	Variant	Specifies the expression used for the comparison with the parameter value. This can either be a string, a value or a parameter object. If a value is input, the database units for the units defined by the parameter are used. For instance, if the parameter defines length units, the value is assumed to be in centimeters. If a string is input, the units can be specified as part of the string or it will default to the current units of the document. For instance, if the parameter defines length units, the current length units of the document are used.

## Version

Introduced in version 11

# ExtrudeFeatureProxy.Shared Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets whether the part feature is shared or not, applies only to surface features.

## Syntax

ExtrudeFeatureProxy.**Shared()** As Boolean

## Property Value

This is a read/write property whose value is a Boolean.

## Version

Introduced in version 11

# ExtrudeFeatureProxy.SideFaces Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns a object that provides access to all of the faces created around the perimeter of the feature.

## Syntax

ExtrudeFeatureProxy.**SideFaces()** As [Faces](#)

## Property Value

This is a read only property whose value is a [Faces](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.StartFaces Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the set of that cap one end of the extrusion and are coincident with the sketch plane. In the case of a symmetric extrusion these faces are the ones on the positive normal side of the sketch plane. In the case where there aren't any start faces this property will return Nothing.

## Syntax

ExtrudeFeatureProxy.StartFaces() As [Faces](#)

## Property Value

This is a read only property whose value is a [Faces](#).

## Version

Introduced in version 9

# ExtrudeFeatureProxy.Suppress Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Gets and sets whether this feature is suppressed or not.

## Syntax

ExtrudeFeatureProxy.Suppress() As Boolean

## Property Value

This is a read/write property whose value is a Boolean.

## Version

Introduced in version 9

# ExtrudeFeatureProxy.SurfaceBodies Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Property that returns the bodies that this feature has created or modified.

## Syntax

ExtrudeFeatureProxy.SurfaceBodies() As [SurfaceBodies](#)

## Property Value

This is a read only property whose value is a [SurfaceBodies](#).

## Version

Introduced in version 2010

# ExtrudeFeatureProxy.Type Property

Parent Object: [ExtrudeFeatureProxy](#)

## Description

Returns an ObjectTypeEnum indicating this object's type.

## Syntax

ExtrudeFeatureProxy.Type() As [ObjectTypeEnum](#)

## Property Value

This is a read only property whose value is an [ObjectTypeEnum](#).

## Version

Introduced in version 9