

Overview of the changes (detailed view can be found in the second**Comments****Applies to**

Instances of Imaris are no longer started using COM. They are started by command line and accessed through ICE. The reference of the started instances is not acquired directly, but it can be accessed at any time when the application is fully initialized.

(Environment)

Java does not support **properties** (access to public member functions does not allow remote calls). Properties have been replaced by Get/Set methods.

Different properties of IApplication, IDataset, IDataItem, IDataContainer, IVolume, ILightSource, IFrame, ISpots, ISurfaces, ICells, IFilaments, IMeasurementPoints, IClippingPlane, ISurpassCamera, IImageProcessing, IFactory

ICE proxies are not automatically casted to their most defined implementation. An **explicit cast**, using either the factory or an explicit proxy cast, is necessary to access component specific functions.

IApplication: GetSurpassSelection; IDataContainer: GetChild; IDataItem: GetParent

Java does not support multiple return arguments. One structure containing all the return arguments is returned instead. The values can be accessed as public members of the structure. It is also possible to assign all the members to different variables converting the structure to an array of cells (see the example in Imaris 7.3).

IClippingPlane: GetOrientationAxisAngle; IDataItem: GetStatistics; IDataset: GetChannelColorTable; ICells: GetVesicles; IImageProcessing: DetectFilament, DetectSpots, DetectSpotsWithRegions; IMeasurementPoints: Get; ISpots: Get; ISurfaces: GetSurfacesList; ISurpassCamera: GetOrientationAxisAngle

Java does not automatically convert output arguments of type Java string into Matlab strings. An explicit cast is necessary. The cast is done with the function char for simple strings and cell for string arrays. On the other hand, input arguments must be of type Matlab string, not Java string.

IApplication: GetCurrentFileName, GetVersion; IDataItem: GetName, GetStatistics; IDataset: GetChannelDescription, GetChannelName, GetParameter, GetTimePoint, GetUnit

Enum in struct are no longer strings. They are specific components of Java that can be converted into strings.

tViewer, tType, tMode

ICE does not support **default values for arguments** (and declaration of functions with the same name but different arguments is not allowed). All the arguments must be provided explicitly.

The color of the components is encoded in a 32-bit integer (one byte for each component: Red, green, blue, alpha) instead of in a list of floats (one float value for each component: Red, green, blue, alpha). Get/SetColor methods are renamed to Get/SetColorRGBA.

Access to **Contour Surfaces** in ISurfaces has been removed without replacement.

IApplication::FileOpen, IApplication::FileSave, IDataContainer::AddChild, IDataset::Create, IDataset::SetDataSlice, IDataset::SetDataVolume, IDataset::SetDataVolumeAs1DArray, IDataItem: GetColor, SetColor; IDataset: GetChannelColor, SetChannelColor; ICells: GetCellColor, SetCellColor, GetNucleusColor, SetNucleusColor, GetVesiclesColor, SetVesiclesColor; IFilament: GetColorSpines, SetColorSpines

ISurfaces: GetNumberOfContourPlanes, GetContourPlanePosition, GetContourPlaneOrientation, SetContourPlaneOrientation, GetContourVertices, SetContourVertices, tPlaneOrientation

IDataBuffer is obsolete and it has been removed without replacement. Functions addressing to IDataBuffer are also removed.

IDataBuffer; IDataset: CreateDataBuffer, SetDataBuffer, SetDataBufferRedraw; IFactory: CreateDataBuffer; IFactory:

The **visibility of various elements in the graphic user interface** of Imaris can no longer be accessed.

IApplication properties with prefix mVisible, except mVisible itself

IFilament has been replaced by **IFilaments** to better reflect the data structure of the filaments in Imaris.

IFilament

Example in Imaris 7.2

```
vImaris = actxserver('Imaris.Application')
vImaris.mVisible = true;
```

```
vImaris.mVisible = true;
disp(vImaris.mVisible)
```

```
% assuming some Spots are selected in Surpass
vSpots = vImaris.mSurpassSelection;
disp(vSpots.mName)
vNumberOfSpots = numel(vSpots.GetIndicesT);
disp(vNumberOfSpots)
```

```
% assuming some Spots are selected in Surpass
vSpots = vImaris.mSurpassSelection;
[vPositionsXYZ, vRadii, vTimes] = vSpots.Get;
```

```
vName = vImaris.GetCurrentFileName;
disp(vName)
vImaris.mDataSet.SetChannelName(0, vName);
vNames = vImaris.mSurpassSelection.GetStatistics;
disp(vNames)
vImaris.mViewer = 'eViewerSlice';
vType = 'eTypeUInt8';
disp(isequal(vType, 'eTypeUInt8')) % true
disp(strcmp(vType, 'eTypeUInt8')) % true
```

```
vImaris.FileOpen('C:/retina.ims');
vSpots = vImaris.mFactory.CreateSpots;
vImaris.GetSurpassScene.AddChild(vSpots);
vDataItem = vImaris.GetSurpassSelection;
vColor = vDataItem.GetColor;
vColorScaled = uint32(vColor * 255);
vColorRGBA = vColorScaled*[1, 256, 256*256; 256*256*256];
vSurfaces = vImaris.mFactory.CreateSurfaces;
disp(vSurfaces.GetContourPlaneOrientation)
```

```
vDataBuffer = vImaris.mDataSet.CreateDataBuffer(25);
disp(vDataBuffer.mSizeZ)
vImaris.mVisibleFull3dToolBar = false;
disp(vImaris.mVisibleMainMenu)
vFilament = vImaris.mFactory.CreateFilament;
vImaris.mSurpassScene.AddChild(vFilamnt)
```

Example in Imaris 7.3

```
javaaddpath ImarisLib.jar;
! ../Imaris.exe id101 &
vImarisLib = ImarisLib;
vObjectId = 101;
for vIndex = 1:100 % do several attempts waiting for Imaris to be
registered
    vImaris = vImarisLib.GetApplication(vObjectId);
    if ~isempty(vImaris)
        break
    end
    pause(0.1)
end
vImaris.SetVisible(true);
disp(vImaris.GetVisible)
```

```
% assuming some Spots are selected in Surpass
vDataItem = vImaris.GetSurpassSelection;
disp(char(vDataItem.GetName)) % ok, GetName is a DataItem function
vSpots = vImaris.GetFactory.ToSpots(vDataItem);
vNumberOfSpots = numel(vSpots.GetIndicesT);
disp(vNumberOfSpots)
```

```
% assuming some Spots are selected in Surpass
vSpotsValues = struct2cell(struct(vSpots.Get));
[vPositionsXYZ, vRadii, vTimes] = vSpotsValues{:};
% that is equivalent to
vSpotsValues = vSpots.Get;
vPositionsXYZ = vSpotsValues.mPositionsXYZ;
vRadii = vSpotsValues.mRadii;
vTimes = vSpotsValues.mTimes;
```

```
vName = char(vImaris.GetCurrentFileName);
disp(vName)
vImaris.GetDataSet.SetChannelName(0, vName);
vNames = cell(vImaris.GetSurpassSelection.GetStatistics.mNames);
disp(vNames)
vImaris.SetViewer(Imaris.tViewer.eViewerSlice);
vType = Imaris.tType.eTypeUInt8;
disp(isequal(vType, 'eTypeUInt8')) % false! (an enum is not the same as
a string)
disp(isequal(vType, Imaris.tType.eTypeUInt8)) % true
vImaris.FileOpen('C:/retina.ims', '');
vSpots = vImaris.GetFactory.CreateSpots;
vImaris.GetSurpassScene.AddChild(vSpots, -1);
vDataItem = vImaris.GetSurpassSelection;
vColorRGBA = vDataItem.GetColorRGBA;
```

(Not available)

(Not available)

(Not available)

```
vFilaments = vImaris.GetFactory.CreateFilaments;
vImaris.GetSurpassScene.AddChild(vFilamnts)
```

Detailed list of the function replacement

Imaris 7.2

Imaris 7.3

Class	Function	Class	Function
IApplication		IApplication	
	AddImaris5Password		AddImaris5Password
	DataSetPushUndo		DataSetPushUndo
	Execute		Execute
	FileOpen		FileOpen
	FileSave		FileSave
	GetChannelVisibility		GetChannelVisibility
	GetCurrentFileName		GetCurrentFileName
	Quit		Quit
	SaveSnapshot		SaveSnapshot
	SetChannelVisibility		SetChannelVisibility
	SetLicenseString		SetLicenseString
	mDataSet [get]		GetDataSet
	mDataSet [set]		SetDataSet
	mFactory [get]		GetFactory
	mImageProcessing [get]		GetImageProcessing
	mMainWnd [get]		N/A
	mSurpassCamera [get]		GetSurpassCamera
	mSurpassCameraToolBarWnd [get]		N/A
	mSurpassScene [get]		GetSurpassScene
	mSurpassScene [set]		SetSurpassScene
	mSurpassSelection [get]		GetSurpassSelection
	mSurpassSelection [set]		SetSurpassSelection
	mSurpassToolBarWnd [get]		N/A
	mUserControl [get]		N/A
	mUserControl [set]		N/A
	mVersion [get]		GetVersion
	mViewer [get]		GetViewer
	mViewer [set]		SetViewer
	mVisible [get]		GetVisible
	mVisible [set]		SetVisible
	mVisibleChannelVisibility [get]		N/A
	mVisibleChannelVisibility [set]		N/A
	mVisibleColocToolBar [get]		N/A
	mVisibleColocToolBar [set]		N/A
	mVisibleDisplayAdjustment [get]		N/A
	mVisibleDisplayAdjustment [set]		N/A
	mVisibleEasy3dCameraToolBar [get]		N/A
	mVisibleEasy3dCameraToolBar [set]		N/A
	mVisibleEasy3dToolBar [get]		N/A
	mVisibleEasy3dToolBar [set]		N/A
	mVisibleFull3dCameraToolBar [get]		N/A
	mVisibleFull3dCameraToolBar [set]		N/A
	mVisibleFull3dToolBar [get]		N/A
	mVisibleFull3dToolBar [set]		N/A
	mVisibleGalleryCameraToolBar [get]		N/A
	mVisibleGalleryCameraToolBar [set]		N/A
	mVisibleGalleryToolBar [get]		N/A
	mVisibleGalleryToolBar [set]		N/A
	mVisibleIndexT [get]		GetVisibleIndexT
	mVisibleIndexT [set]		SetVisibleIndexT
	mVisibleInfoToolBar [get]		N/A
	mVisibleInfoToolBar [set]		N/A
	mVisibleMainMenu [get]		N/A
	mVisibleMainMenu [set]		N/A
	mVisibleMainToolBar [get]		N/A
	mVisibleMainToolBar [set]		N/A
	mVisibleSectionCameraToolBar [get]		N/A
	mVisibleSectionCameraToolBar [set]		N/A
	mVisibleSectionToolBar [get]		N/A
	mVisibleSectionToolBar [set]		N/A
	mVisibleSliceCameraToolBar [get]		N/A
	mVisibleSliceCameraToolBar [set]		N/A
	mVisibleSliceMeasurementToolBar [get]		N/A

	mVisibleSliceMeasurementToolBar [set]		N/A
	mVisibleSliceToolBar [get]		N/A
	mVisibleSliceToolBar [set]		N/A
	mVisibleStatusBar [get]		N/A
	mVisibleStatusBar [set]		N/A
	mVisibleSurpassCameraToolBar [get]		N/A
	mVisibleSurpassCameraToolBar [set]		N/A
	mVisibleSurpassKeyFrameToolBar [get]		N/A
	mVisibleSurpassKeyFrameToolBar [set]		N/A
	mVisibleSurpassToolBar [get]		N/A
	mVisibleSurpassToolBar [set]		N/A
	mVisibleTimeToolBar [get]		N/A
	mVisibleTimeToolBar [set]		N/A
ICells		IICells	
	AddCell		AddCell
	AddNucleus		AddNucleus
	AddVesicle		AddVesicle
	GetCell		GetCell
	GetCellColor		GetCellColorRGBA
	GetCenterOfMass		GetCenterOfMass
	GetIndicesT		GetIndicesT
	GetNucleiCenterOfMass		GetNucleiCenterOfMass
	GetNucleus		GetNucleus
	GetNucleusColor		GetNucleusColorRGBA
	GetNucleusTrackEdges		GetNucleusTrackEdges
	N/A		GetNucleusTrackIds
	GetNumberOfCells		GetNumberOfCells
	GetNumberOfNuclei		GetNumberOfNuclei
	N/A		GetNumberOfVesicleTypes
	N/A		GetSelectedIds
	GetSelectedIndices		GetSelectedIndices
	GetSelectedNucleusIndices		GetSelectedNucleusIndices
	GetSelectedVesiclesIndices		GetSelectedVesiclesIndices
	GetTimePoint		GetTimePoint
	GetTrackEdges		GetTrackEdges
	N/A		GetTrackIds
	GetVesicles		GetVesicles
	GetVesiclesColor		GetVesiclesColorRGBA
	GetVesiclesTrackEdges		GetVesiclesTrackEdges
	N/A		GetVesiclesTrackIds
	N/A		GetVesicleTypes
	RemoveCell		RemoveCell
	RemoveNucleus		RemoveNucleus
	RemoveVesicle		RemoveVesicle
	SetCell		SetCell
	SetCellColor		SetCellColorRGBA
	SetNucleus		SetNucleus
	SetNucleusColor		SetNucleusColorRGBA
	SetNucleusTrackEdges		SetNucleusTrackEdges
	SetSelectedIndices		SetSelectedIndices
	SetSelectedNucleusIndices		SetSelectedNucleusIndices
	SetSelectedVesiclesIndices		SetSelectedVesiclesIndices
	SetTimePoint		SetTimePoint
	SetTrackEdges		SetTrackEdges
	SetVesicles		SetVesicles
	SetVesiclesColor		SetVesiclesColorRGBA
	SetVesiclesTrackEdges		SetVesiclesTrackEdges
IClippingPlane		IClippingPlane	
	GetOrientationAxisAngle		GetOrientationAxisAngle
	GetOrientationQuaternion		GetOrientationQuaternion
	GetPosition		GetPosition
	SetOrientationAxisAngle		SetOrientationAxisAngle
	SetOrientationQuaternion		SetOrientationQuaternion
	SetPosition		SetPosition
IDataBuffer		N/A	
	Create		N/A
	mFileName [get]		N/A

IDataContainer	mSize [get]	IDataContainer	N/A
	AddChild		AddChild
	GetChild		GetChild
	GetNumberOfChildren		GetNumberOfChildren
IDataItem	RemoveChild	IDataItem	RemoveChild
	AddStatistics		AddStatistics
	GetColor		GetColorRGBA
	GetParent		GetParent
	GetStatistics		GetStatistics
	N/A		RemoveStatistics
	SetColor		SetColorRGBA
	mName [get]		GetName
	mName [set]		SetName
	mVisible [get]		GetVisible
IDataSet	mVisible [set]	IDataSet	SetVisible
	Clone		Clone
	Create		Create
	CreateDataBuffer		N/A
	Crop		Crop
	GetChannelColor		GetChannelColorRGBA
	GetChannelColorABGR		N/A
	GetChannelColorTable		GetChannelColorTable
	GetChannelDescription		GetChannelDescription
	N/A		GetChannelGamma
	GetChannelName		GetChannelName
			GetChannelRangeMax
	GetChannelRange		GetChannelRangeMin
			GetDataBytes
			GetDataFloats
	GetData		GetDataShorts
			GetDataSliceBytes
			GetDataSliceFloats
	GetDataSlice		GetDataSliceShorts
			GetDataSubSliceBytes
			GetDataSubSliceFloats
	GetDataSubSlice		GetDataSubSliceShorts
			GetDataSubVolumeBytes
			GetDataSubVolumeFloats
	GetDataSubVolume		GetDataSubVolumeShorts
			GetDataSubVolumeAs1DArrayBytes
			GetDataSubVolumeAs1DArrayFloats
	GetDataSubVolumeAs1DArray		GetDataSubVolumeAs1DArrayShorts
			GetDataVolumeBytes
			GetDataVolumeFloats
	GetDataVolume		GetDataVolumeShorts
			GetDataVolumeAs1DArrayBytes
			GetDataVolumeAs1DArrayFloats
			GetDataVolumeAs1DArrayShorts
	GetDataVolumeAs1DArray		
	GetParameter		GetParameter
	GetTimePoint		GetTimePoint
	N/A		GetTimePointsDelta
	Redraw		N/A
	Resize		Resize
	SetChannelColor		SetChannelColorRGBA
	SetChannelColorABGR		N/A
	SetChannelColorTable		SetChannelColorTable
	SetChannelDescription		SetChannelDescription
	N/A		SetChannelGamma
	SetChannelName		SetChannelName
	SetChannelRange		SetChannelRange
			SetDataBytes
			SetDataFloats
	SetData		SetDataShorts
	SetDataBuffer		N/A

	SetDataBufferRedraw		N/A
			SetDataSliceBytes
	SetDataSlice		SetDataSliceFloats
			SetDataSliceShorts
			SetDataSubSliceBytes
			SetDataSubSliceFloats
	SetDataSubSlice		SetDataSubSliceShorts
			SetDataSubVolumeBytes
			SetDataSubVolumeFloats
	SetDataSubVolume		SetDataSubVolumeShorts
			SetDataSubVolumeAs1DArrayBytes
			SetDataSubVolumeAs1DArrayFloats
	SetDataSubVolumeAs1DArray		SetDataSubVolumeAs1DArrayShorts
			SetDataVolumeBytes
			SetDataVolumeFloats
	SetDataVolume		SetDataVolumeShorts
			SetDataVolumeAs1DArrayBytes
			SetDataVolumeAs1DArrayFloats
	SetDataVolumeAs1DArray		SetDataVolumeAs1DArrayShorts
	SetParameter		SetParameter
	SetTimePoint		SetTimePoint
	N/A		SetTimePointsDelta
	mExtendMaxX [get]		GetExtendMaxX
	mExtendMaxX [set]		SetExtendMaxX
	mExtendMaxY [get]		GetExtendMaxY
	mExtendMaxY [set]		SetExtendMaxY
	mExtendMaxZ [get]		GetExtendMaxZ
	mExtendMaxZ [set]		SetExtendMaxZ
	mExtendMinX [get]		GetExtendMinX
	mExtendMinX [set]		SetExtendMinX
	mExtendMinY [get]		GetExtendMinY
	mExtendMinY [set]		SetExtendMinY
	mExtendMinZ [get]		GetExtendMinZ
	mExtendMinZ [set]		SetExtendMinZ
	mModified [get]		GetModified
	mModified [set]		SetModified
	mSizeC [get]		GetSizeC
	mSizeC [set]		SetSizeC
	mSizeT [get]		GetSizeT
	mSizeT [set]		SetSizeT
	mSizeX [get]		GetSizeX
	mSizeX [set]		SetSizeX
	mSizeY [get]		GetSizeY
	mSizeY [set]		SetSizeY
	mSizeZ [get]		GetSizeZ
	mSizeZ [set]		SetSizeZ
	mType [get]		GetType
	mType [set]		SetType
	mUnit [get]		GetUnit
	mUnit [set]		SetUnit
IFactory		IFactory	
	CreateApplication		CreateApplication
	CreateCells		CreateCells
	CreateClippingPlane		CreateClippingPlane
	CreateDataBuffer		CreateDataContainer
	CreateDataContainer		CreateDataSet
	CreateDataSet		CreateFactory
	CreateFactory		CreateFilaments
	CreateFilament		CreateFrame
	CreateFrame		CreateImageProcessing
	CreateLightSource		CreateLightSource
	CreateMeasurementPoints		CreateMeasurementPoints
	CreateSpots		CreateSpots
	CreateSurfaces		CreateSurfaces
	N/A		CreateSurpassCamera
	CreateVolume		CreateVolume
	IsApplication		IsApplication

	IsCells IsClippingPlane IsDataBuffer IsDataContainer IsDataSet IsFactory IsFilament IsFrame IsLightSource IsMeasurementPoints IsSpots IsSurfaces N/A IsVolume ToApplication ToCells ToClippingPlane ToDataBuffer ToDataContainer ToDataSet ToFactory ToFilament ToFrame ToLightSource ToMeasurementPoints ToSpots ToSurfaces N/A ToVolume		IsCells IsClippingPlane IsDataContainer IsDataSet IsFactory IsFilaments IsFrame IsImageProcessing IsLightSource IsMeasurementPoints IsSpots IsSurfaces IsSurpassCamera IsVolume ToApplication ToCells ToClippingPlane ToDataContainer ToDataSet ToFactory ToFilaments ToFrame ToImageProcessing ToLightSource ToMeasurementPoints ToSpots ToSurfaces ToSurpassCamera ToVolume
IFilament	Get GetColorSpines GetEdgeIds GetEdges GetPositionsXYZ GetRadii GetRootVertexIndex GetTypes N/A N/A N/A GetVertexTrackEdges GetVertexTrackIds Set N/A N/A SetColorSpines SetRootVertexIndex SetTypes N/A SetVertexTrackEdges mIndexT [get] mIndexT [set] mSelectedPositionIndex [get] mSelectedPositionIndex [set] mSelectedPositionIndices [get] mSelectedPositionIndices [set]	IFilaments	GetFilamentsList GetNumberOfFilaments GetColorSpinesRGBA GetEdgesSegmentId GetEdges GetPositionsXYZ GetRadii GetBeginningVertexIndex GetTypes GetFilamentTrackEdges GetFilamentTrackIds GetSelectedIds GetVertexTrackEdges GetVertexTrackIds AddFilament AddFilamentsList RemoveAllFilaments RemoveFilament SetColorSpinesRGBA SetBeginningVertexIndex N/A SetFilamentTrackEdges SetVertexTrackEdges GetTimeIndex N/A GetSelectedPositionIndex SetSelectedPositionIndex GetSelectedPositionIndices SetSelectedPositionIndices
IFrame	mBox [get] mBox [set] mBoxShading [get] mBoxShading [set] mCoordinateAxes [get] mCoordinateAxes [set] mFixToDataSet [get]	IFrame	GetBox SetBox GetBoxShading SetBoxShading GetCoordinateAxes SetCoordinateAxes GetFixToDataSet

	mFixToDataSet [set]
	mGrid [get]
	mGrid [set]
	mGridSpacing [get]
	mGridSpacing [set]
	mTickMarks [get]
	mTickMarks [set]
	mTimeColorBar [get]
	mTimeColorBar [set]
IImageProcessing	
	AnisotropicDiffusionFilterChannel
	AnisotropicDiffusionFilterDataSet
	BaselineSubtractChannel
	BaselineSubtractDataSet
	CalculateTracks
	ContrastStretchChannel
	ContrastStretchDataSet
	DetectFilament
	DetectIsoSurface
	DetectSpots
	DetectSpots2
	DetectSpotsRegionGrowing
	DetectSpotsWithRegions
	DetectSurfaces
	DetectSurfacesRegionGrowing
	DistanceTransformChannel
	DistanceTransformDataSet
	EqualizeHistogramChannel
	EqualizeHistogramDataSet
	FastMarchingArrivalTimeChannel
	FastMarchingArrivalTimeDataSet
	Flip3DChannel
	Flip3DDDataSet
	GammaCorrectChannel
	GammaCorrectDataSet
	GaussFilterChannel
	GaussFilterDataSet
	GaussianDerivativeChannel
	GaussianDerivativeDataSet
	InvertChannel
	InvertDataSet
	MedianFilterChannel
	MedianFilterDataSet
	NormalizeLayersChannel
	NormalizeLayersDataSet
	Shift3DChannel
	Shift3DDDataSet
	ShortestPath
	SubtractBackgroundChannel
	SubtractBackgroundDataSet
	ThresholdBothChannel
	ThresholdBothDataSet
	ThresholdChannel
	ThresholdDataSet
	ThresholdUpperChannel
	ThresholdUpperDataSet
	TrackSpotsAutoregressiveMotion
	TrackSpotsAutoregressiveMotionExpert
	TrackSpotsBrownianMotion
	TrackSpotsConnectedComponents
	TrackSurfacesAutoregressiveMotion
	TrackSurfacesAutoregressiveMotionExpert
	TrackSurfacesBrownianMotion
	TrackSurfacesConnectedComponents
ILightSource	
IMeasurementPoints	
	Get

SetFixToDataSet
GetGrid
SetGrid
GetGridSpacing
SetGridSpacing
GetTickMarks
SetTickMarks
GetTimeColorBar
SetTimeColorBar
IImageProcessing
AnisotropicDiffusionFilterChannel
AnisotropicDiffusionFilterDataSet
BaselineSubtractChannel
BaselineSubtractDataSet
N/A
ContrastStretchChannel
ContrastStretchDataSet
DetectFilament
N/A
DetectSpots
DetectSpots2
DetectSpotsRegionGrowing
DetectSpotsWithRegions
DetectSurfaces
DetectSurfacesRegionGrowing
DistanceTransformChannel
DistanceTransformDataSet
EqualizeHistogramChannel
EqualizeHistogramDataSet
FastMarchingArrivalTimeChannel
FastMarchingArrivalTimeDataSet
Flip3DChannel
Flip3DDDataSet
GammaCorrectChannel
GammaCorrectDataSet
GaussFilterChannel
GaussFilterDataSet
GaussianDerivativeChannel
GaussianDerivativeDataSet
InvertChannel
InvertDataSet
MedianFilterChannel
MedianFilterDataSet
NormalizeLayersChannel
NormalizeLayersDataSet
Shift3DChannel
Shift3DDDataSet
ShortestPath
SubtractBackgroundChannel
SubtractBackgroundDataSet
ThresholdBothChannel
ThresholdBothDataSet
ThresholdChannel
ThresholdDataSet
ThresholdUpperChannel
ThresholdUpperDataSet
TrackSpotsAutoregressiveMotion
TrackSpotsAutoregressiveMotionExpert
TrackSpotsBrownianMotion
TrackSpotsConnectedComponents
TrackSurfacesAutoregressiveMotion
TrackSurfacesAutoregressiveMotionExpert
TrackSurfacesBrownianMotion
TrackSurfacesConnectedComponents
ILightSource
IMeasurementPoints
Get

ISpots	GetIndicesT	ISpots	GetIndicesT
	GetNames		GetNames
	GetPositionsXYZ		GetPositionsXYZ
	Set		Set
	Get		Get
	GetIndicesT		GetIndicesT
	GetPositionsXYZ		GetPositionsXYZ
	GetRadii		GetRadii
	GetSelectedIndices		GetSelectedIds
	GetTimePoint		GetSelectedIndices
	GetTrackEdges		GetTimePoint
	GetTrackIds		GetTrackEdges
	Set		GetTrackIds
	SetSelectedIndices		Set
	SetTimePoint		SetSelectedIndices
	SetTrackEdges		SetTimePoint
		ISurfaces	SetTrackEdges
ISurfaces	AddSurface	ISurfaces	AddSurface
	AddSurfacesList		AddSurfacesList
	GetCenterOfMass		GetCenterOfMass
	GetContourPlaneOrientation		N/A
	GetContourPlanePosition		N/A
	GetContourVertices		N/A
	GetMask		GetMask
	GetNormals		GetNormals
	GetNumberOfContourPlanes		N/A
	GetNumberOfSurfaces		GetNumberOfSurfaces
	N/A		GetSelectedIds
	GetSelectedIndices		GetSelectedIndices
	GetSingleMask		GetSingleMask
	GetSurfacesList		GetSurfacesList
	GetTimeIndex		GetTimeIndex
	GetTimePoint		GetTimePoint
	GetTrackEdges		GetTrackEdges
	GetTrackIds		GetTrackIds
	GetTriangles		GetTriangles
	GetVertices		GetVertices
	RemoveAllSurfaces		RemoveAllSurfaces
	RemoveSurface		RemoveSurface
	SetContourPlaneOrientation		N/A
	SetContourVertices		N/A
	SetSelectedIndices		SetSelectedIndices
	SetTimePoint		SetTimePoint
	SetTrackEdges	ISurpassCamera	SetTrackEdges
ISurpassCamera	Fit	ISurpassCamera	Fit
	GetOrientationAxisAngle		GetOrientationAxisAngle
	GetOrientationQuaternion		GetOrientationQuaternion
	GetPosition		GetPosition
	SetOrientationAxisAngle		SetOrientationAxisAngle
	SetOrientationQuaternion		SetOrientationQuaternion
	SetPosition		SetPosition
	mFocus [get]		GetFocus
	mFocus [set]		SetFocus
	mHeight [get]		GetHeight
	mHeight [set]		SetHeight
	mOrthographic [get]		GetOrthographic
	mOrthographic [set]		SetOrthographic
	mPerspective [get]		GetPerspective
	mPerspective [set]		SetPerspective
IVolume		IVolume	
	mMode [get]		GetMode
	mMode [set]		SetMode
	mThreshold [get]		GetThreshold
	mThreshold [set]		SetThreshold