Oracle AutoVue 20.2

ActiveX Migration Guide

AutoVue Desktop Deployment

ORACLE

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Preface

The *ActiveX Migration Guide* provides information on migrating to the new AutoVue Desktop Deployment ActiveX wrapper from the Desktop Version ActiveX solution.

For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network at http://www.oracle.com/technetwork/documentation/autovue-091442.html.

Audience

This document is intended for those who wish to migrate to the newest release of Oracle AutoVue's ActiveX wrapper. This guide serves as a good starting point for developers and professional services to become more familiar with the ActiveX wrapper.

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Introduction

This ActiveX migration guide provides essential information for system integrators who wish to migrate to the new Oracle AutoVue Desktop Deployment ActiveX wrapper from the Oracle AutoVue Desktop Version ActiveX solution. This new ActiveX control can be used to integrate Oracle AutoVue Desktop Deployment with your application.

Note: Desktop Deployment ActiveX and Oracle AutoVue Desktop Deployment cannot run concurrently.

For more detailed descriptions of the methods mentioned in this document, refer to the ActiveXAPI.html document that is located at <AutoVue Desktop Deployment Installation>\docs.

Deployment

To properly deploy the ActiveX wrapper integration with your application, you must take note of the following:

- AutoVue ActiveX Control (jVueAX.ocx) is shipped as part of AutoVue Desktop Deployment and is registered with Windows during installation.
- The Desktop Version ActiveX contained 4 controls: “AutoVueX”, “AvMarkupX”, “AvPrintX” and “AvCompareX”. The new Desktop Deployment ActiveX has a single control: “AutoVue ActiveX”.
- AutoVue Desktop Deployment contains Java-based technology. As a result, Java Virtual Machine will be loaded into the process of the application that integrates with the ActiveX. The location and initialization of the JVM are handled by the autovue.jre.path and autovue.cmdline keys, respectively, in autovue.properties.
- All the JARs and native binaries needed by the ActiveX are located in the <AutoVue Desktop Deployment installation directory>\bin directory.
- Integration to a 64-bit Windows application is not supported as the ActiveX wrapper contains 32-bit native binaries.

Initialization

When calling the *initActiveX* method, you have the option to pass client parameters (for example, a GUI customization parameter). To do so, you must first call the *setValue* method to pass the parameters and then make a call to *initActiveX*.

The GUI customization parameter, GUIFILE, contains definitions of the application UI. These definitions must be created and placed in the <AutoVue Desktop Deployment installation>\Profiles directory. Note that you must set the GUIFILE parameter to the filename of the GUI file.

Markups

By default, Oracle AutoVue Desktop Deployment stores markups in an avred sub-folder at the location of the document marked up by AutoVue. This behavior is the same as the default behavior of AutoVue

Desktop Version. To save markups at a central location, you must set `jvueserver.markups.local.directory` to a path where you want to store all the markup files.

Configurations

AutoVue Desktop Version ActiveX control uses a configuration file "<%WINDIR%>\avx.ini". In contrast, AutoVue Desktop Deployment ActiveX stores configurations at *<AutoVue installation directory>\Profiles\<username>.ini*. There's also an INI option in autovue.properties to specify a custom location for profiles.

You can also set options in files default.ini or allusers.ini. The first time a user launches AutoVue, the contents of default.ini are written to <username>.ini. The contents of allusers.ini are written to <username>.ini every time a user launches AutoVue.

Refer to the *Viewing Configuration Guide* for more information on INI files and INI options. Refer to *AutoVue Desktop Deployment Installation and Configuration Guide* for additional information on configuring AutoVue.

A migration guide is available for customers that are planning to move from the Desktop Version to the Desktop Deployment. Contact an Oracle Customer Support representative for a copy of the migration guide.

APIs

The Desktop Version contains the following controls:

- AutoVueX
- AvMarkupX
- AvPrintX
- AvCompareX

The tables in following sections map Desktop Version ActiveX Controls' methods and properties to an equivalent Desktop Deployment ActiveX API.

AutoVueX Control

Properties in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
SRC	setFile method
ShowScrollBars	N/A
ShowMainToolBar ShowAuxiToolBar MrkMainToolbar MrkPensToolbar MrkEntitiesToolbar MrkColorsToolbar ShowStatusBar	Done through GUI file customization

EnablePopupMenu	N/A
MrkFileLocation	“Markups” INI option under [Directory] in VueCore.ini
BgColor	N/A
Rotate Flip	N/A
Page	setPage/getPage methods
Extents	invokeSubAction method on action “VueActionViewFit” and sub-action “FitHoriz” or “FitBoth”
ExtMinX ExtMinY ExtMaxX ExtMaxY	setViewExtents/getViewExtentsMinX, getViewExtentsMinY, getViewExtentsMaxX, getViewExtentsMaxY methods

Methods in Desktop Version ActiveX	**Replacement APIs in Desktop Deployment ActiveX**
SetContrast	invokeSubAction method on action “VueActionViewContrast” and sub-action “Darkest”, “Dark”, “Normal” or “Light”
GetContrast	getImageEx method
SetAntiAlias	invokeAction method on action “VueActionViewAntiAlias”
	invokeAction method on the following action respectively:
ShowLayersDlg	“VueActionViewLayers”
ShowBlocksDlg	“VueActionViewBlocks”
ShowNamedViewsDlg	“VueActionViewViews”
ShowXRefDlg	“VueActionViewXRefs”
ShowEntityTypeFilterDlg	“EcadActionViewEntityTypeFilter”
ShowVerifyDesignDlg	“EcadActionDesignRuleChecks”
ShowEntityBrowserDlg	“EcadActionViewEntityBrowser”
ShowBillOfMaterialDlg	“EcadActionViewBillOfMaterial”
ShowEntityPropertiesDlg	“EcadActionEntityProperties”
ShowImportDesignDlg	“SMActionFileImportModel”
ShowPMIFilteringDlg	“SMActionPMI”
ShowLightingDlg	“SMActionLight”
ShowUserCoordSystemsDlg	“SMActionCoordinateSystem”
ShowPartAlignmentDlg	“SMActionPartAlignment”
ShowInterferenceCheckDlg	“SMActionCollisionDetection”
ShowConvertDialog	“VueActionFileConvert”
ShowExplodeDialog	“SMActionExplode”
Show3DSearchDialog	“SMActionSearch”
	invokeSubAction method on the following action and sub-action respectively:
ShowDefineSectionDlg	“SMActionViewSection”, “Define”
ShowModelTransformDlg	“SMActionTransform”, “Apply”
ShowFileVersionInfoDlg	N/A
	invokeSubAction method on the following action and sub-action respectively:
ZoomFit	“VueActionViewFit”, “FitBoth”

ZoomPrevious ZoomWidth ZoomHeight ZoomFullResolution	"VueActionViewZoom", "Previous" "VueActionViewFit", "FitHoriz" "VueActionViewFit", "FitVer" "VueActionViewZoom", "FullRes"
ZoomSelected	invokeAction method on action: "SMActionZoomSel" for 3D "EcadActionZoomSelected" for EDA
ZoomByFactor	setZoom method
PrintIt	printIt method
PrintPreview	invokeSubAction method on action "VueActionFilePrint" and sub-action "PrintPreview"
SetPrintOptions	setPrintOptions Please note the following options are not supported: "PRINT_OPT_DISABLE_HEADERSFOOTERS" "PRINT_OPT_DISABLE_WATERMARK" "PRINT_OPT_DISABLE_MARGINS" "PRINT_OPT_DISABLE_STAMPS" "PRINT_OPT_DISABLE_PENSETTINGS" "PRINT_OPT_DISABLE_PRINTTOFILE" "PRINT_OPT_DISABLE_PRINT" "PRINT1PAGEONLY" "OUTPUTFILE" "PDFPAPERSIZE"
GetVcetHandle	N/A
	invokeSubAction method on the following action and sub-action respectively:
EnterMarkupMode ExitMarkupMode	"VueActionFileMarkup", "New" "MrkActionFileMarkup", "Exit"
MrkObj PrnObj	N/A
GetMode	isMarkupModeEnabled method for markup mode
PageNext PagePrevious PageSelect	invokeSubAction method on action "VueActionViewPage" and sub-action "Next", "Previous", "Number" respectively
GetMousePos	N/A
ZoomInWorld	setViewExtents method
SetLicenseFilePath	N/A
EnableMarkup EnablePanMode EnableZoomBoxMode EnableRotateMode EnableManipulators	N/A
GetNumCrossProbeEntities GetCrossProbeEntityType GetCrossProbeEntityName ClearCrossProbeEntities	N/A

AddCrossProbeEntity GetEcadDesignName GetEcadDesignPageType GetEcadDesignPageName GetNumCrossProbeHits ShowCrossProbeHit	
ShowNetConnectivity	invokeAction method on action “EcadActionShowNetConnectivity”
GetNumEcadEntities GetEcadEntityName GetEcadEntityNAttr GetEcadEntityAttrName GetEcadEntityAttrValue GetNumEcadEntityDefs GetEcadEntityDefName GetEcadEntityDefFlags GetEcadEntityDefNAttr GetEcadEntityDefAttrName GetEcadEntityDefAttrFlags GetEcadEntityDefAttrType	N/A
SetPageByTitle SetNamedView SetNamedViewByName	N/A
ReCenter	invokeSubAction method on action “SMActionRecenter” and sub-action “RecenterAll”, “Selected” or “RecenterTo”
ResetTransformation	invokeSubAction method on action “SMActionTransform” and sub-action “ResetAll”
AddOverlay RemoveOverlays	addOverlay method removeOverlays method
SelectOverlay LoadOverlay SetOverlayParameters GetOverlayFileName GetOverlayPosX GetOverlayPosY GetOverlayScale GetOverlayParameters	N/A
DumpModelTree	N/A
ConvertIt SetConvertOptions	convertIt method setConvertOptions method
Export3DBom ExportEdaBom	export3DBom exportEdaBom
SaveViewStateToFile RestoreViewStateFromFile	N/A
GetNumPages	getPagesNumber method

Events in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
ModeChanged	onMarkupEvent event with event ID "ONENTERMARKUPMODE" or "ONEXITMARKUPMODE" Notification for entering/exiting print preview is not available
StatusChanged HelpString	onStateEvent event with event ID "ONMESSAGE"
ExtentsChanged	onViewEvent event with event ID "ONVIEWEXTENTS"
PageChanged	onFileEvent event with event ID "ONSETPAGE"
RotateChanged FlipChanged	N/A
OnLMButtonDown OnLMButtonUp OnLMButtonDblClk OnRMButtonDown OnRMButtonUp OnRMButtonDblClk OnMMButtonDown OnMMButtonUp OnMMButtonDblClk	N/A
OnMouseMove	N/A
OnNewDocument	onFileEvent event with event ID "ONSETFILE"
CrossProbeEvent	N/A
BasefileHyperlinkEvent	onViewEvent event with event ID "ONLINKCLICKED"

AvMarkupX Control

Properties in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
EntityColor	N/A
PenStyle	N/A
LineWidth	N/A

Methods in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
Open CreateNew	invokeSubAction method on action "VueActionFileMarkup" and sub-action "Open" and "New"
OpenMarkup	openMarkup method
Save SaveAs	invokeSubAction method on action "VueActionFileMarkup" and sub-action "Save" and "Save As"
	invokeAction method on the following action respectively:
DrawLine DrawPolyline DrawArc DrawBox DrawCircle	"MrkActionLine" "MrkActionPolyLine" "MrkActionArc" "MrkActionBox" "MrkActionCircle"

DrawFilledBox DrawFilledCircle DrawFilledPolygon DrawLeader DrawFreeStyle DrawCloud DrawText DrawHighlight DrawNote DrawSymbol	“MrkActionBox” “MrkActionCircle” “MrkActionPolygon” “MrkActionLeader” “MrkActionFreeStyle” “MrkActionCloud” “MrkActionText” “MrkActionHighlight” “MrkActionNote” “MrkActionSymbol”
MeasureDistance MeasureCumDistance MeasureArea Draw3DVertexCoord Draw3DDistance Draw3DArc Draw3DAngle	invokeSubAction method on action “MrkActionAnalysisMeasure” and sub-action “Distance”, “Area“, “Vertex”, “Distance”, “Arc” and “Angle” respectively
DrawOle	N/A
IsCurrentEntity	N/A
ModifyLayers ModifyFont	invokeAction method on action “MrkActionModifyEntityLayer” and “MrkActionModifyEntityFont”
Undo Redo	invokeSubAction method on action “MrkActionUndo” and sub-action “Undo” and “Redo”
IsUndoAvailable IsRedoAvailable	N/A
GetControlHandle	N/A
Rotate	invokeSubAction method on action “MrkActionViewRotateMarkup” and sub-action “CW” or “CCW”
Flip	invokeSubAction method on action “MrkActionViewFlipMarkup” and sub-action “Horizontal” or “Vertical”
RotateRelative ResetAction	N/A
ShowInfo	invokeSubAction method on action “MrkActionFileMarkup” and sub-action “Information”
DeleteSelEntities	invokeSubAction method on action “MrkActionModifyDelete” and sub-action “Delete”
CopyToClipboard PasteFromClipboard	invokeSubAction method on action “MrkActionClipboard” and sub-action “Copy” and “Paste”
OnMarkupConsolidate	invokeSubAction method on action “MrkActionFileMarkup” and sub-action “Consolidate”
OnModifyMarkupOnoff	invokeAction method on action “MrkActionModifyHideMarkups”
GetFillStyle SetFillStyle	N/A

GetCtlSnapType SetCtlSnapType	N/A
GetAction SetAction	N/A
EditText EditNote EditDimension	N/A
HideDimensions DeleteDimensions	N/A
IsThisEntityAvailable IsThisEntityTypeAvailable IsThisEntitySelected IsThisEntityTypeHidden GetEntityPageIndex IsEntityEditable EditEntity GetEntityLineStyle GetEntityLineWidth	N/A
GetSelCount	N/A
IsThisMarkupVisible ShowThisMarkup	N/A

AvPrintX Control

Methods in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
PrintIt	printIt method
PrintPreview	invokeSubAction method on action “VueActionFilePrint” and sub-action “PrintPreview”
PrintFile PrintPreviewFile	N/A
PreviewPrint PreviewNextPage PreviewPrevPage PreviewNumPage PreviewZoomIn PreviewZoomOut PreviewClose	N/A
SetPrintPageOrientation	setPrintOptions method
EnablePrintOptions	N/A

Events in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
EndPrintPreview EndPrint	N/A

AvCompareX Control

Properties in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
File1	setFile method
File2	setCompareFile method
ShowScrollBars	N/A
ShowMainToolBar ShowAuxiToolBar ShowStatusBar	GUI file customization
EnablePopupMenu	N/A
CtlBgColor	N/A
Rotate Flip	N/A
Page	setPage/getPage methods
ZoomType	N/A
Extents	invokeSubAction method on action “VueActionViewFit” and sub-action “FitHoriz” or “FitBoth”
ExtMinX ExtMinY ExtMaxX ExtMaxY	setViewExtents/getViewExtentsMinX, getViewExtentsMinY, getViewExtentsMaxX, getViewExtentsMaxY methods
ViewAdditions ViewDeletions ViewUnchanged	invokeSubAction method on action “VueActionOptionCompare” and sub-action “ViewAdditions”, “ViewDeletions” and “ViewUnchanged” respectively

Methods in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
ZoomFit ZoomPrevious ZoomWidth ZoomHeight ZoomByFactor ZoomFullResolution Print PrintPreview PageNext PagePrevious PageSelect SetContrastLight SetContrastNormal SetContrastDark SetContrastDarkest GetContrast SetAntiAlias InvertImage ShowLayersDlg ShowBlocksDlg ShowNamedViewsDlg ShowXRefDlg	Please refer to the respective entry in the methods section of AutoVueX control

Events in Desktop Version ActiveX	Replacement APIs in Desktop Deployment ActiveX
StatusChanged HelpString ExtentsChanged PageChanged RotateChanged FlipChanged	Please refer to the respective entry in the events section of AutoVueX control

Feedback

We appreciate your feedback, comments or suggestions. Contact us by e-mail or telephone. Let us know what you think.

For any questions regarding a particular class or method, please contact Oracle Customer Support or post your question to the My Oracle Support AutoVue Community Web site. Customer Support can answer all questions related to specific topics documented in the VueBean Javadocs.

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