



Siebel Object Interfaces Reference

Version 8.0, Rev. B
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Contents

Chapter 1: What's New in This Release

Chapter 2: Siebel Programming Tools

About the Siebel Programming Tools	19
Components of the Siebel Programming Environment	20
Supported Uses of Siebel Programming Languages	21
Business Logic Definition	21
Custom Behavior for User Interface Components	21
Adding New Business Logic to a Business Component	22
Tracing Scripts	22
About the Siebel Compiler and Run-Time Engine	24
About Siebel VB	25
About Siebel eScript	27

Chapter 3: Programming

About Programming with Siebel Object Interfaces	31
About Siebel Object Interfaces	32
Siebel COM Interfaces	32
Siebel Java Interfaces	36
Built-In Scripting	36
Usage Evaluation Matrix	37
Installing Siebel Object Interfaces	37
Exposed Object Types	38
Application Object Type	38
Business Object Object Type	38
Business Component Object Type	39
Business Service Object Type	39
Applet Object Type	40
Property Set Object Type	40
User Interface Control Object Type	40
Summary of Exposed Object Types	41

Siebel Object Interface Method Syntax	41
Getting Started with the Siebel Object Interfaces	43
Accessing Siebel COM Interfaces	44
Accessing the Siebel Web Client Automation Server	44
Accessing the Siebel Mobile Web Client Automation Server	46
Instantiating the Siebel COM Data Server	48
Instantiating the Siebel COM Data Control	50
About Java Data Bean	52
Siebel Object Interface Methods	58
Locating Objects	58
Accessing Business Components	59
Navigation Methods	64
User Interaction Methods	64
Global State Properties and Functions	64
Tracing Methods	65
Variable Scoping for Siebel Script Variables	65
Local Variables	65
Module Variables	66
Global Variables	67
Siebel Object Interface Events and Siebel Extension Events	67
Event Method Syntax	68
How Your Script Affects Program Flow	68
Unique Names	71
Using Tracing to Find Out When Events Occur	71
Siebel Business Component Events	71
Applet Events	73
Application Events	74
Connect String	74
Error Handling	77

Chapter 4: Interfaces Reference

Object Interface Method Tables	81
Applet Methods	82
Application Methods	82
Business Component Methods	85
Business Object Methods	89
Business Service Methods	89
Control Methods	90
Property Set Methods	91
Miscellaneous Methods	92

Object Interface Event Tables	93
Applet Events	93
Application Events	94
Business Component Events	94
Business Service Events	95
Siebel Constants	95
Applet Methods	96
ActiveMode Method	96
BusComp Method	97
BusObject Method	98
FindActiveXControl Method	98
FindControl Method	99
InvokeMethod Method	100
Name Method	102
Applet Events	103
Applet_ChangeFieldValue Event	103
Applet_ChangeRecord Event	105
Applet_InvokeMethod Event	106
Applet_Load Event	107
Applet_PreInvokeMethod Event	108
WebApplet_InvokeMethod Event	109
WebApplet_Load Event	110
WebApplet_PreCanInvokeMethod Event	112
WebApplet_PreInvokeMethod Event	113
WebApplet_ShowControl Event	114
WebApplet_ShowListColumn Event	116
Application Methods	119
ActiveApplet Method	120
ActiveBusComp Method	121
ActiveBusObject Method	122
ActiveViewName Method	124
Attach Method	125
CurrencyCode Method	127
Detach Method	128
EnableExceptions Method	129
FindApplet Method	131
GetBusObject Method	131
GetLastErrCode Method	133
GetLastErrText Method	134
GetProfileAttr Method	135
GetService Method	135

GetSharedGlobal Method	138
GotoView Method	139
InvokeMethod Method	142
LoadObjects Method	146
LoadUserAttributes Method	148
Login Method	148
LoginId Method	150
LoginName Method	151
Logoff Method	152
LookupMessage Method	153
Name Method	154
NewPropertySet Method	154
PositionId Method	156
PositionName Method	157
RaiseError Method	158
RaiseErrorText Method	159
SetPositionId Method	161
SetPositionName Method	162
SetProfileAttr Method	162
SetSharedGlobal Method	164
ShowModalDialog Method	166
SWEAlert Method	168
Trace Method	169
TraceOff Method	171
TraceOn Method	172
Application Events	175
Application_Close Event	176
Application_InvokeMethod Event	176
Application_Navigate Event	177
Application_PreInvokeMethod Event	177
Application_PreNavigate Event	179
Application_Start Event	180
Business Component Methods	181
ActivateField Method	183
ActivateMultipleFields Method	184
Associate Method	186
BusObject Method	188
ClearToQuery Method	189
CountRecords Method	190
DeactivateFields Method	191
DeleteRecord Method	193
ExecuteQuery Method	193

ExecuteQuery2 Method	195
FirstRecord Method	196
FirstSelected Method	198
GetAssocBusComp Method	200
GetFieldValue Method	201
GetFormattedFieldValue Method	203
GetLastErrCode Method	205
GetLastErrText Method	206
GetMultipleFieldValues Method	206
GetMVGBusComp Method	207
GetNamedSearch Method	208
GetPicklistBusComp Method	209
GetSearchExpr Method	211
GetSearchSpec Method	212
GetSortSpec Method	212
GetUserProperty Method	213
GetViewMode Method	214
InvokeMethod Method	215
LastRecord Method	224
Name Method	225
NewRecord Method	225
NextRecord Method	227
NextSelected Method	228
ParentBusComp Method	228
Pick Method	229
PreviousRecord Method	231
RefineQuery Method	232
Release Method	233
SetFieldValue Method	235
SetFormattedFieldValue Method	237
SetMultipleFieldValues Method	238
SetNamedSearch Method	240
SetSearchExpr Method	242
SetSearchSpec Method	244
SetSortSpec Method	248
SetUserProperty Method	250
SetViewMode Method	251
UndoRecord Method	254
WriteRecord Method	255
Business Component Events	256
BusComp_Associate Event	257
BusComp_ChangeRecord Event	258

BusComp_CopyRecord Event	259
BusComp_DeleteRecord Event	260
BusComp_InvokeMethod Event	261
BusComp_NewRecord Event	261
BusComp_PreAssociate Event	262
BusComp_PreCopyRecord Event	262
BusComp_PreDeleteRecord Event	263
BusComp_PreGetFieldValue Event	264
BusComp_PreInvokeMethod Event	265
BusComp_PreNewRecord Event	266
BusComp_PreQuery Event	266
BusComp_PreSetFieldValue Event	267
BusComp_PreWriteRecord Event	269
BusComp_Query Event	270
BusComp_SetFieldValue Event	272
BusComp_WriteRecord Event	272
Business Object Methods	273
GetBusComp Method	273
GetLastErrCode Method	275
GetLastErrText Method	275
Name Method	276
Release Method	276
Business Service Methods	278
GetFirstProperty Method	278
GetNextProperty Method	280
GetProperty Method	281
InvokeMethod Method	282
Name Method	283
PropertyExists Method	284
Release Method	284
RemoveProperty Method	286
SetProperty Method	287
Business Service Events	287
Service_InvokeMethod Event	287
Service_PreCanInvokeMethod Event	289
Service_PreInvokeMethod Event	290
Control Methods	293
Applet Method	294
BusComp Method	294
GetProperty Method	295
GetValue Method	295

Name Method	296
SetLabelProperty Method	297
SetProperty Method	299
SetValue Method	300
Property Set Methods	302
AddChild Method	303
Copy Method	304
GetByteValue Method	305
GetChild Method	306
GetChildCount Method	307
GetFirstProperty Method	308
GetLastErrCode Method	309
GetLastErrText Method	310
GetNextProperty Method	310
GetProperty Method	311
GetPropertyCount Method	312
GetType Method	312
GetValue Method	313
InsertChildAt Method	314
PropertyExists Method	314
RemoveChild Method	315
RemoveProperty Method	316
Reset Method	316
SetByteValue Method	317
SetProperty Method	318
SetType Method	319
SetValue Method	319
Miscellaneous Methods	320
GetErrorCode Method	320
GetErrorMessage Method	321
TheApplication Method	322

Chapter 5: Accessing Siebel COM Data Server with C++

Building the Siebel COM Client in C++	325
Testing Your Program	329

Chapter 6: COM Data Control Quick Reference

Application Methods for COM Data Control	331
Business Component Methods for COM Data Control	334
Business Object Methods for COM Data Control	338

Business Service Methods for COM Data Control 338

Property Set Methods for COM Data Control 339

Chapter 7: COM Data Server Quick Reference

Application Methods for COM Data Server 343

Business Component Methods for COM Data Server 346

Business Object Methods for COM Data Server 350

Business Service Methods for COM Data Server 351

Property Set Methods for COM Data Server 352

Chapter 8: Mobile Web Client Automation Server Quick Reference

Application Methods for Mobile Web Client Automation Server 355

Business Component Methods for Mobile Web Client Automation Server 358

Business Object Methods for Mobile Web Client Automation Server 362

Business Service Methods for Mobile Web Client Automation Server 363

Property Set Methods for Mobile Web Client Automation Server 364

Chapter 9: Java Data Bean Quick Reference

Data Bean Methods for Java Data Bean 367

Business Component Methods for Java Data Bean 369

Business Object Methods for Java Data Bean 373

Business Service Methods for Java Data Bean 373

Property Set Methods for Java Data Bean 374

SiebelException Methods for Java Data Bean 376

Chapter 10: Siebel Web Client Automation Server Quick Reference

SiebelHTMLApplication Methods for Siebel Web Client Automation Server 377

SiebelService Methods for Siebel Web Client Automation Server 378

Property Set Methods for Siebel Web Client Automation Server 379

Chapter 11: Siebel VB Quick Reference

Applet Methods for Siebel VB 381

WebApplet Events for Siebel VB	382
Application Methods for Siebel VB	383
Application Events for Siebel VB	386
Business Component Methods for Siebel VB	386
Business Component Events for Siebel VB	391
Business Object Methods for Siebel VB	393
Business Service Methods for Siebel VB	393
Business Service Events for Siebel VB	394
Property Set Methods for Siebel VB	395
Miscellaneous Methods for Siebel VB	397

Chapter 12: Browser Scripting

About Browser Script	399
Applet Methods for Browser Script	400
Applet Events for Browser Script	401
Application Methods for Browser Script	401
Application Events for Browser Script	403
Business Component Methods for Browser Script	403
Business Component Events for Browser Script	405
Business Object Methods for Browser Script	405
Business Service Methods for Browser Script	406
Business Service Events for Browser Script	407
Property Set Methods for Browser Script	407
Control Methods for Browser Script	409
Supported DOM Events for High Interactivity Mode	410
Supported DOM Events for Standard Interactivity Mode	411

Chapter 13: Siebel eScript Quick Reference

Applet Methods for eScript	415
WebApplet Events for eScript	416
Application Methods for eScript	417
Application Events for eScript	419

Business Component Methods for eScript 420

Business Component Events for eScript 424

Business Object Methods for eScript 426

Business Service Methods for eScript 426

Business Service Events for eScript 427

Property Set Methods for eScript 428

Miscellaneous Methods for eScript 429

Chapter 14: Invoking Custom Methods with MiniButton Controls

Invoking Custom Methods with MiniButton Controls 431

Index

1

What's New in This Release

What's New in Siebel Object Interfaces Reference, Version 8.0, Rev. B

Table 1 lists changes in this version of the documentation to support release 8.0 of Oracle's Siebel software.

Table 1. What's New in Siebel Object Interfaces Reference, Version 8.0, Rev. B

Topic	Description
"Siebel Web Client Automation Server" on page 34	The EnableWebClientAutomation parameter is set for the Application Object Manager in version 8.0, not in the application configuration file.
"Accessing the Siebel Web Client Automation Server" on page 44	You cannot invoke the Siebel Web Client Automation Server directly from the active Siebel instance.
"Instantiating the Java Data Bean" on page 52	Updated the connect string to include explicitly the port for the SCBroker component.
"Java Data Bean and the siebel.properties File" on page 53	The maximum possible value for both siebel.commgr.txttimeout and siebel.commgr.sesstimeout in the siebel.properties file is the largest positive integer, 2,147,483,647.
Inter-Application Variable Methods	Removed the topic. These methods are described elsewhere in the documentation.
"Connect String" on page 74	Removed the http transport protocol, which is not valid for connect strings.
"Using Load Balancing with the Connect String" on page 76	When the COM Data Control operates in server mode in an environment that implements load balancing, the VirtualServer parameter in the connect string must match the VirtualServer parameter in the session manager rules in the lbconfig.txt file.
"Name Method" on page 102	Changed the function name in the Browser Script example to Applet_Load.
"Applet_ChangeRecord Event" on page 105	Added a note describing the difference between the BusComp.GetFieldValue() method and the control.GetValue() method when used in this event.
"GetSharedGlobal Method" on page 138	This method and the SetSharedGlobal method are not used with the Java Data Bean. Use GetProfileAttr and SetProfileAttr instead.
"GetDataSource Method" on page 143	Returns the data source defined in the DataSource server parameter, not in the application configuration file.

Table 1. What's New in Siebel Object Interfaces Reference, Version 8.0, Rev. B

Topic	Description
"LoadObjects Method" on page 146	The LoadObjects method does not return an Application object. It either returns nothing or throws an error.
"LoadUserAttributes Method" on page 148	If the row ID argument is the row ID of the current user, the user profile will be loaded into the "Me" profile.
"SetProfileAttr Method" on page 162	Added a note that system fields cannot be used with this method.
"Application_Start Event" on page 180	Added a caution not to use the RaiseErrorText() method in the Application_Start event. That method does not work in this event, and can cause the Application Object Manager to abort.
"ActivateField Method" on page 183	If the Show In List property of a list column is TRUE, the field will be active even if it is not shown on the applet.
"ExecuteQuery Method" on page 193	Added a note that you must activate fields by using the ActivateField method before executing a query for a business component.
"FirstRecord Method" on page 196	Added a note that this method can cause extra SQL code to be generated.
"InvokeMethod Methods for the Business Component Object" on page 216	Added the ClearLOVCache method. Added examples for the CreateFile, GetFile, and PutFile methods.
"BusComp_DeleteRecord Event" on page 260 and "BusComp_PreDeleteRecord Event" on page 263	The BusComp_PreDeleteRecord and BusComp_DeleteRecord events do not execute for child records that are deleted due to the Cascade Delete property on a link.
"Service_PreInvokeMethod Event" on page 290	Added a note that Browser Script does not support output property sets with this event. Added explanations of the intended uses of the Browser Script and Server Script versions of the Service_PreInvokeMethod event. Described the differences in the handling of standard and custom business service methods.
"SetLabelProperty Method" on page 297 and "SetProperty Method" on page 299	Color formats for the BgColor and FontColor properties start with a hash mark (#).
"Property Set Methods" on page 302	Removed the ToString method, which does not return a useful result.
Business Component Methods for COM Data Control	Added the SetUserProperty method.

Table 1. What's New in Siebel Object Interfaces Reference, Version 8.0, Rev. B

Topic	Description
"Application Methods for COM Data Server" on page 343	Removed the GetLastErrCode method, which is not used with the COM Data Server.
"Application Methods for Browser Script" on page 401	Added the ShowModalDialog method.
"Invoking Custom Methods with MiniButton Controls" on page 431	The declarative method of adding a button is strongly recommended over the server script method for performance reasons.

What's New in Siebel Object Interfaces Reference, Version 8.0 Rev. A

Table 2 lists changes in this version of the documentation to support release 8.0 of the software.

Table 2. What's New in Siebel Object Interfaces Reference, Version 8.0 Rev. A

Topic	Description
"Instantiating the Siebel COM Data Server" on page 48	Corrected the VB code example.
"About Java Data Bean" on page 52	Siebel JAR files are version specific. For more information, see Doc ID 478113.1 on <i>OracleMetaLink</i> 3. This document was previously published as Siebel FAQ 2219. Removed the version number from JDK and added a reference to the Sun Microsystems Java Web site.
"Java Data Bean and the siebel.properties File" on page 53	Corrected the siebel.conmgr.txttimeout and siebel.conmgr.sesstimeout parameters.
"Connect String" on page 74	Added the language parameter to the connect string syntax.
"WebApplet_PreCanInvokeMethod Event" on page 112	Updated the conditions under which this event is called.
"GetService Method" on page 135	In version 8.0, to invoke a business service using the Web Client Automation Server and Browser Script, the business service must first be registered in Siebel Tools as an application user property.
"InvokeMethod Methods for the Application Object" on page 143	Added the Language method.
"RaiseError Method" on page 158 and "RaiseErrorText Method" on page 159	These methods cause execution of the script to terminate. CancelOperation is not required after RaiseError and RaiseErrorText. Added a caution that because these methods cancel operations, be careful when using them.

Table 2. What's New in Siebel Object Interfaces Reference, Version 8.0 Rev. A

Topic	Description
"Trace Method" on page 169 and "TraceOn Method" on page 172	Added notes that these methods are meant for debugging purposes and are not recommended for use in production environments.
"InvokeMethod Methods for the Business Component Object" on page 216	Added the RefreshBusComp method. Noted the class dependency for the RefreshRecord method.
"NewRecord Method" on page 225	In certain cases, using the NewRecord method in a server script results in slow performance for this method. For more information, see Doc ID 477556.1 on <i>OracleMetaLink</i> 3. This document was previously published as Siebel FAQ 2079.
"SetSearchExpr Method" on page 242 and "SetSearchSpec Method" on page 244	It is not necessary to activate fields that are used in SetSearchExpr and SetSearchSpec statements.
"BusComp_PreWriteRecord Event" on page 269 and "BusComp_WriteRecord Event" on page 272	Added a caution to be careful when using the RaiseError or RaiseErrorText method in these events, because these methods cancel operations.
"Service_InvokeMethod Event" on page 287	Browser Script does not support output property sets with this event. Added a note and rewrote the example in Siebel eScript.
"GetByteValue Method" on page 305 and "SetByteValue Method" on page 317	Added these property set methods for Java Data Bean.
"GetChild Method" on page 306	When using the Web Client Automation Server, the child object retrieved is a copy of the actual object.
"Business Component Methods for Java Data Bean" on page 369	The ExecuteQuery method requires Boolean cursor modes.
"Business Component Events for Browser Script" on page 405	The BusComp_PreSetFieldValue browser script event is invoked after the server round trip if the Immediate Post Changes property of the Business Component field is set to TRUE.

What's New in Siebel Object Interfaces Reference, Version 8.0

Table 3 lists changes in this version of the documentation to support release 8.0 of the software.

Table 3. What's New in Siebel Object Interfaces Reference, Version 8.0

Topic	Description
"ST eScript Engine" on page 24	The ST eScript engine is the default eScript scripting engine for version 8.0.
"Installing Siebel Object Interfaces" on page 37	The references to BizTalk Connector and OLE DB Provider were removed.
"Siebel Constants" on page 95	The values for ForwardBackward and ForwardOnly were corrected to 256 and 257, respectively.
"WebApplet_PreCanInvokeMethod Event" on page 112	The CanInvokeMethod applet user property can be used to enable and disable methods declaratively at the applet level, and is often easier to use than PreCanInvokeMethod.
"InvokeMethod Methods for the Application Object" on page 143	The following methods are supported for use with the InvokeMethod method: <ul style="list-style-type: none"> ■ GetDataSource ■ IsViewReadOnly ■ LookupValue
"Business Component Methods" on page 181	The GetSortSpec method was added.
"Business Service Methods" on page 278	The GetLastErrCode and GetLastErrText methods were deleted.
"Property Set Methods" on page 302	The GetLastErrCode and GetLastErrText methods were added.
"Business Component Methods for COM Data Server" on page 346	The FirstSelected method was added and the cross-reference for GetAssocBusComp Method was corrected.
"Application Methods for Mobile Web Client Automation Server" on page 355	The Login method was added.
"Business Component Events for Browser Script" on page 405	The BusComp_PreSetFieldValue event is not invoked on picklists and multivalued fields.
"Invoking Custom Methods with MiniButton Controls" on page 431	The procedure was updated to reflect changes in the Siebel Tools user interface in version 8.0 and to include an example of the use of the CanInvokeMethod applet user property.

2

Siebel Programming Tools

This chapter describes the Siebel programming tools. It contains the following topics:

- [“About the Siebel Programming Tools” on page 19](#)
- [“Components of the Siebel Programming Environment” on page 20](#)
- [“Supported Uses of Siebel Programming Languages” on page 21](#)
- [“Adding New Business Logic to a Business Component” on page 22](#)
- [“Tracing Scripts” on page 22](#)
- [“About the Siebel Compiler and Run-Time Engine” on page 24](#)
- [“About Siebel VB” on page 25](#)
- [“About Siebel eScript” on page 27](#)

About the Siebel Programming Tools

Oracle’s Siebel Business Applications include two programming languages. Siebel VB is a Visual Basic–like programming environment that includes an editor, debugger, interpreter, and compiler. Siebel VB runs on the Windows operating system only. Siebel eScript is, similarly, a JavaScript-like programming environment, which uses the same tools that Siebel VB uses. Siebel eScript runs on both Windows and UNIX operating systems. With these built-in languages, you can extend and configure your Siebel application beyond the capabilities provided by declarative object property definition.

The languages are integrated with other Siebel tools, such as the Applet Designer, Siebel CTI, and Siebel SmartScript. Using this integration you can define object properties both with the designer and by attaching scripts.

You should regard coding as a last resort. Siebel Tools provides many ways to configure your Siebel application without coding, and these methods should be exhausted before you attempt to write your own code, for three reasons:

- Using Siebel Tools is easier than writing code.
- More important, your code may not survive an upgrade. Customizations created directly in Siebel Tools are upgraded automatically when you upgrade your Siebel application, but code is not touched, and it may need to be reviewed following an upgrade.
- Finally, declarative configuration through Siebel Tools results in better performance than implementing the same functionality through code. For more information, see *Siebel Performance Tuning Guide*.

Components of the Siebel Programming Environment

The individual components of the Siebel programming environment include:

- **Server Script.** The following scripting languages can be used in server scripts:
 - **Siebel VB.** A programming language that is syntactically and semantically compatible with Microsoft Visual Basic. Because the language uses most of the same commands and standards as Microsoft Visual Basic, you can extend your Siebel application and reduce training costs.
 - **Siebel eScript.** A programming language that is syntactically and semantically compatible with Netscape JavaScript. In parallel with Siebel VB, the language uses most of the same commands and standards as JavaScript, giving you the same advantages in an alternative language. Moreover, you can use Siebel eScript on all Siebel-supported operating systems. Siebel VB is supported on the Microsoft Windows operating system only.
- **Browser Script.** A type of script (introduced in Siebel 7) that executes in and is interpreted by the Browser. Browser Scripts are written in JavaScript and interact with the Document Object Model (DOM) as well as with the Siebel Object Model available in the Browser through the Browser Interaction Manager. A developer can script the behavior of Siebel events as well as the Browser events that are exposed through the DOM. Be aware that the DOMs for Internet Explorer and Netscape Navigator are different. Browser Script may only be used with applications which run in high interactivity mode, except when scripting Control events supported by the Browser Document Object Model.
- **Siebel Script Editor.** An integrated editor used to create, view, edit, and save custom program routines. The script editor has a code editing feature called Script Assist (introduced in version 7.8). Script Assist provides auto-complete, auto-indentation, method listing, and method signature capabilities to help minimize errors as you develop script. For more information about the Siebel Script Editor, including how to enable Script Assist, see *Using Siebel Tools*.
- **Siebel Debugger.** Assists you in detecting errors contained within Siebel programming language routines. It does not assist in detecting errors outside of the context of custom program routines. The Siebel Debugger can be invoked automatically from Siebel applications when a run-time error occurs if the Siebel application was invoked with the debug option, /H, on the command startup line. The Debugger can also be invoked from the Debug toolbar and Debug menu. The Debugger is described in more detail in *Using Siebel Tools*.
- **Compiler/Interpreter.** A nonvisual component of the Siebel programming languages that compiles and executes Siebel custom program routines. It is similar to Microsoft's Visual Basic Language Interpreter. Siebel language routines are compiled into p-code and stored with the other object definitions in the SRF file.
- **Object Interfaces.** A collection of selected objects that expose their data and functionality to custom routines. The interface provides access to Siebel business objects with defined methods, events, and associated data. The object interfaces are the subject of this book.

Supported Uses of Siebel Programming Languages

The Siebel programming languages provide the ability to extend the behavior of the Siebel application in specific ways. Supported extensions can be grouped into the following:

- [“Business Logic Definition” on page 21](#)
- [“Custom Behavior for User Interface Components” on page 21](#)

Business Logic Definition

The Siebel programming languages let you extend data validation beyond what is already provided for in the standard Siebel application. The unique validation requirements of a business can be satisfied by custom extension routines that implement the specific business rules prior to performing record manipulation operations, such as record write or record delete.

Data validation routines can incorporate validations based on data from sources within or outside the Siebel application. For example, a validation routine might verify that an opportunity revenue amount is greater than zero if the probability of the opportunity is more than 20 percent using internal Siebel data. Alternatively, an extension routine could verify the availability of a conference room prior to inserting a new activity record by reading the information from another application’s database table.

The Siebel programming languages provide data manipulation capabilities that can be used to modify data, such as updating, inserting, and deleting records. For example, a custom routine can be used to set the value of one field based on the value of another before a new record is created. A custom routine could thus be used to set the value of opportunity probability based on a stage in the sales cycle, simplifying data entry.

The methods used to support data manipulation provide error notification. The Siebel programming language is notified of the error and has access to information so you can handle the error and take appropriate action.

Data manipulation methods in the Siebel programming languages conform to the same visibility rules as the standard Siebel applications user interface. For example, if a business object is readable but not editable because of visibility rules in the Siebel applications user interface, the same is true when you are accessing the object through the Siebel languages. These languages cannot circumvent the visibility rules or the security constraints enforced by the standard Siebel applications.

Custom Behavior for User Interface Components

With the Siebel Applet Layout Editor, you can add selected user interface objects to applets. With the Siebel programming languages, you can associate behavior to the objects. An example of this feature is placing a button on an applet which, when clicked, launches another program such as Microsoft Excel.

With the Siebel programming languages, you can update a particular field based on the values of other fields. An extension routine could enforce the business rule that states, “If the sales cycle is at or past the Quote Submitted stage, do not allow the Revenue field to be modified.” The feature can also be used to support the user-specific data maintenance rule by restricting updates to certain fields based on the current user’s position.

Adding New Business Logic to a Business Component

You use browser scripts and server scripts to add business logic to business components.

To add business logic to a business component

- 1 Start Siebel Tools.
- 2 Choose Repository > Check Out to lock the project from the server repository.
- 3 Select the business component using the Object Explorer and Object List Editor.
- 4 Right-click, and then choose Edit Browser Scripts or Edit Server Scripts.
The Script Editor appears.
- 5 Select the event from the Event List Tree applet, and then add your server scripts in the Script Editor.
- 6 Validate the Siebel script syntax by choosing Debug > Check Syntax.
NOTE: The Check Syntax menu item is available for server scripts only.
- 7 Choose File > Save to save the changes.
- 8 Compile the modified business component by pressing F7.
- 9 Press F5 to run the modified application.
- 10 Choose Repository > Check In to check the modified project into the server repository.

Tracing Scripts

As part of debugging scripts you can run a trace on allocations, events, and SQL commands. The tracing can be activated for specified user accounts, such as your development team. The Siebel Server sends the tracing information to a log file.

For more information on configuring server components, see *Siebel Applications Administration Guide*. For information on logging events, see *Siebel System Monitoring and Diagnostics Guide*.

To enable logging

- 1 Navigate to Server Configuration > Components.
- 2 Select a component to log. Not all components support logging, but the majority do.

- 3 Click the Component Event Configuration tab.
- 4 Select the Object Manager Extension Language Log record. If this record does not exist, then the selected component does not support logging.
- 5 Set the Log Level to 1. To disable logging when you are done, set the Log Level to 0 (zero).
- 6 Click the Component Parameters tab.
- 7 **Optional.** To display only the script tracing parameters, query for the following:
 - Parameter Alias = Trace*
 - Subsystem = Object Manager

Changes to the script tracing parameters can take effect immediately. If you want changes to take effect now, then make changes to the values in the Current Value column. If you want the changes to take effect only after a restart, then make changes to the values in the Value on Restart column.

- 8 Set one or more tracing parameters from the following table.

Information to Trace	Parameter Alias	Settings for Current Value and Value on Restart
Allocations	TraceAlloc	0 (zero) to disable logging, 1 to enable logging
Events	TraceEvents	0 (zero) to disable logging, 1 to enable logging
SQL Commands	TraceSql	0 (zero) to disable logging, 1 to enable logging
Users	TraceUser	Comma-separated list of user names. Do not use spaces (for example: sadmin,mmasters). The length of this parameter is limited to 20 characters. NOTE: Server-side tracing can have a significant impact on performance. Use caution when making it available for multiple users simultaneously.

The following is a sample trace:

```

2021 2003-04-09 15: 37: 20 2003-04-09 16: 40: 52 -0700 00000022 001 001f 0001 09 SCC0bj Mgr_enu 47126 1680 1584
C: \sea752\si ebsrvr\log\SCC0bj Mgr_enu_47126. log 7. 5. 3 [16122] ENU

Obj MgrSessi onI nfoObj MgrLogi n32003-04-09 15: 37: 20Logi n name : SADMIN

Obj MgrSessi onI nfoObj MgrAuth32003-04-09 15: 37: 20Authenti cati on name : SADMIN

Obj MgrSessi onI nfoObj MgrLogi n32003-04-09 15: 37: 20Sessi on Type: Regul ar Sessi on

Generi cLogGeneri cError12003-04-09 15: 37: 20I nvocati on of Appl et Menu New Servi ce: :NewExpense i s not al l owed.

Generi cLogGeneri cError12003-04-09 15: 37: 20I nvocati on of Appl et Menu New Servi ce: :NewTimeSheet i s not
al l owed.

Obj MgrExtLangLogObj MgrExtLangLog02003-04-09 15: 38: 27[User: SADMIN] EVENT, BEGIN, BusComp [Account],
BusComp_Query.

Obj MgrExtLangLogObj MgrExtLangLog02003-04-09 15: 38: 27[User: SADMIN] EVENT, END, BusComp [Account],
BusComp_Query.
    
```

```
ObjMgrExtLangLogObjMgrExtLangLog02003-04-09 15:38:58[User: SADMIN] EVENT, BEGIN, BusComp [Account], BusComp_NewRecord.
```

```
ObjMgrExtLangLogObjMgrExtLangLog02003-04-09 15:38:58[User: SADMIN] EVENT, END, BusComp [Account], BusComp_NewRecord.
```

```
ObjMgrExtLangLogObjMgrExtLangLog02003-04-09 15:39:08[User: SADMIN] EVENT, BEGIN, BusComp [Account], BusComp_PreSetFieldValue.
```

```
ObjMgrExtLangLogObjMgrExtLangLog02003-04-09 15:39:08[User: SADMIN] EVENT, END, BusComp [Account], BusComp_PreSetFieldValue.
```

```
ObjMgrSessionInfoObjMgrLogin32003-04-09 16:40:52Username: SADMIN, Login Status: Attempt, Session Id: !1.690.b816.3e94a0a0, IP Address: 172.20.94.66
```

Script tracing is not the same as file-based tracing. For more information on file-based tracing, read [“Trace Method” on page 169](#).

NOTE: You can also enable local object manager logging by setting the `SIEBEL_LOG_EVENT` environment variable to a value from 2 to 5. For more information on setting environment variables, see *Siebel Applications Administration Guide*.

About the Siebel Compiler and Run-Time Engine

To invoke the Siebel compiler and run-time engine, click the Compile button on the Debugger toolbar, or press F7. You can also invoke it when compiling a project containing object definitions with associated Siebel scripts. The Siebel compiler and run-time engine has no user interface of its own. When the compiler is invoked, it compiles the custom routines and returns a message when completed that indicates success or failure.

Compilation Order Considerations

The Siebel Compiler compiles Siebel VB functions and procedures in alphabetical order within an object definition. If a function or procedure calls another function or procedure that has not been defined, the compiler generates an error message in the form:

```
function_name Is An Unknown Function
```

To avoid this error, use the Declare statement to declare the function or procedure in the (general) (declarations) section. For more information, read *Siebel VB Language Reference*.

Siebel eScript does not require forward declaration of functions.

ST eScript Engine

In version 7.8 and higher, the ST eScript engine is available. It is the default eScript scripting engine in version 8.0. The new engine provides support for strongly typed objects (compliant with the ECMAScript edition 4 specification). In addition, the new eScript engine provides other enhancements, such as late and early binding. For information about the differences between the ST eScript engine and the T engine, see *Siebel eScript Language Reference*. For information on using the ST engine, see *Using Siebel Tools*.

About Siebel VB

If you have never programmed in Visual Basic before, you may want to start by reading *Siebel VB Language Reference*. It includes information on the internal VB program constructs, statements, and functions. You need to understand how these objects behave before you can program using the Siebel object methods and events.

Declare your variables. As a general rule, using the Option Explicit statement is helpful as it forces you to declare your variables (using the Dim statement) before you use them. Doing so makes it easier for others to understand your code, and for you to debug the code. You can declare a variable without giving it a data type, but if you do not specify a data type, Siebel VB assumes the type Variant, which requires 16 bytes—twice as much memory as the next smallest data type. If you can avoid Variant variables, you reduce the amount of memory required by your code, which may make execution faster. In Siebel VB, you place Option commands in the (general) (declarations) window.

Use standardized naming conventions. Another way to improve the readability of your code is to follow a set of standardized naming conventions. It does not really matter what conventions you follow as long as everyone in the programming group follows the same conventions. One very common convention is to prefix each variable with a letter denoting its type, as shown in [Table 4](#).

Table 4. Naming Conventions for Variables in Scripts

Data Type	Symbol	Example
String	s	sName
Integer	i	i Return
Long integer	l	l Bi gCount
Single-precision number	si	si Al lowance
Double-precision number	d	dBudget
Object	o	oBusComp
Currency	c	cAmtOwed

You can also use suffix characters on your variable names.

Use the Me object reference. The special object reference *Me* is a VB shorthand for “the current object.” You should use it in place of references to active business objects. For example, in a business component event handler, you should use *Me* in place of *ActiveBusComp*, as shown in the following example:

```

Function BusComp_PreSetFieldValue(FieldName As String, FieldValue As String) As Integer
    If Val (Me.GetFieldValue("Rep %")) >75 Then
        TheApplication.RaiseErrorText("You cannot set the Rep% to greater than 75")
    End If
    BusComp_PreSetFieldValue = ContinueOperation
End Function

```

You can see other examples of Me in [“ParentBusComp Method” on page 228](#), [“SetViewMode Method” on page 251](#), [“BusComp_PreQuery Event” on page 266](#), [“BusComp_PreWriteRecord Event” on page 269](#), and [“ActiveMode Method” on page 96](#).

Trap run-time errors. The standard VB methods return numeric error codes, which are documented in *Siebel VB Language Reference*. Siebel VB methods also may return error codes; however, they must be handled differently from those returned by the standard VB methods. For standard methods, you can use some combination of Err, ErrText, and Error. Siebel methods use numeric error codes in the range from 4000 to 4999. When you access Siebel object interfaces through COM or ActiveX, use a construct of this form to see the text of the error message.

```

If errCode <> 0 Then
    ErrText = GetLastErrText
    TheAppl i cati on. Rai seErrorText ErrText
    Exi t Sub
End If

```

NOTE: The `GetLastErrText` method is only available using interfaces external to Siebel Tools. Therefore, you can use it in Microsoft VB, but not in Siebel VB.

If you are working within the Siebel applications, especially in a LAN environment, where you cannot be sure that a record has not been changed or deleted by another user, create routines that keep the program from failing when it meets an unexpected condition. For information about error-handling routines, see the Language Overview topics in *Siebel VB Language Reference*.

Make effective use of the Select Case construct. The Select Case construct chooses among any number of alternatives you require, based on the value of a single variable. This is greatly preferable to a series of nested If statements, because it simplifies code maintenance and also improves performance because the variable must be evaluated only once.

Use the With shortcut. Use the With statement to apply several methods to a single object. It reduces typing and makes the code easier to read. Instead of a series of statements such as:

```

Set oBusObj ect = TheAppl i cati on. GetBusObj ect("Opportuni ty")
Set oBusComp = oBusObj ect. GetBusComp("Opportuni ty")
oBusComp. Acti vateFi el d "Account"
oBusComp. Cl earToQuery
oBusComp. SetSearchSpec "Name", varname
oBusComp. ExecuteQuery ForwardBackward
If (oBusComp. Fi rstRecord = 1) Then
    sAccount = oBusComp. GetFi el dVal ue "Account"
End If
. . .

```

use the following:

```

Set oBusObj ect = TheAppl i cati on. GetBusObj ect("Opportuni ty")
Set oBusComp = oBusObj ect. GetBusComp("Opportuni ty")
Wi th oBusComp
    . Acti vateFi el d "Account"
    . Cl earToQuery
    . SetSearchSpec "Name", varname
    . ExecuteQuery ForwardBackward
If (. Fi rstRecord = 1) Then

```

```

        sAccount = .GetFieldVal ue "Account"
    End If
End With
. . .

Set oBusComp = Nothing
Set oBusObj ect = Nothing

```

Use extreme care when working with date variables. When working with date variables extreme care has to be taken regarding the date format. GetFieldValue always returns the date in dd/mm/yyyy format (eventually followed by the time). As a result, applying the CVDDate() function, which expects the regional setting, to the return value may cause an error. The GetFormattedFieldValue method uses the regional settings of the user's operating system. The regional setting specifies the year with two digits in most cases, thereby creating the possibility of Y2K noncompliance. For these reasons, you should use the following approach for performing date arithmetic.

To perform date arithmetic

- 1 Retrieve the value of date fields with the GetFieldValue method. For more information, read ["GetFieldValue Method" on page 201](#).
- 2 Convert it into a date variable using the DateSerial() function.
- 3 Perform the required date arithmetic.

The following example is in Siebel VB:

```

Dim strDate as String, varDate as Variant
strDate = oBC.GetFieldVal ue("Date Field")
varDate =DateSerial (Val (Mid(strDate, 7, 4)), Val (Left(strDate, 2)), _
    Val (Mid(strDate, 4, 2)))
[any date arithmetic]

```

Destroy any objects you have created when you no longer need them. While the interpreter takes care of object cleanup, it is a best practice to write code that explicitly destroys objects when they are no longer used. Explicit destruction of Siebel objects should occur in the procedure in which they are created.

To destroy objects in Siebel VB, set each object to Nothing in the reverse order of creation. Destroy child objects before parent objects. For example:

```

Set oBusObj = TheAppl icati on.GetBusObj ect("contact")
Set oBusComp= oBusObj .GetBusComp("contact")

[ Your code here ]

Set oBusComp = Nothing
Set oBusObj = Nothing

```

About Siebel eScript

There are some important differences between Siebel eScript and Siebel VB:

- Siebel eScript is case-sensitive; theApplication is different from TheApplication. Siebel VB is not case-sensitive.
- Siebel eScript does not distinguish between subroutines (which take no arguments) and functions (which take arguments). In Siebel eScript, every method is a function, whether or not it accepts arguments; therefore, it should be followed by a pair of parentheses.

Keep these differences in mind when you read the syntax diagrams. In many instances, the only difference between the VB syntax and the eScript syntax is that the eScript syntax requires the pair of parentheses at the end. In these instances, only the VB syntax is shown; you can derive the eScript syntax by adding the parentheses.

There are also some important differences between Siebel eScript and standard ECMAScript. Most important, Siebel eScript has no user interface functions. It cannot, therefore, be used to animate or control Web pages. Second, it contains two objects that are not part of standard ECMAScript: SELib and Clib. These objects implement a variety of C-like functions for interacting with the operating and file systems, and for file I/O. For details on these and other eScript functions not covered here, see *Siebel eScript Language Reference*.

Declare your variables. Standard ECMAScript does not require that you declare variables. Variables are declared implicitly as soon as they are used. As a general rule, you should declare the variables used in a module before you use them. Doing so makes it easier for others to understand your code, and for you to debug the code.

Use standardized naming conventions. Another way to improve the readability of your code is to follow a set of standardized naming conventions. It does not really matter what conventions you follow as long as everyone in the programming group follows the same conventions. One very common convention is to prefix each variable with a letter denoting its type, as shown in [Table 4 on page 25](#).

Use the *this* object reference. The special object reference *this* is eScript shorthand for “the current object.” You should use it in place of references to active business objects and components. For example, in a business component event handler, you should use *this* in place of *ActiveBusComp*, as shown in the following example:

```
if (condition)
{
    this.SetSearchSpec(...);
    this.ExecuteQuery
    return (CancelOperation)
}
else
    return(ContinueOperation);
```

Use the *with* shortcut. The with shortcut applies several methods to a single object. It reduces typing and makes the code easier to read. Instead of a series of statements such as:

```
var oBusObject = TheApplication().GetBusObject("Opportunity");
var oBusComp = oBusObject.GetBusComp("Opportunity");
oBusComp.ActivateField("Account");
oBusComp.ClearToQuery();
oBusComp.SetSearchSpec("Name", varname);
oBusComp.ExecuteQuery(ForwardBackward);
if oBusComp.FirstRecord();
```

```

{
    var sAccount = oBusComp.GetFieldValue("Account");
}
. . .

```

Use the following:

```

var oBusObject = TheApplication().GetBusObject("Opportunity");
var oBusComp = oBusObject.GetBusComp("Opportunity");
with (oBusComp)
{
    ActivateField("Account");
    ClearToQuery();
    SetSearchSpec("Name", varname);
    ExecuteQuery(ForwardBackward);
    if (FirstRecord())
    {
        var sAccount = GetFieldValue("Account");
    }
} //end with

```

Make effective use of the Switch construct. Use the Switch construct to choose among any number of alternatives you require, based on the value of a single variable. This is greatly preferable to a series of nested If statements because it simplifies code maintenance. It also improves performance because the variable must be evaluated only once.

```

switch (FieldName)
{
    case "Status":
    {
        var sysdate = new Date();
        var sysdatestring = ((sysdate.getMonth() + 1) + "/" + sysdate.getDate() +
            "/" + sysdate.getFullYear() + " " + sysdate.getHours() + ":" +
            sysdate.getMinutes() + ":" + sysdate.getSeconds());
        this.SetFieldValue("Sales Stage Date", sysdatestring);
        if ((FieldValue) == "Not Attempted")
        {
            if (this.GetFieldValue("Primary Revenue Amount") > 0)
                this.SetFieldValue("Primary Revenue Amount", 0);
        }
        break;
    }
    case "Revenue":
    {
        if (newrecSw == "Y")
        {
            newrecSw = "";
            this.SetFieldValue("Account Revenue", (FieldValue));
        }
        break;
    }
}
}

```

Destroy any objects you have created when you no longer need them. While the interpreter takes care of object cleanup, it is a best practice to write code that explicitly destroys objects when they are no longer used. Explicit destruction of Siebel objects should occur in the procedure in which they are created.

To destroy objects in Siebel eScript, set each object to null in the reverse order of creation. Destroy child objects before parent objects. For example:

```
var oBusObject = TheApplication().GetBusObject("Contact");  
var oBusComp = oBusObject.GetBusComp("Contact");
```

[*Your code here*]

```
oBusComp = null;  
oBusObject = null;
```

3

Programming

This chapter provides information about installing and using Siebel object interfaces. It includes the following topics:

- [“About Programming with Siebel Object Interfaces” on page 31](#)
- [“About Siebel Object Interfaces” on page 32](#)
- [“Installing Siebel Object Interfaces” on page 37](#)
- [“Exposed Object Types” on page 38](#)
- [“Siebel Object Interface Method Syntax” on page 41](#)
- [“Getting Started with the Siebel Object Interfaces” on page 43](#)
- [“Siebel Object Interface Methods” on page 58](#)
- [“Variable Scoping for Siebel Script Variables” on page 65](#)
- [“Siebel Object Interface Events and Siebel Extension Events” on page 67](#)

About Programming with Siebel Object Interfaces

Siebel object interfaces provide open interfaces into the Siebel applications, supporting integration between Siebel applications and external applications.

Siebel object interface definitions are based on Siebel business objects and declarative object definitions that can be configured and automatically upgraded to successive releases using Siebel Tools.

Siebel object interfaces are available to developers through the following technologies:

- Built-in scripting of Siebel objects using Siebel VB, Siebel eScript, and Browser Script
- Component Object Model (COM) using the Siebel Web Client Automation Server, Siebel COM Data Control, Siebel COM Data Server, and Siebel Mobile Web Client Automation Server
- Java using Siebel Java Data Bean

Siebel developers can integrate client and server applications from a variety of vendors. Application integration typically requires that cooperative software application programs interactively pass data back and forth. In addition, application integration sometimes requires that one application “controls” or “automates” another application.

The Siebel object interfaces are a collection of methods on Siebel objects that expose their data and functions to custom routines written in Server Script, and also to other languages external to the Siebel application. The interfaces provide access to Siebel business objects with defined methods, events, and data.

CAUTION: Your Siebel application is a Web-based or client/server application designed to meet the sales and marketing information requirements of large multinational corporations. Use caution when extending the Siebel applications or accessing them through the interface described here, as this should be done only by trained technical professionals. Improper application configuration or use of these interfaces can cause your configured Siebel application to be less reliable, or to perform poorly. Always test your configured application thoroughly before production rollout.

Oracle does not support the following:

- Functions developed through custom programming
- Custom-developed applications
- Specific performance characteristics of other vendors' software

In addition, Siebel business objects, the Siebel object interfaces, and their associated behavior and properties are defined at the sole discretion of Oracle. Oracle reserves the right to change the behavior, properties, and events at any time without notice.

This chapter describes the interface environments and object types. [Chapter 4, "Interfaces Reference"](#) describes the supported methods of the Siebel object interfaces and provides examples of how you can use them.

About Siebel Object Interfaces

Siebel object interfaces include:

- ["Siebel COM Interfaces" on page 32](#)
- ["Siebel Java Interfaces" on page 36](#)
- Built-in scripting of Siebel objects using Siebel VB, Siebel eScript, and Browser Script. For more information, read ["Built-In Scripting" on page 36](#).

Related Topic

["Usage Evaluation Matrix" on page 37](#)

Siebel COM Interfaces

Siebel COM object interfaces can be accessed in four ways: COM Data Control, COM Data Server, Siebel Web Client Automation Server, and Siebel Mobile Web Client Automation Server.

The supported languages for accessing Siebel COM interfaces are JavaScript, Visual Basic, and C++. The Perl language is not supported with Siebel COM interfaces.

NOTE: The programming environment you use may impose limitations on the functionality of COM servers. For example, code using the Data Server written in VB should not be implemented as a Windows NT service.

COM Data Control

The Siebel COM Data Control interfaces allow external applications to access Siebel business objects remotely.

To develop an application using the Siebel COM Data Control, you must have a Siebel Application Object Manager set up and running on a Siebel Server. Refer to *Siebel System Administration Guide* for information about installing and configuring the Siebel Object Manager.

Any external application or component that uses Siebel COM Data Control connects and communicates with Siebel Application Object Manager using the Siebel Internet Session Network API (SISNAPI) protocol. The Siebel Application Object Manager, which could be running on a remote Siebel Server, is a multithreaded, multiprocess application server that hosts Siebel business objects and supports session-based connections by clients.

For information on the SISNAPI protocol, see *Siebel Deployment Planning Guide*.

Figure 1 shows how external applications use Siebel COM Data Control to communicate with the Siebel application.

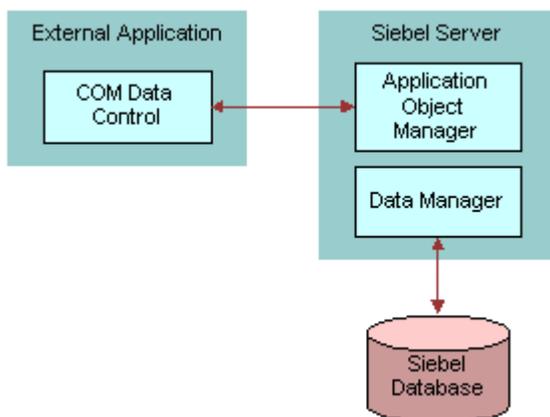


Figure 1. Siebel COM Data Control

COM Data Server

Figure 2 shows how external applications use Siebel COM Data Server without having to access the user interface objects. COM Data Server uses the same mechanism as the Mobile Web Client to connect to the server database.

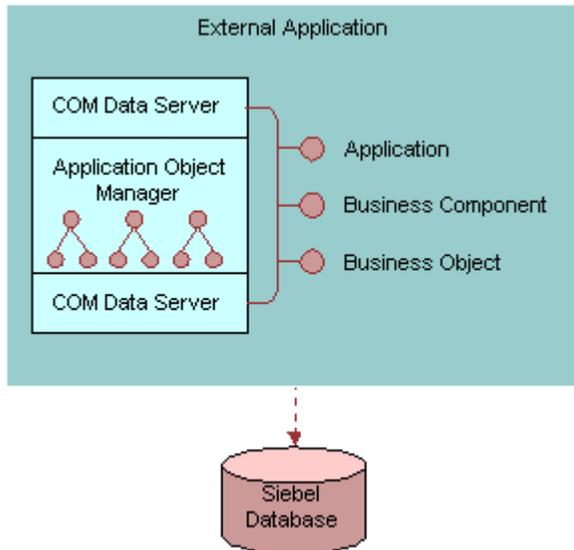


Figure 2. Siebel COM Data Server

You can expect differences in performance between Siebel COM Data Server and Siebel Mobile Web Client Automation Server. This is due in part to the fact that COM Data Server is a DLL running in the same address space as the calling program, while Automation Server is an executable that runs in its own address space. DLLs that are accessed by a server task must be thread safe.

Siebel Web Client Automation Server

The Web Client Automation Server is implemented as a small COM object resident within the Web browser (IE 5.0 or greater). The Web Client Automation Server is supported with the High Interactivity client only. When accessing the Web Client Automation Server, Siebel Web Client must be running.

To enable the Web Client Automation Server, make sure that the EnableWebClientAutomation parameter is set to TRUE for the Application Object Manager. With this parameter set to TRUE, a small ActiveX Control downloads to the desktop and the SiebelHTMLApplication process starts.

In the Windows Task Manager, this process is named one of the following:

- siebelhtml.exe
- siebelhtmlapplication.exe
- SIEBEL~1.EXE

This process terminates when the Siebel Web Client is gracefully terminated. You may need to modify the ActiveX controls and plug-ins security settings in the Browser to use the Web Client Automation Server.

Figure 3 shows how external applications can invoke business services and manipulate property sets in the Siebel Web Client Automation Server.

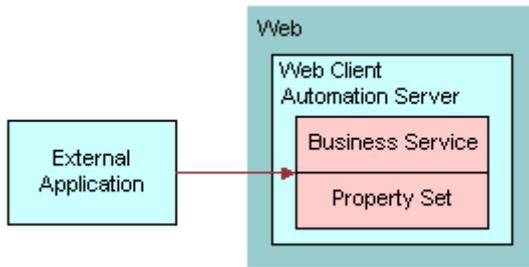


Figure 3. Siebel Web Client Automation Server

Siebel Mobile Web Client Automation Server

When accessing the Mobile Web Client Automation Server, Siebel Mobile Web Client must be running. Figure 4 shows how the Siebel Mobile Web Client Automation Server is used by external applications to control the Siebel application.

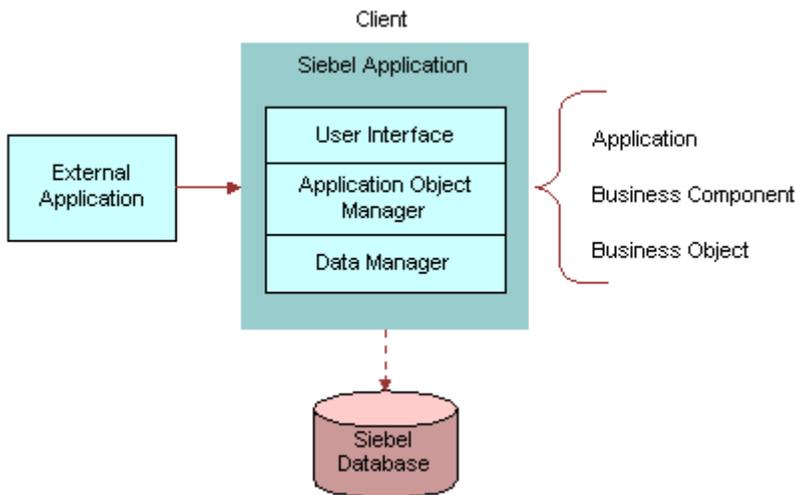


Figure 4. Siebel Mobile Web Client Automation Server

Siebel Java Interfaces

The Siebel Java Data Bean allows external applications to access Siebel objects without having to display the Siebel user interface. These objects are made available through the Siebel Java Data Bean, which can be used by an external application, component, or Java applet. The Java Data Bean provides functional access to the Siebel applications for both reading and writing data. The set of interfaces exposed through this interface is similar to that exposed by the Siebel COM Data Control.

Any external application that uses the Siebel Java Data Bean connects and communicates with a Siebel Application Object Manager using the SISNAPI protocol. The Siebel Application Object Manager, which could be running on a remote Siebel Server, is a multithreaded, multiprocess application server that hosts Siebel objects and supports session-based connections by clients. The Siebel Application Object Manager specified in the connect string must be running on the specified Siebel Server.

Using the Siebel Java Data Bean with Multiple Threads

Multiple threads of a single process should not access a common instance of the Java Data Bean. If a process with multiple threads wants to use the Data Bean, each thread must create its own instance of it.

For the same reasons, you should not reuse instances of any other objects exposed by the Java Data Bean (SiebelBusObject, SiebelBusComp, SiebelService, and SiebelPropertySet) across multiple threads of the same process.

CAUTION: You should create one instance of the Siebel Java Data Bean for each thread that wishes to use it. Data Bean Objects obtained by one thread should not be shared among multiple threads.

Built-In Scripting

You can access Siebel methods and events from within the Siebel application through Siebel VB or Siebel eScript. Both languages are procedural programming languages for writing custom extensions that access and control Siebel objects through the Siebel object interfaces.

Usage Evaluation Matrix

Use [Table 5](#) to determine which types of Siebel object interfaces to use.

NOTE: Throughout this guide, X in a table denotes that an object interface type can be used with a specified method or object type, or for a specified purpose.

Table 5. Usage Evaluation

Usage	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COMData Control	Siebel COM Data Server	Siebel Java Data Bean
Control Siebel user interface from your external application	X	X			
Access Siebel business objects without Siebel user interface			X	X	X
Objects execute on a Siebel Server	X		X		X
Execute on the client side in mobile environments		X		X	

Installing Siebel Object Interfaces

[Table 6](#) lists the installation procedure for each object interface.

Table 6. Interface Installation

Interface	Installation
Java Data Bean	Installed by the Siebel Enterprise Server Installer under a Typical installation, with the "EAI Siebel Connectors" option. Also installed by default with Siebel Tools. For more information on the EAI Siebel Connectors option, see the <i>Siebel Installation Guide</i> for the operating system you are using.
COM Data Control	Installed by the Siebel Enterprise Server Installer under a Typical installation, with the "EAI Siebel Connectors" option. For more information on the EAI Siebel Connectors option, see the <i>Siebel Installation Guide</i> for the operating system you are using.
COM Data Server	Installed by default with the Mobile Web Client.

Table 6. Interface Installation

Interface	Installation
Siebel Mobile Web Client Automation Server	Installed by default with the Siebel Mobile Web Client.
Siebel Web Client Automation Server	Installed by default with the Siebel Mobile Web Client. Also installed by default with the Siebel Enterprise Server Installer.

Exposed Object Types

Siebel object interfaces provide access to Siebel business objects. See the following sections for a discussion of each exposed object type:

- [“Application Object Type” on page 38](#)
- [“Business Object Object Type” on page 38](#)
- [“Business Component Object Type” on page 39](#)
- [“Business Service Object Type” on page 39](#)
- [“Applet Object Type” on page 40](#)
- [“Property Set Object Type” on page 40](#)
- [“User Interface Control Object Type” on page 40](#)

There are additional object types used in Siebel Business Applications, including specialized types derived from the base object types. However, object types not specifically discussed here are not exposed in the Siebel object interfaces and references to them may not be passed to external DLLs, such as a Microsoft Visual Basic COM DLL.

NOTE: Interfaces may be subject to change.

Application Object Type

The application object represents the Siebel application that is currently active and is an instance of the Application object type. An application object is created when a user session starts. This object contains the properties and events that interact with Siebel software as a whole. An instance of a Siebel application always has exactly one application object.

Business Object Object Type

Business objects are customizable, object-oriented building blocks of Siebel applications. Business objects define the relationships between different business component objects (BusComps) and contain semantic information about, for example, sales, marketing, and service-related entities.

A Siebel business object groups one or more business components into a logical unit of information. Examples of Siebel business objects include Opportunity, Quote, Campaign, and Forecast. An opportunity business object may consist of opportunity, contact, and product business components. The opportunity business component dictates the information of the other business components in a parent-child relationship.

Business Component Object Type

A business component defines the structure, the behavior, and the information displayed by a particular subject such as a product, contact, or account. Siebel business components are logical abstractions of one or more database tables. The information stored in a business component is usually specific to a particular subject and is typically not dependent on other business components. Business components can be used in one or more business objects.

Business component objects have associated data structured as records, they have properties, and they contain data units called *fields*. In the object interfaces, fields are accessed through business components. The business component object supports getting and setting field values, moving backward and forward through data in a business component object, and filtering changes to data it manages. This object type is available to every interface.

Business Service Object Type

Business service objects are objects that can be used to implement reusable business logic within the Object Manager. They include:

- Built-in business services, which are defined in Siebel Tools and stored in the repository.
- Run-time business services, which are defined in the run-time client and stored in the application database.

There are two types of built-in business services:

- Standard, which are based on the class `CSSService` and can be scripted or modified.
- Specialized, which are based on specialized C++ classes. Those specialized services whose behavior has been documented can be scripted.

Using business services, you can configure stand-alone “objects” or “modules” with both properties and scripts (written in VB or eScript). Business services may be used for generic code libraries that can be called from any other scripts.

Built-in services cannot be modified at run time, and they cannot be overridden by run-time scripts.

User-created services can be created by adding a new record to the Business Service list applet in Siebel Tools. They can also be defined by administrators at run time by using views in the Siebel client. They can have whatever properties are needed to accomplish a particular task. They can be called either from scripts or from object interfaces.

NOTE: To invoke a business service using the Web Client Automation Server and Browser Script, the business service must first be registered in Siebel Tools as an application user property. This prevents Service Not Found errors. For more information, see [“GetService Method” on page 135](#).

Because they are reusable and can be set to persist throughout a session, business service objects can be used to simulate global procedures.

Applet Object Type

Because applet objects are part of the user interface, they are not accessible when using the Siebel object interfaces through the Siebel COM Data Server, Siebel COM Data Control, Siebel Web Client Automation Server, Siebel Mobile Web Client Automation Server, or Siebel Java Data Bean.

An applet object represents an applet that is rendered by the Siebel Web Engine. It exists only as a scriptable object, and is accessed by using the Edit Server Scripts or Edit Browser Scripts command on the selected applet. Applet objects are accessible through Siebel VB and Siebel eScript in Server Scripts, and through Browser JavaScript in Browser Scripts. Some Applet Events, such as WebApplet_ShowControl and WebApplet_ShowListColumn, do not execute if the client is running in high interactivity mode.

To add a Browser or Server script to an applet in Siebel Tools

- 1 In the Explorer window, choose the Applet object type.
- 2 In the right pane, locate the object to which you want to add a script.
- 3 Make sure that the project containing the applet is locked.
- 4 Right-click the item and select Edit Server Scripts or Edit Browser Scripts.

Property Set Object Type

Property set objects are collections of properties, which can be used for storing data. They may have child property sets assigned to them to form a hierarchical data structure. Property sets are used primarily for inputs and outputs to business services.

User Interface Control Object Type

A user interface control object, or a *control*, is a visual object with which the user can directly interact, such as a button or text box. Control objects have properties that can be accessed by Siebel Browser Script. Because control objects are part of the user interface, they are not accessible through the Siebel COM Data Server, Siebel COM Data Control, Mobile Web Client Automation Server, Web Client Automation Server, or Siebel Java Data Bean.

Controls are the visible building blocks of applets. Each control is unique and exists only in a single applet. Only controls on the active (currently visible) applet are available to Siebel Browser Script. Each control has a unique name within its containing applet, but control names need not be unique across applets.

The control object supports getting and setting values and customized behavior when used in conjunction with Siebel Browser Script.

Summary of Exposed Object Types

Table 7 summarizes the names and types of objects exposed.

Table 7. Exposed Object Types for Each Siebel Object Interface

Object Type	Server Script	Browser Script	Siebel Web Client Automation Server	Siebel Mobile Web Client Automation Server	Siebel COM Data Control	Siebel COM Data Server	Siebel Java Data Bean
Applet	X	X					
Application	X	X	X	X	X	X	X
Business Component	X	X		X	X	X	X
Business Object	X	X		X	X	X	X
Business Service	X	X	X	X	X	X	X
Property Set	X	X	X	X	X	X	X
Control		X					

Siebel Object Interface Method Syntax

The following conventions are used in this guide to describe methods, arguments, and return values:

Syntax

ObjectType.MethodName(arg1[, arg2, ..., argn])

Argument	Description
<i>arg1</i>	Description of <i>arg1</i>
<i>arg2</i>	Description of <i>arg2</i>
.	.
.	.
<i>argn</i>	Description of <i>argn</i>

Returns

Description of the value returned by the method, if any.

The following conventions are used in the syntax diagram:

- *ObjectType* is the object type, for example BusComp (business component), for which the method is defined.
- *MethodName* is the name of the method that is being invoked. A method can be a subroutine that does not return a value, such as SetViewMode, or a function that returns a value, such as GetFieldValue.
- *arg1*, *arg2* can be a string, constant, integer, or object. If a method returns a value, the arguments must be enclosed in parentheses in Siebel VB. In Siebel eScript, enclose arguments in parentheses, even if they do not return a value.
- Brackets [] indicate an optional argument. In the description of the argument, the default value for the optional argument is indicated.

If a method does not return a value or if you are using it in a manner that does not return a value, then the arguments should not be enclosed in parentheses in Siebel VB.

When using COM Data Server, an additional argument, *errCode*, is always required as the last argument.

Usage Syntax

The usage syntax for a method may differ between Server Script and COM, as described in the text that follows. The description uses the following terms in addition to the ones defined previously:

- *ObjectReference* is a variable name of type *ObjectType* that points to the object on which the method is invoked.
NOTE: You do not need to explicitly specify an *ObjectReference* when you invoke a method on an object inside its event handler.
- *returnValue* is the value, if any, that is returned by the method. Some methods, such as GetBusComp, return an object of the type business component. Other methods return strings or integers.

Siebel VB

If there is a return value:

```
returnValue = ObjectReference.MethodName(arg1, arg2, ..., argn)
```

If there are no arguments:

```
returnValue = ObjectReference.MethodName
```

If there is no return value:

```
ObjectReference.MethodName arg1, arg2, ..., argn
```

Examples

```
acctName = acctBC.GetFieldValue("Name")
```

```
acctBC.SetViewMode AllView
```

Siebel eScript

If there is a return value:

```
returnVal ue = ObjectReference.MethodName(arg1, arg2, ..., argn);
```

If there are no arguments:

```
returnVal ue = ObjectReference.MethodName();
```

If there is no return value:

```
ObjectReference.MethodName(arg1, arg2, ..., argn);
```

Examples

```
acctName = acctBC.GetFi el dVal ue("Name");
```

```
acctBC.SetVi ewMode(AI I Vi ew);
```

Using parentheses () when none are required, or failing to use them when they are required, generates a Type Mismatch (error code 13) message. Another cause of this error code is using an incorrect quantity of arguments.

COM

The usage depends on the language being used to call the COM Interfaces. For Microsoft Visual Basic and equivalent languages, the usage is similar to that of Siebel VB, except that an error code is passed as the final argument in the case of the COM Data Control.

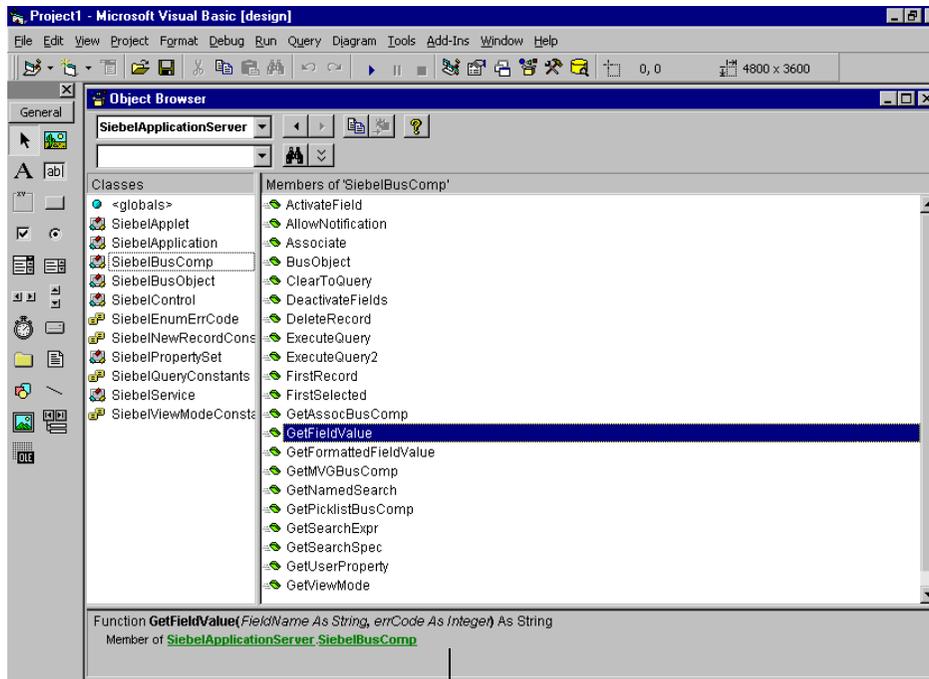
Getting Started with the Siebel Object Interfaces

The following sections contain directions for connecting to the COM Servers or COM Controls:

- ["Accessing Siebel COM Interfaces" on page 44](#)
- ["Accessing the Siebel Web Client Automation Server" on page 44](#)
- ["Accessing the Siebel Mobile Web Client Automation Server" on page 46](#)
- ["Instantiating the Siebel COM Data Server" on page 48](#)
- ["Instantiating the Siebel COM Data Control" on page 50](#)
- ["About Java Data Bean" on page 52](#)

Accessing Siebel COM Interfaces

To use the Siebel COM interfaces, you must set the EnableOLEAutomation flag in the CFG file to TRUE. For Siebel Interface methods through COM, use the object browser of your COM programming tool to determine the correct method syntax. Figure 5 displays an example of an object browser in Microsoft Visual Basic 5.0.



Syntax window

Figure 5. Determining Correct COM Syntax in Microsoft Visual Basic

Accessing the Siebel Web Client Automation Server

The Web Client Automation Server allows external applications to invoke business services and manipulate property sets. The Web Client Automation Server is implemented as a small COM object resident within the Web browser (IE 5.0 or greater). The Web Client Automation Server can be used with the Web client and the Mobile Web Client. The Web Client Automation Server is supported with the high interactivity mode only.

NOTE: You cannot invoke the Siebel Web Client Automation Server directly from the active Siebel instance. Trying to do so will cause an error.

To set up Microsoft Visual Basic to access the Siebel Web Client Automation Server

- 1 Start Microsoft Visual Basic.
- 2 Select Standard EXE.

- 3 Choose Project > References.
- 4 In the list box, highlight and check the SiebelHTML 1.0 Type Library.

The following example shows how to use Microsoft Visual Basic 6.0 with the Siebel Web Client Automation Server:

```

Private Sub Command1_Click()
' Siebel Application Object
Dim siebApp As SiebelHTMLApplication
Dim siebSvcs As SiebelService
Dim siebPropSet As SiebelPropertySet
Dim bool As Boolean
Dim errCode As Integer
Dim errText As String
Dim connStr As String
Dim lng As String
' Create The SiebelHTML Object
Set siebApp = CreateObject("Siebel.Desktop_Integration_Application.1")

If Not siebApp Is Nothing Then

' Create A New Property Set
Set siebPropSet = siebApp.NewPropertySet
If Not siebPropSet Is Nothing Then
Set siebPropSet = Nothing
Else
errCode = siebApp.GetLastErrorCode
errText = siebApp.GetLastErrorText
TheApplication().RaiseErrorText("Property Set Creation failed: " & errCode &
": " & errText)
End If

' Get A Siebel Service
Set siebSvcs = siebApp.GetService("Workflow Process Manager")
If Not siebSvcs Is Nothing Then
Set siebSvcs = Nothing
Else
errCode = siebApp.GetLastErrorCode
errText = siebApp.GetLastErrorText
TheApplication().RaiseErrorText("Could not Get Siebel Service: " & errCode &
": " & errText)
End If

Set siebApp = Nothing
End If
End Sub

```

Accessing the Siebel Mobile Web Client Automation Server

The Siebel Mobile Web Client Automation Server accesses the server object instantiated by the Siebel Business Application. When you have this object, you can obtain other Siebel objects and execute Siebel object interface methods through those objects. Calls made to the Siebel Mobile Web Client Automation Server are out of process. If you create a DLL that is run in process with the Siebel application, the calls made from the DLL to the Siebel Mobile Web Client Automation Server are still out of process.

The mechanism for instantiating COM servers depends on the programming tool or language being used.

If you use Microsoft Visual Basic 5.0 or later, the required support file must be in the same directory as the CFG file you are using for your Siebel application, or the Mobile Web Client Automation Server does not work. Take the following steps to make sure that you are referring to the correct library.

To set up Microsoft Visual Basic to access the Siebel Mobile Web Client Automation Server

- 1 Start Microsoft Visual Basic.
- 2 Select Standard EXE.
- 3 Choose Project > References.
- 4 In the list box, highlight (check) Siebel Mobile Web Client Automation Server. Near the bottom of the dialog box, note the directory in which the file Siebel.exe resides.

The following examples show how to use Microsoft Visual Basic 6.0 to interface with Siebel Mobile Web Client Automation Server.

The following is sample code for the Siebel Mobile Web Client Automation Server:

```
Private Sub Command1_Click()
    ' Siebel Application Object
    Dim siebApp As SiebelWebApplication
    Dim siebBusObj As SiebelBusObject
    Dim siebBusComp As SiebelBusComp
    Dim siebSvc As SiebelService
    Dim siebPropSet As SiebelPropertySet
    Dim bool As Boolean
    Dim errCode As Integer
    Dim errText As String
    Dim connStr As String
    Dim lng As String
    ' Create The Siebel WebApplication Object
    Set siebWebApp = CreateObject("TWSiebel.SiebelWebApplication.1")

    If Not siebWebApp Is Nothing Then

        ' Create A Business Object
        Set siebBusObj = siebWebApp.GetBusObject("Contact")
```

```

If Not sieBusObj Is Nothing Then
    ' Create a Business Component
    Set sieBusComp = sieBusObj.GetBusComp("Contact")

Else
    errCode = sieWebApp.GetLastErrCode
    errText = sieWebApp.GetLastErrText
    TheApplication().RaiseErrorText("Business Object Creation failed: " & errCode &
    " : " & errText);

End If

' Create A New Property Set
Set siePropSet = sieWebApp.NewPropertySet
If Not siePropSet Is Nothing Then
    Set siePropSet = Nothing

Else

    errCode = sieWebApp.GetLastErrCode
    errText = sieWebApp.GetLastErrText
    TheApplication().RaiseErrorText("Property Set Creation failed: " & errCode &
    " : " & errText);
End If

' Get A Siebel Service
Set sieSvcs = sieWebApp.GetService("Workflow Process Manager")
If Not sieSvcs Is Nothing Then
    Set sieSvcs = Nothing
Else
    errCode = sieWebApp.GetLastErrCode
    errText = sieWebApp.GetLastErrText
    TheApplication().RaiseErrorText("Could not Get Siebel Service: " & errCode & " : "
    & errText);
End If

If Not sieBusComp Is Nothing Then
    Set sieBusComp = Nothing
End If

If Not sieBusObj Is Nothing Then
    Set sieBusObj = Nothing
End If

    Set sieWebApp = Nothing
End If

End Sub

```

Instantiating the Siebel COM Data Server

Because the Siebel COM Data Server acts without the regular Siebel Business Application User Interface, you must use the Login method to set up your Data Server object. You cannot use methods that retrieve active Siebel objects, because there are no current active Siebel objects. You must instantiate your own Siebel objects. Calls made to the Siebel COM Data Server are in process.

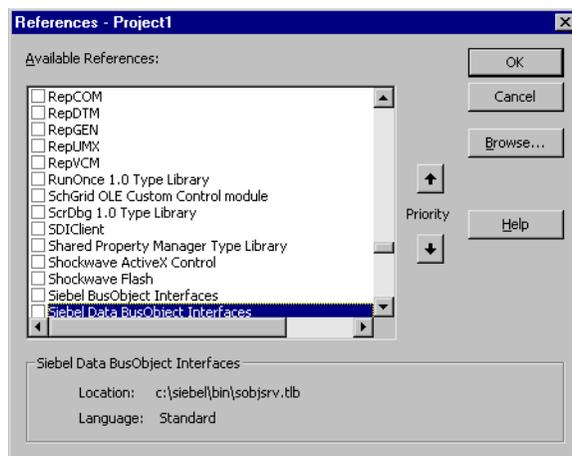
If you use Microsoft Visual Basic 5.0 or later, the required support file, `sojv.srv.tlb`, must be in the same directory as the CFG file you are using for your Siebel application, or the COM Data Server does not work. Take the following steps to make sure you are referring to the correct library.

NOTE: Do not run in the Microsoft VB Debug environment when communicating with the Siebel COM Data Server.

When using COM Data Server, the COM client cannot create multiple connections to the COM Server. The COM client must be restarted before another connection attempt can be successful. Use COM Data Control instead.

To set up Microsoft Visual Basic to access the Siebel COM Data Server

- 1 Start Microsoft Visual Basic.
- 2 Select Standard EXE.
- 3 Choose Project > References.
- 4 In the dialog box that appears, click on Siebel Data BusObject Interfaces, but do not check its checkbox. Near the bottom of the dialog box, note the directory in which the file `sojv.srv.tlb` resides, as shown in the following illustration.



- 5 Select the Siebel Data BusObject Interfaces checkbox, and then click OK.

The following is sample code for the Siebel COM Data Server. Make sure that the `DataSource` parameter in the CFG file is set to the database to which you want to connect.

NOTE: This code must be written and executed outside of Siebel Tools, for example in Microsoft Visual Basic.

```

Private Sub Command1_Click()
' Siebel Application Object
Dim siebApp As Siebel Application
Dim siebBusObj As Siebel BusObject
Dim siebBusComp As Siebel BusComp
Dim siebSvcs As Siebel Service
Dim siebPropSet As Siebel PropertySet
Dim bool As Boolean
Dim errCode As Integer
Dim errText As String
Dim connStr As String
Dim lng As String
Dim cfgLoc As String

ChDrive "D"
ChDir "D:\Server\siebsrvr\bin"

' Create The COM Data Server Object
Set siebApp = CreateObject("Siebel DataServer.ApplicationObject")

If Not siebApp Is Nothing Then

''' COM Data Server
cfgLoc = " D:\Server\siebsrvr\bin \ENU\siebel.cfg, ServerDataSrc"
siebApp.LoadObjects cfgLoc, errCode
If errCode = 0 Then
' Log Into the Siebel Server
siebApp.Login "username", "password", errCode
If errCode = 0 Then
' Create A Business Object
Set siebBusObj = siebApp.GetBusObject("Contact", errCode)
If errCode = 0 Then
' Create a Business Component
Set siebBusComp = siebBusObj.GetBusComp("Contact")
Else
errText = siebApp.GetLastErrorText
siebApp.RaiseErrorText("Business Object Creation failed: " & errCode & " :: " &
errText);
End If

' Create A New Property Set
Set siebPropSet = siebApp.NewPropertySet(errCode)
If errCode = 0 Then
Set siebPropSet = Nothing
Else
errText = siebApp.GetLastErrorText
siebApp.RaiseErrorText("Property Set Creation failed: " & errCode & " :: " &
errText);
End If

' Get A Siebel Service
Set siebSvcs = siebApp.GetService("Workflow Process Manager", errCode)
If Not siebSvcs Is Nothing Then
Set siebSvcs = Nothing
Else

```

```
        errText = siebApp.GetLastErrorText
        siebApp.RaiseErrorText("Could not Get Siebel Service: " & errCode & "::~" &
errText);
    End If

    If Not siebBusComp Is Nothing Then
        Set siebBusComp = Nothing
    End If
    If Not siebBusObj Is Nothing Then
        Set siebBusObj = Nothing
    End If
Else
    errText = siebApp.GetLastErrorText
    siebApp.RaiseErrorText("Logi n Fai led: " & errCode & "::~" & errText);
    End If
Else
    errText = siebApp.GetLastErrorText
    siebApp.RaiseErrorText("Load Objects Fai led: " & errCode & "::~" & errText);
    End If

Set siebApp = Nothing

End If

End Sub
```

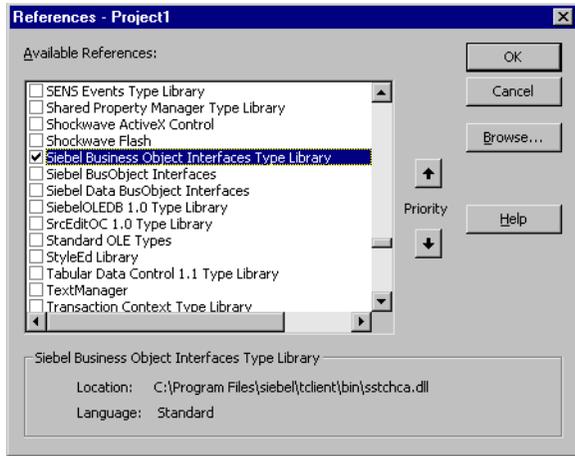
Instantiating the Siebel COM Data Control

To use Siebel Interface methods with the Siebel COM Data Control, use the object browser of your Siebel COM Data Control programming tool to determine the correct method syntax.

To set up Microsoft Visual Basic to access the Siebel COM Data Control Interface

- 1 Be sure you have installed the Siebel COM Data Control. Read "[Installing Siebel Object Interfaces](#)" on page 37.
- 2 Start Microsoft Visual Basic.
- 3 Select Standard EXE.
- 4 Choose Project > References.

- In the dialog box that appears, select the Siebel BusObject Interfaces Type Library checkbox.



- Click OK to open the Object Browser, and then verify that you can see the Siebel objects.

To instantiate and use the Siebel COM Data Control, you must use the CreateObject and Login methods. You cannot use methods that retrieve active Siebel objects, because there are no currently active Siebel objects. You must instantiate your own Siebel objects. Calls made to the Siebel COM Data Control are also in-process.

The following is sample code for the Siebel COM Data Control:

```

Sub CreateDataControl ()
Dim errCode As Integer
Set Siebel Application = CreateObject("Siebel DataControl . Siebel DataControl . 1")
Siebel Application.Login "host=""siebel://hostname/EnterpriseServer/AppObjMgr""",
"CCONWAY", "CCONWAY"
errCode = Siebel Application.LastErrorCode()
If errCode <> 0 Then
    ErrText = Siebel Application.LastErrorText
    TheApplication().RaiseErrorText(ErrText);
    Exit Sub
End If
set OpptyB0 = Siebel Application.GetBusObject("Opportunity", errCode)
set OpptyBC = OpptyB0.GetBusComp("Opportunity", errCode)
End Sub
    
```

See [Table 20 on page 75](#) for values to substitute for the placeholders in the login string.

The following sample code instantiates the COM Data Control from a server-side ASP script.

NOTE: The symbols `<%` and `%>` are used within HTML script to set off an ASP script.

```

<%
Dim Siebel Application, B0, BC, ConnStr, Logstat
Dim strLastName, strFirstName, errCode, errText

Set Siebel Application = CreateObject("Siebel DataControl . Siebel DataControl . 1")
    
```

```

' Test to see if object is created
If IsObject(Siebel Application) = False then
    Response.Write "Unable to initiate Siebel Session.
Else
    connStr = "host=" & Chr(34) & "siebel.tcpip.none.none://<hostname>: 2321/
EntServer/ObjMgr" & Chr(34) & " lang=" & Chr(34) & "<lang>" & Chr(34)
    Logstat = Siebel Application.Login ConnStr, "SADMIN", "SADMIN"

    response.write("Login Status: " & Logstat)
    Set BO = Siebel Application.GetBusObject("Employee")
    Set BC = BO.GetBusComp("Employee")
End If

%>

```

For more information on instantiating the Siebel COM Data Control, read [“Connect String” on page 74](#).

About Java Data Bean

Siebel Java Data Bean provides users with a native Java interface to access Siebel Object Manager. It provides functional access to the Siebel applications for both reading and writing data. Siebel Data Bean is a set of Java libraries built using J2SE Development Kit (JDK). Users can incorporate these libraries to build Java Applications, Applets, Servlets, JSPs, or Enterprise Java Beans into their Java-based applications. For more information on Java, refer to <http://java.sun.com>.

A Java client that uses the Java Data Bean interface to connect to the Siebel server needs several JAR files that provide the objects and methods of the Siebel Object Interface to the Java language. The JAR files of the Java Data Bean interface are specific to the Siebel application version with which they were delivered. Do not use these JAR files with other versions of the Siebel server.

NOTE: Before compilation or execution, add the Siebel JAR files (*Siebel.jar* and *SiebelJI_<lang>.jar*) to the CLASSPATH.

Supported Platforms and JDKs

Refer to *Siebel System Requirements and Supported Platforms* on Oracle Technology Network.

Instantiating the Java Data Bean

To instantiate and use the Siebel Java Data Bean, you must instantiate a new SiebelDataBean Java object and call its login method. You cannot use methods that retrieve active Siebel objects, because there are no current active Siebel objects. You must instantiate your own Siebel objects.

The following is sample code for the Siebel Java Data Bean:

```

import com.siebel.data.*;
import com.siebel.data.SiebelException;

```

```

public class DataBeanDemo
{
    private SiebelDataBean m_dataBean = null;
    private SiebelBusObject m_busObject = null;
    private SiebelBusComp m_busComp = null;

    public static void main(String[] args)
    {
        DataBeanDemo demo = new DataBeanDemo();
    }

    public DataBeanDemo()
    {
        try
        {
            // instantiate the Siebel Data Bean
            m_dataBean = new SiebelDataBean();

            // log in to the server
            // SiebelServerhost = the name or IP address of your Siebel Server
            // SCBPort = listening port number for the SCBroker component (default 2321)
            m_dataBean.login("Siebel://SiebelServerhost:SCBPort/enterpriseServer/
                AppObjMgr_enu", CCONWAY, CCONWAY, "enu");

            // get the business object
            m_busObject = m_dataBean.getBusObject("Opportunity");

            // get the business component
            m_busComp = m_busObject.getBusComp("Opportunity");

            // log off
            m_dataBean.logout();
        }

        catch (SiebelException e)
        {
            System.out.println(e.getMessage());
        }
    }
}

```

NOTE: If you are using a single sign-on (SSO) with Java Data Bean, you must use the login ID of an employee as the username and the value of the trust token (the TrustToken parameter in the application's CFG file) in the connect string to log into the server. For more information, see [“Connect String” on page 74](#).

Java Data Bean and the siebel.properties File

The siebel.properties file, which is located in your classpath, can be used to provide default parameters for client applications connecting to Siebel applications using the Java Data Bean.

Table 8 shows the properties in the siebel.properties file.

Table 8. Properties in the siebel.properties File

Property Type	Property	Description
Siebel Connection Manager	siebel.conmgr.txtimeout	Indicates the transaction timeout (in milliseconds). Defaults to 600000 = 10 minutes. The maximum value is 2,147,483,647 ms (approximately 25 days).
	siebel.conmgr.poolsize	Indicates the connection pool size. Connection pool maintains a set of connections to a specific server process. Defaults to 2. Max connection pool size is 500.
	siebel.conmgr.sesstimeout	Indicates the transaction timeout (in seconds) on the client side. Defaults to 2700 = 45 minutes. The maximum value is 2,147,483,647 s (approximately 68 years).
	siebel.conmgr.retry	Indicates the number of open session retries. Defaults to 3.
	siebel.conmgr.jce	Indicates the usage of Java Cryptography Extension (JCE). For more information on JCE, see “Encrypting Communication Between JDB and Siebel Server” on page 56. The value is 1 if using JCE and 0 if not using JCE.
Siebel generated code for Java EE Connector Architecture (JCA) and Java Data Bean (JDB)	siebel.connection.string	Specifies the Siebel connection string.
	siebel.user.name	Specifies the user name to be used for logging in to Object Manager.
	siebel.user.password	Specifies the password to be used for logging in to Object Manager.
	siebel.user.language	Specifies the user's preferred language.
	siebel.user.encrypted	Specifies whether the username and password is encrypted.
	siebel.jdb.classname	Specifies the default JDB classname
Java System Properties	file.encoding	Indicates the codepage on the client side. For example, cp1252, utf8, unicodeBig, cp942.

NOTE: Java System Properties are System Properties, not Siebel Properties.

The following is a sample siebel.properties file:

```

siebel . connecti on. stri ng = si ebel . tcp i p. rsa. none: //test. si ebel . com/si ebel /
sseobj mgr_enu/test

siebel . user. name           = User1

siebel . user. password      = password

siebel . user. language     = enu

siebel . user. encrypted    = fal se

siebel . conmgr. txti meout  = 3600

siebel . conmgr. pool si ze  = 5

siebel . conmgr. sessti meout = 300000

siebel . conmgr. retry      = 5

siebel . conmgr. j ce       = 1
    
```

Java Data Bean and Codepage Support

For the client and server to communicate correctly, the codepage of the Siebel server and client must be the same. If the client and server default codepages cannot be the same, you can alter the client codepage by setting the system property `file.encoding` to the proper codepage. You can set the system property for the entire JVM (for example, `java -Dfile.encoding=ascii <java_application>` on the command line or with the use of the environment variable; reference your particular JVM for details) or for the given Java component by adding the following line to your Java component. `System.setProperty("file.encoding", CodePageValue);`

Table 9 lists codepage mappings for JDB.

Table 9. Codepage Mappings for Java Data Bean

Java Value	Siebel Value
ascii	1
cp1252	1252
iso8859_1	1252
iso8859-1	1252
unicodebig	1201
unicodelittle	1200
utf8	65001
big5	950

Table 9. Codepage Mappings for Java Data Bean

Java Value	Siebel Value
cp942	932
cp942c	932
cp943	932
cp943c	932
cp949	949
cp949c	949
cp950	950
cp1250	1250
cp1251	1251
cp1253	1253
cp1254	1254
cp1255	1255
cp1256	1256
cp1257	1257
cp1258	1258
gbk	936
ms874	874
ms932	932
ms936	936
ms949	949
ms950	950
sjis	932
tis620	874

Encrypting Communication Between JDB and Siebel Server

Siebel Business Applications supports the encryption of communication between the Java Data Bean (JDB) and the Siebel Server. Preconfigured, it is possible to encrypt communication between the JDB and the Siebel Server using RSA's encryption libraries. For more information on supported platforms, see *Siebel System Requirements and Supported Platforms* on Oracle Technology Network.

To enable encryption support between the Siebel Server and a component built using the Java Data Bean

- 1 Enable encryption in the corresponding Object Manager Server Component. Please refer to *Siebel System Administration Guide* for details on how to enable encryption within an Object Manager Server Component.
- 2 Set the encryption parameter of the connect string in the Java Data Bean to `rsa`, which enables encryption support. For example, `si ebel . tcpip . rsa . none : // <gateway> / <enterprise> / <ObjMgr>`

After completing the two previous steps, communications between the Java Data Bean and the Siebel Server is encrypted.

To support encryption on platforms not supported by the RSA libraries, Oracle supports the Java Cryptography Extension (JCE) v1.2.1 specification. JCE provides a framework and implementations for encryption, key generation and key agreement, and Message Authentication Code (MAC) algorithms. JCE is designed so that other qualified cryptography libraries can be used as service providers. For more information on JCE, see <http://java.sun.com/j2se/1.4.2/docs/guide/security/jce/JCERefGuide.html>.

To enable JCE support

- 1 Download and install the JCE v1.2.1 software, policy files and documentation. Please refer to <http://java.sun.com/products/jce/index-121.html> for additional information on obtaining, installing and configuring your JVM for use with JCE. Please note that the Java Data Bean only supports static specification of JCE providers.
- 2 Modify the `java.securi ty` file to specify your provider of choice and make sure that the necessary provider JAR files are included in the CLASSPATH.
- 3 Set the `si ebel . conmgr . jce` property in the `si ebel . properti es fi le` to 1.

After completing the three previous steps, communications between the Java Data Bean and the Siebel Server is encrypted.

Login Errors

The Siebel Data Bean may return a login error including the following text:

```
Siebel Exception thrown invoking Login Method. Code--1. Message-Login request 75 was abandoned after 2ms connection
```

The root cause of this error can be one of the following:

- OM or OM process down
- Hardware reset (OM hardware, router, switch, and so on)
- OS settings or OS networking issue
- Network failure
- NAT timeout

Siebel Object Interface Methods

Several groups of methods are available to Siebel object interface programmers. They are organized according to functional capabilities:

- **Locating objects.** These methods allow the user to locate instances of objects so that they can be manipulated by other methods.
- **Accessing business components.** These methods provide the ability to access and modify data within Siebel applications.
- **Navigation.** These methods provide a way to control the flow of the application as it is presented to the user by explicitly setting the focus of the application to the desired view, applet, or control. These methods are useful only when accessing the Siebel object interfaces from Siebel VB and when accessing Siebel as a Mobile Web Client Automation Server. When Siebel is accessed through the COM Data Control, COM Data Server, or Java Data Bean, no Siebel user interface is present.
- **Manipulating controls.** These methods get or set the value of a control. These methods are useful only when accessing controls from Browser Script.
- **Global state properties and functions.** These methods get information on the current state.
- **User interaction.** These methods provide user interface elements similar to those in standard Windows programs.
- **Tracing.** These methods control debug tracing.

Related Topics

[“Locating Objects”](#)

[“Accessing Business Components” on page 59](#)

[“Navigation Methods” on page 64](#)

[“User Interaction Methods” on page 64](#)

[“Global State Properties and Functions” on page 64](#)

[“Tracing Methods” on page 65](#)

Locating Objects

This set of methods allows the user to locate instances of objects within Siebel applications so they can be used by other methods. Active objects are instances of objects that currently have focus. The active control is the control that currently has the user interface focus. The active applet is the applet that contains the active control. The active business component is the business component associated with the active applet. When located, an object can be used or manipulated by Siebel object interfaces.

For locating objects, use the following methods:

- [“ActiveBusObject Method” on page 122](#)
- [“ActiveMode Method” on page 96](#)
- [“ActiveViewName Method” on page 124](#)

- [“BusComp Method” on page 294](#)
- [“BusObject Method” on page 98](#)
- [“GetBusObject Method” on page 131](#)
- [“GetValue Method” on page 313](#)
- [“Name Method” on page 296](#)
- [“TheApplication Method” on page 322](#)

Accessing Business Components

The Siebel business component object (BusComp) presents a two-dimensional grid of data values much like a table in a relational database. The named fields are analogous to columns in the database table, and the records are analogous to rows. Developers use business components to read data, manipulate it, and write it back into the Siebel database. Business components manage the complexities of multiple-table access to the database and access different types of databases.

Many methods are available to use on business components for getting and setting the values of their fields. Record operations can be performed programmatically by using business component access methods.

These operations invoke Siebel VB or Siebel eScript extension routines. For example, if you have created a Siebel VB or Siebel eScript script that is tied to the NewRecord event on a business component, the script is processed whenever NewRecord in that business component is processed, even if the NewRecord method was called by another Siebel VB or Siebel eScript script or was called from the Siebel object interfaces. Note that events are available only with Siebel VB or Siebel eScript.

Adding and Inserting Records

In the context of a many-to-many relationship, you can use Siebel VB or Siebel eScript to mimic either the Add New Record command, which associates a new child record, or the Insert Record command, which creates a new record in the child business component. To associate a new child record, use GetAssocBusComp and the Associate method. To create a new record in the child, use the NewRecord method in a child business component, or use GetMVGBusComp and the NewRecord method.

Committing Records to the Database

A commit is performed under the following circumstances:

- Explicitly by issuing BusComp.WriteRecord
- Navigating away from the current record by any of the following methods:
 - BusComp.Associate
 - BusComp.DeleteRecord (DeleteRecord commits automatically, because it moves the cursor to another record.)

- BusComp.FirstRecord
- BusComp.LastRecord
- BusComp.NextRecord
- BusComp.PreviousRecord
- Closing a BusComp (Set BusComp = Nothing)

Scenarios for Business Components

The two scenarios that follow involve the use of Siebel scripts to work with business components.

The first example shows how to invoke methods on an existing business component when an event is triggered. In this example, the VB script is in the SetFieldValue event of a business component:

```
Sub BusComp_SetFieldValue (FieldName As String)
  Dim desc As String
  Dim newDesc As String

  TheApplication.TraceOn "c:\temp\trace.txt", "Allocation", "All"
  If FieldName = "Type" Then

    newDesc = "Any valid string which contains the
              new description."
    desc = Me.GetFieldValue("Description")
    TheApplication.Trace "The previous description is " & desc
    Me.SetFieldValue "Description", newDesc
    TheApplication.Trace "The new description is " & newDesc

  End If
  TheApplication.TraceOff

End Sub
```

The next example shows how to instantiate your own BusObject and BusComp. This example uses the PreSetFieldValue event of the Opportunity BusComp. If the Sales Stage is updated to "07 - Verbal Agreement," a decision maker must be associated with the opportunity. Otherwise, it is reset to the previous value. The Contacts for the selected opportunity are searched to see if any vice president or president is associated with the opportunity.

The logical flow of instantiating your own BusComp object is as follows:

- 1 GetBusComp
 - 2 SetViewMode (optional, unless you want to change the view mode from the default)
 - 3 ActivateField
 - 4 ClearToQuery
 - 5 SetSearchSpec or SetSearchExpr
- NOTE:** It is not necessary to activate fields on which search specs and search expressions are set, unless the fields are also referenced by the GetFieldValue or SetFieldValue method.
- 6 ExecuteQuery

The following example shows how to instantiate objects in eScript:

```
function BusComp_PreSetFieldValue (FieldName, FieldValue)
{
    var ReturnValue = ContinueOperation;
    switch (FieldName)
    {
        case "Sales Stage":
            if (FieldValue == "08 - Negotiation")
            {
                //Do not allow the sales cycle to be changed to this value
                //if the decision-maker is not a contact for the Oppty.
                //Decision-maker defined as anyone with rank VP and above
                var oBusObj;
                var sRowId;
                var iViewMode;
                sRowId = this.GetFieldValue("Id");
                iViewMode = this.GetViewMode();
                oBusObj = TheApplication().ActiveBusObject();
                //Because parent-child relationship is established when
                //BusComps are instantiated from the same BusObject.
                //The ContactBC has all contact records for the
                //current Oppty record.
                ContactBC = oBusObj.GetBusComp("Contact");
                with (ContactBC)
                {
                    ClearToQuery();
                    setSearchSpec("Job Title", "*VP*");
                    ExecuteQuery(ForwardOnly);
                    if (FirstRecord())
                    {
                        TheApplication().RaiseErrorText("Found a decision maker");
                    }
                    else
                    {
                        ReturnValue = ContinueOperation;
                    }
                }
                ContactBC = null;
                oBusObj = null;
            }
            break;
    }
    return(ReturnValue);
}
```

The following example shows how to instantiate objects in Siebel VB:

```
Function BusComp_PreSetFieldValue (FieldName As String, FieldValue As String) As Integer
Dim ReturnValue As Integer
ReturnValue = ContinueOperation
Select Case FieldName
    Case "Sales Stage"
```

```

If FieldValue = "08 - Negotiation" Then
    ' Do not allow the sales cycle to be changed to this value
    ' if the decision-maker is not a contact for the Oppty.
    ' Decision-maker defined as anyone with rank VP and above
    Dim oBusObj As BusObject
    Dim sRowId As String
    Dim iViewMode As Integer
    sRowId = GetFieldValue("Id")
    iViewMode = GetViewMode
    Set oBusObj = TheApplication.ActiveBusObject

    ' Because parent-child relationship is established when
    ' BusComps are instantiated from the same BusObject.
    ' The ContactBC has all contact records for the
    ' current Oppty record.
    Set ContactBC = oBusObj.GetBusComp("Contact")
    With ContactBC
        .ClearToQuery
        .SetSearchSpec "Job Title", "*VP*"
        .ExecuteQuery ForwardOnly
        If (.FirstRecord = 1) Then
            TheApplication.RaiseErrorText "Found a decision maker"
        Else
           RetVal = ContinueOperation
        End If
    End With
    Set ContactBC = Nothing
    Set oBusObj = Nothing
End If
End Select
BusComp_PreSetFieldValue = RetValue
End Function

```

Methods for Accessing Business Components

To access business components, use the following methods:

- ["ActivateField Method" on page 183](#)
- ["ActivateMultipleFields Method" on page 184](#)
- ["Associate Method" on page 186](#)
- ["ClearToQuery Method" on page 189](#)
- ["CountRecords Method" on page 190](#)
- ["DeactivateFields Method" on page 191](#)
- ["DeleteRecord Method" on page 193](#)
- ["ExecuteQuery Method" on page 193](#)
- ["ExecuteQuery2 Method" on page 195](#)
- ["FirstRecord Method" on page 196](#)

- "FirstSelected Method" on page 198
- "GetAssocBusComp Method" on page 200
- "GetFieldValue Method" on page 201
- "GetFormattedFieldValue Method" on page 203
- "GetMultipleFieldValues Method" on page 206
- "GetMVGBusComp Method" on page 207
- "GetNamedSearch Method" on page 208
- "GetPicklistBusComp Method" on page 209
- "GetSearchExpr Method" on page 211
- "GetSearchSpec Method" on page 212
- "GetSortSpec Method" on page 212
- "GetUserProperty Method" on page 213
- "GetViewMode Method" on page 214
- "InvokeMethod Method" on page 215
- "LastRecord Method" on page 224
- "NewRecord Method" on page 225
- "NextRecord Method" on page 227
- "ParentBusComp Method" on page 228
- "Pick Method" on page 229
- "PreviousRecord Method" on page 231
- "RefineQuery Method" on page 232
- "SetFieldValue Method" on page 235
- "SetFormattedFieldValue Method" on page 237
- "SetMultipleFieldValues Method" on page 238
- "SetNamedSearch Method" on page 240
- "SetSearchExpr Method" on page 242
- "SetSearchSpec Method" on page 244
- "SetSortSpec Method" on page 248
- "SetViewMode Method" on page 251
- "UndoRecord Method" on page 254
- "WriteRecord Method" on page 255

Navigation Methods

The navigation methods set the focus for user interaction to the named view. [Table 10](#) identifies the navigation methods. Cannot be invoked from Browser Script.

NOTE: Properties for Siebel objects such as business component applets and business components are stored in the repository and cannot be changed at run time using Siebel VB methods.

Table 10. Navigation Methods

Method
"InvokeMethod Method" on page 100
"GotoView Method" on page 139

User Interaction Methods

The following methods allow the Siebel extension routines to interact directly with the user through traditional user interface techniques. These methods are similar to the standard procedures available to Windows programs. User interaction methods are listed in [Table 11](#).

Table 11. User Interaction Methods

Method
"RaiseError Method" on page 158
"RaiseErrorText Method" on page 159

Global State Properties and Functions

The application object provides a set of properties and functions that return information about the current state. This information is useful when you are processing rows of data or generating query criteria. Global state methods are listed in [Table 12](#).

Table 12. Global State Methods

Method
"CurrencyCode Method" on page 127
"EnableExceptions Method" on page 129
"GetLastErrCode Method" on page 133
"GetLastErrText Method" on page 134
"LoginId Method" on page 150

Table 12. Global State Methods

Method
"LoginName Method" on page 151
"LookupMessage Method" on page 153
"PositionName Method" on page 157
"SetPositionId Method" on page 161
"SetPositionName Method" on page 162

Tracing Methods

Table 13 lists Application event methods for controlling debug tracing.

Table 13. Debug Tracing Methods

Method
"Trace Method" on page 169
"TraceOff Method" on page 171
"TraceOn Method" on page 172

Variable Scoping for Siebel Script Variables

Three levels of scope exist for Siebel variables:

- ["Local Variables" on page 65](#)
- ["Module Variables" on page 66](#)
- ["Global Variables" on page 67](#)

Local Variables

Local variables defined within a Siebel script are the lowest level of variable scoping. These variables are declared using the Dim statement in Siebel VB or the var statement in Siebel eScript, and their values are accessible only within the script in which they were defined.

The following example is in Siebel eScript:

```
function WebApplet_Load ()
{
    var LocalStr;
}
```

The following example is in Siebel VB:

```
Sub WebApplet_Load  
    Dim LocalStr As String  
End Sub
```

Module Variables

Module variables defined in the (general) (declarations) section of a Siebel object (such as an applet or business component) are the next level of variable scoping. These variables are available as long as the object is instantiated and the values are accessible to scripts in the same object or module. Use Dim statements (for VB) or var statements (for eScript) in the (general) (declarations) section to declare module variables.

The following example is in Siebel VB:

```
(general )  
(declarations)  
Dim ContactID as String
```

Code in the VB Editor in the (general) (declarations) section is illustrated in [Figure 6](#).

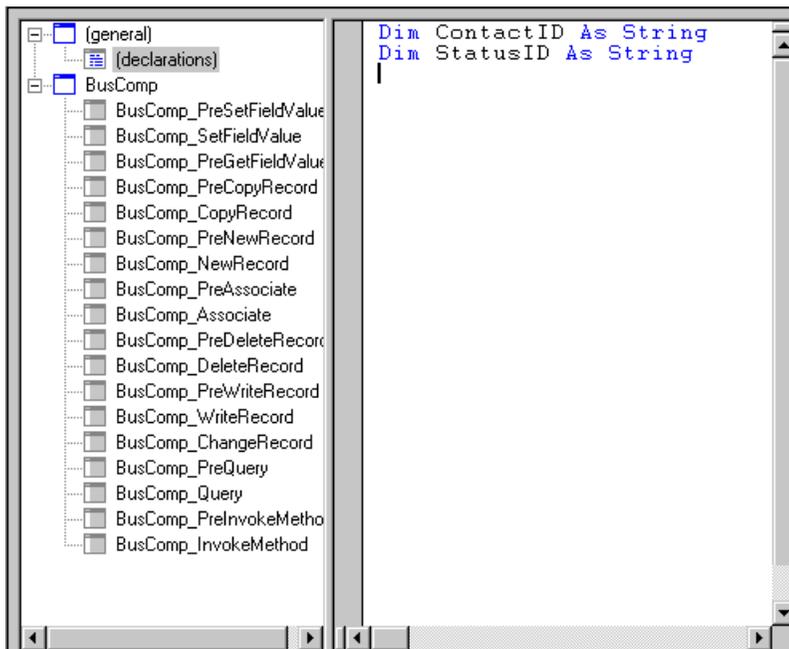


Figure 6. Declarations in the (general) (declarations) Section

Global Variables

The global variables exist at the highest level. You must declare these variables in every module that needs to access their values. Use the Global statement to declare these variables. Avoid using global variables to store Siebel objects such as BusComp and BusObject. If you need to store Siebel objects such as BusComp and BusObject, always set these variables to Nothing whenever the objects are no longer required, or at least in the Application_Close event. Failure to do so may cause memory problems because the objects being referenced cannot be freed from memory while they are still being referenced. If you must create a global variable for a business component, make sure there is a global variable for the business object. Otherwise, the business component is out of scope.

The following example is in Siebel eScript:

```
TheAppl i cati on().gVar = "some val ue";
```

Siebel Object Interface Events and Siebel Extension Events

Selected events within the Siebel applications allow the association of extension routines that extend the base behavior of the application. These routines are available in Browser and Server Script. When the Siebel application fires or activates the event, the user-specified procedures are invoked along with the standard Siebel procedures. The event names listed under [“Siebel Business Component Events” on page 71](#) refer to the tag or entry point used to tie the extension routine to a particular action or event.

The following topics cover the object interface events and extension events:

- [“Event Method Syntax” on page 68](#)
- [“How Your Script Affects Program Flow” on page 68](#)
- [“Using Tracing to Find Out When Events Occur” on page 71](#)
- [“Siebel Business Component Events” on page 71](#)
- [“Applet Events” on page 73](#)
- [“Application Events” on page 74](#)
- [“Connect String” on page 74](#)
- [“Error Handling” on page 77](#)

Each topic provides the following information:

- The syntax for using the event.
- A brief description of the event.
- A checklist that indicates which interface environments support the event.

Event Method Syntax

The method's syntax uses the following form:

- *ObjectReference_EventName (arguments) As RetValue.*
- *ObjectReference* is the variable name of the object on which the event is invoked.
- *EventName* is the event that is being invoked.

The events exposed can be classified into preoperation events or postoperation events. The preoperation events occur before the standard Siebel operation. An example of a preoperation event is PreDeleteRecord. This event occurs before a DeleteRecord event occurs.

The corresponding postoperation event is DeleteRecord. This event is fired *after* the PreDeleteRecord operation has been executed.

You can use preoperation events to alter standard Siebel behavior. For example, the PreDeleteRecord event can be used to perform additional, customer-specific validation on the record about to be deleted, and if the validations fail, the DeleteRecord operation can be canceled.

Postoperation events are useful when the event relies on data that may have been updated in the course of executing the standard Siebel event.

How Your Script Affects Program Flow

For every Siebel operation event handler, there is also a preoperation event handler. Generally, scripts are placed in the preoperation event. You can alter the effect of an event by attaching a script to the preoperation event handler. The events with the most important effects are the PreInvokeMethod events. In a PreInvokeMethod event, you can call a method that substitutes for the internal Siebel code.

You can change the outcome of an event by specifying the return value on the preoperation events. The standard return value for preoperation events is ContinueOperation, which tells the calling Siebel object to continue processing the remaining operations associated with the event.

If you wish to create an alternative to an existing routine, change the return value in your custom event handler to CancelOperation. This tells the Siebel application to cancel the remaining operations associated with the event. If, for example, the validation in the PreDeleteRecord event fails, set the return value for the event to CancelOperation. If you want to preprocess before the default event method executes, use the return value ContinueOperation.

The post-event handler is rarely scripted, but you may use it for such post-operation events as posting a notice to a log when the event completes successfully.

CAUTION: You must use CancelOperation with custom methods. If you do not, the code flow would continue to the C++ code, which does not have the ability to handle the custom method, and would therefore throw an "Unknown method name" error. For more information on the differences in handling standard and custom methods, see [Figure 7 on page 291](#).

The following eScript example sets up a validation routine in which a specific field is queried to determine whether the event should fire:

```

function BusComp_PreSetFieldValue (FieldName, FieldValue)
{
    var iReturn = ContinueOperation;
    //Routine to check if a quote discount > 20%
    //if it is, notify user and cancel the operation
    var varvalue;
    var msgtext;
    if (FieldName == "Discount")
    {
        varvalue = ToNumber(FieldValue);
        if (varvalue > 20)
        {
            msgtext = "Discounts greater than 20% must be approved";
            TheApplication().RaiseErrorText(msgtext); // cancels execution
        }
        else
        {
            iReturn = ContinueOperation;
        }
    }
}

```

The following Siebel VB example sets up a validation routine in which a specific field is queried to determine whether the event should fire:

```

Function BusComp_PreSetFieldValue (FieldName As String,
                                   FieldValue As String) As Integer
' Routine to check if a quote discount > 20%
'     if it is, notify user and cancel the operation
Dim value as Integer
Dim msgtext as String
If FieldName = "Discount" then
    value = Val (FieldValue)
    If value > 20 then
        msgtext = "Discounts greater than 20% must be approved"
        TheApplication.RaiseErrorText msgtext ' cancels execution
    Else
        BusComp_PreSetFieldValue = ContinueOperation
    End if
End If
End Function

```

Note the logical structure of this routine:

```

If (condition is true)
    [perform custom routine]
    [cancel operation by raising error text]
Else
    returnValue = ContinueOperation
End If

```

Within this structure, the custom routine is executed only if the condition is true. If the condition is true, the custom routine substitutes for the built-in routine. If it is not true, the built-in routine is executed because the event handler returns ContinueOperation.

The following alternative structure is also acceptable:

```
returnVal ue = Conti nueOperati on
If (condi ti on i s true)
    [perform custom routi ne]
End If
```

Note that in PreInvokeMethod events, the condition should always be a test for the method name; for example in Siebel eScript:

```
i f (method Name == "PushOppor tunit y")
```

If more than one method may be invoked, you may find it more efficient to use a Select structure (in Siebel VB) or a switch structure (in Siebel eScript). The following example is in Siebel VB:

```
Dim iReturn As Integer
iReturn = Conti nueOperati on
Select Case method Name
    Case "PushOppor tunit y"
        [custom routi ne]
        iReturn = Cancel Operati on
    Case "Stage3"
        [custom routi ne]
        iReturn = Cancel Operati on
End Select
object_PreI nvokeMethod = iReturn
```

The following example is in Siebel eScript:

```
var iReturn;
swi tch (method Name)
{
    case "PushOppor tunit y":
        //[custom routi ne]
        iReturn = Cancel Operati on;
        break;
    case "Stage3":
        //[custom routi ne]
        iReturn = Cancel Operati on;
        break;

    defaul t:
        iReturn = Conti nueOperati on;
}
return (iReturn);
```

To make your code easier to read and maintain, you can create the custom routines as subprograms or functions in the (general) (declarations) section.

Unique Names

Make sure that every function you create has a unique name. If two functions on the same view have the same name, results are unpredictable. Good coding practice is to make sure all such names are unique. Consider using a naming convention, such as using the view name as a function name prefix.

Using Tracing to Find Out When Events Occur

There is no simple way to determine when various events occur, as many different events can occur when a view becomes current or when an object is invoked. To find out the exact order of events, enable tracing when the application starts (Application_Start event). For Siebel eScript the syntax resembles the following:

```
TheApplication().TraceOn("filename, type, selection");
TheApplication().TraceOn(" Event_Name has fired. ");
```

For Siebel VB the syntax resembles the following:

```
TheApplication.TraceOn "filename, type, selection"
TheApplication.Trace "Event_Name has fired. "
```

When the preceding code has been placed on the Application_Start event, place a line of code of the following form in each event handler (including the Pre-event handlers) for the object, including insert, delete, write, business component, and any others that may apply.

```
TheApplication.Trace "Event_Name fired. "
```

Then perform some simple inserts, updates, and deletes, and make a note of each message as it appears. You then have a list of the order in which events fire on that view or for that object.

Siebel Business Component Events

Events can be invoked from data operations on business components. These are defined on a per-business component basis. Events can be invoked before or after the specified standard behavior.

The only means of trapping modifications to a multi-value field is through the underlying MVG business component. If the multi-value field is modified without popping up the MVG applet, then the PreSetFieldValue and SetFieldValue events for those fields are not triggered. The only way in which the PreSetFieldValue and SetFieldValue events are fired for a multi-value field is if the field is updated within the MVG applet. If the user makes a change to the multi-value field through the MVG applet, then only the events on the MVG business component are called. No events on the parent business component are called.

Table 14 and Table 15 list BusComp events.

Table 14. Server Side BusComp Events

Method
"BusComp_Associate Event" on page 257
"BusComp_ChangeRecord Event" on page 258
"BusComp_PreCopyRecord Event" on page 262
"BusComp_CopyRecord Event" on page 259
"BusComp_InvokeMethod Event" on page 261
"BusComp_NewRecord Event" on page 261
"BusComp_PreAssociate Event" on page 262
"BusComp_PreDeleteRecord Event" on page 263
"BusComp_PreGetFieldValue Event" on page 264
"BusComp_PreInvokeMethod Event" on page 265
"BusComp_PreNewRecord Event" on page 266
"BusComp_PreQuery Event" on page 266
"BusComp_PreSetFieldValue Event" on page 267
"BusComp_PreWriteRecord Event" on page 269
"BusComp_Query Event" on page 270
"BusComp_SetFieldValue Event" on page 272
"BusComp_WriteRecord Event" on page 272

Table 15. Browser Side BusComp Events

Method
"BusComp_PreSetFieldValue Event" on page 267

Applet Events

Events are invoked in response to user interactions. These can be managed for each applet. Applet events are only supported in high interactivity mode. [Table 16](#) and [Table 17](#) list the User interface events.

Table 16. Server-side Applet Events

Method
"WebApplet_InvokeMethod Event" on page 109
"WebApplet_Load Event" on page 110
"WebApplet_PreCanInvokeMethod Event" on page 112
"WebApplet_PreInvokeMethod Event" on page 113

Table 17. Browser-side Applet Events

Method
"Applet_ChangeFieldValue Event" on page 103
"Applet_ChangeRecord Event" on page 105
"Applet_InvokeMethod Event" on page 106
"Applet_PreInvokeMethod Event" on page 108

Application Events

Application events are listed in [Table 18](#) and [Table 19](#).

Table 18. Server-side Application Events

Method
"Application_InvokeMethod Event" on page 176
"Application_Navigate Event" on page 177
"Application_PreInvokeMethod Event" on page 177
"Application_PreNavigate Event" on page 179
"Application_Start Event" on page 180

Table 19. Browser-side Application Events

Method
"Application_InvokeMethod Event" on page 176
"Application_PreInvokeMethod Event" on page 177

Connect String

The connect string is a URL containing the information needed to connect to any Siebel Server component. It specifies both the protocol and the details of the Client Application Manager service in the Siebel Servers to which the client connects. The generic form of the syntax for the connect string follows:

```
host="siebel [. transport][. encryption][. compression]://host[: port]/
EnterpriseServer/AppObjMgr_lang" lang="lang_code"
```

The following is an example of a connect string. Siebel Application is an application instance:

```
Siebel Application. Login "host=""siebel : //host/EnterpriseServer/SCCObjMgr_enu"
"lang="ENU" , "CCONWAY" , "CCONWAY"
```

Note that the entire protocol string is optional. You can specify the transport protocol alone and separate it from siebel with a single period:

```
siebel . tcpip : //host/siebel /AppObjMgr_lang
```

However, if you specify any of the other protocols, you must use a period as a placeholder for each protocol not specified. The following is an example:

```
siebel . . . zlib : //myhost/siebel /SCCObjMgr_enu
```

Protocols that are not specified receive their default values, as shown in [Table 20 on page 75](#).

Make the following substitutions for the placeholders in the example:

Table 20. Placeholder Substitutions When Logging into a Siebel Server

In Place Of	Insert
<i>transport</i>	The default value, <i>tcpip</i> , or leave blank
<i>encryption</i>	One of the following values: <ul style="list-style-type: none"> ■ none (default) ■ <i>mscrypto</i> (not supported by Java Data Bean) ■ <i>rsa</i> (supported by Java Data Bean)
<i>compression</i>	One of the following values: <ul style="list-style-type: none"> ■ none ■ <i>zlib</i> (the default)
<i>host</i>	The name of the computer on which the Siebel Server is installed
<i>port</i>	The SCBroker port; by default 2321. This changes only if the Siebel administrator changes the default during installation. For information about load-balancing with SCBroker, see <i>Siebel Deployment Planning Guide</i> , <i>Siebel System Administration Guide</i> , and <i>Siebel Installation Guide</i> for the operating system you are using.
<i>EnterpriseServer</i>	The name of the Siebel Enterprise Server
<i>AppObjMgr</i>	The name of the defined Application Object Manager that you want the Web client to access; this can be a user-defined component or one of these predefined components: <ul style="list-style-type: none"> ■ <i>ISSObjMgr_<lang></i> ■ <i>SCCObjMgr_<lang></i> ■ <i>SSEObjMgr_<lang></i> ■ <i>SSVObjMgr_<lang></i> For more information, see <i>Siebel System Administration Guide</i> .

For more information about the Login method, see [“Login Method” on page 148](#).

The following is a sample connect string for the COM Data Control operating in Server Mode:

```
'COM Data Control : SERVER Mode
lstr = "host=" + ""si ebel : //frashi d/Si ebel /SSEObj Mgr_enu""
'Format of the connect string is
' "host=" + ""si ebel : //<host>/<Enterprise>/<App. Object Mgr_<lang>""
lng = "lang=" + ""ENU""
retval = siebDataCtl.Login(lng + lstr, "username", "password")
```

The following is a sample connect string for the COM Data Control operating in Local Mode. When running in Local Mode, the COM Data Control must reside on the same machine as the Mobile Web Client.

```
'COM Data Control : LOCAL Mode
lstr = "cfg=" + ""D: \Client\mwebc\BIN\ENU\si ebel . cfg, ServerDataSrc""

'Format of the connect string is
'"cfg=" + ""Absolute path of the CFG file, DataSource""
'Datasource = ServerDataSrc or Local or Sample
lng = "lang=" + ""ENU""
retval = siebDataCtl.Login(lng + lstr, "username", "password")
```

The following is a sample connect string for the COM Data Control for PowerBuilder. Char(34) denotes a double quote:

```
ConnStr = "host =" + char(34) + "si ebel : //HOST/ENTERPRI SE_SERVER/SCCObj Mgr_enu/
SIEBEL_SERVER" + char(34) + " Lang = " + char(34) + "LANG" + char(34)
```

If you are using a single sign-on (SSO) with Java Data Bean, you must use the login ID of an employee as the username and the value of the trust token (the TrustToken parameter in the application's CFG file) in the connect string to log into the server.

For example, the connect string would be:

```
m_dataBean.Login("Si ebel : //gatewayserver: 2321/enterpri seServer/SCCObj Mgr_enu",
SADMIN, HELLO, "enu");
```

where SADMIN is an employee and TrustToken = HELLO in the [LDAPSecAdpt] section of uagent.cfg.

Using Load Balancing with the Connect String

Siebel COM Data Control operating in server mode and Java Data Bean support Siebel native load balancing across Siebel Servers. The standard connect string is modified to direct requests to an appropriate virtual host that includes specific Siebel Servers with the desired object manager, and to provide the path to the file that defines the virtual host.

Connect strings that use Siebel native load balancing have the following structures:

■ COM Data Control:

```
host="si ebel : //Virtual Host/Enterpri seServer/AppObj Mgr_lang" vhosts=" <path to
lbconfig.txt >
```

where lbconfig.txt is the file that defines virtual hosts.

For information on lbconfig.txt definition of virtual hosts, see *Siebel System Administration Guide*.

■ Java Data Bean:

```
host="siebel : //VirtualHost/EnterpriseServer/AppObjMgr_lang"
```

When using generated code, by default, virtual host definitions are read from the siebel.commgr.virtualhosts property in the siebel.properties file. The siebel.properties file must be in the classpath of the Java Virtual Machine.

For information on definition of virtual hosts in siebel.properties, see *Transports and Interfaces: Siebel Enterprise Application Integration*.

The following is a sample connect string for the COM Data Control operating in Server Mode in an environment that implements Siebel round-robin load balancing across Siebel Servers:

```
'COM Data Control : Load Balancing
Istr = "host=" + ""siebel : //VirtualServer1/Siebel /SSEObjMgr_enu"" + "vhosts=" +
""m: \siebel \admin\lbconfig.txt""
Ing = "lang=" + ""ENU""
retval = siebDataCtl.Login(Ing + Istr, "username", "password")
```

where VirtualServer1 matches the VirtualServer parameter in the session manager rules in lbconfig.txt, for example:

```
"VirtualServer1=1: SiebServA: 2321; 2: SiebServB: 2321;"
```

For information on the structure of the lbconfig.txt file, see *Siebel System Administration Guide*.

Error Handling

This section explains the Siebel COM Interfaces error handling differences.

COM Error Handling

The errCode parameter is the standard last parameter for every COM Data Server interface method. It is not available in the COM Data Control, Mobile Web Client Automation Server, Web Client Automation Server, or Java Data Bean. The following examples illustrate the difference between calling a COM Data Server interface method and calling the version of the method that is compatible with COM Data Control and Mobile Web Client Automation Server.

Error Handling Example—COMData Server only

```
GetBusObject (BusObjectName as string, errcode as integer) -> businessObject
```

Error Handling Example—COM Data Control and Mobile Web Client Automation Server

```
GetBusObject (BusObjectName as string) -> businessObject
```

Java Error Handling

The Siebel Java interfaces error-handling differences are explained in this section.

Errors in the Siebel Java Data Bean are handled by the SiebelException object. It supports the `getErrorCode()` and `getErrorMessage()` methods. The SiebelException object is defined in `com.siebel.data.SiebelException`. It is used as follows:

```
...  
  
import com.siebel.data.SiebelException;  
import com.siebel.data.SiebelDataBean;  
...  
SiebelDataBean mySiebelBean=null;  
try  
  
{  
    mySiebelBean = new SiebelDataBean();  
    mySiebelBean.login("Siebel : //SOMSERVER/somsi ebel /AppObj Mgr/", "CCONWAY",  
"CCONWAY", "enu");  
}  
catch (SiebelException e){  
    // Exception handling code  
    System.out.println (e.getErrorMessage ());  
mySiebelBean = null; //avoid using mySiebelBean if login is unsuccessful  
}  
  
...
```

For additional methods on the SiebelException object, refer to the Siebel Java Data Bean JavaDoc installed with Siebel Tools. Note that the JavaDoc is installed only if the “Siebel Java Integration” option is installed. If so, then a zipped file containing the JavaDoc is in the `<tools instal l>\CLASSES` folder.

Error Message Tracking

For error message tracking in ActiveX, you can use either exceptions or methods. The following methods are available:

- EnableExceptions
- GetLastErrCode
- GetLastErrText

EnableExceptions Method

`EnableExceptions(enable as integer)`

The EnableExceptions method allows applications to use the native COM error-handling technique. If the method is about to fail due to error, then a COM exception is generated and the method does not return. The COM host receives the control instead. However, it *may* display the error message (this is default for Microsoft Internet Explorer or VB), but it can be changed by scripting.

GetLastErrCode, GetLastErrText Method

After execution of a method, the `GetLastErrCode` can be invoked to check if any error was returned from the previous operation. The `GetLastErrText` method can be invoked to retrieve the text of the error message, for example:

`GetLastErrCode()` ' retrieves `errCode` As Integer

`GetLastErrText()` ' retrieves `text` As String

4

Interfaces Reference

This chapter lists the methods and events available to Siebel object interfaces:

- [“Object Interface Method Tables” on page 81](#)
- [“Object Interface Event Tables” on page 93](#)
- [“Siebel Constants” on page 95](#)
- [“Applet Methods” on page 96](#)
- [“Applet Events” on page 103](#)
- [“Application Methods” on page 119](#)
- [“Application Events” on page 175](#)
- [“Business Component Methods” on page 181](#)
- [“Business Component Events” on page 256](#)
- [“Business Object Methods” on page 273](#)
- [“Business Service Methods” on page 278](#)
- [“Business Service Events” on page 287](#)
- [“Control Methods” on page 293](#)
- [“Property Set Methods” on page 302](#)
- [“Miscellaneous Methods” on page 320](#)

Object Interface Method Tables

This section lists the Siebel interface methods, grouped by object interface type:

- [“Applet Methods” on page 82](#)
- [“Application Methods” on page 82](#)
- [“Business Component Methods” on page 85](#)
- [“Business Object Methods” on page 89](#)
- [“Business Service Methods” on page 89](#)
- [“Control Methods” on page 90](#)
- [“Property Set Methods” on page 91](#)
- [“Miscellaneous Methods” on page 92](#)

Applet Methods

Table 21 lists the applet methods.

Table 21. Applet Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
ActiveMode Method		X					
BusComp Method	X	X					
BusObject Method	X	X					
FindActiveXControl Method		X					
FindControl Method		X					
InvokeMethod Method	X	X					
Name Method	X	X					

Application Methods

Table 22 lists the application methods.

Table 22. Application Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
ActiveApplet Method		X					
ActiveBusComp Method		X					
ActiveBusObject Method	X	X		X			
ActiveViewName Method	X	X		X			

Table 22. Application Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
Attach Method					X		X
CurrencyCode Method	X	X		X	X	X	X
Detach Method					X		X
EnableExceptions Method				X	X		
FindApplet Method		X					
GetBusObject Method	X			X	X	X	X
GetDataSource Method Called only with InvokeMethod	X			X	X		X
GetLastErrCode Method			X	X	X		
GetLastErrText Method			X	X	X	X	
GetProfileAttr Method	X	X		X	X	X	X
GetService Method	X	X	X	X	X	X	X
GetSharedGlobal Method	X			X	X	X	X
GotoView Method	X						
InvokeMethod Method	X	X		X	X	X	X
IsViewReadOnly Method Called only with InvokeMethod	X	X		X	X	X	X
Language Method Called only with InvokeMethod	X						

Table 22. Application Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
LoadObjects Method						X	
LoadUserAttributes Method	X						
Login Method				X	X	X	X
LoginId Method	X			X	X	X	X
LoginName Method	X			X	X	X	X
Logoff Method				X	X		X
LookupMessage Method	X						
LookupValue Method Called only with InvokeMethod	X			X	X		X
Name Method		X	X				
NewPropertySet Method	X	X	X	X	X	X	X
PositionId Method	X			X	X	X	X
PositionName Method	X			X	X	X	X
RaiseError Method	X						
RaiseErrorText Method	X						
SetPositionId Method	X			X	X	X	X
SetPositionName Method	X			X	X	X	X
SetProfileAttr Method	X	X		X	X	X	X
SetSharedGlobal Method	X			X	X	X	X

Table 22. Application Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
“ShowModalDialog Method”		X					
SWEAlert Method		X					
Trace Method	X			X	X	X	X
TraceOff Method	X			X	X	X	X
TraceOn Method	X			X	X	X	X

Business Component Methods

Table 23 lists the business component methods.

Table 23. Business Component Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
ActivateField Method	X			X	X	X	X
ActivateMultipleFields Method	X			X	X	X	X
Associate Method	X			X	X	X	X
BusObject Method	X	X		X	X	X	X
ClearLOVCache Method Called only with InvokeMethod	X	X		X	X	X	X
ClearToQuery Method	X			X	X	X	X
CreateFile Method Called only with InvokeMethod	X			X	X	X	X
DeactivateFields Method	X			X	X	X	X

Table 23. Business Component Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
DeleteRecord Method	X			X	X	X	X
ExecuteQuery Method	X			X	X	X	X
ExecuteQuery2 Method	X			X	X	X	X
FirstRecord Method	X			X	X	X	X
FirstSelected Method	X						
GenerateProposal Method Called only with InvokeMethod	X			X	X	X	X
GetAssocBusComp Method	X			X	X	X	X
GetFieldValue Method	X	X		X	X	X	X
GetFile Method Called only with InvokeMethod	X			X	X	X	X
GetFormattedFieldValue Method	X	X		X	X	X	X
GetLastErrCode Method				X	X		
GetLastErrText Method				X	X		
GetMultipleFieldValues Method	X			X	X	X	X
GetMVGBusComp Method	X			X	X	X	X
GetNamedSearch Method	X			X	X	X	X
GetPicklistBusComp Method	X			X	X	X	X

Table 23. Business Component Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
GetSearchExpr Method	X	X		X	X	X	X
GetSearchSpec Method	X	X		X	X	X	X
GetSortSpec Method	X			X	X	X	X
GetUserProperty Method	X			X	X	X	X
GetViewMode Method	X			X	X	X	X
InvokeMethod Method	X			X	X	X	X
LastRecord Method	X			X	X	X	X
Name Method	X	X		X	X	X	X
NewRecord Method	X			X	X	X	X
NextRecord Method	X			X	X	X	X
NextSelected Method	X						
ParentBusComp Method	X			X	X	X	X
Pick Method	X			X	X	X	X
PreviousRecord Method	X			X	X	X	X
PutFile Method Called only with InvokeMethod	X			X	X	X	X
RefineQuery Method	X			X	X	X	X
RefreshBusComp Method Called only with InvokeMethod	X	X		X	X	X	X

Table 23. Business Component Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
RefreshRecord Method Called only with InvokeMethod	X	X		X	X		X
Release Method							X
SetAdminMode Method Called only with InvokeMethod	X			X	X	X	X
SetFieldValue Method	X	X		X	X	X	X
SetFormattedFieldValue Method	X	X		X	X	X	X
SetMultipleFieldValues Method	X			X	X	X	X
SetNamedSearch Method	X			X	X	X	X
SetSearchExpr Method	X			X	X	X	X
SetSearchSpec Method	X			X	X	X	X
SetSortSpec Method	X			X	X	X	X
SetUserProperty Method	X			X	X	X	X
SetViewMode Method	X			X	X	X	X
UndoRecord Method	X			X	X	X	X
WriteRecord Method	X	X		X	X	X	X

Business Object Methods

Table 24 lists the business object methods.

Table 24. Business Object Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
GetBusComp Method	X	X		X	X	X	X
GetLastErrCode Method				X	X		
GetLastErrText Method				X	X		
Name Method	X	X		X	X	X	X
Release Method							X

Business Service Methods

Table 25 lists the business service methods.

Table 25. Business Service Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
GetFirstProperty Method	X	X		X	X	X	X
GetNextProperty Method	X	X		X	X	X	X
GetProperty Method	X	X		X	X	X	X
InvokeMethod Method	X	X	X	X	X	X	X
Name Method	X	X	X	X	X	X	X
PropertyExists Method	X	X		X	X	X	X
Release Method							X

Table 25. Business Service Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
RemoveProperty Method	X	X		X	X	X	X
SetProperty Method	X	X		X	X	X	X

Control Methods

Table 26 lists the control methods.

Table 26. Control Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
Applet Method		X					
BusComp Method		X					
GetProperty Method		X					
GetValue Method		X					
Name Method		X					
SetLabelProperty Method		X					
SetProperty Method		X					
SetValue Method		X					

Property Set Methods

Table 27 lists the property set methods.

Table 27. Property Set Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
AddChild Method	X	X	X	X	X	X	X
Copy Method	X	X	X	X	X	X	X
GetByteValue Method							X
GetChild Method	X	X	X	X	X	X	X
GetChildCount Method	X	X	X	X	X	X	X
GetFirstProperty Method	X	X	X	X	X	X	X
GetLastErrCode Method				X			
GetLastErrText Method				X			
GetNextProperty Method	X	X	X	X	X	X	X
GetProperty Method	X	X	X	X	X	X	X
GetPropertyCount Method	X	X	X	X	X	X	X
GetType Method	X	X	X	X	X	X	X
GetValue Method	X	X	X	X	X	X	X

Table 27. Property Set Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
InsertChildAt Method	X	X	X	X	X	X	X
PropertyExists Method	X	X	X	X	X	X	X
RemoveChild Method	X	X	X	X	X	X	X
RemoveProperty Method	X	X	X	X	X	X	X
Reset Method	X	X	X	X	X	X	X
SetByteValue Method							X
SetProperty Method	X	X	X	X	X	X	X
SetType Method	X	X	X	X	X	X	X
SetValue Method	X	X	X	X	X	X	X

Miscellaneous Methods

Table 28 lists miscellaneous methods.

Table 28. Miscellaneous Methods

Method	Server Script	Browser Script	Web Client Automation Server	Mobile Web Client Automation Server	Siebel COM Data Control	COM Data Server	Java Data Bean
GetErrorCode Method							X
GetErrorMessage Method							X
TheApplication Method	X	X					

Object Interface Event Tables

The object interface events are available in Server Script or Browser Script within Siebel Tools. This section lists the Siebel interface events, grouped by object interface type:

- [“Applet Events”](#)
- [“Application Events” on page 94](#)
- [“Business Component Events” on page 94](#)
- [“Business Service Events” on page 95](#)

Applet Events

Table 29 lists the applet events.

Table 29. Applet Events

Event	Server Script	Browser Script	Comments
Applet_ChangeFieldValue Event		X	
Applet_ChangeRecord Event		X	
Applet_InvokeMethod Event		X	
Applet_Load Event		X	
Applet_PreInvokeMethod Event		X	
WebApplet_InvokeMethod Event	X		
WebApplet_Load Event	X		
WebApplet_PreCanInvokeMethod Event	X		
WebApplet_PreInvokeMethod Event	X		
WebApplet_ShowControl Event	X		Not available in high interactivity mode
WebApplet_ShowListColumn Event	X		Not available in high interactivity mode

Application Events

Table 30 lists the application events.

Table 30. Application Events

Event	Server Script	Browser Script	Comments
Application_Close Event	X		
Application_InvokeMethod Event	X	X	
Application_Navigate Event	X		
Application_PreInvokeMethod Event	X	X	
Application_PreNavigate Event	X		
Application_Start Event	X		

Business Component Events

Table 31 lists the application events.

Table 31. Business Component Events

Event	Server Script	Browser Script	Comments
BusComp_Associate Event	X		
BusComp_ChangeRecord Event	X		
BusComp_CopyRecord Event	X		
BusComp_DeleteRecord Event	X		
BusComp_InvokeMethod Event	X		
BusComp_NewRecord Event	X		
BusComp_PreAssociate Event	X		
BusComp_PreCopyRecord Event	X		
BusComp_PreDeleteRecord Event	X		
BusComp_PreGetFieldValue Event	X		
BusComp_PreInvokeMethod Event	X		
BusComp_PreNewRecord Event	X		
BusComp_PreQuery Event	X		

Table 31. Business Component Events

Event	Server Script	Browser Script	Comments
BusComp_PreSetFieldValue Event	X	X	Available only in high interactivity mode. Requires a field property to be set for the event to be immediately executed on the server.
BusComp_PreWriteRecord Event	X		
BusComp_Query Event	X		
BusComp_SetFieldValue Event	X		
BusComp_WriteRecord Event	X		

Business Service Events

Table 32 lists the business service events.

Table 32. Business Service Events

Event	Server Script	Browser Script	Comments
Service_InvokeMethod Event	X	X	
Service_PreCanInvokeMethod Event	X	X	
Service_PreInvokeMethod Event	X	X	

Siebel Constants

The Siebel programming languages provide constants for the convenience of programmers. These constants are listed in Table 33. Use the constant names, rather than their integer values in your code. Use of these constant names makes your code more readable by others, because it clarifies your intentions. The integer values are included only to aid in debugging. A constant's integer value appears in the Debugger when the constant is stored in a local variable and the value of the local variable is exposed.

Table 33. Siebel Constants

Used With	Constant Name	Integer Value
Pre Event Handler Methods	ContinueOperation	1
	CancelOperation	2

Table 33. Siebel Constants

Used With	Constant Name	Integer Value
Search Methods	ForwardBackward	256
	ForwardOnly	257
NewRecord Method	NewBefore	0
	NewAfter	1
	NewBeforeCopy (Not available with Java Data Bean)	2
	NewAfterCopy (Not available with Java Data Bean)	3
Siebel ViewMode Methods	SalesRepView	0
	ManagerView	1
	PersonalView	2
	AllView	3
	OrganizationView	5
	GroupView	7
	CatalogView	8
	SubOrganizationView	9

Applet Methods

In the following methods, the placeholder *Applet* in the syntax represents an applet instance:

- [“ActiveMode Method”](#)
- [“BusComp Method” on page 97](#)
- [“BusObject Method” on page 98](#)
- [“FindActiveXControl Method” on page 98](#)
- [“FindControl Method” on page 99](#)
- [“InvokeMethod Method” on page 100](#)
- [“Name Method” on page 102](#)

ActiveMode Method

ActiveMode returns a string containing the name of the current Web Template mode.

Syntax*Applet.ActiveMode*

Argument	Description
Not applicable	

Returns

A string containing the name of the current Web Template mode.

Used With

Browser Script

Example

The following example is in Browser Script:

```
function Applet_Load ()
{
    var currMode = this.ActiveMode();
    theApplication().SWEAlert("The active mode for the selected applet is: " +
        currMode);
}
```

BusComp Method

BusComp returns the business component that is associated with the applet.

Syntax*Applet.BusComp()*

Argument	Description
Not applicable	

Returns

The business component associated with the applet.

Used With

Browser Script, Server Script

BusObject Method

BusObject returns the business object for the business component of the applet.

Syntax

Applet.BusObject()

Argument	Description
Not applicable	

Returns

The business object for the applet's business component.

Used With

Browser Script, Server Script

Example

The following example is in Browser Script:

```
function Applet_Load ()
{
    var appletname = this.Name();
    var currBO = this.BusObject();
    var currBOName = currBO.Name();
    theApplication().SWEAlert("The active Business Object for the " + appletname +
        " is: " + currBOName);
}
```

The following example is in Siebel eScript:

```
function WebApplet_Load ()
{
    var busObj = this.BusObject();
}
```

The following example is in Siebel VB:

```
Sub WebApplet_Load
    Dim oBusObject As BusObject
    Set oBusObject = Me.BusObject

End Sub
```

FindActiveXControl Method

FindActiveXControl returns a reference to a DOM element based upon the name specified in the name argument.

Syntax

Applet.FindActiveXControl(*controlName*)

Argument	Description
<i>controlName</i>	Literal string or string variable containing the name of the desired control

Returns

The control object identified in *controlName*.

Usage

FindActiveXControl is used for finding controls on form applets. It does not locate list columns on list applets.

Used With

Browser Script

Example

The following Browser Script example interacts with a Microsoft slide ActiveX control that has been placed on a Siebel applet:

```
// Get a reference to the control
var SlideCtrl = FindActiveXControl ("SliderControl ");

// Display some of the ActiveX Control's properties
theApplication().SWEAlert ("element id = " + SlideCtrl.id);
theApplication().SWEAlert ("Max ticks = " + SlideCtrl.Max);

SlideCtrl.SelStart = 2; // Set a control property
SlideCtrl.Refresh(); // Call the control's Refresh method

var myCustomCtrl = FindActiveXControl ("TestControl ");
myCustomCtrl.TestProperty01 = "abc";
myCustomCtrl.Style.visible = "hidden"; // Use a Style sheet property
```

FindControl Method

FindControl returns the control whose name is specified in the argument. This applet must be part of the displayed view.

Syntax

```
Applet.FindControl(controlName)
```

Argument	Description
<i>controlName</i>	Literal string or string variable containing the name of the desired control

Returns

The control object identified in *controlName*.

Usage

FindControl does not find controls for MVG applets, Pick applets, Associate applets, or detail applets that are not on the view's applet list. It also does not locate list columns on list applets.

Used With

Browser Script

Example

To use this Browser Script example, read the notes for the [“SetLabelProperty Method” on page 297](#).

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  // Code to change the Font Size of the "Location" label
  if (name == "fontSize")
  {
    // Use FindControl () to get a reference to the control
    var ctl = this.FindControl ("Location");

    ctl.SetLabelProperty ("FontSize", "22"); // Set the font size
    return ("Cancel Operation");
  }
}
```

InvokeMethod Method

The InvokeMethod method invokes the specialized or custom method specified by its argument.

Browser Script Syntax

```
Applet.InvokeMethod(methodName, methodArgs_PropSet);
```

Argument	Description
<i>methodName</i>	The name of the method
<i>methodArgs_PropSet</i>	Property set containing the method arguments

Server Script Syntax

Applet.InvokeMethod(methodName, methodArgs);

Argument	Description
<i>methodName</i>	The name of the method
<i>methArg1, methArg2, ..., methArgN</i>	One or more strings containing arguments to <i>methodName</i>

Returns

In Server Script, returns a string containing the result of the method.

In Browser Script, returns a property set.

Usage

Available to Browser and Server scripting. If the method to be invoked exists in the Browser, it executes in the browser. Otherwise, the request is sent to the server for execution.

NOTE: The `InvokeMethod` method should only be used with documented methods. Oracle does not support calling methods with `InvokeMethod`, unless they are listed in this book. Calling `InvokeMethod` with an undocumented method is not supported. Undocumented methods may be modified or obsoleted without notice. Use of undocumented methods is entirely at your own risk.

Used With

Browser Script, Server Script

Example

The following example is in Siebel eScript:

```
function WebApplet_PreInvokeMethod (MethodName)
{
    //Invoke a Siebel SmartScript from a custom button
    //using the applet.InvokeMethod method
    //Note the InvokeSScriptFromButton is from a custom
    //method added to a button
    if (MethodName == "InvokeSScriptFromButton")
    {
        var iReturn = ContinueOperation;
        var sArgs = new Array(3);
        sArgs[0] = "Demo Opportunity Profile";
        sArgs[1] = "";
        sArgs[2] = "";
        this.InvokeMethod("RunCallScript", sArgs);
        iReturn = CancelOperation;
    }
    else
    {
        iReturn = ContinueOperation;
    }
}
```

```

    }
    return(i Return);
}

```

Name Method

The Name method returns the name of the applet.

Syntax

Applet.Name()

Argument	Description
Not applicable	

Returns

A string containing the applet object name.

Used With

Browser Script, Server Script

Example

The following example is in Browser Script:

```

function Applet_Load ()
{
    //Display the name of the applet when the applet loads using the
    //applet.Name() method to obtain the name of the applet
    var appletName;
    appletName = this.Name();
    theApplication().SWEAlert("The name of the applet is: " + appletName);
}

```

The following example is in Siebel eScript:

```

function WebApplet_Load ()
{
    //Display the name of the applet when the applet loads using the
    //applet.Name() method to obtain the name of the applet
    var appletName;
    appletName = this.Name();
    TheApplication().RaiseErrorText("The name of the applet is: " + appletName);
}

```

The following example is in Siebel VB:

```

Sub WebApplet_Load
' Display the name of the applet when the applet loads using the
' applet.Name() method to obtain the name of the applet
Dim appletName As String
appletName = Me.Name
TheApplication.RaiseErrorText "The name of the applet is: " & appletName
End Sub

```

Applet Events

The following topics describe applet events:

- ["Applet_ChangeFieldValue Event" on page 103](#)
- ["Applet_ChangeRecord Event" on page 105](#)
- ["Applet_InvokeMethod Event" on page 106](#)
- ["Applet_Load Event" on page 107](#)
- ["Applet_PreInvokeMethod Event" on page 108](#)
- ["WebApplet_InvokeMethod Event" on page 109](#)
- ["WebApplet_Load Event" on page 110](#)
- ["WebApplet_PreCanInvokeMethod Event" on page 112](#)
- ["WebApplet_PreInvokeMethod Event" on page 113](#)
- ["WebApplet_ShowControl Event" on page 114](#)
- ["WebApplet_ShowListColumn Event" on page 116](#)

Applet_ChangeFieldValue Event

The ChangeFieldValue event fires after the data in a field changes through the applet in the user interface.

Syntax

Applet_ChangeFieldValue(fieldname, fieldValue)

Argument	Description
<i>FieldName</i>	A string representing the name of the field whose value changed
<i>FieldValue</i>	A string representing the new value assigned to FieldName

Returns

Not applicable

Usage

ChangeFieldValue fires after the data in a field changes, but not when a user moves to a different record without changing a value in the previous record. If a user changes the value in a field, and other dependent fields, such as calculated fields, change as a result, the event fires once for each field whose value changed.

NOTE: This event does not trigger for changes made in pick applets or popup applets.

Used With

Browser Script

Example

The following example is in Browser Script:

```
function Applet_ChangeFieldValue (field, value)
{
    try
    {
        switch (field)
        {
            case "Primary Revenue Committed Flag":
                if (value == "Y")
                {
                    var thisBC = this.BusComp();
                    var sRev = thisBC.GetFieldValue("Primary Revenue Amount");
                    var sUpside = thisBC.GetFieldValue("Primary Revenue Upside Amount");
                    var total = sRev + sUpside;
                    if (total < 500000)
                    {
                        thisBC.SetFieldValue("Primary Revenue Committed Flag", "N");
                        theApplication().SWEAlert("Changing the Committed Flag to NO as
                            $500,000 in Revenue and Upside amount is required");
                    }
                }
                break;
        }
    }
    catch(e)
    {
        theApplication().SWEAlert("Error in ChangeFieldValue and error is " +
            e.toString() + " " + e.errText());
    }
}
```

Related Topic

["Applet_ChangeRecord Event"](#)

Applet_ChangeRecord Event

The ChangeRecord event is called when the user moves to a different row or view.

Syntax

Applet_ChangeRecord()

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Browser Script

Example

The following example is in Browser Script:

```
function Applet_ChangeRecord ()
{
  try
  {
    var thisBC = this.BusComp();
    var sFlag = thisBC.GetFieldValue("Primary Revenue Committed Flag");
    if (sFlag == "Y")
    {
      theApplication().SWEAlert("This record cannot be updated because it has
      been committed");
    }
  }
  catch(e)
  {
    theApplication().SWEAlert("Error in ChangeFieldValue and error is " +
    e.toString() + " " + e.errText());
  }
}
```

NOTE: To return the value of the field to which you are navigating in the Applet_ChangeRecord event, use the BusComp.GetFieldValue() method. The control.GetValue() method returns data from the record you are leaving.

Related Topic

[“Applet_ChangeFieldValue Event” on page 103](#)

Applet_InvokeMethod Event

The Applet_InvokeMethod event is triggered by a call to `applet.InvokeMethod` or a specialized method, or by a user-defined menu.

Syntax

`Applet_InvokeMethod(name, inputPropSet)`

Argument	Description
<i>Name</i>	The name of the method that is triggered.
<i>inputPropSet</i>	A property set containing arguments to be passed to the InvokeMethod event.

Returns

Not applicable

Usage

Typical uses include showing or hiding controls, or setting a search specification. When accessing a business component from this event handler, use `this.BusComp()`, rather than `TheApplication.ActiveBusComp`.

Used With

Browser Script

Example

Some special methods create, modify, or delete records. In some cases, events at the applet or business component level are triggered by these actions. If there is a requirement to perform a specific action before and after the method has been executed, these events can be used. In this example, code has been added to the `PreInvokeMethod` and `InvokeMethod` applet events to set and reset the flag and to the `NewRecord` server event to set the fields.

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  if (name == "Quote")
  {
    // Add code that needs to be executed BEFORE the special method
    // Set flag to "1"
    TheApplication().SetProfileAttr("flag", "1");
  }
  return ("ContinueOperation");
}
```

```

function Applet_InvokeMethod (name, inputPropSet)
{
  if (name == "Quote")
  {
    // Add code that needs to be executed AFTER the special method
    // Reset the flag to "0"
    TheApplication(). SetProfileAttr("fl ag", "0");
  }
}

function BusComp_NewRecord ()
{
  if (TheApplication(). GetProfileAttr("fl ag")== "1" )
  {
    this. SetFi el dVal ue ("Fi el d1", "Val ue1");
    this. SetFi el dVal ue ("Fi el d2", "Val ue2");
    . . . . .
  }
}

```

Related Topics["Applet_PreInvokeMethod Event" on page 108](#)["Application_InvokeMethod Event" on page 176](#)

Applet_Load Event

The Applet_Load event is triggered after an applet has loaded and after data is displayed.

Syntax

Applet_Load()

Argument	Description
Not applicable	

Returns

Not applicable

Usage

You can use this event with form applets to dynamically hide or manipulate controls or set properties on an ActiveX Control. The following controls can be dynamically modified: CheckBox, ComboBox, TextBox, TextArea, Label.

NOTE: Do not use the `SWEAlert` or `RaiseErrorText` methods in this event to display a popup. This can cause the browser to fail if the application has not yet been fully rendered in the browser.

Used With

Browser Script

Example

Use this event to dynamically hide or manipulate controls or set properties on a control. The following controls can be dynamically modified: CheckBox, ComboBox, Label, TextArea, and TextBox.

NOTE: This example is only applicable to code on form applets.

```
function Applet_Load ()
{
    // Get the control instance.
    var ctrl = this.FindControl("FirstName");

    // Hide the control
    ctrl.SetProperty("Visible", "false");

    // Hide the label
    ctrl.SetLabelProperty("Visible", "hidden");
}
```

Applet_PreInvokeMethod Event

The `PreInvokeMethod` event is called before a specialized method is invoked, by a user-defined applet menu, or by calling `InvokeMethod` on an applet.

Syntax

`Applet_PreInvokeMethod(Name, inputPropSet)`

Argument	Description
<i>inputPropSet</i>	A property set containing arguments to be passed to the <code>PreInvokeMethod</code> event

Returns

`ContinueOperation` or `CancelOperation`

Usage

The `PreInvokeMethod` event is called just before a specialized method is invoked on the applet. If implementing a new method (not defined by the built-in functions), the Basic script should return `CancelOperation` to avoid invoking an “Unknown Method Name” error. Specialized methods are methods based on applet or business component classes other than `CSSFrame` and `CSSBusComp`, respectively—that is, specialized classes.

`CancelOperation` does not stop the execution of the code following it, but it does prevent the execution of any built-in code associated with this event. `Applet_PreInvokeMethod` should return `CancelOperation` when you are handling the event entirely through scripting and do not want the built-in code to execute. However, if there is code in the same script following `CancelOperation`, that code runs regardless of the `CancelOperation`.

Used With

Browser Script

Example

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  if(name == 'NewRecord')
  {
    if(confirm("Are you sure you want to create a new record?"))
      return ("ContinueOperation");
    else
      return ("CancelOperation");
    return ("ContinueOperation");
  }
}
```

Related Topic

[“How Your Script Affects Program Flow” on page 68](#)

WebApplet_InvokeMethod Event

The `InvokeMethod` event is called after a specialized method on the Web applet has been executed. `WebApplet_InvokeMethod` triggers for Siebel-defined methods only, it does not trigger for user-defined methods.

Syntax

`WebApplet_InvokeMethod(methodName)`

Argument	Description
<i>methodName</i>	String variable or literal containing the name of the method invoked.

Returns

Not applicable

Used With

Server Script

Example

The following example is in Siebel eScript:

```
switch (MethodName)
{
  case "NewQuery":
    TheApplicati on(). SetSharedGlobal ("EnableButton", "N"); break;
  case "ExecuteQuery":
    TheApplicati on(). SetSharedGlobal ("EnableButton", ""); break;
  case "UndoQuery":
    TheApplicati on(). SetSharedGlobal ("EnableButton", "");
    break;
}
```

The following example is in Siebel VB:

```
Select Case MethodName
Case "NewQuery"
  TheApplicati on. SetSharedGlobal "EnableButton", "N"
  break
Case "ExecuteQuery"
  TheApplicati on. SetSharedGlobal "EnableButton", ""
  break
Case "UndoQuery"
  TheApplicati on. SetSharedGlobal "EnableButton", ""
  break
End Select
```

Related Topics

["Applet_InvokeMethod Event" on page 106](#)

["Application_InvokeMethod Event" on page 176](#)

["WebApplet_PreCanInvokeMethod Event" on page 112](#)

WebApplet_Load Event

The Load event is triggered just after an applet is loaded.

Syntax

WebApplet_Load()

Argument	Description
Not applicable	

Returns

Not applicable

Usage

Do not call TheApplication().ActiveBusObject from WebApplet_Load because it returns a null. Instead use this.BusObject() to obtain a reference to the current business object.

Used With

Server Script

Example

The following example is in Siebel eScript:

```
function WebApplet_Load ()
{
  try
  {
    var currBC = this.BusComp();
    with (currBC)
    {
      SetViewMode(OrganizationalView);
      ClearToQuery();
      SetSearchSpec("Last Name", "A*");
      ExecuteQuery(ForwardBackward);
    }
  }
  catch (e)
  {
    TheApplication().RaiseErrorText(e.errText);
  }
}
```

The following example is in Siebel VB:

```
Sub WebApplet_Load
  Dim iReturn As Integer
  Dim currBC As BusComp
  Set currBC = Me.BusComp
  With currBC
    .SetViewMode OrganizationalView
    .ClearToQuery
    .SetSearchSpec "Last Name", "A*"
  End With
End Sub
```

```

        . ExecuteQuery
    End With
End Sub

```

Related Topics

- ["Applet_InvokeMethod Event" on page 106](#)
- ["Application_InvokeMethod Event" on page 176](#)
- ["WebApplet_PreCanInvokeMethod Event" on page 112](#)

WebApplet_PreCanInvokeMethod Event

The PreCanInvokeMethod event is called under the following conditions, allowing the script to determine whether or not the user has the authority to invoke the applet method:

- Before the PreInvokeMethod event is called
- When the user steps to a different record
- When an applet is loaded
- When a different method, such as GetProfileAttr() or SetProfileAttr(), is called from Browser Script

NOTE: It is often easier to enable and disable methods at the applet level declaratively, using the CanInvokeMethod applet user property. For an example of this, see ["Invoking Custom Methods with MiniButton Controls" on page 431](#). For more information on the CanInvokeMethod user property, see *Siebel Developer's Reference*.

Syntax

WebApplet_PreCanInvokeMethod(*MethodName*, &*CanInvoke*)

Argument	Description
<i>MethodName</i>	A string representing the name of the method to be executed.
<i>&CanInvoke</i>	A string representing whether or not the Applet method can be invoked. Valid values are TRUE or FALSE.

NOTE: Using the FirstSelected business component method with the PreCanInvokeMethod event can cause unexpected behavior in pick applets invoked from the applet where this event is called.

Returns

CancelOperation or ContinueOperation

Used With

Server Script

Example

The following example is in Siebel eScript:

```
function WebApplet_PreCanI nvokeMethod (MethodName, &CanI nvoke)
{
  if ( MethodName == "CustomMethod" )
  {
    CanI nvoke = "TRUE";
    return( Cancel Operati on );
  }
  return (Conti nueOperati on);
}
```

The following example is in Siebel VB:

```
Function WebApplet_PreCanI nvokeMethod (MethodName As String, CanI nvoke As String)
As Integer
  Dim iReturn As Integer
  iReturn = ContinueOperati on
  If MethodName = "Test" Then
    CanI nvoke = "TRUE"
    iReturn = Cancel Operati on
  End If
  WebApplet_PreCanI nvokeMethod = iReturn
End Function
```

WebApplet_PreI nvokeMethod Event

The PreI nvokeMethod event is called before a specialized method for the Web applet is invoked or a user-defined method is invoked through *oWebApplet.InvokeMethod*.

Syntax

WebApplet_PreI nvokeMethod(*methodName*)

Argument	Description
<i>methodName</i>	String variable or literal containing the name of the method invoked

Returns

"ContinueOperation" or "CancelOperation"

Usage

The PreI nvokeMethod event is called just before a specialized method is invoked on the Web applet. If implementing a new method (not defined by the built-in functions), the script should return CancelOperation to avoid invoking an "Unknown Method Name" error.

CancelOperation does not stop the execution of the code following it, but it does prevent the execution of any built-in code associated with this event. WebApplet_PreInvokeMethod should return CancelOperation when you are handling the event entirely through scripting and you do not want the built-in code to execute. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

Example

The following example is in Siebel eScript:

```
function WebApplet_PreInvokeMethod (MethodName)
{
  switch (MethodName)
  {
    case "CustomMethod":
      var applet = this;
      var BC = applet.BusComp();
      var ConId = BC.GetFieldValue("Contact Id");
      var WshShell = COMCreateObject("WScript.Shell");
      WshShell.Popup("My Custom Method was called. Here is the ID " + ConId);
      return(CancelOperation);
      break;
  }
  return (ContinueOperation);
}
```

The following example is in Siebel VB:

```
Function WebApplet_PreInvokeMethod (MethodName As String) As Integer
  Dim iReturn As Integer
  iReturn = ContinueOperation
  Select Case MethodName
  Case "CustomMethod"
    Dim oBusComp As BusComp
    Set oBusComp = Me.BusComp
    Dim WshShell As Object
    ConId = oBusComp.GetFieldValue("Contact Id")
    Set WshShell = CreateObject("WScript.Shell")
    WshShell.Popup("My Custom Method was called. Here is the ID " & ConId)
    iReturn = CancelOperation
  End Select
  WebApplet_PreInvokeMethod = iReturn
End Function
```

WebApplet_ShowControl Event

This event allows scripts to modify the HTML generated by the Siebel Web Engine to render a control on a Web page in an application running in standard interactivity mode.

Syntax

WebApplet_ShowControl (*controlName*, *property*, *mode*, *HTML*)

Argument	Description
controlName	A string indicating the name of the control to be rendered.
property	A string indicating the value of the property attribute of the swe: control or swe: thi s tag that triggers this event; it can also be an empty string if this attribute is not specified for the tag.
mode	The mode of the applet that is being shown; possible modes are: <ul style="list-style-type: none"> ■ Base ■ Edit ■ New ■ Query ■ Sort
HTML	The HTML generated by the Siebel Web Engine for the swe: control or swe: thi s tag that triggers this event.

Returns

Not applicable

Usage

The generated HTML depends on the control, the property being shown, and the mode of the applet. The script can modify the value of the HTML argument, and the Siebel Web Engine sends the modified value back to the Web browser.

Customer applications render the layout of applets using template files (.swt files). These are HTML files that contain special placeholder tags that indicate where a control is to be rendered. These control placeholder tags (<swe: control >) can be included in the following two ways:

- The <swe: control > tag by itself is used to show a control:
- The <swe: control > tag and <swe: thi s> tag are used to show a control:

```
<swe: control id="1" property="Di spl ayName" />
```

```
<swe: control id="1">
.
.
.
<swe: thi s property="Di spl ayName" />
.
.
.</swe: control >
```

In the first instance, if the control ID is mapped to an actual control in the applet using Siebel Tools, Siebel Web Engine renders the `DisplayName` property of the control at the point where this tag is placed in the template file.

In the second instance, the Siebel Web Engine renders the `DisplayName` property of the control at the point where the `<swe: this>` tag is placed in the template file. The outer `<swe: control>` tag in this case is used only to check if the control ID is mapped to an actual control in the applet.

The Siebel Web Engine converts these tags into HTML to render the controls on the Web page. The `WebApplet_ShowControl` event is triggered for each of these tags after the Siebel Web Engine has generated the HTML for rendering the control, but before the generated HTML is sent back to the browser. This gives the scripts a chance to modify the generated HTML before it is shown.

In the first example, the event fires only once, after the Siebel Web Engine generates the HTML for the `<swe: control>` tag. In the second example, this event gets fired twice. The event is first fired when the Siebel Web Engine has generated the HTML for the `<swe: this>` tag. The event is fired again when the Siebel Web Engine has generated the HTML for the outer `<swe: control>` tag; that is, after everything between the `<swe: control>` and `</swe: control>` tags, including the `<swe: this>` tag, is converted into HTML. The script can distinguish between these two event calls by the value of the property attribute of the tag that is passed as an argument to the event.

The `WebApplet_ShowControl` event is supported in Standard Activity applications only.

Used With

Server Script

Example

This Siebel eScript script displays negative amounts in red in a read-only form:

```
function WebApplet_ShowControl (Control Name, Property, Mode, &HTML)
{
    var BC = this.BusComp();
    if( Control Name == "Amount" && Mode == "Base" && Property == "FormattedHTML")
    {
        var amount = ToNumber(BC.GetFieldValue ("Transaction Amount"));
        if (amount < 0)
            HTML = "<FONT Color=Red> " + HTML + " </FONT>";
    }
}
```

WebApplet_ShowListColumn Event

This event allows scripts to modify the HTML generated by the Siebel Web Engine to render a list column on a Web page in an application running in standard interactivity mode.

Syntax

WebApplet_ShowListColumn (*columnName*, *property*, *mode*, *HTML*)

Argument	Description
columnName	A string indicating the name of the list column to be rendered
property	A string indicating the value of the property attribute of the swe: control or swe: this tag that triggers this event; it can also be a empty string if this attribute is not specified for the tag.
mode	The mode of the applet that is being shown; possible modes are: <ul style="list-style-type: none"> ■ Base ■ Edit ■ New ■ Query ■ Sort
HTML	The HTML generated by the Siebel Web Engine for the swe: control or swe: this tag that triggers this event

Returns

Not applicable

Usage

The generated HTML depends on the list column, the property being shown, and the mode of the applet. The script can modify the value of the HTML argument, and the Siebel Web Engine sends the modified value back to the Web browser.

Customer applications render the layout of applets using template files (.swt files). These are HTML files that contain special placeholder tags that indicate where a control is to be rendered. These control placeholder tags (<swe: control >) can be included in the following two ways:

- The <swe: control > tag by itself is used to show a list column:

```
<swe: control id="1" property="DisplayName" />
```

- The <swe: control > tag and <swe: this > tag are used to show a list column:

```
<swe: control id="1">
.
.
.
<swe: this property="DisplayName" />
.
.
.</swe: control >
```

In the first instance, if the list column ID is mapped to a list column in the applet using Siebel Tools, Siebel Web Engine renders the DisplayName property of the list column at the point where this tag is placed in the template file.

In the second instance, the Siebel Web Engine renders the DisplayName property of the list column at the point where the <swe: this> tag is placed in the template file. The outer <swe: control > tag in this case is used only to check if the list column ID is mapped to an actual list column in the applet.

The Siebel Web Engine converts these tags into HTML to render the list columns on the Web page. The WebApplet_ShowListColumn event is triggered for each of these tags after the Siebel Web Engine has generated the HTML for rendering the list column, but before the generated HTML is sent back to the browser. This gives the scripts a chance to modify the generated HTML before it is shown.

In the first example, the event fires only once, after the HTML for the <swe: control > tag is generated by the Siebel Web Engine. In the second example, this event is triggered twice. The event is first triggered when the Siebel Web Engine has generated the HTML for the <swe: this> tag. The event is fired again when the Siebel Web Engine has generated the HTML for the outer <swe: control > tag; that is, after everything between the <swe: control > and </swe: control > tags, including the <swe: this> tag, is converted into HTML. The script can distinguish between these two event calls by the value of the property attribute of the tag that is passed as an argument to the event.

The WebApplet_ShowListColumn event is supported in Standard Activity applications only.

Used With

Server Script

Example

This Siebel VB script displays negative amounts in a list in red:

```
Sub WebApplet_ShowListColumn (ColumnName As String, Property As String, Mode As String, HTML As String)

    Dim amount as Double

    If ColumnName = "Amount" and Mode = "Base" and Property = "FormattedHTML" Then
        If HTML < 0 Then
            HTML = "<FONT Color=Red> " + HTML + " </FONT>"
        End If
    End If
End Sub
```

The following example is in Siebel eScript:

```
function WebApplet_ShowListColumn (ColumnName, Property, Mode, &HTML)
{
    if ((ColumnName == ' Amount' ) && (Mode == "Base") && (Property == "FormattedHTML"))
    {
        var val = HTML. valueOf();
        if (val < 0)
            HTML = "<FONT Color=Red> " + HTML + " </FONT>";
        }
    }
}
```

Application Methods

The following methods are built-in methods that return the current Siebel Application object instance:

- `TheApplication` when called from Siebel VB within Siebel Tools,
- `TheApplication()` (case-sensitive) when called from Siebel eScript within Siebel Tools
- `theApplication()` (case-sensitive) when called from Browser Script within Siebel Tools

If an Application method applies to one scripting language, then the Syntax definition in the method's section includes `TheApplication`, `TheApplication()`, or `theApplication()` specifically.

If a method applies to external interfaces or to more than one scripting language, and thus to more than one syntax, then the Syntax definition includes *Application*, which denotes that:

- The applicable construct should be substituted for *Application* in Siebel VB, Siebel eScript, or Browser Script
- The name of an Application instance should be substituted for *Application* when you use external interfaces.

Examples of Application methods used by external interfaces frequently include `SiebelApplication` as the Application instance. You should understand that the examples assume that `SiebelApplication` is instantiated in the script, whether the instantiation statement is included in the example or not.

This section includes documentation for the following Application methods:

- ["ActiveApplet Method" on page 120](#)
- ["ActiveBusComp Method" on page 121](#)
- ["ActiveBusObject Method" on page 122](#)
- ["ActiveViewName Method" on page 124](#)
- ["Attach Method" on page 125](#)
- ["CurrencyCode Method" on page 127](#)
- ["Detach Method" on page 128](#)
- ["EnableExceptions Method" on page 129](#)
- ["FindApplet Method" on page 131](#)
- ["GetBusObject Method" on page 131](#)
- ["GetDataSource Method" on page 143](#)
- ["GetLastErrCode Method" on page 133](#)
- ["GetLastErrText Method" on page 134](#)
- ["GetProfileAttr Method" on page 135](#)
- ["GetService Method" on page 135](#)
- ["GetSharedGlobal Method" on page 138](#)

- ["GotoView Method" on page 139](#)
- ["InvokeMethod Method" on page 142](#)
- ["IsViewReadOnly Method" on page 144](#)
- ["LoadObjects Method" on page 146](#)
- ["Login Method" on page 148](#)
- ["LoginId Method" on page 150](#)
- ["LoginName Method" on page 151](#)
- ["Logoff Method" on page 152](#)
- ["LookupMessage Method" on page 153](#)
- ["LookupValue Method" on page 145](#)
- ["Name Method" on page 154](#)
- ["NewPropertySet Method" on page 154](#)
- ["PositionId Method" on page 156](#)
- ["PositionName Method" on page 157](#)
- ["RaiseError Method" on page 158](#)
- ["RaiseErrorText Method" on page 159](#)
- ["SetPositionId Method" on page 161](#)
- ["SetPositionName Method" on page 162](#)
- ["SetProfileAttr Method" on page 162](#)
- ["SetSharedGlobal Method" on page 164](#)
- ["ShowModalDialog Method" on page 166](#)
- ["SWEAlert Method" on page 168](#)
- ["Trace Method" on page 169](#)
- ["TraceOff Method" on page 171](#)
- ["TraceOn Method" on page 172](#)

ActiveApplet Method

ActiveApplet returns a reference to the applet that currently has focus.

Syntax

```
theApplication().ActiveApplet();
```

Argument	Description
Not applicable	

Returns

The name of the applet instance that has focus

Usage

Use this method to determine which applet currently has focus. The applet typically has a blue border to show that it is active.

Used With

Browser Script

Example

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  switch (name)
  {
    case "Drilldown":
      var activeapplet = theApplication().ActiveApplet();
      var activeappletname = activeapplet.Name();
      theApplication().SWEAlert("Here is the applet we are drilling down from "
        + activeappletname);
      break;
  }
  return ("ContinueOperation");
}
```

ActiveBusComp Method

ActiveBusComp returns the business component associated with the active applet.

Syntax

```
theApplication().ActiveBusComp();
```

Argument	Description
Not applicable	

Returns

The business component associated with the active applet

Used With

Browser Script

Example

```
function Applet_Load ()
{
    var activeBC = theApplication().ActiveBusComp();
    activeBC = activeBC.Name();
    theApplication().SWEAlert(activeBC);
}
```

ActiveBusObject Method

ActiveBusObject returns the business object of the active view.

Syntax

Application.ActiveBusObject

Argument	Description
Not applicable	

Returns

The business object of the active view

Usage

Do not use ActiveBusObject in any event handler that may be initiated by the COM Data Server, COM Data Control, or Java Data Bean. If you use ActiveBusObj() you get the business object that exists already (if there is one). If you use GetBusObject() instead, any child Business components are ALWAYS new ones, even if you have some already.

Used With

Browser Script, Mobile Web Client Automation Server, Server Script

Example

The following example is in Browser Script:

```
function Applet_Load ()
{
    var oBusObj;
```

```

oBusObj = theApplication().ActiveBusObject();
theApplication().SWEAlert("The active business object is " + oBusObj.Name() +
".")
}

```

The following samples show an example of server side script that could be invoked from a custom button on a child applet within a view. The script first checks to see if the Contact business object is active, and if so, retrieves the email address of the currently active parent Contact record. The custom 'SendEmail()' function is then invoked using the Contact's email address. Note that the objects are not destroyed at the end of the script, as they are the ones that are currently active in the user interface.

The following example is in Siebel eScript:

```

function WebApplet_PreInvokeMethod (MethodName)
{
  if (MethodName == "Send Email")
  {
    var oB0 = TheApplication().ActiveBusObject();

    if (oB0.Name() == "Contact")
    {
      var oBC = oB0.GetBusComp("Contact");
      var sEmail = oBC.GetFieldValue("Email Address");

      SendMail(sEmail);

      sEmail = "";
    }
    return (CancelOperation);
  }
  return (ContinueOperation);
}

```

The following example is in Siebel VB:

```

Function WebApplet_PreInvokeMethod (MethodName As String) As Integer

Dim iRtn As Integer
iRtn = ContinueOperation

If MethodName = "Send Email" Then

Dim oB0 As BusObject
Set oB0 = TheApplication.ActiveBusObject()

If oB0.Name() = "Contact" Then

Dim oBC As BusComp
Dim sEmail As String

Set oBC = oB0.GetBusComp("Contact")

sEmail = oBC.GetFieldValue("Email Address")

SendEmail(sEmail)

```

```

        sEmail = ""
    End If

    iRtn = CancelOperation
End If

WebApplet_PreInvokeMethod = iRtn
End Function

```

ActiveViewName Method

ActiveViewName returns the name of the active view.

Syntax

Application.ActiveViewName

Argument	Description
Not applicable	

Returns

A string containing the active view name

Usage

Do not use the ActiveViewName method in any event handler that may be initiated by the COM Data Server, COM Data Control, or Java Data Bean.

Used With

Browser Script, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel eScript:

```

function BusComp_PreSetFieldValue (FieldName, FieldValue)
{
    switch(FieldName)
    {
        case "Name":
        case "Location":
        case "Account Status":
        case "Alias":
        case "City":
        case "Country":
        case "Currency Code":

```

```

case "Current Volume":
case "DUNS Number":
case "Expertise":
case "Freight Terms":
case "Freight Terms Info":
case "Home Page":
case "Industry":
case "Location":
case "Main Phone Number":
case "Main Fax Number":
case "Sales Rep":
var sActiveViewName = TheApplication().ActiveViewName();
if (sActiveViewName == "All Accounts across Organizations")
{
    TheApplication().RaiseErrorText("You cannot update the " + FieldName +
        " on the " + sActiveViewName + " View");
}
break;
}
return (ContinueOperation);
}

```

Attach Method

The Attach method allows an external application to reconnect to an existing Siebel session.

Syntax

Application.Attach(sessionString)

Argument	Description
sessionString	A string containing the Siebel Session Id. The sessionString is typically the output of the Detach method.

Returns

Boolean indicating whether or not the method was successfully executed

Used With

COM Data Control, Java Data Bean

Examples

Each of these examples instantiates the first COM Data Control instance, logs in to a Siebel Server, detaches this instance, and then gains the session string. It then instantiates the second COM Data Control instance. It does not need to log in again, as it attaches to the existing session by using the session string. This reuses the connection created by the first instance.

The following example is for COM Data Control and is written in native Visual Basic:

```

Dim Siebel Application_first As Siebel DataControl
Dim Siebel Application_second As Siebel DataControl
Dim errorCode As Integer
Dim sessionString As String
Dim attachResult As Boolean
Dim errText As String

' Instantiate the first instance
Set Siebel Application_first = CreateObject("Siebel DataControl . Siebel DataControl . 1")

' Login to Siebel
Siebel Application_first.Login "host=""Siebel . tcpi p. none. none: //<virtual
ip>: <port>/<enterprise>/<object manager>""", "<user id>", "<password>"

errorCode = Siebel Application_first.GetLastError
If errorCode <> 0 Then
    errText = Siebel Application_first.GetLastErrorText
    MsgBox errText
    Exit Sub
End If

' Detach this instance from Siebel and get session id
sessionString = Siebel Application_first.Detach
MsgBox "The session string is: " & sessionString

' Instantiate the second instance
Set Siebel Application_second =
CreateObject("Siebel DataControl . Siebel DataControl . 1")

' Attach the existing session to this instance
attachResult = Siebel Application_second.Attach(sessionString)
If (attachResult = True) Then
    MsgBox "Session attached!"
Else
    MsgBox "Session attach failed"
End If

Siebel Application_second.LogOff
Set Siebel Application_second = Nothing
Set Siebel Application_first = Nothing

```

The following example is for Java Data Bean:

```

import com.siebel.data.*;
import com.siebel.data.SiebelException;

public class JDBAttachDetachDemo
{
    private Siebel DataBean m_dataBean_first = null;
    private Siebel DataBean m_dataBean_second = null;

```

```

public static void main(String[] args)
{
    JDBAttachDetachDemo demo = new JDBAttachDetachDemo();
}

public JDBAttachDetachDemo()
{
    try
    {
        // Instantiate the Siebel Data Bean
        m_dataBean_first = new SiebelDataBean();

        // Login to the servers
        m_dataBean_first.login("siebel.tcpi.p.none.none://<virtual ip>: 2320/
        <enterprise>/<object manager name>", "<user id>", "<password>");

        System.out.println("Logged in to the Siebel server ");

        //Get the Detach Handle
        String detachHandle = m_dataBean_first.detach();
        System.out.println("The session id is: " + detachHandle);

        // Instantiate another Java Data Bean
        SiebelDataBean m_dataBean_second = new SiebelDataBean();

        // Do Attach
        System.out.println("Attaching in to the Siebel server ");
        m_dataBean_second.attach(detachHandle);
        System.out.println("Attach Done ");

        // Logoff
        m_dataBean_second.logoff();
    }

    catch (SiebelException e)
    {
        System.out.println(e.getMessage());
    }
}
}

```

CurrencyCode Method

CurrencyCode returns the operating currency code associated with the division to which the user's position has been assigned.

Syntax

Application.CurrencyCode

Argument	Description
Not applicable	

Returns

A string containing the currency code; for example, USD for U.S. dollars, EUR for the euro, JPY for the Japanese yen.

Used With

Browser Script, COM Data Control, COM Data Server, Web Client Automation Server, Server Script

Example

The following example is in Siebel eScript:

```
function WebApplet_Load ()
{
    var currencycode;
    currencycode = TheApplication(). CurrencyCode();
    var WshShell = COMCreateObject("WScript.Shell");
    WshShell.Popup(currencycode);
}
```

Detach Method

The Detach method returns a string containing the Siebel session Id.

Syntax

Application.Detach

Argument	Description
Not applicable	

Returns

String containing the Siebel session Id.

Usage

The string returned by the Detach method should only be used with the Attach method.

Used With

COM Data Control, Java Data Bean

Examples

For a Java Data Bean sample and a native VB sample using COM Data Control, read [“Attach Method” on page 125](#).

EnableExceptions Method

The EnableExceptions method enables or disables native COM error handling.

Syntax

Application.EnableExceptions(bEnable)

Argument	Description
bEnable	A Boolean: TRUE or FALSE

Returns

Not applicable

Usage

Setting the argument to TRUE enables native error handling. This allows applications to intercept and display the exception ID and description. Native COM error handling is disabled by default.

Used With

COM Data Control, Mobile Web Client Automation Server

Examples

This native Visual Basic script uses the Siebel ActiveX Data Control to connect to the Siebel Application and instantiate a business object. The script prompts the user to select whether the native error handling is to be enabled or not. If yes, the script throws the error immediately when it gets an error. If not, the script suppresses Siebel errors and errors are only detected by using GetLastErrorCode method.

```

Dim SiebelApplication As SiebelDataControl
Dim errorCode As Integer
Dim wrongBO As SiebelBusObject

Dim nativeHandle As String

Set SiebelApplication = CreateObject("SiebelDataControl.SiebelDataControl.1")

' Login to Siebel

```

```

Siebel Application_fir st. Logi n "host=""Siebel . tcpi p. none. none: //<virtual
ip>: <port>/<enterprise>/<object manager>""", "<user id>", "<password>"

nativeHandle = InputBox("Use native error handling?", "", "Yes")

If nativeHandle = "Yes" Then
    Siebel Application. EnableExceptions (True)
Else
    Siebel Application. EnableExceptions (False)
End If

Set wrongB0 = Siebel Application. GetBusObject("No Such One") 'intended to create an
error at this line by instantiating a non-existing Business Object

errCode = Siebel Application. GetLastErrCode()
If errCode <> 0 Then 'if native error handle is disabled, this block detects it
    ErrText = Siebel Application. GetLastErrText
    MsgBox ErrText
    Exit Sub
End If

```

This Visual Basic sample code uses the Siebel Mobile Automation Server to connect to the Siebel Application and instantiate a business object. The program prompts the user to select whether the native error handling is to be enabled or not. If yes, the script throws the error immediately when it gets an error. If not, the script suppresses Siebel errors and errors are only detected by using GetLastErrCode method.

```

Dim SiebelApp As Siebel WebApplication
Dim errCode As Integer
Dim wrongB0 As Siebel BusObject

Set SiebelApp = CreateObject("TWSiebel . Siebel WebApplication. 1")

Dim nativeHandle As String
nativeHandle = InputBox("Use native error handle?", "", "Yes")

If nativeHandle = "Yes" Then
    SiebelApp. EnableExceptions (True)
Else
    SiebelApp. EnableExceptions (False)
End If

Set wrongB0 = SiebelApp. GetBusObject("No Such One") 'intended to create an error at
this line by instantiating a non-existing Business Object

errCode = SiebelApp. GetLastErrCode()
If errCode <> 0 Then 'if native error handle is disabled, this block detects it
    ErrText = SiebelApp. GetLastErrText
    MsgBox ErrText
    Exit Sub
End If

```

FindApplet Method

FindApplet returns the applet that is identified by the *appletName* argument.

Syntax

```
theApplication().FindApplet(appletName)
```

Argument	Description
<i>appletName</i>	String variable or literal containing the name of the desired applet.

Returns

The applet identified in *appletName*

Usage

The only applets available are applets visible in the active view.

Used With

Browser Script

Example

The following example is in Browser Script:

```
function Applet_ChangeFieldValue (field, value)
{
  if (theApplication().ActiveViewName() == "Account List View")
  {
    var newapplet = theApplication().FindApplet("Account Entry Applet");
    var entryappletcontrol = newapplet.FindControl("Name");
    var entryappletvalue = entryappletcontrol.GetValue();
    theApplication().SWEAlert(entryappletvalue);
  }
}
```

GetBusObject Method

The GetBusObject method instantiates and returns a new instance of the business object specified in its argument.

Syntax

Application.GetBusObject(*busObjectName*)

Argument	Description
<i>busObjectName</i>	String variable or literal containing the name of the business object to instantiate.

Returns

The business object instance specified in the argument

Usage

Set the business object to Nothing to destroy the instantiated business object after it is no longer needed. If you use ActiveBusObj() you get the business object that exists already (if there is one). If you use GetBusObject() instead, any child business components are ALWAYS new ones, even if you have some already.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

The following examples always instantiate and return a new instance of the business object specified in the argument, which is the Account business object.

The following example is in Siebel eScript:

```
var oBusObject = TheApplication().GetBusObject("Account");
var oBusComp = oBusObject.GetBusComp("Account");

[ Your code here ]

oBusComp = null;
oBusObject = null;
```

The following example is in Siebel VB:

```
Dim AccntB0 as BusObject
Dim AccntBC as BusComp
Dim AddrBC as BusComp
Set AccntB0 = TheApplication.GetBusObject("Account")
Set AccntBC = AccntB0.GetBusComp("Account")

[ your code here]

Set AccntB0 = Nothing
Set AccntBC = Nothing
```

The following examples instantiate and return a new instance of the business object as did the previous example. However, the difference is that the business object returned could vary depending on the location from which the code is invoked, such as a Web applet event. This is useful when you want to refer to the currently active business object.

The following example is for Java Data Bean:

```
private SiebelDataBean m_dataBean = null;
private SiebelBusObject m_busObject = null;
m_busObject = m_dataBean.getBusObject("Opportunity");
```

The following example is in Siebel eScript:

```
var oBO = TheApplication().GetBusObject(this.BusObject.Name);
```

The following example is in Siebel VB:

```
Dim oBO as BusObject
Dim oBC as BusComp
Set oBO = TheApplication.GetBusObject(Me.BusObject.Name)
```

GetLastErrCode Method

The GetLastErrCode method returns the last error execution status.

Syntax

Application.GetLastErrCode

Argument	Description
Not applicable	

Returns

A short integer containing the last error execution status: 0 indicates no error.

Usage

After execution of a method, the GetLastErrCode can be invoked to check if any error was returned from the previous operation. GetLastErrText method can be invoked to retrieve the text of the error message. Each method invocation resets the execution status.

Used With

COM Data Control, Mobile Web Client Automation Server, Web Client Automation Server

Example

The following example is for COM Data Control. Siebel Application is an Application instance.

```

errcode = Siebel Application.GetLastErrorCode
If errcode <> 0 Then
    ErrText = Siebel Application.GetLastErrorText
    MsgBox ErrText
    Exit Sub
End If

```

Related Topic

[“GetLastErrorText Method” on page 134](#)

GetLastErrorText Method

The GetLastErrorText method returns the last error text message.

Syntax

Application.GetLastErrorText

Argument	Description
Not applicable	

Returns

The last error text message as a string

Used With

COM Data Control, COM Data Server, Mobile Web Client Automation Server, Web Client Automation Server

Example

The following example is for COM Data Control. Siebel Application is an Application instance.

```

errcode = Siebel Application.GetLastErrorCode
If errcode <> 0 Then
    ErrText = Siebel Application.GetLastErrorText
    MsgBox ErrText
    Exit Sub
End If

```

Related Topic

[“GetLastErrorCode Method” on page 133](#)

GetProfileAttr Method

GetProfileAttr returns the value of an attribute in a user profile.

Syntax

Application.GetProfileAttr(*name*)

Argument	Description
<i>name</i>	A string indicating the name of the attribute

Returns

The value of the attribute *name*

Usage

GetProfileAttr is used in personalization to retrieve values of attributes in a user profile. It cannot be used with system fields, except Id, because they are not explicitly defined in the Personalization Profile business component. For more information on profile attributes, see *Siebel Personalization Administration Guide*.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

The following example is in Browser Script:

```
var myprofile = theApplication().GetProfileAttr("Hobby");
```

The following example is in Siebel eScript:

```
var myprofile = TheApplication().GetProfileAttr("Hobby");
```

The following example is in Siebel VB:

```
Dim myprofile As String
myprofile = TheApplication.GetProfileAttr("Hobby")
```

Related Topic

["SetProfileAttr Method" on page 162](#)

GetService Method

The GetService method returns a specified business service. If the business service is not already running, it is constructed.

Syntax

Application.GetService(serviceName)

Argument	Description
<i>serviceName</i>	The name of the service to start

Returns

A reference to the requested business service

Usage

This method finds the business service indicated by *serviceName*; it constructs the service if it is not already running. It first searches through the built-in services that are stored in the repository. If the business service is not found, *GetService* searches through services defined in the run-time Business Services table.

A business service is normally deleted from memory as soon as every reference to it, such as local or global variables, is cleared by setting it to another value. However, if the Cache flag on the business service is set, the service remains in memory as long as the Siebel application is running.

To invoke a business service using the Web Client Automation Server and Browser Script, the business service must first be registered in Siebel Tools as an application user property. This prevents Service Not Found errors.

To register a business service

- 1 In Siebel Tools, select the Application object in the Object Explorer.
- 2 Select the desired application, for example Siebel Universal Agent, in the Object List Editor.
- 3 In the Object Explorer, expand the Application object, and then choose Application User Prop.
- 4 In the Object List Editor, create new application user property records as needed:

Name	Value
ClientBusinessService0	XML Converter
ClientBusinessService1	My Business Service

NOTE: *ClientBusinessService n* entries must be sequential, starting at 0 and incrementing by 1.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Examples

The following examples instantiate a business service named Workflow Process Manager.

The following example is in Browser Script:

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  if (name == "MyCustomMethod")
  {
    var oBS;
    var inpPS;
    var outPS;
    inpPS = theApplication().NewPropertySet();
    outPS = theApplication().NewPropertySet();
    oBS = theApplication().GetService("Workflow Process Manager");
    outPS = oBS.InvokeMethod("RunProcess", inpPS);
    inpPS = null;
    outPS = null;
    return ("Cancel Operation");
  }
  else
  {
    return ("ContinueOperation");
  }
}
```

The following example is in Siebel eScript:

```
function WebApplet_PreInvokeMethod (MethodName)
{
  if (MethodName == "MyCustomMethod")
  {
    var oBS;
    var inpPS;
    var outPS;
    inpPS = TheApplication().NewPropertySet();
    outPS = TheApplication().NewPropertySet();
    oBS = TheApplication().GetService("Workflow Process Manager");
    oBS.InvokeMethod("RunProcess", inpPS, outPS);
    inpPS = null;
    outPS = null;
    oBS = null;
    return (Cancel Operation);
  }
  else
  {
    return (ContinueOperation);
  }
}
```

The following example is in Siebel VB:

```
Function WebApplet_PreInvokeMethod (MethodName As String) As Integer
If MethodName = "MyCustomMethod" Then
  Dim oBS As Service
  Dim inpPS As PropertySet
  Dim outPS As PropertySet
  Set inpPS = TheApplication.NewPropertySet
```

```

Set outPS = TheApplicati on.NewPropertySet
Set oBS = TheApplicati on.GetService("Workfl ow Process Manager")
oBS.InvokeMethod "RunProcess", inpPS, outPS
Set inpPS = Nothing
Set outPS = Nothing
Set oBS = Nothing
WebAppl et_Prel nvokeMethod = Cancel Operati on
El se
WebAppl et_Prel nvokeMethod = Conti nueOperati on
End If
End Functi on
    
```

GetSharedGlobal Method

Shared global variables are unique to the user and the user's associated session. One user's global variables are not visible to other users. The variables are global to the current user and session only. The GetSharedGlobal method gets the shared user-defined global variables.

Syntax

Application.GetSharedGlobal(*varName*)

Argument	Description
<i>varName</i>	String literal or variable containing the name of the global variable

Returns

A string containing the user-defined global variables.

Usage

```
GetSharedGlobal (" varName ")
```

retrieves the string set by:

```
SetSharedGlobal " varName ", " stringValue ".
```

Used With

COM Data Control, COM Data Server, Mobile Web Client Automation Server, Server Script

Examples

In the following examples, the GetSharedGlobal method is called to get a global variable called myGlobalVar. The global variable was originally set using the SetSharedGlobal method in the Application_Start event. The global variable can be accessed from any event. For these examples, in the BusComp_WriteRecord event, the GetSharedGlobal method is called to retrieve myGlobalVar.

The following example is for COM. Siebel Appli cati on is an Application instance.

```

Dim sReturn as String
oleVar = Siebel Appl i cati on. GetSharedGlo bal ("myGlo bal Var", errCode)
Siebel Appl i cati on. SetSharedGlo bal "myGlo bal Var", " hel l oworl d", errCode

```

The following example is in Siebel eScript:

```

functi on Appl i cati on_Start (CommandLi ne)
{
  TheAppl i cati on(). SetSharedGlo bal ("myGlo bal Var", "hel l oworl d");
}

functi on BusComp_Wri teRecord ()
{
  var myVar;
  myVar = TheAppl i cati on(). GetSharedGlo bal ("myGlo bal Var");
}

```

The following example is in Siebel VB:

```

Sub Appl i cati on_Start (CommandLi ne As Stri ng)
  TheAppl i cati on. SetSharedGlo bal "myGlo bal Var", "hel l oworl d"
End Sub

Sub BusComp_Wri teRecord
  Dim myVar as Stri ng
  myVar = TheAppl i cati on. GetSharedGlo bal ("myGlo bal Var")
End Sub

```

Related Topic

["SetSharedGlobal Method" on page 164](#)

GotoView Method

GotoView activates the named view and its BusObject. As a side effect, this method activates the view's primary applet and its BusComp and activates the primary applet's first tab sequence control. Further, this method deactivates any BusObject, BusComp, applet, or control objects that were active prior to this method call.

Syntax

Application.GotoView(*ViewName*[, *BusinessObjectName*])

Argument	Description
<i>ViewName</i>	The name of the view for the Siebel application to display
<i>BusinessObjectName</i>	An optional argument to specify the business object to use for displaying the view. You cannot specify the current active business object as an argument to GotoView. If this argument is not supplied, or is specified as Nothing, a new business object is loaded in the normal fashion.

Returns

Not applicable

Usage

If a business object has not been instantiated, *BusinessObjectName* should have the value *Nothing*.

NOTE: The *GotoView* method is not supported in the following events: *Application_Navigate*, *Application_PreNavigate*, *Application_Start*, *Navigate*, *PreNavigate*, and *WebApplet_Load*.

The following Siebel VB script uses *GotoView* to programmatically navigate to the Opportunity List view.

```
TheAppl i cati on. GotoVi ew "Opportuni ty Li st Vi ew", Nothi ng
```

Alternatively, if your application has already instantiated an Opportunity object with the object reference of *objOppty*, the appropriate usage in Siebel VB is:

```
TheAppl i cati on. GotoVi ew "Opportuni ty Li st Vi ew", obj Oppty
```

NOTE: When this method is used in a Siebel VB or eScript script, regardless of where it appears in the script, it is executed last.

The Control property "Show Popup" should not be set to TRUE on a button if there is underlying script that uses *GotoView*. If Show Popup is set to TRUE and *GotoView* is used, the view is opened in a new browser window. The Siebel client UI does not support a Multiple Document Interface (MDI) architecture, so this combined configuration and scripted call to *GotoView* is not supported.

Used With

Server Script

Example

The following examples show how to use *GoToView* with and without the optional business object parameter.

The following example is in Siebel eScript:

```
functi on BusComp_Wri teRecord ()
{
    var l eadQual i ty;
    var actName;
    var actB0;
    var actBC;

    //Get the lead qual i ty for thi s opportuni ty
    l eadQual i ty = thi s. GetFi el dVal ue("Qual i ty");
    i f(l eadQual i ty == "1-Excel l ent")
    {
```

```

//If it is a excellent lead,
//go to the account for this opportunity
actName = this.GetFieldVal ue("Account");
actB0 = TheAppl i cati on().GetBusObj ect("Account");
actBC = actB0.GetBusComp("Account");

with (actBC)
{
    SetVi ewMode(Al l Vi ew);
    Cl earToQuery();
    SetSearchSpec("Name", actName);
    ExecuteQuery(ForwardBackward);
}

TheAppl i cati on().GotoVi ew("Al l Account Li st Vi ew", actB0);
}
else
{
    TheAppl i cati on().GotoVi ew("Opportuni ty Detai l - Acti vi ti es Vi ew");
}

actBC = null ;
actB0 = null ;
}

```

The following example is in Siebel VB:

```

Sub BusComp_Wri teRecord

    Dim LeadQuali ty As String
    Dim actName As String
    Dim actB0 As BusObj ect
    Dim actBC As BusComp

    'Get the lead quali ty For thi s opportuni ty
    LeadQuali ty = Me.GetFi el dVal ue("Qual i ty")
    If (LeadQuali ty = "1-Excel l ent") Then

        ' If it is an excell ent lead
        ' go to the account For thi s opportuni ty
        actName = Me.GetFi el dVal ue("Account")
        Set actB0 = TheAppl i cati on. GetBusObj ect("Account")
        Set actBC = actB0. GetBusComp("Account")

        With actBC
            . SetVi ewMode Al l Vi ew
            . Cl earToQuery
            . SetSearchSpec "Name", actName
            . ExecuteQuery
        End With

        TheAppl i cati on. GotoVi ew "Al l Account Li st Vi ew", actB0
    End If
End Sub

```

```

Else
    TheApplicati on.GotoView "Opportuni ty Detai l - Acti vi ti es Vi ew"
End If

Set actBC = Nothi ng
Set actBO = Nothi ng

End Sub

```

InvokeMethod Method

InvokeMethod calls a specialized method or user-defined method specified by its argument.

Browser Script Syntax

```
theApplication().InvokeMethod(methodName, methodArgs);
```

Argument	Description
<i>methodName</i>	The name of the method.
<i>methodArgs</i>	One or more strings containing arguments to <i>methodName</i> .

Server Script Syntax

```
Application.InvokeMethod(methodName, methodArgs);
```

Argument	Description
<i>methodName</i>	The name of the method.
<i>methodArg1</i> , <i>methodArg2</i> , ..., <i>methodArgN</i>	One or more strings containing arguments to <i>methodName</i> .

Returns

In Server Script, returns a string containing the result of the method

In Browser Script, returns a Boolean

Usage

InvokeMethod allows you to call methods on an Application object that is exposed directly through the Application interface.

NOTE: The InvokeMethod method should be used only with documented specialized methods. Oracle does not support calling specialized methods with InvokeMethod unless they are listed in this book.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For an example, read [“InvokeMethod Method” on page 100](#).

InvokeMethod Methods for the Application Object

The following methods are supported for use with InvokeMethod:

- [“GetDataSource Method” on page 143](#)
- [“IsViewReadOnly Method” on page 144](#)
- [“Language Method” on page 145](#)
- [“LookupValue Method” on page 145](#)

GetDataSource Method

Returns the name of the data source, as defined in the DataSource server parameter, that is being used for the session. (The default is ServerDataSrc.)

Syntax

```
dataSrc = Application.InvokeMethod("GetDataSource")
```

Argument	Description
Not applicable	

Returns

A string containing the value of the data source currently used by the application.

Used With

This method is supported by *Application.InvokeMethod()* calls in COM Data Control, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following eScript example detects the data source and displays its name in a dialog box.

```
var dataSrc = TheApplication().InvokeMethod("GetDataSource");
TheApplication().RaiseErrorText(dataSrc);
```

The following is the same example in Siebel VB.

```
Dim dataSrc As String
dataSrc = TheApplication.InvokeMethod("GetDataSource")
TheApplication.RaiseErrorText(dataSrc)
```

IsViewReadOnly Method

You can use the `IsViewReadOnly` method to test whether a view is read-only.

Syntax

```
Application.InvokeMethod("IsViewReadOnly", viewName)
```

Argument	Description
<i>viewName</i>	The name of a view, as defined in Siebel Tools, in double quotes or a variable containing the name of a view.

Returns

Returns TRUE if the view is read-only, else it returns FALSE. If neither of these values is returned, then an error has occurred. Your script should provide a handler if neither TRUE nor FALSE is returned.

Usage

You can set a view as read-only for particular responsibilities in the Responsibility Administration view. One use of the `IsViewReadOnly` method is to determine whether such a view is read-only for the current responsibility before attempting to edit a field.

Buttons are not automatically set to read-only on views that are read-only due to the view-responsibility association, so another application is to set buttons to read-only in views for which `IsViewReadOnly` returns TRUE.

Used With

This method is supported by `Application.InvokeMethod()` calls in Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following example for Siebel eScript determines whether the active view is read only:

```
function ShowViewROStatus()
{
var sActive = TheApplication().ActiveViewName();
if (TheApplication().InvokeMethod("IsViewReadOnly", sActive) == "TRUE")
TheApplication().RaiseErrorText(sActive + " is read only.");
```

```

else
    TheAppl i cati on(). Rai seErrorText(sActi ve + "i s not read onl y. ");
}

```

Language Method

Retrieves the language code of the language in which the active application is running.

Syntax

Application.InvokeMethod("Language");

Argument	Description
Not applicable	

Returns

The language code of the active application, for example ENU

Used With

This method is supported by *Application*.InvokeMethod() calls in Server Script.

Example

Siebel VB:

```

Dim curLang As String
curLang = TheAppl i cati on. I nvokeMethod("Language")

```

Siebel eScript:

```

var curLang;
curLang = TheAppl i cati on(). I nvokeMethod("Language");

```

LookupValue Method

Finds a row in S_LST_OF_VAL where the TYPE column matches the type argument, the CODE column matches the lang_ind_code argument, and the LANG_ID column matches the language code of the currently active language. This function is used to obtain the translation of the specified untranslated value in the specified LOV into the currently active language.

Syntax

```
val = Application.InvokeMethod("LookupValue", type, lang_ind_cd)
```

Argument	Description
<i>type</i>	Type as specified in the List of Values administration view.
<i>lang_ind_cd</i>	Language independent code value as specified in the List of Values administration view.

Returns

Returns a string containing the display value (the VAL column) for the row. LookupValue tries to find the display value for a given language independent code. If the display value is not found, LookupValue returns the language independent code itself as the value.

Used With

This method is supported by *Application.InvokeMethod()* calls in COM Data Control, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following eScript example finds a row in S_LST_OF_VAL where the TYPE column matches the type argument, the CODE column matches the lang_ind_code argument, and the LANG_ID column matches the language code of the currently active language. This function is used to obtain the translation of the specified untranslated value in the specified LOV into the currently active language.

```
var LOVText = TheAppl i cati on(). InvokeMethod("LookupVal ue", "SR_AREA", "Network");
```

LoadObjects Method

The LoadObjects method is used to start the COM Data Server object. This method must be the first call to the COM Data Server.

Syntax

Application.LoadObjects(*absoluteCFGfileName*)

Argument	Description
<i>absoluteCFGfileName</i>	<p>The complete path and name of the CFG file to open. For example: "C:\siebel\bin\agent.cfg"</p> <p>You can optionally identify the data source in the argument to the LoadObjects method by appending to the CFG file string, separated by a comma. For example: "D:\Server\siebsrvr\bin\ENU\siebel.cfg, ServerDataSrc"</p> <p>When the data source is not specified, the LoadObjects method assumes "Local" as the data source.</p>

Returns

Nothing if successful, else throws an error

Usage

Prior to calling LoadObjects, you must change the current directory to the Siebel\bin directory.

When using COM Data Server, the COM client cannot create multiple connections to the COM Server. For example, a second attempt at calling LoadObjects() causes the error message: "The object definition manager has already been initialized." The COM client must be restarted before another connection attempt can be successful. Use COM Data Control instead.

Used With

COM Data Server

Example

The following example is for COM Data Server. Siebel Application is an Application instance.

```

Private Sub LoadConfig_Click()
    Dim errCode As Integer
    LoadConfig.Enabled = False
    SiebelApplication.LoadObjects "C:\siebel\bin\agent.cfg", _
        errCode

    If errCode = 0 Then
        ConfigOK = 1
    End If

    Status.Text = SiebelApplication.GetLastErrText
End Sub

```

LoadUserAttributes Method

The LoadUserAttributes method loads a user profile into the session.

Syntax

```
LoadUserAttributes(row_id)
```

Argument	Description
<i>row_id</i>	The row ID of the user whose profile needs to be loaded

Returns

Not applicable

Usage

This function has only one argument: the row ID of the user whose profile needs to be loaded. This loaded profile can be accessed as the "You" profile from personalization rules, with one exception: if the row ID is that of the current user, the profile will be loaded into the "Me" profile.

If this function is called with no argument, it unloads the loaded user profile.

For more information on user profiles, see *Siebel Personalization Administration Guide*.

Used With

Server Script

Example

The following Siebel VB example shows a method that loads a user profile into the session. The function is exposed on the Siebel Application Object.

```
Function LoadUserProfile As Integer
  TheApplication.InvokeMethod ("LoadUserAttributes", "0-10N07")
End Function
```

The following Siebel VB example unloads the loaded user profile:

```
Function LoadUserProfile As Integer
  TheApplication.InvokeMethod ("LoadUserAttributes", "")
End Function
```

Login Method

The Login method allows external applications to log in to the COM Data Server, COM Data Control, or Java Data Bean, and to access the Siebel objects. The Login method allows the end user to invoke the Siebel application without being prompted for a login and password. The Login method determines the privileges granted, and the role and responsibility of the end user for that session.

Syntax

```
Application.Login([connectString,] userName, password)
```

Argument	Description
<i>connectString</i>	Token-based connect string
<i>userName</i>	Username for login
<i>password</i>	User password for login

Returns

A string containing the error code

Usage

Verify that the Siebel\bin directory is the current directory. To access the Data Control, make sure the default Data Source points to the database that you wish to access and set EnableOLEAutomation to TRUE in your CFG file (this is the default value for the argument).

For information on formatting the connect string, read [“Connect String” on page 74](#).

Used With

COM Data Control, COM Data Server, Mobile Web Client Automation Server, Java Data Bean

Example

The connect string for the COM Data Control is token-based; for example:

```
host = "Siebel : //my_computer/SIEBEL/obj srvr/my_computer" lang = "ENU"
```

Because most languages use quotes to enclose text strings, you must use quotes inside parentheses; for example:

To use the COM Data Control in Visual Basic:

```
m_dataBean.Login("siebel . tcpip . none . none : //gateway : gatewayport / enterpri seserver /  
SCCObjMgr", "username", "password");
```

To use the COM Data Control in C++:

```
Login("host=\siebel : //my_computer/SIEBEL/obj svr/my_computer\ " lang =  
\ "ENU\ "" , "user", "password");
```

The following code sample illustrates how to log in to the server and check for errors:

```
Call SiebelAppControl.Login("host=""siebel : //gtwy/enterpri se/ObjMgr"" ,  
"SADMIN", "SADMIN")  
  
//Check for errors  
If SiebelAppControl.GetLastError <> 0 Then  
frmMain.txtStatus.Text = SiebelAppControl.GetLasErrText
```

```

Else
    frmMain.txtStatus.Text = "Connected successfully..."
End If

```

The following is a Java Data Bean example that logs into a Siebel Server and then logs off:

```

import com.siebel.data.*;
import com.siebel.data.SiebelException;

public class JDBLoginLogoffDemo
{
    private SiebelDataBean m_dataBean = null;
    public static void main(String[] args)
    {
        JDBLoginLogoffDemo demo = new JDBLoginLogoffDemo();
    }

    public JDBLoginLogoffDemo()
    {
        try
        {
            // instantiate the Siebel Data Bean
            m_dataBean = new SiebelDataBean();

            // login to the servers
            m_dataBean.login("siebel.tcpip.none.none://<gateway>:<port>/<enterprise>/
            <object manager>","<userid>","<password>");
            System.out.println("Logged in to the Siebel server ");

            //perform function code

            //release the business object

            // logoff
            m_dataBean.logoff();
            System.out.println("Logged off the Siebel server ");
        }

        catch (SiebelException e)
        {
            System.out.println(e.getMessage());
        }
    }
}

```

LoginId Method

The LoginId method returns the login ID of the user who started the Siebel application.

Syntax*Application.LoginId*

Argument	Description
Not applicable	

Returns

A string containing the login ID

Usage

The login ID is the value of the ROW_ID column in the user's login record in the S_USER table. When obtained, the login ID can be conveniently used as a search specification.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

In this Siebel VB example of the BusComp_PreSetFieldValue event, the LoginId method is used to determine whether the user has the right to modify a record.

```

Function BusComp_PreSetFieldValue (FieldName As String,
    FieldValue As String) As Integer
    Select Case FieldName
        Case "Account Status"
            if Me.GetFieldValue("Created By") <> _
                TheApplication.LoginId then
                TheApplication.RaiseErrorText("You cannot change Account Status " & _
                    "because you did not create the record.")
            end if
        End Select
    BusComp_PreSetFieldValue = ContinueOperation
End Function

```

LoginName Method

The LoginName method returns the login name of the user who started the Siebel application (the name typed in the login dialog box).

Syntax

Application.LoginName

Argument	Description
Not applicable	

Returns

A string containing the user’s login name

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For examples, read [“ExecuteQuery Method” on page 193](#) and [“TheApplication Method” on page 322](#).

Related Topic

[“Login Method” on page 148](#)

Logoff Method

The Logoff method disconnects the client from the server.

Syntax

Application.Logoff

Argument	Description
Not applicable	

Returns

Not applicable

Usage

For clients with user interfaces, Logoff destroys every window except for the topmost window. Logoff also deletes every object, except for the topmost object, on both client and server.

Logoff is called automatically if you destroy the main object.

Used With

COM Data Control, Java Data Bean, Mobile Web Client Automation Server

LookupMessage Method

The LookupMessage method returns the translated string for the specified key, in the current language, from the specified category. The optional arguments are used to format the string if it contains any substitution arguments (%1,%2).

Syntax

Application.LookupMessage (category, key, [arg1], [arg2],..., [argN])

Argument	Description
<i>category</i>	Name of the Message Category object, as defined in Siebel Tools, that is the parent of Key value.
<i>key</i>	Name of the Message object, as defined in Siebel Tools, whose text contains the value to be investigated.
<i>arg1, arg2, ..., argN</i>	Optional arguments used to format the error message if it contains any substitution arguments (%1, %2).

Returns

A string containing the localized message text.

Usage

Useful for retrieving locale specific custom error messages.

Used With

Server Script

Example

The following eScript example returns the text "Account Title should be entered before Stepping off." To test this under the "User Defined Errors" message category, create a new record with the following text: "%1 should be entered before Stepping Off." The parameter that is substituted in place of %1 is "Account Title", which is present in the message test.

```
var sVal = TheAppl i cation().LookupMessage("User Defi ned Errors", "Test", "Account
Ti tle");
```

Name Method

The Name method returns name of the application.

Syntax

Application.Name

Argument	Description
Not applicable	

Returns

A string containing the name of the application

Used With

Browser Script, Web Client Automation Server

NewPropertySet Method

The NewPropertySet method constructs a new property set object.

Syntax

Application.NewPropertySet

Argument	Description
Not applicable	

Returns

A property set

Usage

NewPropertySet is used primarily to construct input and output arguments for business services.

NOTE: When using NewPropertySet on an existing PropertySet object, old references to this PropertySet are lost. When reusing a PropertySet, use the Reset method on the PropertySet itself.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

This method constructs a new property set object.

The following example is in Browser Script:

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  if (name == "MyCustomMethod")
  {
    var oBS;
    var inpPS;
    var outPS;
    inpPS = theApplication().NewPropertySet();
    outPS = theApplication().NewPropertySet();
    oBS = theApplication().GetService("New Value Business Service");
    outPS = oBS.InvokeMethod("New Value Method", inpPS);
    inpPS = null;
    outPS = null;
    oBS = null;
    return ("Cancel Operation");
  }
  else
  {
    return ("ContinueOperation");
  }
}
```

The following example is for COM. Siebel Application is an Application instance.

```
Dim oBS As Siebel Service
Dim inpPS As Siebel PropertySet
Dim outPS As Siebel PropertySet
Dim errCode as integer

Set inpPS = Siebel Application.NewPropertySet errCode
Set outPS = Siebel Application.NewPropertySet errCode
Set oBS = Siebel Application.GetService("New Value Business Service", errCode)
oBS.InvokeMethod "New Value Method", inpPS, outPS, errCode
Set inpPS = Nothing
Set outPS = Nothing
Set oBS = Nothing
```

The following example is in Siebel eScript:

```
function WebApplet_PreInvokeMethod (MethodName)
{
  if (MethodName == "MyCustomMethod")
  {
    var oBS;
    var inpPS;
    var outPS;
    inpPS = TheApplication().NewPropertySet();
    outPS = TheApplication().NewPropertySet();
    oBS = TheApplication().GetService("New Value Business Service");
```

```

        oBS.InvokeMethod("New Value Method", inpPS, outPS);
        inpPS = null;
        outPS = null;
        oBS = null;
        return (Cancel Operation);
    }

    else
    {
        return (ContinueOperation);
    }
}

```

The following example is in Siebel VB:

```

Function WebAppl et_PreI nvokeMethod (MethodName As String) As Integer
    If MethodName = "MyCustomMethod" Then
        Dim oBS As Servi ce
        Dim inpPS As PropertySet
        Dim outPS As PropertySet
        Set inpPS = TheAppl i cati on. NewPropertySet
        Set outPS = TheAppl i cati on. NewPropertySet
        Set oBS = TheAppl i cati on. GetServi ce("New Val ue Busi ness Servi ce")
        oBS.InvokeMethod "New Val ue Method", inpPS, outPS
        Set inpPS = Nothi ng
        Set outPS = Nothi ng
        Set oBS = Nothi ng
        WebAppl et_PreI nvokeMethod = Cancel Operati on
    El se
        WebAppl et_PreI nvokeMethod = Conti nueOperati on
    End I f
End Functi on

```

PositionId Method

The PositionId property returns the position ID (ROW_ID from S_POSTN) of the user's current position. This is set by default when the Siebel application is started and may be changed (through Edit > Change Position) if the user belongs to more than one position.

Syntax

Application.PositionId

Argument	Description
Not applicable	

Returns

A string row ID

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

PositionName Method

The PositionName property returns the position name of the user's current position. This is set by default when the Siebel application is started.

Syntax

Application.PositionName

Argument	Description
Not applicable	

Returns

A string containing the user's position

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example checks for the position of a user changing the sales stage, and prevents changes if the user is not of the appropriate position.

```

Function BusComp_PreSetFieldValue (FieldName As String, FieldValue As String) As Integer
    Dim sPosName As String, sMsgText As String
    Select Case FieldName
        Case "Sales Stage"
            If FieldValue = "Approved" Then
                ' Do not allow the sales cycle to be changed to
                ' this value if the User is not a manager or VP.
                sPosName = TheApplication.PositionName
                If NOT ((sPosName="Manager") OR (sPosName="VP"))Then
                    TheApplication.RaiseErrorText("Only a Manager or Vice President can
                    approve a Pipeline Item. Please notify your Manager that you _
                    want to have this Pipeline Item approved.")
                End If
            BusComp_PreSetFieldValue = ContinueOperation
        End Select
    End Function

```

RaiseError Method

The RaiseError method raises a scripting error message to the browser. The error code is a canonical number. The error text is based on the specified key, looked up for the current language from the User-Defined Errors category. You can define these errors in Tools using the Message Category object. The optional arguments are used to format the string if it contains any substitution arguments (%1, %2).

Syntax

Application.RaiseError(*key*, [*arg1*], [*arg2*], ..., [*argM*])

Argument	Description
<i>key</i>	Name of the Message object, as defined in Siebel Tools, whose text contains the value to be used.
<i>arg1, arg2, ..., argN</i>	Optional arguments used to format the error message if it contains any substitution arguments (%1, %2).

Returns

Not applicable

Usage

When invoked, the RaiseError method causes execution of the script to terminate, and sends a notification to the browser. Therefore, CancelOperation is not required after RaiseError.

Internally, the RaiseError/RaiseErrorText methods raise a Server Script exception. If you have implemented error handling in your scripts, the error handling can suppress RaiseError and RaiseErrorText functionality.

If you have implemented error handling in Siebel VB, when using "On Error Goto ...", the RaiseError and RaiseErrorText methods result in the script transferring execution to the error handler. "On Error Resume Next" suppresses the RaiseError and RaiseErrorText methods.

CAUTION: Be careful when using RaiseError, because it cancels operations. For example, if it is used in BusComp_PreWriteRecord, the user or code will not be able to step off the current record until the condition causing the RaiseError method to be invoked is addressed.

Used With

Server Script

Example

In the following eScript example, the RaiseError results in a scripting exception being raised, transferring control to the catch statement. To display the error message, the error must be thrown using the throw statement.

```

function BusComp_PreDeleteRecord ()
{
  try {
    var status = this.GetFieldValue("Account Status");

    if (status == "Gold") {
      TheApplication().RaiseError(<user defined error name>);
    }
    else {
      return (ContinueOperation);
    }
  }
  catch (e) {
    throw e;
  }
}

```

The following eScript example raises the error message "This user-defined test error is used in PreDelete, as an example for RaiseError Method" when deleting an opportunity with the "Pipeline" revenue class. Note that the key "user-defined test error1" is predefined as "This user-defined test error is used in %1, as an example for %2". When the script runs, 'PreDelete' is substituted for %1 and 'Raise Error Method' is substituted for %2.

```

function BusComp_PreDeleteRecord ()
{
  try
  {
    var revClass = this.GetFieldValue("Primary Revenue Class");
    if (revClass == "1-Pipeline")
    {
      TheApplication().RaiseError("user-defined test error1", "PreDelete",
        "RaiseError Method" );
    }

    else
    {
      return (ContinueOperation);
    }
  }
  catch (e)
  {
    throw e;
  }
}

```

RaiseErrorText Method

The RaiseErrorText method raises a scripting error message to the browser. The error text is the specified literal string. The optional arguments are used to format the string if it contains any substitution arguments (%1, %2).

Syntax

Application.RaiseErrorText(*value*, [*arg1*], [*arg2*],..., [*argM*])

Argument	Description
<i>value</i>	The error text message.
<i>arg1</i> , <i>arg2</i> , ..., <i>argN</i>	Optional arguments used to format the error message if it contains any substitution arguments (%1, %2).

Returns

Not applicable

Usage

When invoked, the RaiseErrorText method stops execution of the script. Therefore, CancelOperation is not required after RaiseErrorText.

Internally, the RaiseError and RaiseErrorText methods raise a Server Script exception. Therefore, if you have implemented error handling in your scripts, the error handling can suppress RaiseError and RaiseErrorText functionality.

If you have implemented error handling in Siebel VB and are using "On Error Goto ...", the RaiseError and RaiseErrorText methods result in the script transferring execution to the error handler. "On Error Resume Next" suppresses the RaiseError and RaiseErrorText methods.

NOTE: Do not use the %s and %n formatting literals with the RaiseErrorText method. This causes unpredictable results.

CAUTION: Be careful when using RaiseErrorText, because it cancels operations. For example, if it is used in BusComp_PreWriteRecord, the user or code will not be able to step off the current record until the condition causing the RaiseErrorText method to be invoked is addressed.

Used With

Server Script

Example

In the following eScript example, the RaiseErrorText results in a scripting exception being raised, transferring control to the catch statement. For the error message to be displayed, the error must be thrown, using the throw statement.

```
function BusComp_PreDeleteRecord ()
{
  try {
    var status = this.GetFieldValue("Account Status");

    if (status == "Gold") {
      TheApplication().RaiseErrorText("Unable to delete Gold Account");
    }
  }
  else {
```

```

        return (ContinueOperation);
    }
}
catch (e) {
    throw e;
}
}

```

The following eScript example raises an error when deleting an opportunity with the “Pipeline” revenue class.

```

function BusComp_PreDeleteRecord ()
{
    try
    {
        var revClass = this.GetFieldValue("Primary Revenue Class");
        if (revClass == "1-Pipeline")
        {
            TheApplication().RaiseErrorText("Exception occurred in %1. Unable to
            delete Opportunity with %2 revenue class.", "PreDeleteRecord", revClass);
        }
        else
        {
            return (ContinueOperation);
        }
    }
    catch (e)
    {
        throw e;
    }
}
}

```

SetPositionId Method

SetPositionId sets the active position to the Position Id specified in the argument.

Syntax

Application.SetPositionId(*positionId*)

Argument	Description
<i>positionId</i>	A string containing the Position Id you would like to change to

Returns

A Boolean denoting whether or not the operation was successfully completed

Usage

When invoking the `SetPositionId` method, the `positionId` argument must contain a Position Id that has already been associated with the current, logged-in user.

Used With

COM Data Server, COM Data Control, Java Data Bean, Mobile Web Client Automation Server, Server Script

SetPositionName Method

`SetPositionName` sets the active position to the position name specified in the argument. Returns a Boolean indicating whether or not method succeeded.

Syntax

Application.SetPositionName(positionName)

Argument	Description
<i>positionName</i>	A string containing the name of the position.

Returns

A Boolean denoting whether or not the operation was successfully completed

Usage

When invoking the `SetPositionName` method, the *positionName* argument must contain a Position name that has already been associated with the current, logged-in user.

Used With

COM Data Server, COM Data Control, Java Data Bean, Mobile Web Client Automation Server, Server Script

SetProfileAttr Method

`SetProfileAttr` is used in personalization to assign values to attributes in a user profile.

Syntax

Application.SetProfileAttr(*name*, *value*)

Argument	Description
<i>name</i>	A string indicating the name of the attribute
<i>value</i>	The value of <i>name</i>

Returns

Not applicable

Usage

SetProfileAttr assigns the value *value* to the attribute in a user profile indicated by *name*. If the profile attribute specified in the argument string already exists, the corresponding persistent profile attribute in the application, defined in the Personalization Profile business component, is updated with the new value. If the profile attribute specified in the argument string does not exist in the list of persistent profile attributes, it is created as a dynamic profile attribute, without quotation marks encompassing the name.

In Browser Script, using SetProfileAttr() triggers a round trip to the server and back, creating a performance overhead each time it is used.

NOTE: SetProfileAttr() cannot be used with system fields, which are not explicitly defined in the Personalization Profile business component. While GetProfileAttr() can be used with the Id field, SetProfileAttr() cannot be used with it, because attempting to change the ROW_ID column of a table will generate an error. For more information on system fields, see *Configuring Siebel Business Applications*.

Used With

Browser Script, COM Data Control, COM Data Server, Server Script, Java Data Bean, Mobile Web Client Automation Server

Example

The following example is in Browser Script:

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  if (name == "hobbyReq") {
    var hobby = theApplication().GetProfileAttr("Hobby");

    if (hobby == "") {
      hobby = prompt("Please enter your favorite hobby");
      theApplication().SetProfileAttr("Hobby", hobby);
    }
    return ("Cancel Operation");
  }
}
```

```

else
    return ("ContinueOperation");
}

```

The following examples show how to exchange information between applet server scripts and applet browser scripts. In an applet server script, a customer profile attribute called MyProAttr is set to "Hello World" using the SetProfileAttr method. In applet browser scripts, you can retrieve the profile attribute using GetProfileAttr method.

The following example is in Siebel eScript:

```

function WebApplet_PreInvokeMethod (MethodName)
{
    if (MethodName == "MyCustomMethod") {
        TheApplication().SetProfileAttr("MyProAttr", "Hello World eScript");
        return (CancelOperation);
    }
    return (ContinueOperation);
}

```

The following example is in Siebel VB:

```

Function WebApplet_PreInvokeMethod (MethodName As String) As Integer
    If MethodName = "MyCustomMethod" Then
        TheApplication.SetProfileAttr "MyProAttr", "Hello World VB"
        WebApplet_PreInvokeMethod = CancelOperation
    Else
        WebApplet_PreInvokeMethod = ContinueOperation
    End If
End Function

```

Related Topics

["Name Method" on page 154](#)

For more information on user profile attributes, read *Siebel Applications Administration Guide*.

SetSharedGlobal Method

Shared global variables are unique to the user and the user's associated session. One user's global variables are not visible to other users. The variables are global to the current user and session only. The SetSharedGlobal property sets a shared user-defined global variable, which can be accessed using GetSharedGlobal.

Syntax

Application.SetSharedGlobal(*varName*, *value*)

Argument	Description
<i>varName</i>	String variable or literal containing the name of the shared global variable to set
<i>value</i>	String variable or literal containing the value to set the variable to set

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Mobile Web Client Automation Server, Server Script

Example

The following example is for COM. Siebel Application is an Application instance.

```
comVar = Siebel Application.GetSharedGlobal("myVar", errCode)
Siebel Application.SetSharedGlobal "myVar", "BLAH", errCode
```

The following example is in Siebel VB:

```
TheApplication.SetSharedGlobal "myVar", "FOO"
myVar = TheApplication.GetSharedGlobal("myVar")
```

In this example, the SetSharedGlobal method is called to set a global variable called myGlobalVar in Application_Start event. The global variable can be accessed from any event. For this example, in the BusComp_WriteRecord event, the GetSharedGlobal method is called to retrieve the global variable.

The following example is for COM. Siebel Application is an Application instance.

```
Dim sReturn as String
oleVar = Siebel Application.GetSharedGlobal("myGlobalVar", errCode)
Siebel Application.SetSharedGlobal "myGlobalVar", "hello world", errCode
```

The following example is in Siebel eScript:

```
function Application_Start (CommandLine)
{
    TheApplication().SetSharedGlobal("myGlobalVar", "hello world");
}

function BusComp_WriteRecord ()
{
    var myVar;
    myVar = TheApplication().GetSharedGlobal("myGlobalVar");
}
```

The following example is in Siebel VB:

```

Sub Application_Start (CommandLine As String)
    TheApplication.SetSharedGlobal "myGlobalVar", "helloWorld"
End Sub

Sub BusComp_WriteRecord
    Dim myVar as String
    myVar = TheApplication.GetSharedGlobal ("myGlobalVar")
End Sub
    
```

Related Topic

[“GetLastErrCode Method” on page 133](#)

ShowModalDialog Method

ShowModalDialog allows you to show a modal dialog box with the cursor maintained in its default state. This Application object method invokes Microsoft’s equivalent Window object method.

Syntax

theApplication().ShowModalDialog (*url*[, *argIn*][, *options*])

Argument	Description
<i>url</i>	The URL of the document to load and display.
<i>argIn</i>	<p>This parameter is used to pass arguments to use when displaying the document. This argument can be a value of any type, including an array of values.</p> <p>For more information, refer to the window DOM object's window.dialogArguments property. See, for example:</p> <ul style="list-style-type: none"> ■ http://developer.mozilla.org/en/docs/DOM:window.showModalDialog ■ http://msdn.microsoft.com/en-us/library/ms536759.aspx

Argument	Description
<i>options</i>	<p>String that specifies the attributes of the window that displays the dialog box.</p> <p>This parameter may include one or more of the following semicolon-delimited values:</p> <ul style="list-style-type: none"> ■ <code>dialogHeight: <i>sHeight</i></code> sets the height of the dialog window, where <i>sHeight</i> can be an integer or floating-point number, followed by an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). For consistent results, specify the <code>dialogHeight</code> and <code>dialogWidth</code> in pixels when designing modal dialog boxes. Default unit of measure is em. Minimum height is 100 pixels. ■ <code>dialogLeft: <i>sXPos</i></code> sets the left position of the dialog window relative to the upper-left corner of the desktop. ■ <code>dialogTop: <i>sYPos</i></code> sets the top position of the dialog window relative to the upper-left corner of the desktop. ■ <code>dialogWidth: <i>sWidth</i></code> sets the width of the dialog window. ■ <code>center: { yes no 1 0 on off }</code> specifies whether to center the dialog window within the desktop. The default is yes. ■ <code>dialogHide: { yes no 1 0 on off }</code> specifies whether the dialog window is hidden when printing or using print preview. This feature is only available when a dialog box is opened from a trusted application. The default is no. ■ <code>edge: { sunken raised }</code> specifies the edge style of the dialog window. The default is raised. ■ <code>help: { yes no 1 0 on off }</code> specifies whether the dialog window displays the context-sensitive Help icon. The default is yes. ■ <code>resizable: { yes no 1 0 on off }</code> specifies whether the dialog window has fixed dimensions. The default is no. ■ <code>scroll: { yes no 1 0 on off }</code> specifies whether the dialog window displays scrollbars. The default is yes. ■ <code>status: { yes no 1 0 on off }</code> specifies whether the dialog window displays a status bar. The default is yes for untrusted dialog windows and no for trusted dialog windows. ■ <code>unadorned: { yes no 1 0 on off }</code> specifies whether the dialog window displays the border window chrome. This feature is only available when a dialog box is opened from a trusted application. The default is no.

Returns

The value of the `returnValue` property, as set by the window of the document specified by the `url` parameter

Used With

Browser Script

Example

This example shows how this method can be used in browser script to bring up a modal dialog box with a specified URL.

```
function Applet_Load ()
{
  var sOptions="dialogHeight: 1000px; edge: sunken; resizable; yes";
  theApplication().ShowModalDialog("http://www.yahoo.com", "", sOptions)
}
```

SWEAlert Method

SWEAlert displays a modal dialog box containing a message to the user.

Syntax

```
theApplication().SWEAlert(message)
```

Returns

Undefined (similar to returning nothing)

Usage

Use SWEAlert() instead of alert(). With alert(), pop-up applets such as MVG and pick applets are hidden (sent to the background) when a JavaScript alert() is raised by a Browser-side event. With SWEAlert(), the dialog's parent applet is not sent to the background.

Used With

Browser Script

Example

The following browser script example displays a status message to the user.

```
function BusComp_PreSetFieldValue (fieldName, value) {
  if (fieldName == "Account Status") {
    var cVolume = this.GetFieldValue("Current Volume");
    if ((value == "Inactive") && (cVolume > 0)) {
      theApplication().SWEAlert("Unable to inactivate an account that has a
        current volume greater than 0");
    }
    return ("Cancel Operation");
  }
  else
```

```

        return ("ContinueOperation");
    }
    else
        return ("ContinueOperation");
}

```

Trace Method

The Trace method appends a message to the trace file. Trace is useful for debugging SQL query execution and the allocation of the objects. This tracing is not the same as the tracing that can be activated in the application's CFG file. For more information, read ["Tracing Scripts" on page 22](#).

NOTE: This method and the [TraceOn Method on page 172](#) are meant for debugging purposes and are not recommended for use in production environments.

Syntax

Application.Trace(message)

Argument	Description
<i>message</i>	String variable or literal containing message text to append to the trace file

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is for COM Data Server. Siebel Application is an Application instance.

```

Private Sub TraceOn_Click()
    Dim ErrCode As Integer
    Siebel Application.TraceOn "c:\temp\trace.txt", "allocation", _
        "all", ErrCode
    If (ErrCode = 0) Then Siebel Application.TraceOn
        "c:\temp\trace.txt", "SQL", "", ErrCode
    If (ErrCode = 0) Then Siebel Application.Trace
        "Start of Tracing!",
        ErrCode
End Sub

```

The following example is in Siebel VB:

```

Sub Button2_Click
    TheApplication.TraceOn "C:\temp\trace.txt", "allocation", "all"
    TheApplication.TraceOn "C:\temp\trace.txt", "sql", ""
    TheApplication.Trace "start of tracing!"
End Sub

```

The following is sample output of an Allocation trace section:

```

03/05/98, 17: 27: 47, START, 4. 0. 4 [1425_P3] ENU
03/05/98, 17: 27: 47, ALLOC, 1, BusObject, Account, Basic
03/05/98, 17: 27: 48, ALLOC, 2, BusComp, Account, Basic
03/05/98, 17: 27: 48, RELEASE, 1
03/05/98, 17: 27: 48, RELEASE, 2

```

The following is sample output of an SQL trace section:

```

01/22/98, 21: 03: 49, START, 4. 0. 2 [1416] ENU
01/22/98, 21: 04: 02, COMMENT, Start of Tracing!
01/22/98, 21: 04: 10, SQLSTMT, 1, SELECT, "SELECT
    T1. ROW_ID,
    T1. MODIFICATION_NUM,
    T1. CREATED_BY,
    T1. LAST_UPD_BY,
    T1. CREATED,
    T1. LAST_UPD,
    T1. CONFLICT_ID,
    T1. NAME,
    T1. DESC_TEXT,
    T1. PRIV_FLG,
    T1. QUERY_STRING
FROM
    DEV32. S_APP_QUERY T1
WHERE
    (T1. CREATED_BY = : 1 OR T1. PRIV_FLG = : 2) AND
    ((T1. NAME LIKE : 3 OR T1. NAME LIKE : 4 OR T1. NAME LIKE : 5 OR
    T1. NAME LIKE : 6) AND UPPER(T1. NAME) = UPPER(: 7))
ORDER BY
    T1. NAME, T1. DESC_TEXT"
01/22/98, 21: 04: 10, SQLBIND, 1, 1, 1-6NF
01/22/98, 21: 04: 10, SQLBIND, 1, 2, N
01/22/98, 21: 04: 10, SQLBIND, 1, 3, ac%
01/22/98, 21: 04: 10, SQLBIND, 1, 4, Ac%
01/22/98, 21: 04: 10, SQLBIND, 1, 5, aC%
01/22/98, 21: 04: 10, SQLBIND, 1, 6, AC%
01/22/98, 21: 04: 10, SQLBIND, 1, 7, Account

```

Related Topics

["TraceOff Method"](#)

["TraceOn Method" on page 172](#)

TraceOff Method

TraceOff turns off the tracing started by the TraceOn method.

Syntax

Application.TraceOff

Argument	Description
Not applicable	

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example sets the value in the Sales Stage field to the default, that is, to the first value in the field's picklist, and uses tracing to track the result:

```

Sub BusComp_NewRecord
  TheApplication.TraceOn "C:\ivpick.doc", "SQL", ""
  Dim oBC as BusComp
  set oBC = me.GetPickListBusComp("Sales Stage")

  With oBC
    .SetViewMode AllView
    .ActivateField "Sales Stage Order"
    .ClearToQuery
    .SetSortSpec "Sales Stage Order"
    .ExecuteQuery ForwardOnly
    if .FirstRecord then
      .Pick
    end if
  End With

  set oBC = Nothing

  TheApplication.TraceOff
End Sub

```

TraceOn Method

TraceOn turns on the tracking of allocations and deallocations of Siebel objects and SQL statements generated by the Siebel application.

Syntax

Application.TraceOn(filename, type, selection)

Argument	Description
<i>filename</i>	<p>Output filename for the trace messages. If this argument is not specified, tracing information is logged to the Object Manager log file for that user session.</p> <p>The filename argument can take two additional inline arguments: \$p and \$t. The \$p argument substitutes the process id to the filename, and \$t substitutes the thread id to the file name. For example:</p> <pre>TheAppl i cati on(). TraceOn("d: \\temp\\trace_\$p_\$t. txt", "Al l ocati on", "Al l ");</pre> <p>would log trace files to d: \temp\trace\trace_1496_1412. txt. Place a separator between the \$p and \$t arguments to make sure that the filename argument is unique. For example, if user A had a process id of 1 and a thread of 12 without using a separator, the tracing file would be</p> <pre>d: \temp\trace_112. txt</pre> <p>If user B had a process id of 11, and a thread id of 2, the tracing file would be</p> <pre>d: \temp\trace_112. txt</pre> <p>As a result, both users would attempt to log to the same file. Adding a separator between the process and thread id keeps the filenames unique.</p> <pre>d: \temp\trace_1_12. txt</pre> <pre>d: \temp\trace_11_2. txt</pre>
<i>type</i>	<p>Specifies the type of tracing to start. This can have the following values:</p> <ul style="list-style-type: none"> ■ Allocation. Traces allocations and deallocations of Siebel objects. This option is useful if you suspect memory leaks in your code. ■ SQL. Traces SQL statements generated by the Siebel application.
<i>selection</i>	<p>Indicates which Siebel objects should be traced for the Allocation trace type. This argument should be "" if the trace type is SQL.</p> <ul style="list-style-type: none"> ■ Script. Traces VB and eScript objects. ■ OLE. Traces allocations for data server or automation server programs. ■ All. Traces all objects. The All value does not trace the Siebel objects managed implicitly by Siebel's declarative configuration use. <i>All</i> traces the Siebel objects constructed by scripting.

Returns

Not applicable

Usage

Always issue TraceOff to turn off tracing. If you attempt to call TraceOn with a different filename without calling TraceOff first, trace information is written to the new trace filename. The old file is left open (locked). You can issue multiple TraceOn statements to the same trace file.

NOTE: This method and the [Trace Method on page 169](#) are meant for debugging purposes and are not recommended for use in production environments.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is for COM Data Server. Siebel Application is an Application instance:

```
Private Sub TraceOn_Click()
    Dim ErrCode As Integer
    Siebel Application.TraceOn "c:\temp\trace.txt", "allocation",
        "all", ErrCode
    If (ErrCode = 0) Then Siebel Application.TraceOn
        "c:\temp\trace.txt", "SQL", "", ErrCode
    If (ErrCode = 0) Then Siebel Application.Trace
        "Start of Tracing!",
        ErrCode
End Sub
```

The following example is in Siebel eScript:

```
function BusComp_PreSetFieldValue (FieldName, FieldValue)
{
    TheApplication().TraceOn("d:\temp\trace.txt", "Allocation", "All");
    TheApplication().TraceOn("d:\temp\trace.txt", "SQL", "");
    TheApplication().Trace("start tracing!");
    return (ContinueOperation);
}
```

The following example is in Siebel VB:

```
Sub Button2_Click
    TheApplication.TraceOn "C:\temp\trace.txt", "allocation",
        "all"
    TheApplication.TraceOn "C:\temp\trace.txt", "sql", ""
    TheApplication.Trace "start of tracing!"
End Sub
```

The following is sample output of an Allocation trace section:

```
03/05/98, 17: 27: 47, START, 4. 0. 4 [1425_P3] ENU
03/05/98, 17: 27: 47, ALLOC, 1, BusObj ect, Account, Basic
03/05/98, 17: 27: 48, ALLOC, 2, BusComp, Account, Basic
03/05/98, 17: 27: 48, RELEASE, 1
03/05/98, 17: 27: 48, RELEASE, 2
```

The following is sample output of an SQL trace section:

```
01/22/98, 21: 03: 49, START, 4. 0. 2 [1416] ENU
01/22/98, 21: 04: 02, COMMENT, Start of Tracing!
01/22/98, 21: 04: 10, SQLSTMT, 1, SELECT, "SELECT
    T1. ROW_ID,
    T1. MODIFICATION_NUM,
    T1. CREATED_BY,
    T1. LAST_UPD_BY,
    T1. CREATED,
    T1. LAST_UPD,
    T1. CONFLICT_ID,
    T1. NAME,
    T1. DESC_TEXT,
    T1. PRIV_FLG,
    T1. QUERY_STRING
FROM
    DEV32. S_APP_QUERY T1
WHERE
    (T1. CREATED_BY = : 1 OR T1. PRIV_FLG = : 2) AND
    ((T1. NAME LIKE : 3 OR T1. NAME LIKE : 4 OR T1. NAME LIKE : 5 OR
    T1. NAME LIKE : 6) AND UPPER(T1. NAME) = UPPER(: 7))
ORDER BY T1. NAME, T1. DESC_TEXT"
01/22/98, 21: 04: 10, SQLBIND, 1, 1, 1-6NF
01/22/98, 21: 04: 10, SQLBIND, 1, 2, N
01/22/98, 21: 04: 10, SQLBIND, 1, 3, ac%
01/22/98, 21: 04: 10, SQLBIND, 1, 4, Ac%
01/22/98, 21: 04: 10, SQLBIND, 1, 5, aC%
01/22/98, 21: 04: 10, SQLBIND, 1, 6, AC%
01/22/98, 21: 04: 10, SQLBIND, 1, 7, Account
```

The following examples show the use of Trace, Traceoff, and TraceOn methods to generate a trace file with SQL statements issues by the scripting query.

The following example is in Siebel eScript:

```
function BusComp_NewRecord ()
{
    TheApplication().TraceOn("C:\\trace_output.txt", "SQL", "");
    TheApplication().Trace("Start of tracing!");
    var oBC = this.GetPickListBusComp("Sales Stage");

    with (oBC)
    {
        SetViewMode(AI View);
        ClearToQuery();
        SetSortSpec("Sales Stage Order(ASCENDING)");
        ExecuteQuery(ForwardOnly);
        if (FirstRecord())
```

```

    {
        Pick();
    }
}

oBC = null;
TheApplication().Trace("End of tracing!");
TheApplication().TraceOff();
}

```

The following example is in Siebel VB:

```

Sub BusComp_NewRecord

    TheApplication.TraceOn "C:\trace_output.txt", "SQL", ""
    TheApplication.Trace "Start of tracing!"
    Dim oBC as BusComp
    Set oBC = Me.GetPickListBusComp("Sales Stage")

    With oBC
        .SetViewMode AllView
        .ClearToQuery
        .SetSortSpec "Sales Stage Order(ASCENDING)"
        .ExecuteQuery ForwardOnly
        If .FirstRecord Then
            .Pick
        End If
    End With

    Set oBC = Nothing
    TheApplication.Trace "End of tracing!"
    TheApplication.TraceOff
End Sub

```

Related Topics

- ["Trace Method" on page 169](#)
- ["TraceOff Method" on page 171](#)

Application Events

The following topics describe application events:

- ["Application_Close Event"](#)
- ["Application_InvokeMethod Event" on page 176](#)
- ["Application_Navigate Event" on page 177](#)
- ["Application_PreInvokeMethod Event" on page 177](#)
- ["Application_PreNavigate Event" on page 179](#)
- ["Application_Start Event" on page 180](#)

Application_Close Event

The Close event is called before the application exits. This allows scripts to perform last-minute cleanup (such as cleaning up a connection to a COM server). It is called when Windows notifies the application that it should close, but not if the process is terminated directly.

Syntax

Application_Close

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Server Script

NOTE: Siebel Business Processes invokes this event. For more information, read *Siebel Business Process Framework: Workflow Guide*.

Application_InvokeMethod Event

The Application_InvokeMethod event is called after a specialized method is invoked.

Server Script Syntax

Application_InvokeMethod(*methodName*)

Argument	Description
<i>methodName</i>	Name of the method invoked

Browser Script Syntax

Application_InvokeMethod(*name*, *inputPropSet*)

Argument	Description
<i>inputPropSet</i>	A property set containing arguments to be passed to the InvokeMethod event.

Returns

Returns TRUE if the call succeeds or FALSE if it does not succeed.

Usage

The InvokeMethod event is called just after a specialized or user-defined method is invoked on the application.

The Browser script implementation does not return a property set.

Used With

Browser Script, Server Script

Related Topics

["How Your Script Affects Program Flow" on page 68](#)

["Application_PreInvokeMethod Event"](#)

Application_Navigate Event

The Application_Navigate event is called after the client has navigated to a view.

Syntax

Application_Navigate

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Server Script

Application_PreInvokeMethod Event

The PreInvokeMethod event is called before a specialized method is invoked by a user-defined applet menu or by calling InvokeMethod on the application.

Server Script Syntax

Application_PreInvokeMethod(*methodName*)

Argument	Description
<i>methodName</i>	String variable or literal containing the name of the method invoked

Browser Script Syntax

Application_PreInvokeMethod (*methodName*, *inputPropSet*)

Argument	Description
<i>methodName</i>	String variable or literal containing the name of the method invoked.
<i>inputPropSet</i>	A property set containing arguments to be passed to the event.

Returns

"ContinueOperation" or "CancelOperation"

Usage

The PreInvokeMethod event is called just before a specialized method is invoked on the application. If implementing a user-defined method, the script should return CancelOperation if you wish to handle the event entirely through your own scripting.

Specialized methods are methods based on applet or business component classes other than CSSFrame and CSSBusComp, respectively, that is, specialized classes.

When the method to be invoked is part of an If statement, this function's return value must be assigned before the End If statement, as in the following code fragment.

```

If MethodName = "ResetQuery" then
    Application_PreInvokeMethod = CancelOperation
End If

```

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Browser Script, Server Script

Example

The following example is in Siebel VB and shows an implementation of the PreInvokeMethod:

```

Function Application_PreInvokeMethod (MethodName _
    As String) As Integer

    Dim i As Integer
    Dim iReturn As Integer
    iReturn = ContinueOperation

    Select Case MethodName
        Case "LaunchWord"
            i = Shell ("C:\Program Files\Microsoft Office\Office\WINWORD.EXE", 1)
            iReturn = CancelOperation
    End Select
End Function

```

```

    Case "LaunchExcel "
        i = Shell ("C:\Program Files\Microsoft Office\Office\EXCEL.EXE", 1)
        iReturn = Cancel Operation
    End Select

    Application_PreInvokeMethod = iReturn

End Function

```

The following is the equivalent sample in Siebel eScript. Note that for this script to run, the entire `Clib.system` statement must appear on a single line in the Editor:

```

function Application_PreInvokeMethod (MethodName)

    var iReturn = ContinueOperation;

    switch (MethodName)
    {
        case "LaunchWord":
            Clib.system("C:\\Program Files\\Microsoft Office\\Office\\WINWORD.EXE", 1);
            iReturn = Cancel Operation;
            break;

        case "LaunchExcel ":
            Clib.system("C:\\Program Files\\Microsoft Office\\Office\\EXCEL.EXE", 1);
            iReturn = Cancel Operation;
        }

    return (iReturn);
}

```

Related Topic

["How Your Script Affects Program Flow" on page 68](#)

Application_PreNavigate Event

The `Application_PreNavigate` event is called before the client navigates to a view.

Syntax

`Application_PreNavigate(DestViewName, DestBusObjName As String) As Integer`

Argument	Description
<i>DestViewName</i>	Name of the view to which the user is navigating
<i>DestBusObjName</i>	Business object of the destination view

Returns

CancelOperation or ContinueOperation

Used With

Server Script

Example

In the following eScript code sample the script checks for the current business object (contact) and sets the current contact id as global variable (can be used for keeping context):

```
function Application_PreNavigate (DestViewName, DestBusObjectName)
{
    try
    {
        var currentView = this.ActiveViewName();
        var BO = this.ActiveBusObject();
        if(BO.Name() == "Contact")
        {
            var BC = BO.GetBusComp("Contact");
            var id = BC.GetFieldValue("Id");
            TheApplication().SetSharedGlobal("ContactId", id);
        }
    }
    catch (e)
    {
        this.Trace("Exception caught: "+e.toString());
    }
    return (ContinueOperation);
}
```

Application_Start Event

The Start event is called when the client starts and again when the user interface is first displayed.

SyntaxApplication_Start(*commandline*)

Argument	Description
<i>commandline</i>	Text of the command line with which the Siebel application was started.

NOTE: Siebel Business Processes invoke this event. For more information, read *Siebel Business Process Framework: Workflow Guide*.

Returns

Not applicable

Used With

Server Script

Example

This Siebel VB code should be placed in the Application_Start procedure for the application of your choice. This example retrieves the first and last name of the user logging into the Siebel application:

```
Sub Application_Start(CommandLine As String)
  Dim oEmpBusObj as BusObject
  Dim oEmpBusComp as BusComp
  Dim oEmpBusComp as BusComp Dim sLogi nName as String
  Dim sUserName as String

  sLogi nName = TheAppl i cati on. Logi nName
  Set oEmpBusObj = TheAppl i cati on. GetBusObj ect("Empl oyee")
  Set oEmpBusComp = oEmpBusObj . GetBusComp("Empl oyee")
  Wi th oEmpBusComp
    . Acti vateFi el d "Fi rst Name"
    . Acti vateFi el d "Last Name"
    . Cl earToQuery
    . SetSearchSpec "Logi n Name", sLogi nName
    . ExecuteQuery
    If (. Fi rstRecord = 1) Then
      sUserName = . GetFi el dVal ue("Fi rst Name")
      sUserName = sUserName + " " + . GetFi el dVal ue("Last Name")
    End If
  End Wi th

  Set oEmpBusComp = Nothi ng
  Set oEmpBusObj = Nothi ng
End Sub
```

CAUTION: Do not use the RaiseErrorText() method in the Application_Start event. That method does not work in this event, and can cause the Application Object Manager to abort.

Business Component Methods

In the methods described in this section, the placeholders *oBusComp* and *BusComp* refer to a business component instance:

- ["ActivateField Method" on page 183](#)
- ["ActivateMultipleFields Method" on page 184](#)
- ["Associate Method" on page 186](#)
- ["BusObject Method" on page 188](#)
- ["ClearToQuery Method" on page 189](#)
- ["DeactivateFields Method" on page 191](#)
- ["DeleteRecord Method" on page 193](#)
- ["ExecuteQuery Method" on page 193](#)
- ["ExecuteQuery2 Method" on page 195](#)
- ["FirstRecord Method" on page 196](#)

- ["FirstSelected Method" on page 198](#)
- ["GetAssocBusComp Method" on page 200](#)
- ["GetFieldValue Method" on page 201](#)
- ["GetFormattedFieldValue Method" on page 203](#)
- ["GetLastErrCode Method" on page 205](#)
- ["GetLastErrText Method" on page 206](#)
- ["GetMultipleFieldValues Method" on page 206](#)
- ["GetMVGBusComp Method" on page 207](#)
- ["GetNamedSearch Method" on page 208](#)
- ["GetPicklistBusComp Method" on page 209](#)
- ["GetSearchExpr Method" on page 211](#)
- ["GetSearchSpec Method" on page 212](#)
- ["GetSortSpec Method" on page 212](#)
- ["GetUserProperty Method" on page 213](#)
- ["GetViewMode Method" on page 214](#)
- ["InvokeMethod Method" on page 215](#)
- ["LastRecord Method" on page 224](#)
- ["Name Method" on page 225](#)
- ["NewRecord Method" on page 225](#)
- ["NextRecord Method" on page 227](#)
- ["NextSelected Method" on page 228](#)
- ["ParentBusComp Method" on page 228](#)
- ["Pick Method" on page 229](#)
- ["PreviousRecord Method" on page 231](#)
- ["RefineQuery Method" on page 232](#)
- ["Release Method" on page 233](#)
- ["SetFieldValue Method" on page 235](#)
- ["SetFormattedFieldValue Method" on page 237](#)
- ["SetMultipleFieldValues Method" on page 238](#)
- ["SetNamedSearch Method" on page 240](#)
- ["SetSearchExpr Method" on page 242](#)
- ["SetSearchSpec Method" on page 244](#)
- ["SetSortSpec Method" on page 248](#)

- “SetUserProperty Method” on page 250
- “SetViewMode Method” on page 251
- “UndoRecord Method” on page 254
- “WriteRecord Method” on page 255

ActivateField Method

ActivateField allows queries to retrieve data for the argument-specified field.

Syntax

BusComp.ActivateField(*FieldName*)

Argument	Description
<i>FieldName</i>	String variable or literal containing the name of the field to activate

Returns

Not applicable

Usage

FieldName must be enclosed in double quotes and must be spelled exactly as the field name appears in Siebel Tools, using the same case. You must activate fields using ActivateField before executing a query for the business component.

NOTE: If you are writing an event handler on a business component, you must make sure that the field has already been activated by specifying the ForceActive user property on the control.

By default, fields are inactive except when:

- The business component is the instance on which the applet is based and the fields are displayed on the applet or, for fields in list applets, the Show In List list column property is TRUE.
- The fields are System fields (which include Id, Created, Created By, Updated, and Updated By).
- The fields' Force Active property is set to TRUE.
- The ActivateField method has been invoked on the fields and an ExecuteQuery method has been executed afterwards.
- The fields have the Link Specification property set to TRUE.

After a business component has been executed, if additional fields are activated, the business component must be requeried before field values can be accessed. Failure to requeried the business component results in a value of 0 being returned. The ActivateField method destroys the context of a query when it is used after the ExecuteQuery method.

The `ActivateField` method forces the specified field to be included in the SQL statement that is initiated by an `ExecuteQuery` method that follows. `ActivateField` should always be followed by `ExecuteQuery`. If a field is activated and then referenced by a `GetFieldValue` or `SetFieldValue` statement prior to an `ExecuteQuery` statement, the activation has no effect. The activated field is not retrieved through a query, so it contains an empty value.

If a field is not activated prior to a `WriteRecord`, the data is written to the database, but corruption issues may arise when mobile users synchronize. An `ActivateField` call prior to an `ExecuteQuery` call, followed by a `WriteRecord`, makes sure that the field is written correctly to the transaction log so that changes made by mobile users are saved back to the server database correctly at synchronization time.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB. For an equivalent Siebel eScript example, read [“ClearToQuery Method” on page 189](#).

```
Dim oEmpBusObj As BusObject
Dim oEmpBusComp As BusComp
Dim sLogi nName As Stri ng

Set oEmpBusObj = TheAppl i cati on. Acti veBusObj ect
Set oEmpBusComp = oEmpBusObj . GetBusComp("Empl oyee")
oEmpBusComp. SetVi ewMode Al l Vi ew
oEmpBusComp. Cl earToQuery
oEmpBusComp. SetSearchSpec "Logi n Name", sLogi nName
oEmpBusComp. ExecuteQuery
Set oEmpBusComp = Nothi ng
Set oEmpBusObj = Nothi ng
```

Related Topic

[“DeactivateFields Method” on page 191](#)

ActivateMultipleFields Method

Use `ActivateMultipleFields` to activate data for the fields specified in the property set.

Syntax

BusComp.ActivateMultipleFields(SiebelPropertySet sps)

Argument	Description
SiebelPropertySet	Property set containing a collection of properties representing the fields that are to be activated

Returns

TRUE if success; FALSE if failure

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is for Java Data Bean:

```
import com.siebel.data.*;
...
//Create Siebel Data Bean.
//Login into Siebel Data Bean
...
//Create Siebel Bus Object.
//Get the Bus Object from Siebel DataBean
...
//Create Siebel Bus Comp siebBusComp
//Get the business component using Siebel BusObject

SiebelPropertySet ps = new mdata_bean.NewPropertySet();
ps.setProperty("Account Products", "");
ps.setProperty("Agreement Name", "");
ps.setProperty("Project Name", "");
ps.setProperty("Description", "");
ps.setProperty("Name", "");
siebBusComp.ActivateMultipleFields(ps);
...
```

The following Siebel eScript example queries the Contact business component and retrieves the First Name and Last Name of the first contact found:

```
var ContactBO = TheApplication().GetBusObject("Contact");
var ContactBC = ContactBO.GetBusComp("Contact");
with (ContactBC)
{
    SetViewMode(AllView);
    var fieldsPS = TheApplication().NewPropertySet();
    var valuesPS = TheApplication().NewPropertySet();
    fieldsPS.SetProperty("Last Name", "");
    fieldsPS.SetProperty("First Name", "");
```

```

ActivateMultipleFields(fieldSPS);
ClearToQuery();
ExecuteQuery(ForwardBackward);
if (FirstRecord())
{
    GetMultipleFieldValues(fieldSPS, valuesPS);
    var slName = valuesPS.GetProperty("Last Name");
    var sfName = valuesPS.GetProperty("First Name");
}
}

```

Related Topics

[“SetMultipleFieldValues Method” on page 238](#)

[“GetMultipleFieldValues Method” on page 206](#)

Associate Method

The Associate method creates a new many-to-many relationship for the parent object through an association business component (see `GetAssocBusComp`).

Syntax

`BusComp.Associate(whereIndicator)`

Argument	Description
<i>whereIndicator</i>	This argument should be one of the following predefined constants: <code>NewBefore</code> or <code>NewAfter</code> , as in <code>NewRecord</code> .

Returns

Not applicable

Usage

To set field values on a child record that has been associated to a parent record, use the context of the `MVGBusComp`.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following VB example updates the Opportunity Assignment Type field. The parent business component can be any business component that includes the Sales Rep multi-value group.

```

Dim oParentBC as BusComp
Dim oMvgBC as BusComp
Dim oAssocBC as BusComp

Set oParentBC = me.BusComp
Set oMvgBC = OpBC.GetMVGBusComp("Sales Rep")
Set oAssocBC = oMvgBC.GetAssocBusComp
With oAssocBC
    .SetSearchSpec "Id", newPosId
    .ExecuteQuery
    .Associate NewAfter
End With

oMvgBC.SetFieldValue "Opportunity Assignment Type", "NewType"
oMvgBC.WriteRecord
Set oAssocBC = Nothing
Set oMvgBC = Nothing
Set oParentBC = Nothing

```

The following Siebel eScript example finds a contact with the Last Name = "Abanilla", and adds a new organization named "CKS Software" to its Organization MVG.

```

var ok = 0;
var ContactBO= TheApplication().GetBusObject("Contact");
var ContactBC = ContactBO.GetBusComp("Contact");
with (ContactBC)
{
    ClearToQuery();
    SetViewMode(AllView);

    // Searches by Last Name
    SetSearchSpec ("Last Name", "Abanilla");
    ExecuteQuery(ForwardOnly);
    if (FirstRecord())
    {

        // Instantiates Organization MVG
        var oMvgBC = GetMVGBusComp("Organization");
        var oAssocBC = oMvgBC.GetAssocBusComp();
        oAssocBC.ClearToQuery();
        oAssocBC.SetSearchSpec("Name", "CKS Software");
        oAssocBC.ExecuteQuery ();

        // Checks if the Organization was found
        if (oAssocBC.FirstRecord())
        {

            // Organization was found
            try
            {
                oAssocBC.Associate(NewAfter);
                ok = 1;
            }
        }
    }
}

```

```

        catch (e)
        {
            ok = 0;
            TheAppl i cati on(). Rai seErrorText("Error Associ ati ng new Organi zati on");
        }
    } // i f oAssocBC. Fi rstRecord
} // i f Fi rstRecord

oAssocBC = nul l ;
oMvgBC = nul l ;

} // Wi th ContactBC

ContactBC = nul l ;
ContactBO = nul l ;

```

Related Topics

- ["NewRecord Method" on page 225](#)
- ["FirstSelected Method" on page 198](#)
- ["GetMVGBusComp Method" on page 207](#)

BusObject Method

The BusObject method returns the business object that contains the business component.

Syntax

BusComp.BusObject

Argument	Description
Not applicable	

Returns

The business object that contains the business component

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For an example, read ["SetViewMode Method" on page 251](#).

Related Topic

[“ActiveBusObject Method” on page 122](#)

ClearToQuery Method

The ClearToQuery method clears the current query but does not clear sort specifications on the BusComp.

Syntax

BusComp.ClearToQuery

Argument	Description
Not applicable	

Returns

Not applicable

Usage

Any fields to be queried must be activated before ClearToQuery. For more information, read [“ActivateField Method” on page 183](#).

Search and sort specifications sent to the business component are cumulative; the business component retains and logically performs an AND operation on query qualifications since the last ClearToQuery, except for new search specifications on a field for which a search specification has previously been set. In that circumstance, the new specification replaces the old.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel eScript. For Siebel VB examples, read [“Applet_PreInvokeMethod Event” on page 108](#), [“ActivateField Method” on page 183](#), and [“ExecuteQuery Method” on page 193](#). For another eScript example, read [“GotoView Method” on page 139](#).

```
var oEmpBusObj = TheApplication().ActiveBusObject();
var oEmpBusComp = oEmpBusObj().GetBusComp("Employee");
var sLogi nName;

oEmpBusComp.ClearToQuery();
oEmpBusComp.SetSearchSpec("Logi n Name", sLogi nName);
oEmpBusComp.ExecuteQuery(ForwardBackward);
```

```
oEmpBusComp = null;
oEmpBusObj = null;
```

Related Topic

["RefineQuery Method" on page 232](#)

CountRecords Method

CountRecords uses database aggregation to count the records returned by the last ExecuteQuery() call.

Syntax

```
BusComp.CountRecords()
```

Argument	Description
Not applicable	

Returns

An integer indicating the number of records returned by the last ExecuteQuery() call.

Used With

Server Script

Examples

The following example is in Siebel eScript:

```
function Service_PreInvokeMethod (MethodName, Inputs, Outputs)
{
  if (MethodName == "Call_eScript")
  {
    var bo = TheApplication().GetBusObject("Opportunity");
    var bc = bo.GetBusComp("Opportunity");
    with (bc)
    {
      ClearToQuery();
      setSearchSpec ("Name", "A*");
      ExecuteQuery(ForwardBackward);
      var count = CountRecords();
    }

    // other code..

    bc = null;
    bo = null;
  }
}
```

```

        return (CancelOperati on);
    }
    return (Conti nueOperati on);
}

```

DeactivateFields Method

DeactivateFields deactivates the fields that are currently active from a business component SQL query statement, except those that are not ForceActive, required for a link, or required by the BusComp class.

Syntax

BusComp.DeactivateFields

Argument	Description
Not applicable	

Returns

Not applicable

Usage

You must activate fields using ActivateField prior to executing a query for the business component.

By default, fields are inactive except when:

- They are displayed on the applet and the business component is the instance on which the applet is based.
- They are System fields (which include Id, Created, Created By, Updated, and Updated By).
- Their Force Active property is set to TRUE.
- The ActivateField method has been invoked on them and an ExecuteQuery method has been executed afterwards.
- They have the Link Specification property set to TRUE.

After fields have been deactivated, the business component must be reexecuted or the application fails.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

The following example is for COM. Siebel Application is an Application instance.

```

Dim oBO As BusObject
Dim OBC As BusComp
Dim errCode

Set oBO = Siebel Application.GetBusObject("Account", errCode)
Set oBC = oBO.GetBusComp("Account", errCode)
oBC.DeactivateFields errCode
oBC.ActivateField "Name", errCode
oBC.ActivateField "Location", errCode
oBC.ClearToQuery errCode
oBC.ExecuteQuery ForwardOnly, errCode
Set oBC = Nothing
Set oBO = Nothing

```

The following example is in Siebel eScript:

```

var oBC;
var oBO;

oBO = TheApplication().GetBusObject("Account");
oBC = oBO.GetBusComp("Account");
oBC.DeactivateFields();
oBC.ActivateField("Name");
oBC.ActivateField("Location");
oBC.ClearToQuery();
oBC.ExecuteQuery(ForwardOnly);
oBC = null;
oBO = null;

```

The following example is in Siebel VB:

```

Dim oBO As BusObject
Dim oBC As BusComp

Set oBO = TheApplication.GetBusObject("Account")
Set oBC = oBO.GetBusComp("Account")
oBC.DeactivateFields
oBC.ActivateField "Name"
oBC.ActivateField "Location"
oBC.ClearToQuery
oBC.ExecuteQuery ForwardOnly
Set oBC = Nothing
Set oBO = Nothing

```

Related Topic

["ActivateField Method" on page 183](#)

DeleteRecord Method

DeleteRecord removes the current record from the business component.

Syntax

BusComp.DeleteRecord

Argument	Description
Not applicable	

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example illustrates how to delete accounts with a status of Inactive:

```
Sub DeleteInactiveAccounts()
    Dim obj B0 as BusObject
    Dim obj BC as BusComp

    Set obj B0 = TheApplication.GetBusObject("Account")
    Set obj BC = obj B0.GetBusComp("Account")
    With obj BC
        .ClearToQuery
        .SetSearchSpec "Status", "Inactive"
        .ExecuteQuery ForwardBackward
        Do While .FirstRecord
            .DeleteRecord
        Loop
    End With
    Set obj BC = Nothing
    Set obj B0 = Nothing
End Sub
```

NOTE: The cursor is moved to the next record after DeleteRecord is executed. Do not use NextRecord after DeleteRecord in a loop because this causes the deletion of the last record in the loop to be skipped. If you use DeleteRecord on the last record, the cursor points to nothing.

ExecuteQuery Method

ExecuteQuery returns a set of business component records using the criteria established with methods such as SetSearchSpec.

Syntax

BusComp.ExecuteQuery ([*cursorMode*])

Argument	Description
<i>cursorMode</i>	<p>An integer. An optional argument that must be one of the following constants (provided in Siebel VB as well as COM Servers):</p> <ul style="list-style-type: none"> ■ ForwardBackward. Selected records can be processed from first to last or from last to first. This is the default if no value is specified. ■ ForwardOnly. Selected records can be processed only from the first record to the last record. Focus cannot return to a record.

Returns

Not applicable

Usage

Use a *cursorMode* of **ForwardOnly** wherever possible to achieve maximum performance. If you use **ForwardOnly**, make sure that your application code does not attempt to navigate backward using **PreviousRecord** or **FirstRecord** without a requery. Do not use **ForwardOnly** when operating on UI business components unless the application code requeries using a *cursorMode* of **ForwardBackward**.

When using the **ForwardBackward** cursor mode, and the query matches over 10,000 records, the object manager returns this error message: "There were more rows than could be returned. Please refine your query to bring back fewer rows."

To reduce the number of queries needed, you can use the parent-child relationships for business components that are set up in business objects. For example, an Opportunity business object sets up a parent-child relationship between the Opportunity business component and the Contact business component. If you query on the Opportunity business component you can read values from the corresponding records in the Contact business component without any additional queries. Before querying a child business component, you must query its parent, otherwise the query returns no records.

NOTE: You must activate fields by using the **ActivateField** method before executing a query for a business component. If you are writing an event handler on a business component, you must make sure that the field has already been activated by specifying the **ForceActive** user property on the control.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example sets up and executes a query to find the primary on the account team. Only the primary can change the primary address. For other examples, read "[Applet_PreInvokeMethod Event](#)" on page 108, "[GotoView Method](#)" on page 139, and "[ClearToQuery Method](#)" on page 189.

```

(general)
(declarations)
Option Explicit
Function BusComp_PreSetFieldValue (FieldName As String,
FieldVal As String) As Integer
Dim i As Integer
Dim iFoundP As Integer ' 1 = found (TRUE), 0 = not found (FALSE)
Dim oMVGBC as BusComp

iFoundP = FALSE
Select Case FieldName
Case "SSA Primary Field"
    Set oMVGBC = me.ParentBusComp.GetMVGBC("Sales Rep")
    With oMVGBC ' this is the position BC
        .ActivateField "Active Login Name"
        .ActivateField "SSA Primary Field"
        .ClearToQuery
        .ExecuteQuery ForwardBackward
        i = .FirstRecord
        Do While i <> 0
            If .GetFieldValue("SSA Primary Field") = "Y" Then
                iFoundP = TRUE 'mark that found a primary
                If .GetFieldValue("Active Login Name") <> TheApplication.LoginName Then
                    TheApplication.RaiseErrorText"You cannot change the Primary address
                    because you are not the Primary on the Account Team")
                End If
            End If
            Exit Do
        Loop
        If iFoundP = FALSE Then
            .FirstRecord
            TheApplication.RaiseErrorText("No Primary Found - Contact an Administrator")
        End If
    End With
End Select

Set oMVGBC = Nothing
BusComp_PreSetFieldValue = ContinueOperation

End Function

```

Related Topics["ActivateField Method" on page 183](#)["ClearToQuery Method" on page 189](#)["SetSearchSpec Method" on page 244](#)

ExecuteQuery2 Method

ExecuteQuery2 returns a set of business component records using the criteria established with methods such as SetSearchSpec.

Syntax

BusComp.ExecuteQuery2 ([*cursorMode*], *ignoreMaxCursorSize*)

Argument	Description
<i>cursorMode</i>	<p>An integer. An optional argument that can be one of the following two constants (provided in Siebel VB as well as COM Servers):</p> <ul style="list-style-type: none"> ■ ForwardBackward. Selected records may be processed from first to last or from last to first. This is the default if no value is specified. ■ ForwardOnly. Selected records can be processed only from the first record to the last record. Focus cannot return to a record.
<i>ignoreMaxCursorSize</i>	<ul style="list-style-type: none"> ■ TRUE. Retrieves every row from a business component. This option may result in lower performance. ■ FALSE. Retrieves the number of rows specified by the <i>MaxCursorSize</i> argument in the CFG file.

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

FirstRecord Method

FirstRecord moves the record pointer to the first record in a business component, making that record current and invoking any associated script events.

NOTE: When executing a query on a business component, SQL is generated for any active child business component. Calling the FirstRecord method triggers the BusComp_ChangeRecord event and causes the same SQL for the child business component to execute again.

Syntax

BusComp.FirstRecord

Argument	Description
Not applicable	

Returns

An integer in Siebel VB: 1 or nonzero if there was a first record (the query returned results) and 0 if there are no records; a Boolean in Siebel eScript, COM, and ActiveX.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

The following examples show how the FirstRecord method could be used to check whether an Account displayed in a child applet (for example, the Account List Applet - child applet in the Contact Detail - Accounts View) has any service requests associated to it. The outcome of this could then determine whether other code should be run against the Account record.

The following example is in Siebel eScript:

```
function BusComp_PreInvokeMethod (MethodName)
{
    // 'CheckSR' method invoked from a custom button on 'Account List Applet - child'
    // applet.
    if (MethodName == "CheckSR")
    {
        var oBO = TheApplication().ActiveBusObject();
        var oBC = oBO.GetBusComp("Service Request");
        var strAcctId = this.GetFieldValue("Id");

        with (oBC)
        {
            SetViewMode(AIView);
            ClearToQuery();
            SetSearchSpec("Account Id", strAcctId);
            ExecuteQuery(ForwardOnly);
            if (FirstRecord())
            {
                // additional code placed here
            }
            else
            {
                TheApplication().RaiseErrorText("No Service Requests Associated To This
Account.")
            }
        }

        return (CancelOperation);
    }

    return (ContinueOperation);
}
```

The following example is in Siebel VB:

```
Function BusComp_PreInvokeMethod (MethodName As String) As Integer
    Dim iRtn As Integer
```

```

iRtn = ContinueOperation

'' CheckSR' method invoked from a custom button On 'Account List Applet - child'
Applet.
If MethodName = "CheckSR" Then
    Dim oBO As BusObject
    Dim oBC As BusComp
    Dim strAcctId As String

    Set oBO = TheApplication.ActiveBusObject
    Set oBC = oBO.GetBusComp("Service Request")
    strAcctId = me.GetFieldValue("Id")

    With oBC
        .SetViewMode AllView
        .ClearToQuery
        .SetSearchSpec "Account Id", strAcctId
        .ExecuteQuery ForwardOnly
        If .FirstRecord Then
            '[additional code placed here]
        Else
            TheApplication.RaiseErrorText("No Service Requests Associated To This
Account.")
        End If
    End With

    Set oBC = Nothing
    Set oBO = Nothing

    iRtn = CancelOperation
End If

BusComp_PrelInvokeMethod = iRtn
End Function

```

Related Topic

["NextRecord Method" on page 227](#)

FirstSelected Method

FirstSelected moves the focus to the first record of the multiple selection in the business component, invoking any associated Basic events.

Syntax

BusComp.FirstSelected

Argument	Description
Not applicable	

Returns

An integer in Siebel VB: 1 or nonzero if there was a first record (the query returned results) and 0 if there are no records; a Boolean in ActiveX, COM, and Siebel eScript.

Used With

COM Data Server, Server Script

Examples

The following examples show how the FirstSelected method could be used in conjunction with the NextSelected method to provide custom multirecord deletion functionality. This code could be triggered in respect to the user invoking the Delete Selected custom method, when pressing a custom button on an applet.

The following example is in Siebel eScript:

```
function BusComp_PreInvokeMethod (MethodName)
{
  if (MethodName == "Delete Selected")
  {
    with (this)
    {
      var iRecord = FirstSelected();

      while (iRecord)
      {
        DeleteRecord();
        iRecord = NextSelected();
      }
    }

    return (Cancel Operation);
  }

  return (ContinueOperation);
}
```

The following example is in Siebel VB:

```
Function BusComp_PreInvokeMethod (MethodName As String) As Integer

  Dim iRtn As Integer

  iRtn = ContinueOperation
  If MethodName = "Delete Selected" Then

    With me
      Dim iRecord As Integer

      iRecord = .FirstSelected
```

```

        While iRecord
            .DeleteRecord
            iRecord = .NextSelected
        Wend

    End With

    iRtn = CancelOperation

End If

BusComp.PreInvokeMethod = iRtn
End Function
    
```

GetAssocBusComp Method

GetAssocBusComp returns the association business component. The association business component can be used to operate on the association using the normal business component mechanisms.

Syntax

BusComp.GetAssocBusComp

Argument	Description
Not applicable	

Returns

The association business component for a business component

Usage

This method and the Associate method make sense only for many-to-many relationships, which are based on intersection tables, for example Account and Industry. In the context of a many-to-many relationship, you can use Siebel VB to either *add* a new record (that is, associate a new child record), or *insert* a record (that is, create a new record) in the child business component. To *add* a record, use GetAssocBusComp and the Associate method. To *insert* a record, use GetMVGBusComp and the NewRecord method. The GetAssocBusComp should be set to Nothing after use.

GetAssocBusComp can also be applied to the Child Business Component of a Master Detail View (rather than upon the MVG BusComp) when a M:M Link is used and the Child Applet has an Association Applet defined.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB and uses `GetAssocBusComp` to add a new industry to an account record:

```

Dim oAssocBC As BusComp

Set oAssocBC = oMainBc.GetMVGBusComp("Industry").GetAssocBusComp
With oAssocBC
    .ClearToQuery
    .SetSearchExpr "[SIC Code] = ""5734""
    .ExecuteQuery ForwardOnly

    If .FirstRecord Then .Associate NewBefore
End With
Set oAssocBC = Nothing

```

The following is the equivalent Siebel eScript code:

```

//get the business Object and the business component
var oAssocBC = oMainBc.GetMVGBusComp("Industry").GetAssocBusComp();
with (oAssocBC)
{
    ClearToQuery;
    SetSearchExpr("[SIC Code] = '5734'");
    ExecuteQuery(ForwardOnly)
    if (FirstRecord())
        Associate(NewBefore);
}
oAssocBC = null;

```

Related Topics

[“GetMVGBusComp Method” on page 207](#)

[“GetPicklistBusComp Method” on page 209](#)

GetFieldValue Method

`GetFieldValue` returns the value for the field specified in its argument for the current record of the business component. Use this method to access a field value.

Syntax

BusComp.`GetFieldValue`(*FieldName*)

Argument	Description
<i>FieldName</i>	String variable or literal containing the name of the field

Returns

A string containing the field value of the field identified in *FieldName*, an error message if the field is inactive, or an empty string if the field is empty.

NOTE: Date fields retrieved by `GetFieldValue()` are always returned using the format MM/DD/YYYY, no matter what your local date format is set to. Use `GetFormattedFieldValue()` to get the same date format you use in the client interface.

Usage

Only fields that were active at the time of the BusComp query contain values. For more information, read [“ActivateField Method” on page 183](#). If this method is used on fields that are not active, an error message is returned. If this method is used on fields that are empty, an empty string is returned.

CAUTION: If a value from a business component that is a parent of the current business component is desired, the `Link Specification` property for that field must be set to `TRUE` in Siebel Tools. Otherwise, the child business component cannot access the value in the parent business component. For more information on the `Link Specification` property, see [Siebel Object Types Reference](#).

The *FieldName* must be enclosed in double quotes and must be spelled exactly as the field name appears in Siebel Tools, for example:

```
GetFi el dVal ue("Acti vi tyCreatedByName")
```

The name "Person who created the acti vi ty", as shown in the status bar, does not work; nor does the column head "Created By".

NOTE: In Browser Script, `GetFieldValue` can be used only for the fields exposed in the applet and for system fields.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB. It shows an implementation of the `PreSetFieldValue` event to illustrate the use of `GetFieldValue`:

```
Function BusComp_PreSetFi el dVal ue (Fi el dName As String, Fi el dVal ue As String) As Integer
    Dim bcOppty As BusComp
    Dim boBusObj As BusObject
    Dim srowid As String

    srowid = GetFi el dVal ue("Id")
    Set boBusObj = TheAppl i cati on. GetBusObject("Opportuni ty")
    Set bcOppty = boBusObj . GetBusComp("Opportuni ty")
    With bcOppty
        . SetVi ewMode Sal esRepVi ew
        . Acti vateFi el d "Sal es Stage"
```

```

        .SetSearchSpec "Id", srowid
        .ExecuteQuery ForwardOnly
    End With

    Set bcOppty = Nothing
    Set boBusObj = Nothing

End Function

```

The following is the equivalent example in Siebel eScript.

```

function BusComp_PreSetFieldValue (FieldName, FieldValue)

    var boBusObj = TheApplication().GetBusObject("Opportunity");
    var bcOppty = boBusObj.GetBusComp("Opportunity");
    var srowid = GetFieldValue("Id");

    with (bcOppty)
    {
        SetViewMode(SalesRepView);
        ActivateField("Sales Stage");
        SetSearchSpec("Id", srowid);
        ExecuteQuery(ForwardOnly);
    }

    bcOppty = null;
    boBusObj = null;
}

```

Related Topics

["ActivateField Method" on page 183](#)

["GetFormattedFieldValue Method"](#)

GetFormattedFieldValue Method

GetFormattedFieldValue returns the field value in the current local format; it returns values in the same format as the Siebel UI.

Syntax

BusComp.GetFormattedFieldValue(*FieldName*)

Argument	Description
<i>FieldName</i>	String variable or literal containing the name of the field to obtain the value from

Returns

A string containing the value of the requested field, in the same format as displayed in the user interface, or an empty string ("") if the field is inactive or empty.

Usage

GetFormattedFieldValue is useful for code that is used in multiple countries with different formats for currency, date, and number. This method can be used only on fields that have been activated using ActivateField.

Some special behavior is associated with particular data types.

DTYPE_PHONE. When used on fields of DTYPE_PHONE, these methods return formatted phone numbers.

Example 1:

```
phone = bc.GetFieldValue("Main Phone Number")
TheApplication.Trace "The number is " & phone
```

Result:

The number is 8869629123

Example 2:

```
phone = bc.GetFormattedFieldValue("Main Phone Number")
TheApplication.Trace "The number is " & phone
```

Result:

The number is (886) 962-9123

DTYPE_DATE. When used on fields of DTYPE_DATE, these methods are the same as GetFieldValue and SetFieldValue, except that the result is in the format of the Regional Setting.

Table 34 shows the standard formats used by GetFieldValue and SetFieldValue to return data.

Table 34. Date and Time Formats

Type of Data	Format
Dates	mm/dd/yyyy
Times	hh:nn:ss
Date-times	mm/dd/yyyy hh:nn:ss

If you attempt to use SetFieldValue and your Regional Setting format is different, you receive an error like this:

Error: The value '31-Dec-99' can not be converted to a date time value.

This error can be avoided by using the GetFormattedFieldValue and SetFormattedFieldValue methods.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following Siebel VB example demonstrates how to use the `GetFormattedFieldValue` function and how to calculate the number of days between two dates.

```
Sub Button_Click
  Dim DateDiff as Integer
  Dim oBC as BusComp
  Set oBC= me.BusComp
  x = oBC.GetFormattedFieldValue("Start Date")
  y = oBC.GetFormattedFieldValue("Done")
  dx = DateValue(x)
  dy = DateValue(y)
  DateDiff = dy - dx
End Sub
```

Related Topics

["ActivateField Method" on page 183](#)

["GetFieldValue Method" on page 201](#)

["SetFieldValue Method" on page 235](#)

["SetFormattedFieldValue Method" on page 237](#)

GetLastErrorCode Method

The `GetLastErrorCode` method returns the most recent error code on the business component level.

Syntax

BusComp.`GetLastErrorCode`

Argument	Description
Not applicable	

Returns

The last error code as a short integer. 0 indicates no error.

Usage

After execution of a method, the `GetLastErrorCode` can be invoked to check if any error was returned from the previous operation. The `GetLastErrorText` method can be invoked to retrieve the text of the error message. The text retrieved using `GetLastErrorText` also includes a Siebel error number that can be used to search Oracle MetaLink for additional information about the error.

Used With

COM Data Control, Mobile Web Client Automation Server

GetLastErrText Method

The GetLastErrText method returns the last error text message on the business component level.

Syntax

BusComp.GetLastErrText

Argument	Description
Not applicable	

Returns

The most recent error text message as a String

Usage

After execution of a method, the GetLastErrCode can be invoked to check if any error was returned from the previous operation. The GetLastErrText method can be invoked to retrieve the text of the error message.

Used With

COM Data Control, Mobile Web Client Automation Server

Related Topic

[“GetLastErrCode Method”](#)

GetMultipleFieldValues Method

GetMultipleFieldValues returns values for the fields specified in the property set.

Syntax

BusComp.GetMultipleFieldValues(SiebelPropertySet *fieldNames*, SiebelPropertySet *fieldValues*)

Argument	Description
<i>fieldNames</i>	A property set containing a collection of properties representing the fields
<i>fieldValues</i>	A property set containing a collection of properties representing the values for the fields specified in the <i>fieldNames</i> argument

Returns

TRUE if success; FALSE if failure

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

[“SetMultipleFieldValues Method” on page 238](#)

GetMVGBusComp Method

The GetMVGBusComp method returns the MVG business component associated with the business component field specified by *FieldName*. This business component can be used to operate on the multi-value group using the normal business component mechanisms.

Syntax

BusComp.GetMVGBusComp(*FieldName*)

Argument	Description
<i>FieldName</i>	Name of the field with a multi-value group attached, used to obtain the multi-value group business component

Returns

The multi-value group business component of the current business component and identified field

Usage

A multi-value group is a set of detail records attached to the current record in the business component that holds the corresponding multi-value field.

The GetMVGBusComp business component should be set to Nothing (Siebel VB) or null (Siebel eScript) after use.

NOTE: In the context of a many-to-many relationship, you can use Siebel VB to either add a new record, that is, associate a new child record, or insert a record, that is, create a new record in the child business component. To *add* a record, use GetAssocBusComp and the Associate method. To *insert* a record, use GetMVGBusComp and the NewRecord method.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following sample Siebel VB code using GetMVGBusComp inserts a new address to the “Hong Kong Flower Shop” account record. For other examples, read [“ExecuteQuery Method” on page 193](#) and [“FirstSelected Method” on page 198](#).

```

Dim AccntB0 as BusObject
Dim AccntBC as BusComp
Dim AddrBC as BusComp
Set AccntB0 = TheApplication.GetBusObject "Account"
Set AccntBC = AccntB0.GetBusComp "Account"

With AccntBC
    .SetViewMode SalesRepView
    .ClearToQuery
    .SetSearchSpec "Name", "Hong Kong Flower Shop"
    .ExecuteQuery
    If (.FirstRecord) Then Set AddrBC = .GetMVGBusComp "Street Address"
End With

With AddrBC
    .NewRecord NewAfter
    .SetFieldValue "City", "Denver"
    .SetFieldValue "Street Address", "123 Main Street"
    .WriteRecord
End With

Set AddrBC = Nothing
Set AccntBC = Nothing
Set AccntB0 = Nothing

```

Related Topics

[“FirstSelected Method” on page 198](#)

[“GetPicklistBusComp Method”](#)

GetNamedSearch Method

GetNamedSearch returns the named search specification specified by *searchName*.

Syntax

```
BusComp.GetNamedSearch(searchName)
```

Argument	Description
<i>searchName</i>	Name of the search specification that references the search string.

Returns

A string containing the value specified in the search specification identified in *searchName*

Usage

The search specification uses the same syntax as used in predefined queries.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topics

[“GetSearchExpr Method” on page 211](#)

[“GetSearchSpec Method” on page 212](#)

[“SetNamedSearch Method” on page 240](#)

GetPicklistBusComp Method

GetPicklistBusComp returns the pick business component associated with the specified field in the current business component.

Syntax

BusComp.GetPicklistBusComp(*FieldName*)

Argument	Description
<i>FieldName</i>	Name of the field with a picklist specified; used to obtain the pick business component

Returns

The pick business component of the current business component and identified field. If there is no picklist associated with that field, the function returns an error.

Usage

The returned pick business component can be used to operate on the picklist. The GetPickListBusComp should be destroyed after use by using the Nothing function (Siebel VB) or null function (eScript or Browser Script).

NOTE: When a record is picked on a constrained picklist using the GetPickListBusComp and Pick methods, the constraint is active. Therefore, the retrieved picklist business component contains only those records that fulfill the constraint.

To pick a value from a picklist in Siebel VB

- 1 Use GetPicklistBusComp to create an instance of the pick list business component.
- 2 Navigate in the picklist business component to the record you want to pick.

- 3 Use Pick to pick the value.
- 4 Use Set objBCPickList = Nothing to explicitly destroy the picklist business component instance.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel eScript:

```

if (this.GetFieldValue("City") == "San Mateo")
{
    var oBCPick = this.GetPickListBusComp("State");
    with (oBCPick)
    {
        ClearToQuery();
        SetSearchSpec("Value", "CA");
        ExecuteQuery(ForwardOnly);
        if (FirstRecord())
            Pick();
    }
    oBCPick = null;
}

```

The following example is for Java Data Bean. It selects a product from a picklist.

```

SiebelBusObject = SiebelDataBean.getBusObject("Service Request");
SiebelBusComp = SiebelBusObject.getBusComp("Service Request");
SiebelBusComp.newRecord(false);

. . .

SiebelBusComp productBusComp = SiebelBusComp.getPickListBusComp("Product");
productBusComp.clearToQuery();
productBusComp.setSearchSpec("Name", "ATM Card");
productBusComp.executeQuery(false);
isRecord = productBusComp.firstRecord();
try
{
    if (isRecord)
        productBusComp.pick();
    SiebelBusComp.writeRecord();
}

catch (SiebelException e)
{
    System.out.println("Error in Pick " + e.getMessage());
}

```

The following example is in Siebel VB:

```

If Me.GetFieldValue("City") = "San Mateo" Then
    Set oBCPick = Me.GetPickListBusComp("State")
    With oBCPick
        .ClearToQuery
        .SetSearchSpec "Value", "CA"
        .ExecuteQuery ForwardOnly
        If .FirstRecord Then .Pick
    End With
    Set oBCPick = Nothing
End If

```

Related Topics

["FirstSelected Method" on page 198](#)

["GetMVGBusComp Method" on page 207](#)

GetSearchExpr Method

GetSearchExpr returns the current search expression for the business component.

Syntax

BusComp.GetSearchExpr

Argument	Description
Not applicable	

Returns

A string containing the current search expression. An example of a returned search expression string is the following:

```
"[Revenue] > 10000 AND [Probability] > .5"
```

Usage

GetSearchSpec retrieves the business component state, not the values. The business component state does not change until the query is executed. Note that it may never change to the original value if the user input is invalid.

When using GetSearchExpr in a browser script and the Applet_PreInvokeMethod, GetSearchExpr returns a null value even if a query filter has been added.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topics[“GetNamedSearch Method” on page 208](#)[“GetSearchSpec Method”](#)[“SetSearchExpr Method” on page 242](#)

GetSearchSpec Method

GetSearchSpec returns the search specification for the field specified by the *FieldName* argument.

Syntax

BusComp.GetSearchSpec(*FieldName*)

Argument	Description
<i>FieldName</i>	Contains the name of the field from which to obtain the associated search specification.

Returns

A string containing the search specification for the field identified in *FieldName*. An example of a returned search specification string is "> 10000".

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topics[“GetNamedSearch Method” on page 208](#)[“GetSearchExpr Method” on page 211](#)[“GetSortSpec Method” on page 212](#)[“SetSearchSpec Method” on page 244](#)

GetSortSpec Method

GetSortSpec returns the active sort specification of the object that has context.

Syntax

this.GetSortSpec();

Argument	Description
Not applicable	

Returns

Active sort specification of the object that has context

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topics

[“GetSearchSpec Method” on page 212](#)

[“SetSortSpec Method” on page 248](#)

GetUserProperty Method

GetUserProperty returns the value of a named user property.

Syntax

BusComp.GetUserProperty(*propertyName*)

Argument	Description
<i>propertyName</i>	Contains the name of the user property to obtain.

Returns

The user property

Usage

The value of a user property is set using SetUserProperty. The user properties act like instance variables of a business component. The advantage of user properties is that they can be accessed from anywhere in the code (even from other applications through COM) using GetUserProperty. An instance variable, on the other hand, can be accessed only from within Siebel VB from the same object on which the variable is declared.

The value of the property is reset every time you instantiate a new business component.

NOTE: GetUserProperty does not interact directly with user properties defined in Siebel Tools.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

[“SetUserProperty Method” on page 250](#)

GetViewMode Method

GetViewMode returns the current visibility mode for the business component. This effects which records are returned by queries according to the visibility rules. For more information, see [“SetViewMode Method” on page 251](#).

Syntax

BusComp.GetViewMode

Argument	Description
Not applicable	

Returns

An integer constant that identifies a visibility mode

Returns	Description
<i>mode</i>	<p>Where <i>mode</i> is a Siebel ViewMode constant or its corresponding integer value. The constants shown are defined in three environments. For details on each Siebel ViewMode constant, read “SetViewMode Method” on page 251.</p> <ul style="list-style-type: none"> ■ SalesRepView (0) ■ ManagerView (1) ■ PersonalView (2) ■ AllView (3) ■ OrganizationView (5) ■ GroupView (7) ■ CatalogView (8) ■ SubOrganizationView (9)

Usage

GetViewMode() returns NoneSetView mode until a business component is executed or has its view mode set through SetViewMode(). The NoneSetViewMode value indicates that the business component has not yet had any visibility rules applied to it. A business component that has just been created through a call to GetBusComp() is in this state, so if a specific view mode is desired, it must be explicitly set through SetViewMode(). Otherwise, the first time the business component is executed, its view mode is set according to the most restrictive visibility mode defined for that business component.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

[“SetViewMode Method” on page 251](#)

InvokeMethod Method

InvokeMethod calls the specialized method or user-created method named in the argument.

VB Syntax

BusComp.InvokeMethod methodName, methodArgs

Argument	Description
<i>methodName</i>	The name of the method. For more information on the available methods, read “InvokeMethod Methods for the Business Component Object” on page 216 .
<i>methodArgs</i>	A single string or a string array (object interfaces) containing arguments to <i>methodName</i> .

eScript Syntax

BusComp.InvokeMethod(methodName, methArg1, methArg2, ..., methArgn);

Argument	Description
<i>methodName</i>	The name of the method
<i>methArg1, methArg2, ..., methArgn</i>	One or more strings containing arguments <i>to methodName</i>

Returns

A string containing the result of the method

Usage

Use InvokeMethod to call methods on a business component object that are not exposed directly through the object interface.

Specialized methods are typically methods implemented in applet or business component classes other than CSSFrame and CSSBusComp, respectively, that is, specialized classes.

NOTE: The InvokeMethod method should be used only with documented specialized methods. Oracle does not support calling specialized methods with InvokeMethod, unless they are listed in this book.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For examples of the usage of InvokeMethod, see [“ClearLOVCache Method” on page 216](#), [“CreateFile Method” on page 218](#), [“GetFile Method” on page 220](#), and [“PutFile Method” on page 221](#).

InvokeMethod Methods for the Business Component Object

Siebel applications provide multiple methods for performing useful operations, such as manipulating files stored in the Siebel File System and refreshing records and business components. These methods can be invoked using server script (Siebel VB, eScript) or using one of the programmatic interfaces (Mobile Web Client Automation Server – connected mode only, COM Data Control, Java Data Bean).

The following methods are available for use with InvokeMethod:

- [“ClearLOVCache Method” on page 216](#)
- [“CreateFile Method” on page 218](#)
- [“GenerateProposal Method” on page 219](#)
- [“GetFile Method” on page 220](#)
- [“PutFile Method” on page 221](#)
- [“RefreshBusComp Method” on page 222](#)
- [“RefreshRecord Method” on page 223](#)
- [“SetAdminMode Method” on page 223](#)

The methods available for manipulating the file system (CreateFile, GetFile, and PutFile) always store the file to or retrieve the file from the file system local to the server on which the script is being executed. For example, if you construct a Java client using the Java Data Bean to manipulate the file system, all files must be accessible from the Siebel Server. You can use UNC naming conventions (for example: \\server\dir\file.txt) or standard DOS directories (for example: D:\dir\file.txt) for file access, but the UNC path or mounted file system must be accessible to the Siebel Server. These methods do not serialize the files from a remote client and place them in the Siebel file system.

Methods that manipulate files are available for business components whose Class is ‘CSSBCFile’. The methods can be accessed using COM Data Control, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

ClearLOVCache Method

This method clears the object manager list of values (LOV) cache, functioning similarly to the Clear Cache button in the Administration - Data > List of Values view.

NOTE: ClearLOVCache clears only the object manager cache, not the session cache in the High Interactivity client.

Syntax

```
BusComp.InvokeMethod("ClearLOVCache")
```

Argument	Description
none	

Returns

Not Applicable

Used With

This method is supported by *BusComp.InvokeMethod()* calls in Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following Siebel eScript example is for Server Script:

```
function WebApplet_PreInvokeMethod (MethodName)
{
  if (MethodName == "TestMethod") {
    var lov_bo = TheApplication().GetBusObject("List Of Values");
    var lov_bc = lov_bo.GetBusComp("List Of Values");
    lov_bc.NewRecord(NewAfter);
    lov_bc.SetFieldValue("Type", "ACCOUNT_STATUS");
    lov_bc.SetFieldValue("Name", "Hello");
    lov_bc.SetFieldValue("Value", "Hello");
    lov_bc.SetFieldValue("Order By", "12");
    lov_bc.SetFieldValue("Translate", "Y");
    lov_bc.WriteRecord();
    lov_bc.InvokeMethod("ClearLOVCache");
    lov_bc = null;
    lov_bo = null;
    return (CancelOperation);
  }
  return(ContinueOperation);
}
```

```
}
```

CreateFile Method

To create a file in the Siebel file system from an external source, use the business component `CreateFile` method. Before calling `CreateFile`, make sure that a new business component record has been created using the `NewRecord` method for the business component.

Syntax

```
BusComp.InvokeMethod("CreateFile", SrcFilePath, KeyFieldName, KeepLink)
```

Argument	Description
<i>SrcFilePath</i>	The fully qualified path of the file on the Siebel Server or Mobile Web Client.
<i>KeyFieldName</i>	The name of the field in the business component that contains the File Name, for example, <code>AcctFileName</code> in the Account Attachment business component.
<i>KeepLink</i>	Applies to URLs. Either Y or N depending on whether a link to the file is stored as an attachment instead of the actual file.

Returns

A string containing the value "Success" or "Error" depending on whether or not the operation succeeded.

Used With

This method is supported by `BusComp.InvokeMethod()` calls in COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following example is in Siebel VB:

```
Dim RetValue as String
Dim fileBC as BusComp

' Instantiate fileBC as the appropriate attachment business component

fileBC.NewRecord NewAfter
RetValue = fileBC.InvokeMethod ("CreateFile", "c:\Demo\Image.bmp", "AcctFileName",
"Y")
fileBC.WriteRecord
```

The following example is in Siebel eScript:

```
var fileBC;

// Instantiate fileBC as the appropriate attachment business component
```

```
fileBC.NewRecord(NewAfter);
RetVal ue = fileBC.InvokeMethod ("CreateFile", "C: \\Demo\\Image.bmp",
"AcctFileName", "Y");
fileBC.Wri teRecord();
```

The following example is in COM Data Control:

```
Dim errCode as Integer
Dim Args(2) as String
Dim RetVal ue as String
Dim fileBC as BusComp

' Instantiate fileBC as the appropriate attachment business component

Args(0) = "C: \\Demo\\Image.bmp"
Args(1) = "AcctFileName"
Args(2) = "Y"

fileBC.NewRecord NewAfter, errCode
RetVal ue = fileBC.InvokeMethod ("CreateFile", Args, errCode)
fileBC.Wri teRecord
```

GenerateProposal Method

GenerateProposal creates a new proposal record. The DocServer handles the work of generating the actual proposal.

Syntax

To specify a template:

```
BusComp.InvokeMethod("GenerateProposal", RecordExists, Replace, TemplateFile)
```

To use the default proposal template:

```
BusComp.InvokeMethod("GenerateProposal", RecordExists, Replace)
```

Argument	Description
<i>RecordExists</i>	If FALSE, then a new record is created and used to create a new proposal. If TRUE, the current selected proposal is used.
<i>Replace</i>	If TRUE, the template file is copied from the template into the proposal (as a draft file). You should typically call this method with this argument set to FALSE.
<i>TemplateFile</i>	(Optional) The default value of this argument is NULL. A string that specifies the name of the template to use. When a string is passed into this argument, the proposal searches for the first template record whose name contains the string passed rather than using the default template.

Used With

This method is supported by *BusComp*.InvokeMethod() calls in Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

GetFile Method

Obtains a file from the Siebel file system and places that file on the local file system of the Siebel Server or Mobile Client. Note that you must be properly positioned on the desired file attachment record to get the file and have it placed on the local file system's temporary directory.

Syntax

BusComp.InvokeMethod("GetFile", *KeyFieldName*)

Argument	Description
<i>KeyFieldName</i>	The name of the field in the business component that contains the File Name, for example, <i>AccntFileName</i> in the Account Attachment business component.

Returns

A string containing "Success, <OutFilePath>" if the operation succeeded. *OutFilePath* is the fully qualified path of the file on the Client/Server machine in the user's temp directory. The return value is "Error" if the operation failed.

Used With

This method is supported by *BusComp*.InvokeMethod() calls in COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following example uses Siebel VB:

```
Dim ReturnValue as String
Dim fileBC as BusComp

' Instantiate fileBC as the appropriate attachment business component
' Query for the desired attachment record

ReturnValue = fileBC.InvokeMethod ("GetFile", "AccntFileName")
```

The following example uses Siebel eScript:

```
var ReturnValue;
var fileBC;

// Instantiate fileBC as the appropriate attachment business component
// Query for the desired attachment record

var ReturnValue = fileBC.InvokeMethod("GetFile", "AccntFileName");
```

The following example uses COM Data Control:

```

Dim errCode as Integer
Dim Args as String
Dim ReturnValue as String
Dim fileBC as BusComp

' Instantiate fileBC as the appropriate attachment business component

' Query for the desired attachment record

Args = "AcctFileName"
ReturnValue = fileBC.InvokeMethod ("GetFile", Args, errCode)

```

PutFile Method

Updates a file in the Siebel file system with a newer file. Note that you must be properly positioned on the desired file attachment record to update the file in the file system.

Syntax

BusComp.InvokeMethod("PutFile", SrcFilePath, KeyFieldName)

Argument	Description
<i>SrcFilePath</i>	This is the fully qualified path of the file on the Siebel Server or Mobile Web Client.
<i>KeyFieldName</i>	This is the name of the field in the business component that contains the File Name. For example: AcctFileName field in the Account Attachment business component.

Returns

A string containing the values of "Success" or "Error" depending on whether or not the operation succeeded.

Usage

After using PutFile to save a file attachment the updated attachment is not visible in the user interface until you call the WriteRecord method. For more information about WriteRecord, read ["WriteRecord Method" on page 255](#).

Used With

This method is supported by *BusComp.InvokeMethod()* calls in COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

Example

The following example uses Siebel VB:

```

Dim ReturnValue as String
Dim fileBC as BusComp

```

```
' Instantiate fileBC to the appropriate attachment business component
' Query for the attachment record to be updated

RetVal ue = fileBC.InvokeMethod ("PutFile", "c:\Demo\Image.bmp", "AcctFileName")
fileBC.Wri teRecord
```

The following example uses Siebel eScript:

```
var RetVal ue;
var fileBC;

// Instantiate fileBC to the appropriate attachment business component
// Query for the attachment record to be updated

RetVal ue = fileBC.InvokeMethod("PutFile", "c:\Demo\Image.bmp", "AcctFileName");
fileBC.Wri teRecord();
```

The following example uses COM Data Control:

```
Dim errCode as Integer
Dim Args(1) as String
Dim RetVal ue as String
Dim fileBC as BusComp

' Instantiate fileBC to the appropriate attachment business component
' Query for the attachment record to be updated

Args(0) = "C:\Demo\Image.bmp"
Args(1) = "AcctFileName"
RetVal ue = fileBC.InvokeMethod ("PutFile", Args, errCode)
fileBC.Wri teRecord
```

RefreshBusComp Method

This method re-executes the current query for the business component and places the focus back onto the record that was previously highlighted. The user sees that the data is refreshed but the same record is still highlighted in the same position in the list applet as before the RefreshBusComp method was invoked.

Syntax

BusComp.InvokeMethod("RefreshBusComp")

Argument	Description
none	

Returns

Not Applicable

Used With

This method is supported by *BusComp.InvokeMethod()* calls in Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

NOTE: This method only works with business components that are derived from *CSSBCBase*.

RefreshRecord Method

This method refreshes the currently highlighted record, which triggers an update of the business component fields in the client display and positions the cursor on the context record. Other records currently exposed in the user interface are not refreshed.

Syntax

```
retVal = BusComp.InvokeMethod("RefreshRecord")
```

Argument	Description
none	

Returns

Not Applicable

Used With

This method is supported by *BusComp.InvokeMethod()* calls in Browser Script, COM Data Control, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

NOTE: This method only works with business components that are derived from *CSSBCBase*.

SetAdminMode Method

This method is particularly useful if you need to replicate the behavior enforced by the 'Admin' property of the View object by disabling all visibility rules for the business component.

Syntax

```
BusComp.InvokeMethod("SetAdminMode", flag)
```

Argument	Description
<i>flag</i>	"TRUE" or "FALSE". Flag to specify whether the business component should be executed in Admin mode.

Returns

Not Applicable

Used With

This method is supported by *BusComp.InvokeMethod()* calls in COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, and Server Script.

LastRecord Method

LastRecord moves the record pointer to the last record in the business component.

Syntax

BusComp.LastRecord

Argument	Description
Not applicable	

Returns

An integer in Siebel VB; a Boolean in ActiveX, COM, Java Data Bean, Siebel eScript.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is for Mobile Web Client Automation Server. Siebel Application is an Application instance:

```
Private Sub LastRecord_Click()
    Dim errCode As Integer
    Dim oBusComp as Siebel BusComp
    FieldValue.Text = ""
    oBusComp.ClearToQuery
    oBusComp.ExecuteQuery ForwardBackward
    oBusComp.LastRecord errCode
    If errCode = 0 Then
        FieldValue.Text = oBusComp.GetFieldValue(FieldName.Text, _
            errCode)
    End If

    Status.Text = Siebel Application.GetLastErrorText
End Sub
```

Related Topics

["FirstRecord Method" on page 196](#)

["NextRecord Method" on page 227](#)

Name Method

The Name property contains the name of the business component.

Syntax

BusComp.Name()

Argument	Description
Not applicable	

Returns

A string containing the business component name

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Browser Script:

```
function BusComp_PreSetFieldValue (fieldName, value)
{
    theApplication().SWEAlert(this.Name());
}
```

NewRecord Method

NewRecord adds a new record (row) to the business component.

Syntax

BusComp.NewRecord(WhereIndicator)

Argument	Description
<i>WhereIndicator</i>	<p>Predefined constant indicating where the new row is added. This value should be one of the following:</p> <ul style="list-style-type: none"> ■ NewBefore ■ NewAfter ■ NewBeforeCopy ■ NewAfterCopy <p>With Java Data Bean the values are:</p> <ul style="list-style-type: none"> ■ FALSE (equivalent to NewBefore) ■ TRUE (equivalent to NewAfter)

Returns

Not applicable

Usage

This new row becomes the current row, either before or after the previously current record, depending on the value you selected for *WhereIndicator*.

You can use *NewRecord* to copy a record. To place the copy before the original record use the following command.

Object.NewRecord NewBeforeCopy

To place the copy after the original record, use the following command.

Object.NewRecord NewAfterCopy

In certain cases, using the *NewRecord* method in a server script results in slow performance for this method. There is no error message shown and the new record is created, but the response time is not optimal. This is due to the expected behavior of the application when creating new records.

Before an application inserts a new record into the database, it must obtain the cursor for the record set to position the new record in the record set. This requires the record set to be populated before creating the new record. In the context of a script, a query must be run on the business component before the *NewRecord* method is called. If the query is not explicitly run in the script, the application will force a query to run to bring back the cursor. The application will normally run a full table query, which results in the performance issue.

For more information on performance issues with the *NewRecord* method, see Doc ID 477556.1 on [OracleMetaLink](#) 3.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB:

```

Dim oBusObj as BusObject
Dim oBC as BusComp

Set oBusObj = TheApplication.ActiveBusObject
Set oBC = oBusObj.GetBusComp("Action")
oBC.NewRecord NewAfter
oBC.SetFieldVal ue "Type", "To Do"
oBC.SetFieldVal ue "Description", "Find Decision Makers"
oBC.WriteRecord

set oBC = Nothing
set oBusObj = Nothing
    
```

NextRecord Method

NextRecord moves the record pointer to the next record in the business component, making that the current record and invoking any associated script events.

Syntax

BusComp.NextRecord

Argument	Description
Not applicable	

Returns

An integer in Siebel VB; a Boolean in Siebel eScript and COM: 1 if the record pointer was moved to the next record, 0 if the current record was already the last record.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel eScript. For a similar Siebel VB example, see ["FirstRecord Method" on page 196](#).

```

var i sRecord;
    
```

```

with (this)
{
    ClearToQuery();
    SetSearchSpec("Name", "A*");
    ExecuteQuery(ForwardBackward);
    isRecord = FirstRecord();
    while (isRecord)
    {
        // do some record manipulation
        isRecord = NextRecord();
    }
}

```

Related Topic

["FirstRecord Method" on page 196](#)

NextSelected Method

NextSelected moves the focus to the next record of the current multiple selection.

Syntax

BusComp.NextSelected

Argument	Description
Not applicable	

Returns

An integer: 1 if there is another record in the multiple selection, 0 otherwise.

Used With

Server Script

Example

For examples, read ["FirstSelected Method" on page 198](#).

ParentBusComp Method

ParentBusComp returns the parent (master) business component when given the child (detail) business component of a Link.

Syntax*BusComp.ParentBusComp*

Argument	Description
Not applicable	

Returns

The parent business component of the Link

Usage

ParentBusComp allows you to write code in the child business component that accesses field values and performs actions on the parent business component using the normal business component mechanisms.

CAUTION: If a value from a business component that is a parent of the current business component is desired, the Link Specification property for that field must be set to TRUE in Siebel Tools. Otherwise, the child business component cannot access the value in the parent business component. For more information on the Link Specification property, see *Siebel Object Types Reference*.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB. For another example, read ["ExecuteQuery Method" on page 193](#).

```
Dim strParentName as String
...
strParentName = Me.ParentBusComp.GetFieldValue("Name")
```

Pick Method

The Pick method places the currently selected record in a picklist business component into the appropriate fields of the parent business component.

NOTE: Pick cannot be used to change the record in a read-only picklist field.

Syntax*BusComp.Pick*

Argument	Description
Not applicable	

Returns

Not applicable

Usage

Pick must be invoked on the picklist's business component. When a record is picked on a constrained picklist using the GetPickListBusComp and Pick methods, the constraint is active. Therefore, only records that fulfill the constraint can be retrieved.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example sorts the values in the Sales Stage field:

```
Sub BusComp_NewRecord
  Dim oBC as BusComp
  set oBC = me.GetPickListBusComp("Sales Stage")

  With oBC
    .ClearToQuery
    .SetSearchSpec "Sales Stage", "2 - Qualified"
    .ExecuteQuery ForwardOnly
    if .FirstRecord then .Pick
  End With

  set oBC = Nothing
End Sub
```

The following is the equivalent example in Siebel eScript:

```
function BusComp_NewRecord ()
{
  var oBC = this.GetPickListBusComp("Sales Stage");
  with (oBC)
  {
    ClearToQuery();
    SetSearchSpec("Sales Stage", "2 - Qualified");
    ExecuteQuery(ForwardOnly);
    if (FirstRecord())
      Pick();
  }
  oBC = null;
}
```

Related Topic

[“GetPicklistBusComp Method” on page 209](#)

PreviousRecord Method

PreviousRecord moves the record pointer to the next record in the business component, making that the current record and invoking any associated script events.

Syntax

BusComp.PreviousRecord

Argument	Description
Not applicable	

Returns

An integer in Siebel VB; a Boolean in Siebel eScript, COM, and ActiveX.

Usage

PreviousRecord may be used only on a business component that has been queried using the ForwardBackward CursorMode.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following Siebel eScript example finds the next-to-last record in a query and does some manipulation with it:

```
with (this)
{
  ActivateField("Name")
  ClearToQuery();
  SetSearchSpec("Name", "A*");
  ExecuteQuery(ForwardBackward);
  isRecord = FirstRecord();
  while (isRecord)
  {
    // do some record manipulation
    isRecord = NextRecord();
  }
}
```

```

        } // end while loop
nextToLastRecord = PreviousRecord();
if (nextToLastRecord) // verify that there is a penultimate record
{
    // do some more record manipulation that applies only to next-to-last record
} // end if
} // end with

```

Related Topic

["ExecuteQuery Method" on page 193](#)

RefineQuery Method

This method refines a query after the query has been executed.

Syntax

BusComp.RefineQuery

Argument	Description
Not applicable	

Returns

Not applicable

Usage

Unlike ClearToQuery, RefineQuery retains the existing query specification and allows you to add search conditions based only on those fields that have not been set by previous search expressions. RefineQuery may be most useful when used in conjunction with GetNamedSearch.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following Siebel VB code fragment shows how RefineQuery might be used:

```

me. SetSearchSpec "Status", "Open"
me. ClearToQuery
me. ExecuteQuery
me. RefineQuery
me. SetSearchSpec "Substatus", "Assigned"
me. ExecuteQuery

```

Related Topics

["ClearToQuery Method" on page 189](#)

["GetNamedSearch Method" on page 208](#)

Release Method

The Release() method enables the release of the business component and its resources on the Siebel Server.

Syntax

BusComp.release()

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Java Data Bean

Example

The following example is for Java Data Bean:

```

import com.siebel.data.*;
{
...
// create Siebel Data Bean
// Login into Siebel Data Bean
...
// Create Siebel Bus Object.
// get the Bus Object from Siebel DataBean
...
// Create Siebel Bus Comp siebBusComp
// Get the business component using Siebel BusObject
...
// Use the bus. Component

```

```

...
// Be sure to release the business component and its resources on the server
side siebBusComp.release();
// release the resources occupied by Siebel Bus Object and Siebel Data Bean after
their use.
}

```

The following example logs in to a Siebel Server. It then instantiates a business object, a business component, and a business service. Then, it releases them in reverse order.

```

import com.siebel.data.*;
import com.siebel.data.SiebelException;

public class JDBReleaseDemo
{
    private SiebelDataBean m_dataBean = null;
    private SiebelBusObject m_busObject = null;
    private SiebelBusComp m_busComp = null;
    private SiebelService m_busServ = null;

    public static void main(String[] args)
    {
        JDBReleaseDemo demo = new JDBReleaseDemo();
    }

    public JDBReleaseDemo()
    {
        try
        {
            // instantiate the Siebel Data Bean
            m_dataBean = new SiebelDataBean();

            // login to the servers
            m_dataBean.login("siebel.tcpip.none.none://<gateway>:<port>/<enterprise>/
<object manager>","<user id>","<password>");
            System.out.println("Logged in to the Siebel server ");

            // get the business object
            m_busObject = m_dataBean.getBusObject("Account");

            // get the business component
            m_busComp = m_busObject.getBusComp("Account");

            // get the business service
            m_busServ = m_dataBean.getService("Workflow Process Manager");

            //release the business service
            m_busServ.release();
            System.out.println("BS released ");

            //release the business component
            m_busComp.release();

            System.out.println("BC released ");
        }
    }
}

```

```

        //release the business object
        m_busObject.release();
        System.out.println("BO released ");

        // Logoff
        m_dataBean.logoff();
        System.out.println("Logged off the Siebel server ");
    }

    catch (SiebelException e)
    {
        System.out.println(e.getMessage());
    }
}
}
}

```

Related Topic

[“Logoff Method” on page 152](#)

SetFieldValue Method

SetFieldValue assigns the new value to the named field for the current row of the business component.

Syntax

BusComp.SetFieldValue FieldName, FieldValue

Argument	Description
<i>FieldName</i>	String containing the name of the field to assign the value to
<i>FieldValue</i>	String containing the value to assign

Returns

Not applicable

Usage

This method can be used only on fields that are active. For details, read [“ActivateField Method” on page 183](#). For applications in standard interactivity mode, write the record immediately after using SetFieldValue by calling WriteRecord.

FieldName must be enclosed in double quotes, and must be spelled exactly as the field name appears in the Siebel Repository (*not* in the status line of the application or the list column header), with the correct case; for example,

```
SetFieldValue "Name", "Acme"
```

FieldValue must not have a length that exceeds the defined length of the field. For example, passing a 20 character string into a field that is defined as being 16 characters long results in the runtime error "Value too long for field 'xxxxx' (maximum size nnn)." A good practice is to check the length of the string against the length of the destination field before using *SetFieldValue*.

To set a field to null, follow this example:

```
SetFieldV alue "Name", ""
```

Do not use the *SetFieldValue* method on a field that has a pick list. Instead, use the following procedure.

- 1 Use *GetPicklistBusComp(...)* to get a reference to the picklist business component for the Last Name field.
- 2 Set the required *SearchSpec* on the pick list business component so that a single unique record is returned.
- 3 Execute the query on the pick list business component.
- 4 Call the *Pick* method to emulate the user picking the record.

NOTE: *SetFieldValue* cannot be used with calculated fields and cannot be used recursively.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB:

```

If Val (Me. GetFi el dVal ue("Rep %")) < 75 Then
    Me. SetFi el dVal ue "Rep %", "75"
    Me. Wri teRecord
End If

```

The following is the equivalent example in Siebel eScript:

```

if (ToInteger(thi s. GetFi el dVal ue("Rep %")) < 75)
{
    thi s. SetFi el dVal ue("Rep %", "75");
    thi s. Wri teRecord();
}

```

Related Topics

["ActivateField Method" on page 183](#)

["SetFormattedFieldValue Method"](#)

["Pick Method" on page 229](#)

["GetPicklistBusComp Method" on page 209](#)

SetFormattedFieldValue Method

SetFormattedFieldValue assigns the new value to the named field for the current row of the business component. SetFormattedFieldValue accepts the field value in the current local format.

Syntax

BusComp.SetFormattedFieldValue FieldName, FieldValue

Argument	Description
<i>FieldName</i>	String containing the name of the field to assign the value to.
<i>FieldValue</i>	String containing the value to assign.

Returns

Not applicable

Usage

This method is useful when you write code for a Siebel configuration that is used in multiple countries with different currency, date, and number formats. This method can be used only on fields that have been activated using ActivateField.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example is a fragment from a program designed to track the velocity of an opportunity through its sales stages:

```
Function BusComp_PreWriteRecord As Integer

    Dim OpportunityBO as BusObject, StageBC as BusComp
    Dim OppStageID as String, SalesRep as String, Stage as String
    Dim StagePrev as String, StageDate as String, StageDatePrev as String
    Dim Dx as Double, Dy as Double, Diff as Double, DiffStr as String
    Dim OppID as String, OppStageID as String, StageID as String
    Dim SalesStageBO as BusObject, SalesStageBC as BusComp

    Set OpportunityBO = TheApplication.GetBusObject ("Opportunity")
    Set SalesStageBO = TheApplication.GetBusObject ("Sales Cycle Def")
    Set SalesStageBC = SalesStageBO.GetBusComp("Sales Cycle Def")

    With SalesStageBC
        .SetViewMode AllView
        .ClearToQuery
        .SetSearchSpec "Sales Cycle Stage", StagePrev
        .ExecuteQuery ForwardOnly
    End With
End Function
```

```

    If (.FirstRecord) Then
        StageId = .GetFieldValue("Id")
    End With

    ' Instantiate stage BC
    Set StageBC = OpportunityBO.GetBusComp("Opportunity Stage")

    ' Check that we do not already have a record for the stage

    With StageBC
        .SetViewMode AllView
        .ClearToQuery
        .SetSearchSpec "Sales Stage Id", StageId
        .ExecuteQuery ForwardOnly
    End With

    ' Proceed further only if we do not already have record
    ' opportunity sales stage

    If (.FirstRecord = 0) Then
        ' Create a new stage record and write it out
        .NewRecord NewAfter
        ' Record Id for future use
        OppStageId = .GetFieldValue("Id")
        .SetFieldValue "Opportunity Id", OppId
        .SetFieldValue "Sales Stage Id", StageId
        .SetFieldValue "Sales Rep", SalesRep
        .SetFormattedFieldValue "Entered Date", StageDatePrev
        .SetFormattedFieldValue "Left Date", StageDate
        Dx = DateValue (StageDatePrev)
        Dy = DateValue (StageDate)
        Diff = Dy - Dx
        DiffStr = Str(Diff)
        .SetFieldValue "Days In Stage", DiffStr
        .WriteRecord
    End If
End With

Set SalesStageBC = Nothing
Set SalesStageBO = Nothing
Set StageBC = Nothing
Set OpportunityBO = Nothing

End Function

```

Related Topics

["ActivateField Method" on page 183](#)

["SetFieldValue Method" on page 235](#)

SetMultipleFieldValues Method

SetMultipleFieldValues assigns a new value to the fields specified in the property set for the current row of the business component.

Syntax

BusComp.SetMultipleFieldValues oPropertySet

Argument	Description
<i>oPropertySet</i>	Property set containing a collection of properties representing the fields to be set, and their values

Returns

Not applicable

Usage

This method can be used only on fields that are active. The `FieldName` argument in the property must be set exactly as the field name appears in Siebel Tools, with the correct case. For example, in

```
oPropertySet.SetProperty "Name", "Acme"
```

the `FieldName` is "Name" and the `FieldValue` is "Acme".

NOTE: Do not use the `SetMultipleFieldValues` method on a field that has a pick list.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

The following example is in Siebel eScript:

```
var bo = TheAppl i cati on(). GetBusObj ect("Opportuni ty");
var bc = bo. GetBusComp("Opportuni ty");
var ps = TheAppl i cati on(). NewPropertySet();

wi th (ps)
{
    SetProperty ("Name", "Call Center Opportuni ty");
    SetProperty ("Account", "Marri ott Internati onal ");
    SetProperty ("Sal es Stage", "2-Qual i fi ed");
}

bc. Acti vateMul ti pl eFi el ds(ps);
bc. NewRecord(NewBefore);
bc. SetMul ti pl eFi el dVal ues(ps);
bc. Wri teRecord;

ps = nul l ;
bc = nul l ;
bo = nul l ;
```

The following Java Data Bean example sets multiple fields using `SetMultipleFieldValues`:

```

Siebel DataBean      Siebel_dataBean      = null ;
Siebel BusObject    Siebel_busObject    = null ;
Siebel BusComp      Siebel_busComp      = null ;
Siebel PropertySet   ps                    = null ;

try {

    Siebel_dataBean = new Siebel DataBean();
    ...
    Siebel_busObject = Siebel_dataBean.getBusObject("Account");
    Siebel_busComp = Siebel_busObject.getBusComp("Account");
    ps = Siebel_dataBean.newPropertySet();

    with(ps) {

        setProperty("Name", "Frank Williams Inc");
        setProperty("Location", "10 Main St");
        setProperty("Account Status", "Active");
        setProperty("Type", "Customer");

    }

    Siebel_busComp.activateField ("Name");
    Siebel_busComp.activateField ("Location");
    Siebel_busComp.activateField ("Account Status");
    Siebel_busComp.activateField ("Type");

    Siebel_busComp.newRecord(true);
    Siebel_busComp.setMultipleFieldValues(ps);
    Siebel_busComp.writeRecord();

}

catch (SiebelException e) {

    system.out.println("Error : " + e.getMessage());

}

ps.release();
Siebel_busComp.release();
Siebel_busObject.release();
Siebel_dataBean.release();

```

Related Topics

[“ActivateMultipleFields Method” on page 184](#)

[“GetMultipleFieldValues Method” on page 206](#)

SetNamedSearch Method

SetNamedSearch sets a named search specification on the business component. A named search specification is identified by the *searchName* argument.

Syntax

BusComp.SetNamedSearch *searchName*, *searchSpec*

Argument	Description
<i>searchName</i>	String containing the name of the named search specification
<i>searchSpec</i>	String containing the search specification string corresponding to the name

Returns

Not applicable

Usage

A named search specification is a search criterion that is not cleared by the ClearToQuery; for example, a predefined query or business component search specification.

A named search specification can be modified only programmatically; it cannot be modified through the UI. This specification is applied in conjunction with the existing search specification. When set, the named search specification is applied every time ExecuteQuery is called. ClearToQuery does not clear the named search specification. To clear it, explicitly set the searchSpec argument to "". Note that when a new instance of the BusComp is created, the named search specification is cleared.

The *searchSpec* argument assigned to SetNamedSearch is the same argument that is used after the equal sign in a predefined query. The maximum length of a predefined query is 2000 characters. For details on how to set up the search specification, read ["SetSearchExpr Method"](#) and ["SetSearchSpec Method"](#) on page 244.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

This example shows how to set a named search to a business component depending on the position of the current user.

The following example is in Siebel eScript:

```
function BusComp_PreQuery ()
{
  if (TheApplication(). GetProfileAttr("Position") == "Siebel Administrator");
  {
    this.SetNamedSearch ("Candidates", "[Status] LIKE 'Candidate' ")
  }
  return (ContinueOperation);
}
```

The following example is in Siebel VB:

```

Function BusComp_PreQuery () As Integer
    If TheApplicati on.GetProfil eAttr("Positi on") = "Siebel Admi ni strator" Then
        Me.SetNamedSearch "Candi dates", "[Status] LI KE ' Candi date' "
    End If

    BusComp_PreQuery = Conti nueOperati on
End Functi on

```

Note that defining searches using the SetNamedSearch method does not create a PDQ entry, this is a search specified in script only. To retrieve this search specification, use GetNamedSearch method. GetProfileAttr is used in personalization to retrieve values of an attribute in a user profile.

Related Topics

["GetNamedSearch Method" on page 208](#)

["SetSearchSpec Method" on page 244](#)

SetSearchExpr Method

SetSearchExpr sets an entire search expression on the business component, rather than setting one search specification for each field. Syntax is similar to that on the Predefined Queries screen.

Syntax

BusComp.SetSearchExpr searchSpec

Argument	Description
<i>searchSpec</i>	Search specification string field

Returns

Not applicable

Usage

Call this method after ClearToQuery and before ExecuteQuery. It is not necessary to use ActivateField on a field that is used in SetSearchExpr.

The maximum length of a predefined query is 2000 characters. The argument assigned to SetSearchExpr is the same as that used after the equal sign in a predefined query. For example, the first line following is a search specification in a predefined query; the second is the equivalent search specification used with the various interface methods. Note that Name is a field on the business component and therefore must be enclosed in brackets, [].

```
'Account'.Search = "[Name] ~ LI KE ""A. C. Parker"" "
```

```
BC.SetSearchExpr "[Name] ~ LI KE ""A. C. Parker"" "
```

If field values have search keywords such as NOT, AND, and OR, use two pairs of double quotes around the field value. For example, if a field Sub-Status can have the string "Not an Issue" as a field value, you would use the following VB syntax to avoid an SQL error:

```
substatus = GetFieldValue("Sub-Status")
searchst = "[Value] = "" & substatus & """"
BC.SetSearchExpr searchst
```

The following VB syntax generates an SQL error:

```
substatus = GetFieldValue("Sub-Status")
searchst = "[Value] = " & substatus
BC.SetSearchExpr searchst
```

Use both SetSearchExpr and SetSortSpec to build a query that includes both a search specification and a sort specification. You cannot set a sort specification with SetSearchExpr by itself. Do not use SetSearchExpr and SetSearchSpec together; they are mutually exclusive.

Any dates used with SetSearchExpr must use the format MM/DD/YYYY, regardless of the Regional control panel settings of the server or client computer.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example in Siebel eScript demonstrates how to log the current search specification to a file for debugging purposes:

```
var Ob = TheApplication().ActiveBusObject();
var BC = Ob.GetBusComp("Opportunity");
var Account = "Turston Steel";
var Oppty = "CAD/CAM implementation";
var searchst = "[Name] = '" + Oppty + "' AND [Account] = '" + Account + "'";

TheApplication().TraceOn("c:\temp\trace.txt", "Allocation", "All");
TheApplication().Trace("the search expression is: " + searchst);
BC.ClearToQuery();
BC.SetSearchExpr(searchst);
BC.ExecuteQuery(ForwardBackward);
```

Related Topics

- ["ClearToQuery Method" on page 189](#)
- ["ExecuteQuery Method" on page 193](#)
- ["SetSearchSpec Method" on page 244](#)
- ["SetSortSpec Method" on page 248](#)

SetSearchSpec Method

SetSearchSpec sets the search specification for a particular field. This method must be called before ExecuteQuery.

Syntax

BusComp.SetSearchSpec FieldName, searchSpec

Argument	Description
<i>FieldName</i>	String containing the name of the field on which to set the search specification.
<i>searchSpec</i>	String containing the search specification.

Returns

Not applicable

Usage

To avoid an unpredicted compound search specification on a business component, it is recommended to call ClearToQuery before calling SetSearchSpec. It is not necessary to use ActivateField on a field that is used in SetSearchSpec.

If multiple calls are made to SetSearchSpec for a business component, then the multiple search specifications are handled as follows:

- If the existing search specification is on the same field as the new search specification, then the new search specification replaces the existing search specification. For example:

```
myBusComp.SetSearchSpec("Status", "<> 'Renewal' ");
myBusComp.SetSearchSpec("Status", "<> 'Dropped' ");
```

results in the following WHERE clause:

```
WHERE Status <> 'Dropped'
```

- If the existing search specification is not on the same field as the new search specification, then the resultant search specification is a logical AND of the existing and the new search specifications. For example:

```
myBusComp.SetSearchSpec("Type", "<> 'Renewal' ");
myBusComp.SetSearchSpec("Status", "<> 'Sold' AND [Status] <> 'Cancelled' AND
[Status] <> 'Renewed' ");
```

results in the following WHERE clause:

```
WHERE Type <> 'Renewal' AND (Status<> 'Sold' AND Status <> 'Cancelled' AND Status
<> 'Renewed')
```

- If the existing search specification includes one or more of the same fields as the new search specification, then the new search specification on those common fields only replaces the existing search specification on the common fields. For example, if:

```
myBusComp.SetSearchSpec("Status", "<> ' In Progress' ")
```

is subsequently applied to the result of the previous example, then the following WHERE clause results:

```
WHERE Type <> ' Renewal ' AND Status <> ' In Progress'
```

Only the search specification on Status is replaced in the compound WHERE clause.

- If a search specification is set declaratively in Siebel Tools, and another search specification is set with script using `SetSearchSpec()`, then the resultant search specification is a logical AND of the existing Tools-created specification and the scripted specification. For example:

```
myBusComp.SetSearchSpec("Status", "<> ' Cancel I ed' ")
```

is applied to the following existing search specification created declaratively in Tools:

```
[Type] <> ' Renewal ' AND [Status] <> ' Sol d'
```

Then the following WHERE clause results:

```
WHERE Type <> ' Renewal ' AND (Status <> ' Sol d' AND Status <> ' Cancel I ed' )
```

NOTE: When an existing Tools-created search specification includes the same field as a subsequent search specification set with `SetSearchSpec()`, the behavior is not like the replacement behavior that results when both specifications are set by using `SetSearchSpec()`.

The maximum length of a predefined query is 2000 characters.

CAUTION: Do not use `SetSearchExpr` and `SetSearchSpec` together because they are mutually exclusive.

Using logical and comparison operators. Any search specification that can be created in the user interface can be duplicated in Siebel VB or eScript. Both logical operators and comparison operators may be used, provided that they are handled correctly. For example, in VB:

```
BC.SetSearchSpec "Status", "<> ' Cl osed' AND ([Owner] = Logi nName () OR [Refer To] = Logi nName ()) OR ([Owner] IS NULL AND [Support Group] = ' TS-AE' )"
```

Using special characters. If the search specification contains any of the following characters.

```
= > < ( ) , ~ " ' [
```

it must be enclosed in quotes. This rule applies to operators that are part of the search expression as well as text to search for. If the search expression contains quotes, those quotes must be doubled. For example, in the preceding line of code, notice that the entire search specification is enclosed in double quotes, whereas fields and values referred to within the specification each have single quotes.

If the search object includes a *single* double quote, that quote must be doubled; for example, if you wanted to search for text containing:

```
"We must
```

the VB search specification would take this form:

```
SetSearchSpec "Comments", "" ""We must' "
```

so that the initial quote is doubled, and the string containing it is placed within single quotes, and the entire expression, including the single quotes, is placed within double quotes.

If the search specification includes single quotes (including apostrophes), the expression must be placed within single quotes, apostrophes must be doubled, and double quotes must be placed around the entire string. Thus, for example, if you wanted to search for "Phillie's Cheese Steaks" in the Name field, you would have to enter the specification in VB as follows:

```
SetSearchSpec "Name", "' Phi l l i e ' ' s Cheese Steaks' "
```

NOTE: eScript and Browser Script require backslashes instead of double quotes for marking special characters. For example: `SetSearchSpec("Comments", "\"We must\"");` and `SetSearchSpec("Name", "\" Phi l l i e ' ' s Cheese Steaks\"");`

Searching for text in non-text fields. If the search expression queries a field of any type other than text, or if it is an expression other than a field-level query, text must be placed within quotes if it contains any characters other than the following:

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz _ ? \ " ' [
```

As with text field search expressions, quotes must be doubled.

Retrieving all records. To retrieve all records efficiently, use `ClearToQuery` followed by `ExecuteQuery`, without using `SetSearchSpec`.

Searching for a null field. To search for null fields, use the following form:

```
SetSearchSpec "Account", "is NULL"
```

If your search specification requests an empty string, then the search returns every record. For example:

```
SetSearchSpec "Account", ""
```

Any dates used with `SetSearchSpec` must use the format MM/DD/YYYY, regardless of the Regional control panel settings of the server or client computer.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For Siebel VB examples, read ["FirstRecord Method" on page 196](#), ["SetFormattedFieldValue Method" on page 237](#), and ["BusComp_PreQuery Event" on page 266](#). For a Siebel eScript example, read ["ClearToQuery Method" on page 189](#).

Example

This Siebel VB code searches for a contact by name and then navigates to the record displayed in a view:

```

(general)
(declarations)
Option Explicit

Sub Button1_Click
Dim theCurrComp As BusComp
Dim TargetView As String
Dim TargetBusObj As String
Dim TargetBusComp As String
Dim NewBusObj As BusObject
Dim NewComp As BusComp
Dim ReclD1 As String
Dim ReclD2 As String
Dim ReclD3 As String

TargetView = "Visible Contact List View"
TargetBusObj = "Contact"
TargetBusComp = "Contact"
Set theCurrComp = Me.BusComp
ReclD1 = theCurrComp.GetFieldValue("Last Name")
ReclD2 = theCurrComp.GetFieldValue("First Name")
ReclD3 = theCurrComp.GetFieldValue("Account ID")
Set NewBusObj = TheApplication.GetBusObject(TargetBusObj)
Set NewComp = NewBusObj.GetBusComp(TargetBusComp)
NewComp.ClearToQuery
NewComp.SetSearchSpec "Last Name", ReclD1
NewComp.SetSearchSpec "First Name", ReclD2
NewComp.SetSearchSpec "Account ID", ReclD3
NewComp.ExecuteQuery ForwardBackward

TheApplication.GotoView TargetView , NewBusObj

Set NewComp = Nothing
Set NewBusObj = Nothing
Set theCurrComp = Nothing

End Sub

```

The following example is in Siebel eScript:

```

var oAccntB0 = TheApplication().GetBusObject("Account");
var oAccntBC = oAccntB0.GetBusComp("Account");
var oAddrBC;

with (oAccntBC)
{
  SetViewMode(SalesRepView);
  ClearToQuery();
  SetSearchSpec("Name", "Hong Kong Flower Shop");
  ExecuteQuery(ForwardBackward);

  if (FirstRecord())

```

```

oAddrBC = GetMVGBusComp("Street Address");
with (oAddrBC)
{
    NewRecord(NewAfter);
    SetFieldVal ue("Ci ty", "Denver");
    SetFieldVal ue("Street Address", "123 Main Street");
    WriteRecord();
}
}

oAddrBC = null ;
oAcctBC = null ;
oAcctBO = null ;

```

Related Topics

["ExecuteQuery Method" on page 193](#)

["ClearToQuery Method" on page 189](#)

["SetSearchExpr Method" on page 242](#)

["SetSortSpec Method"](#)

SetSortSpec Method

SetSortSpec sets the sort specification for a query.

Syntax

BusComp.SetSortSpec sortSpec

Argument	Description
<i>sortSpec</i>	String containing the sort specification

Returns

Not applicable

Usage

SetSortSpec, if used, must be called after ClearToQuery and before ExecuteQuery. The sortSpec argument is a string of the form:

" fi el dName1, fi el dName2, . . . (ASCENDI NG)"

or

" fi el dName1, fi el dName2, . . . (DESCENDI NG)"

The entire string must be placed in quotes. You can sort on various fields in different orders by separating the field names and order specifications with commas, as in the example.

The argument assigned to `SetSortSpec` is the same used after the equal sign in a predefined query. For example, the first line following is a sort specification in a predefined query; the second is the equivalent sort specification used with the various interface methods. Note that *Name* is the name of a business component field.

```
' Account' . Sort = "Name(ASCENDING)"
BC.SetSortSpec "Name(ASCENDING)"
```

Any dates used with `SetSortSpec` must use the format MM/DD/YYYY, regardless of the Regional control panel settings of the server or client computer.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example sorts the Opportunity list first by Account in reverse order, then in alphabetical order by Site. Note that the column names in the Opportunity list applet are not the same as those in the underlying business component.

NOTE: This example merely demonstrates how to sort in ascending and descending order. In actual practice you should not sort in both directions in a single sort specification, as it degrades performance considerably.

```
Function BusComp_PreQuery As Integer
With Me
    .ActivateField("Account")
    .ActivateField("Account Location")
    .ClearToQuery
    .SetSortSpec "Account(DSCENDING), Account Location(ASCENDING)"
    .ExecuteQuery ForwardBackward
End With
End Function
```

The following is the equivalent example in Siebel eScript:

```
function BusComp_PreQuery {
    with (this)
    {
        ActivateField("Account");
        ActivateField("Account Location");
        ClearToQuery();
        SetSortSpec("Account(DSCENDING), Account Location(ASCENDING)");
        ExecuteQuery(ForwardBackward);
    }
}
```

Related Topics[“GetSortSpec Method” on page 212](#)[“SetSearchExpr Method” on page 242](#)[“SetSearchSpec Method” on page 244](#)

SetUserProperty Method

Sets the value of a named business component user property. The user properties are similar to instance variables of a BusComp.

Syntax

BusComp.SetUserProperty propertyName, newValue

Argument	Description
<i>propertyName</i>	String containing the name of the user property to set
<i>newValue</i>	String containing the property value

Returns

Not applicable

Usage

The advantage of user properties is that they can be accessed from anywhere in the code (including from other applications through COM) using GetUserProperty. An instance variable, on the other hand, can be accessed only from within Siebel VB from the same object on which the variable is declared.

The value of the property is reset every time you instantiate a new business component.

NOTE: SetUserProperty does not interact directly with user properties defined in Siebel Tools.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

The following example is in Siebel VB:

```

Sub BusComp_SetFieldVal ue (Field Name As String)
  Select Case Field Name
    Case "Committed"
      me.SetUserProperty "Flagged", "Y"
  End Select
End Sub

```

The following is the equivalent example in Siebel eScript:

```
function BusComp_SetFieldVal ue (Field Name)
{
    switch (Field Name)
    {
        case "Committed":
            this.SetUserProperty("Flagged", "Y");
        }
    }
}
```

Related Topic

["GetUserProperty Method" on page 213](#)

SetViewMode Method

SetViewMode sets the visibility type for the business component. This is used prior to a query.

Syntax

BusComp.SetViewMode mode

where *mode* is a Siebel ViewMode constant or its corresponding integer value. The constants shown are defined in three environments.

NOTE: It is recommended that you use constants, rather than integer values, because integer values are subject to change.

Siebel ViewMode constants correspond to applet visibility types. For more information about applet visibility types, see *Siebel Security Guide*.

Siebel ViewMode Constant	Integer Value	Comments
SalesRepView	0	Applies single position or sales team access control, and displays records owned by the user's position or records whose sales team contains the user's position, as determined by the business component's Visibility field or Visibility MVField. To use this visibility applet type, the business component must have a view mode with an Owner Type of Position.
ManagerView	1	<p>Displays records that the user and the user's direct reports have access to. Example: My Team's Accounts. Typically used by managers.</p> <p>If the business component on which the view is based uses single position access control, then this constant displays records associated directly with the user's active position and with subordinate positions.</p> <p>If the business component on which the view is based uses sales team access control, then this constant displays records for which the user's active position is the primary position on the team or a subordinate position is the primary member on the team.</p> <p>If a user's position has no subordinate positions, then no data is displayed, not even the user's own data.</p> <p>To use this visibility applet type, the business component must have a view mode with an Owner Type of Position.</p>
PersonalView	2	Displays records the user has direct access to, as determined by the business component's Visibility field. To use this visibility applet type, the business component must have a view mode with an Owner Type of Person. Example: My Accounts. Typically used by individual contributors.
AllView	3	Displays all records for which there is a valid owner. Example: All Accounts Across Organizations.
OrganizationView	5	Applies single-organization or multiple-organization access control, as determined by the business component's Visibility field or Visibility MVField. To use this visibility applet type, the business component must have a view mode with an Owner Type of Organization. Displays records for organizations where a valid owner has been assigned to the record and the user's position is associated with the organization. Example: All Accounts List View.

Siebel ViewMode Constant	Integer Value	Comments
GroupView	7	Displays either a list of the category's first level subcategories (child categories) to which the user has access or displays records in the current category, depending on the applet being used. If the user is at the catalog level, then this displays the first level categories.
CatalogView	8	Displays a flat list of records in categories across every catalog to which the user has access. To use this visibility applet type, the business component must have a view mode with an Owner Type of Catalog Category. Typically used in product pick lists and other lists of products, such as a recommended product list.
SubOrganizationView	9	<p>If the business component on which the view is based uses single organization access control, then this constant displays records associated directly with the user's active organization or with a descendent organization. Descendent organizations are defined by the organization hierarchy. To use this visibility applet type, the business component must have a view mode with an Owner Type of Organization.</p> <p>If the business component on which the view is based uses multiple organization access control, then this constant displays records for which the user's active organization or a descendent organization is the primary organization.</p> <p>Example: All Opportunities Across My Organization. Typically used by executives.</p>

Returns

Not applicable

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

["GetViewMode Method" on page 214](#)

Example

The following example is in Siebel VB. For another example, see ["BusComp_PreDeleteRecord Event" on page 263](#).

```

(general)
(declarations)
Option Explicit
Dim oBO as BusObject
Dim oBC as BusComp

Set oBO = TheApplication.GetBusObject(Me.BusObject.Name)
Set oBC = oBO.GetBusComp(Me.Name)
With oBC
    .SetViewMode SalesRepView
    .ClearToQuery
    .SetSearchSpec "Name", Me.GetFieldValue("Name")
    .SetSearchSpec "Id", "<>" & Me.GetFieldValue("Id")
    .ExecuteQuery ForwardOnly
    If .FirstRecord Then
        TheApplication.Trace"Entry for name " & Me.GetFieldValue("Name") & " exists."
    End If
End With

Set oBC = Nothing
Set oBO = Nothing

```

The following is the equivalent example in Siebel eScript:

```

var oBO = TheApplication().GetBusObject(this.BusObject().Name());
var oBC = oBO.GetBusComp(this.Name);

TheApplication().TraceOn("c:\\trace.txt", "Allocation", "All");
with (oBC)
{
    SetViewMode(SalesRepView);
    ClearToQuery();
    SetSearchSpec("Name", this.GetFieldValue("Name"));
    SetSearchSpec("Id", "<>" + this.GetFieldValue("Id"));
    ExecuteQuery(ForwardOnly);
    if (FirstRecord())
        TheApplication().Trace("Entry for name " + this.GetFieldValue("Name") + "
exists.");
}

TheApplication().TraceOff();
oBC = null;
oBO = null;

```

UndoRecord Method

UndoRecord reverses any uncommitted changes made to the record. This includes reversing uncommitted modifications to fields, as well as deleting an active record that has not yet been committed to the database.

Syntax*BusComp.UndoRecord*

Argument	Description
Not applicable	

Returns

Not applicable

Usage

If you are using `UndoRecord` to delete a new record, it is useful only after `NewRecord` has been called and before the new record has been committed. If you are using `UndoRecord` to reverse changes made to field values, it is useful only before the changes have been committed through a call to `WriteRecord`, or before the user has stepped off the record through the user interface. `UndoRecord` reverses uncommitted changes to a record. Therefore, if you wish to have a fine degree of control over which changes are reversed, place the code in the `PreNewRecord`, `PreSetFieldValue`, or `PreWriteRecord` event, and issue a `CancelOperation` to cancel the change invoked by the particular event.

Used With

COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

["NewRecord Method" on page 225](#)

WriteRecord Method

Commits to the database any changes made to the current record.

Syntax*oBusComp.WriteRecord*

Argument	Description
Not applicable	

Returns

Not applicable

Usage

After creating new records and assigning values to fields, call WriteRecord to commit the new record to the database.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

This Siebel VB example inserts an activity if the Sales Stage field is set to 02. For other examples, see [“GetMVGBusComp Method” on page 207](#) and [“NewRecord Method” on page 225](#).

```
(general)
(declarations)
Option Explicit

Sub BusComp_SetFieldValue (FieldName As String)
    ' Run this code from the Opportunities Activities view.
    ' Opportunity is presumed to be the parent business component.

    Select Case FieldName
        Case "Sales Stage"
            if Me.GetFieldValue(FieldName) LIKE "02*" Then
                ' reference the Action business component
                Dim oBCact as BusComp
                Set oBCact = me.BusObject.GetBusComp("Action")
                With oBCact
                    .NewRecord NewAfter
                    .SetFieldValue "Type", "Event"
                    .SetFieldValue "Description", "THRU SVB, Stage _
                        changed to 02"
                    .SetFieldValue "Done", Format(Now(), _
                        "mm/dd/yyyy hh:mm:ss")
                    .SetFieldValue "Status", "Done"
                    .WriteRecord
                End With
                set oBCact = Nothing
            end if
        End Select
    End Sub
```

Business Component Events

The following topics describe business component events:

- [“BusComp_Associate Event” on page 257](#)
- [“BusComp_ChangeRecord Event” on page 258](#)
- [“BusComp_CopyRecord Event” on page 259](#)

- ["BusComp_DeleteRecord Event" on page 260](#)
- ["BusComp_InvokeMethod Event" on page 261](#)
- ["BusComp_NewRecord Event" on page 261](#)
- ["BusComp_PreAssociate Event" on page 262](#)
- ["BusComp_PreCopyRecord Event" on page 262](#)
- ["BusComp_PreDeleteRecord Event" on page 263](#)
- ["BusComp_PreGetFieldValue Event" on page 264](#)
- ["BusComp_PreInvokeMethod Event" on page 265](#)
- ["BusComp_PreNewRecord Event" on page 266](#)
- ["BusComp_PreQuery Event" on page 266](#)
- ["BusComp_PreSetFieldValue Event" on page 267](#)
- ["BusComp_PreWriteRecord Event" on page 269](#)
- ["BusComp_Query Event" on page 270](#)
- ["BusComp_SetFieldValue Event" on page 272](#)
- ["BusComp_WriteRecord Event" on page 272](#)

BusComp_Associate Event

The Associate event is called after a record is added to a business component to create an association.

Syntax

BusComp_Associate

Argument	Description
Not applicable	

Returns

Not applicable

Usage

The semantics are the same as for BusComp_NewRecord.

Used With

Server Script

Related Topic

[“BusComp_NewRecord Event” on page 261](#)

BusComp_ChangeRecord Event

The ChangeRecord event is called after a record becomes the current row in the business component.

Syntax

BusComp_ChangeRecord

Argument	Description
Not applicable	

Returns

Not applicable

Usage

Code in the ChangeRecord event handler is executed each time that the focus changes to another record. Avoid lengthy operations in this event handler to enable smooth scrolling in list applets.

Used With

Server Script

Example

This Siebel VB example uses two subprograms in the (general) (declarations) section to set up an audit trail for service requests. The ChangeRecord event handler is used to initialize the values from the service record so that they can be compared with current values.

```
(general)
(declarations)
Option Explicit
Dim OldClosedDate, OldCreated, OldOwner, OldOwnerGroup
Dim OldSeverity, OldSource, OldStatus
Declare Sub CreateAuditRecord
Declare Sub InitializeOldValues

Sub CreateAuditRecord (FieldName As String, NewValue As String, OldValue As String,
ChangedText As String)

    Dim ActionBC As BusComp
    Dim CurrentBO As BusObject
    Dim theSRNumber
```

```

Set CurrentBO = TheApplication.GetBusObject("Service Request")
Set ActionBC = CurrentBO.GetBusComp("Action")
theSRNumber = GetFieldValue("SR Number")

With ActionBC
    .ActivateField "Activity SR Id"
    .ActivateField "Description"
    .ActivateField "Private"
    .ActivateField "Service request id"
    .ActivateField "Type"
    .NewRecord NewAfter

    .SetFieldValue "Activity SR Id", theSRNumber
    .SetFieldValue "Description", ChangedText
    .SetFieldValue "Private", "Y"
    .SetFieldValue "Type", "Administration"
    .WriteRecord
End With
End Sub

Sub InitializeOIdValues
    OIdClosedDate = GetFieldValue("Closed Date")
    OIdOwner = GetFieldValue("Owner")
    OIdSeverity = GetFieldValue("Severity")
    If GetFieldValue("Severity") <> OIdSeverity Then
        NewValue = GetFieldValue("Severity")
        ChangedText = "Changed Priority from " + OIdSeverity + _
            " to " + NewValue
        CreateAuditRecord "Severity", NewValue, OIdSeverity, _
            ChangedText
    End If
End Sub

Sub BusComp_ChangeRecord
    InitializeOIdValues
End Sub

```

BusComp_CopyRecord Event

The CopyRecord event is called after a row has been copied in the business component and that row has been made active.

Syntax

BusComp_CopyRecord

Argument	Description
Not applicable	

Returns

Not applicable

Usage

BusComp_CopyRecord is called instead of BusComp_NewRecord when a new record is created:

- Through *BusComp*.NewRecord NewAfterCopy|NewBeforeCopy
- Through any UI copy record mechanism (Edit > Copy Record; CTRL+B)

Used With

Server Script

BusComp_DeleteRecord Event

The DeleteRecord event is called after a row is deleted. The current context is a different row (the Fields of the just-deleted row are no longer available).

Syntax

BusComp_DeleteRecord

Argument	Description
Not applicable	

Usage

When a user reads and deletes an existing record or creates and undoes a new record, this invokes DeleteRecord. This invocation causes any associated scripts to be executed.

NOTE: The BusComp_PreDeleteRecord and BusComp_DeleteRecord events do not fire for child records that are deleted due to the Cascade Delete property on a link. Such deletes happen directly from the data layer for performance reasons, while script events are triggered from the object layer and are therefore not executed.

Returns

Not applicable

Used With

Server Script

BusComp_InvokeMethod Event

The InvokeMethod event is called when the InvokeMethod method is called on a business component.

Syntax

BusComp_InvokeMethod(*methodName*)

Argument	Description
<i>methodName</i>	String containing the name of the method that was invoked

Returns

Not applicable

Usage

The InvokeMethod event is called when a specialized method is called on a business component, or when the InvokeMethod method has been explicitly called on a business component.

Used With

Server Script

BusComp_NewRecord Event

The NewRecord event is called after a new row has been created in the business component and that row has been made active. The event may be used to set up default values for Fields.

Syntax

BusComp_NewRecord

Argument	Description
Not applicable	

Returns

Not applicable

Usage

BusComp_NewRecord is called when a new record is created unless the new record was created:

- Through *BusComp.NewRecord* NewAfterCopy|NewBeforeCopy
- Through any UI copy record mechanism (Edit > Copy Record; CTRL+B)

In these cases, BusComp_CopyRecord is called instead of BusComp_NewRecord.

Used With

Server Script

Example

For an example, read [“Pick Method” on page 229](#).

BusComp_PreAssociate Event

The PreAssociate event is called before a record is added to a business component to create an association. The semantics are the same as for BusComp_PreNewRecord.

Syntax

BusComp_PreAssociate

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

BusComp_PreCopyRecord Event

The PreCopyRecord event is called before a new row is copied in the business component. The event may be used to perform pre-copy validation.

Syntax

BusComp_PreNewRecord

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

BusComp_PreDeleteRecord Event

The PreDeleteRecord event is called before a row is deleted in the business component. The event may be used to prevent the deletion or to perform any actions in which you need access to the record that is to be deleted.

Syntax

BusComp_PreDeleteRecord

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

This event is called after the user has confirmed the deletion of the record, but before the record is deleted from the database.

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

NOTE: The BusComp_PreDeleteRecord and BusComp_DeleteRecord events do not fire for child records that are deleted due to the Cascade Delete property on a link. Such deletes happen directly from the data layer, mainly for performance reasons, while script events are triggered from the object layer and are therefore not executed.

Used With

Server Script

Example

This Siebel VB example prevents the deletion of an account that has associated opportunities:

```
(general)
(declarations)
Option Explicit

Function BusComp_PreDeleteRecord As Integer
    Dim oBC as BusComp
    Dim oBO as BusObject
    Dim sAcctRowId as string

    sAcctRowId = me.GetFieldValue("Id")
    set oBO = TheApplication.GetBusObject("Opportunity")
    set oBC = oBO.GetBusComp("Opportunity")

    With oBC
        .SetViewMode AllView
        .ClearToQuery
        .SetSearchSpec "Account Id", sAcctRowId
        .ExecuteQuery ForwardOnly
        If (.FirstRecord = 1) Then
            RaiseErrorText("Opportunities exist for the Account - _
                Delete is not allowed")
        End If
    End With

    BusComp_PreDeleteRecord = ContinueOperation

    Set oBC = Nothing
    Set oBO = Nothing

End Function
```

BusComp_PreGetFieldValue Event

The PreGetFieldValue event is called when the value of a business component field is accessed.

Syntax

BusComp_PreGetFieldValue(*FieldName*, *FieldValue*)

Argument	Description
<i>FieldName</i>	String containing the name of the field accessed
<i>FieldValue</i>	String containing the value accessed

Returns

ContinueOperation or CancelOperation

Usage

PreGetFieldValue is called at least once for each user interface element that displays the BusComp field value, and it may also be called as a result of other internal uses.

NOTE: PreGetFieldValue is called every time the user interface is updated to repaint fields on the screen. Therefore, a script attached to this event runs very frequently, which may cause the computer to appear to be unresponsive.

Even empty scripts are invoked by the framework and thus cause a performance impact. To remove an existing script from BusComp_PreInvokeMethod to improve performance, you must open the script in Siebel Tools and delete its entire contents, including the Function and End Function (Siebel VB) or function () { and } (Siebel eScript) statements.

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

BusComp_PreInvokeMethod Event

The PreInvokeMethod event is called before a specialized method is invoked on the business component.

Syntax

BusComp_PreInvokeMethod(*methodName*)

Argument	Description
<i>methodName</i>	String containing the name of the method invoked

Returns

ContinueOperation or CancelOperation

Usage

The PreInvokeMethod event is called just before a specialized method is invoked on the business component. Specialized methods are methods based on applet or business component classes other than CSSFrame and CSSBusComp, respectively, that is, specialized classes.

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

BusComp_PreNewRecord Event

The PreNewRecord event is called before a new row is created in the business component. The event may be used to perform preinsert validation.

Syntax

BusComp_PreNewRecord

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

BusComp_PreQuery Event

The PreQuery event is called before query execution.

Syntax

BusComp_PreQuery

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

This event may be used to modify the search criteria or to restrict the execution of certain queries.

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

Used With

Server Script

Example

The following example is in Siebel VB:

```

Function BusComp_PreQuery() As Integer
    Dim strPosition As String
    Dim strSearchSpec As String
    Dim intReturn As Integer
    intReturn = ContinueOperation
    strPosition = TheApplication.PositionName
    strSearchSpec = Me.GetSearchSpec("Owned By")
    If strPosition <> "System Administrator" Then
        If Len(strSearchSpec) = 0 or InStr(strSearchSpec,
            strPosition) = 0 Then
            Me.SetSearchSpec "Owned By", strPosition
        End If
    End If
    BusComp_PreQuery = intReturn
End Function

```

BusComp_PreSetFieldValue Event

The PreSetFieldValue event is called after a value is changed in the user interface (when the user attempts to leave the field) or through a call to SetFieldValue, but before any field-level validation is performed. This event is intended to allow the developer to introduce complex validation before any repository validation is applied.

Syntax

BusComp_PreSetFieldValue(*FieldName*, *FieldValue*)

Argument	Description
<i>FieldName</i>	String containing the name of the changed field
<i>FieldValue</i>	String containing the changed value

Returns

ContinueOperation or CancelOperation

Usage

The PreSetFieldValue event is called each time a field is to be changed or populated for a given business component.

When using a picklist to populate multiple fields, PreSetFieldValue is fired for each field that is populated. For example, you have an applet that you use to populate Last Name, First Name, and Contact ID. Therefore, PreSetFieldValue fires three times, once for each field.

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation. In the preceding example, if your script returns CancelOperation for a field, that field is not populated. However, PreSetFieldValue still fires for the other two fields populated by the picklist.

NOTE: To prevent infinite recursions, if the PreSetFieldValue event is running it does not run again for the same business component instance, even if used on a different field in the business component.

Used With

Browser Script, Server Script

Example

This Siebel VB example uses the PreSetFieldValue event to check if a quote discount is greater than 20 percent, and to take appropriate action if it is. For other examples of BusComp_PreSetFieldValue, read [“LoginId Method” on page 150](#), and [“ExecuteQuery Method” on page 193](#).

```
Function BusComp_PreSetFieldValue (FieldName As String,
                                   FieldValue As String) As Integer
    'Routine to check if a quote discount>20%
    'if it is, notify user and cancel operation
    Dim value as Integer
    Dim msgtext as String
    If FieldName = "Discount" then
        value = Val (FieldValue)
        If value > 20 then
            msgtext = "Discounts greater than 20% must be approved"
            RaiseError msgtext
        End If
    End If
End Function
```

```

        BusComp_PreSetFieldValue = CancelOperation
    Else
        BusComp_PreSetFieldValue = ContinueOperation
    End If
End If
End Function

```

The following is the equivalent example in Siebel eScript:

```

function BusComp_PreSetFieldValue (FieldName, FieldValue)
{
    var msgtext = "Discounts greater than 20% must be approved";
    if (FieldName == "Discount")
    {
        if (FieldValue > 20)
        {
            TheApplication().RaiseErrorText(msgtext);
        }
        else
        {
            return (ContinueOperation);
        }
    }
    else
    {
        return (ContinueOperation);
    }
}
}

```

BusComp_PreWriteRecord Event

The PreWriteRecord event is called before a row is written to the database. The event can perform any final validation necessary before any internal record-level validation is performed.

Syntax

BusComp_PreWriteRecord

Argument	Description
Not applicable	

Returns

ContinueOperation or CancelOperation

Usage

CancelOperation stops the execution of the underlying Siebel code associated with the event. However, if there is code in the same script following CancelOperation, that code runs regardless of the CancelOperation.

The PreWriteRecord event triggers only if a field value was modified or inserted, or when a record is deleted. When a record is deleted, PreWriteRecord is called to delete the implied join records to the initial record.

When associating a multivalue group record (based on an M:M relationship) with the business component that invokes the association, the PreWriteRecord and WriteRecord events execute. These events execute even if no fields on the base or invoking business component are updated by the association. The PreWriteRecord and WriteRecord events are executed to acknowledge the update to the intersection table.

CAUTION: Be careful when using the Raise Error and RaiseErrorText methods in BusComp_PreWriteRecord, because they cancel operations. For example, if RaiseErrorText is used in BusComp_PreWriteRecord, the user or code will not be able to step off the current record until the condition causing the RaiseErrorText method to be invoked is addressed.

Used With

Server Script

Example

```
Function BusComp_PreWriteRecord As Integer
    ' This code resets the probability before the write
    ' if necessary

    if Me.GetFieldValue("Sales Stage") LIKE "07*" then
        ' Resets the Probability to 75 if less than 75
        if Val(Me.GetFieldValue("Rep %")) < 75 then
            Me.SetFieldValue "Rep %", "75"
        end If
    end if

    BusComp_PreWriteRecord = ContinueOperation
End Function
```

BusComp_Query Event

The Query event is called just after the query is complete and the rows have been retrieved, but before the rows are actually displayed.

Syntax

BusComp_Query

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Server Script

Example

In this Siebel VB example, important information is defined using the Action business component with a special activity type. If the user starts an account query, the code checks whether important information is available. If so, the information is displayed in a message box.

```

Sub BusComp_Query

    Dim oBusObj As BusObject, oCurrFi nAct As BusComp,
    Dim oActi vi ti es as BusComp, oAppl as Applet
    Dim sName as String, sDescripti on as String

    On error goto Leave

    set oBusObj = TheAppl i cati on. Acti veBusObj ect
    Set oCurrFi nAct = TheAppl i cati on. Acti veBusComp

    If oCurrFi nAct.Fir stRecord <> 0 then
        sName = oCurrFi nAct. GetFi el dVal ue("Name")
        Set oActi vi ti es = oBusObj . GetBusComp("Fi nance _
            Important Info Acti vi ty")
        Wi th oActi vi ti es
            . Acti vateFi el d("Descri pti on")
            . Cl earToQuery
            . SetSearchSpec "Account Name", sName
            . SetSearchSpec "Type", "Important Info"
            . ExecuteQuery ForwardOnly
            If . Fir stRecord <> 0 then
                sDescri pti on = . GetFi el dVal ue("Descri pti on")
                TheAppl i cati on. Trace("Important Informati on: " + sDescri pti on)
                do while . NextRecord <> 0
                    sDescri pti on = . GetFi el dVal ue("Descri pti on")
                    TheAppl i cati on. Trace("Important Informati on: " + sDescri pti on)
                Loop
            End If
        End Wi th
    End If

    Leave:

    Set oCurrFi nAct = Nothi ng
    set oBusObj = Nothi ng

End Sub

```

BusComp_SetFieldValue Event

The SetFieldValue event is called when a value is pushed down into the business component from the user interface or through a call to SetFieldValue. This event is not triggered for any predefaulted or calculated fields in Siebel Tools.

Syntax

BusComp_SetFieldValue(*FieldName*)

Argument	Description
<i>FieldName</i>	String containing the name of the affected field

Returns

Not applicable

Used With

Server Script

Example

This Siebel VB example shows how to invoke methods on an existing business component when the SetFieldValue event is triggered:

```
Sub BusComp_SetFieldV alue (FieldN ame As String)
  Dim desc As String
  Dim newDesc As String
  If FieldN ame = "Type" Then
    newDesc = [can be any valid string containing the new description]
    desc = GetFieldV alue("Descripti on")
    SetFieldV alue "Descripti on", newDesc
  End If
End Sub
```

The following is the equivalent example in Siebel eScript:

```
function BusComp_SetFieldV alue (FieldN ame)
{
  if (FieldN ame == "Type" && GetFieldV alue(FieldN ame) == "Account")
  {
    SetFieldV alue("Descripti on", "Record is of Type 'Account' .");
  }
}
```

BusComp_WriteRecord Event

The WriteRecord event is called after a row is written out to the database.

The WriteRecord event triggers after the record has been committed to the database. Do not use SetFieldValue in a WriteRecord event. If you need to use SetFieldValue, put it in a PreWriteRecord event (explained in [“BusComp_PreWriteRecord Event” on page 269](#)).

Syntax

BusComp_WriteRecord

Argument	Description
Not applicable	

Returns

Not applicable

Usage

When associating a multi-value group record (based on an M:M relationship) with the business component that invokes the association, the PreWriteRecord and WriteRecord events execute. These events execute even if no fields on the base or invoking business component are updated by the association. The PreWriteRecord and WriteRecord events are executed to acknowledge the update to the intersection table.

CAUTION: Be careful when using the Raise Error and RaiseErrorText methods in BusComp_WriteRecord, because they cancel operations. For example, if RaiseErrorText is used in BusComp_WriteRecord, the user or code will not be able to step off the current record until the condition causing the RaiseErrorText method to be invoked is addressed.

Used With

Server Script

Business Object Methods

In the method descriptions, the term *oBusObj* indicates a variable containing a BusObject:

- [“GetBusObject Method” on page 131](#)
- [“GetLastErrCode Method” on page 275](#)
- [“GetLastErrText Method” on page 275](#)
- [“Name Method” on page 276](#)
- [“Release Method” on page 276](#)

GetBusComp Method

The GetBusComp method returns the specified business component.

Syntax

oBusObj.GetBusComp (*BusCompName*)

Argument	Description
<i>BusCompName</i>	String containing the desired business component in the business object

Returns

The requested business component

Usage

BusCompName is case-sensitive, and must match in case the form of the name as it appears in Siebel Tools. If an instance of *BusCompName* already exists, that instance is returned. The interpreter instantiates and returns a new instance of a business component using *BusCompName* if one does not already exist.

If you already have a BusComp but you want to create a new one (without getting any existing ones), use GetBusObject() first. This creates a new BusComp() that is not the same as the one already existing (for example in an applet). Then use the new business object to do a GetBusComp() to create new business components. If you use the business object that already exists you pick up any child business components that already exist, even if you use GetBusComp() to get them.

Use the Nothing (Siebel VB) or null (eScript or Browser Script) keyword to destroy the instantiated business component when it is no longer necessary.

NOTE: In Browser Script, the GetBusComp() method can only access business components in the current view; in Server Script, the GetBusComp() method can access every business component that has been instantiated in the active business object.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Server Script

Examples

The following examples are in Siebel eScript:

- To access a business component in the UI context:

```
var ActiveBO = TheApplication().ActiveBusObject();
var ConBC = ActiveBO.GetBusComp("Contact");
```

- To access a business component in the non-UI context:

```
var BO = TheApplication().GetBusObject("Account");
var ConBC = BO.GetBusComp("Contact");
```

GetLastErrCode Method

The GetLastErrCode method returns the last error code.

Syntax

oBusObj.GetLastErrCode

Argument	Description
Not applicable	

Returns

The last error code as a short integer; 0 indicates no error.

Usage

After execution of a method, the GetLastErrCode can be invoked to check if any error was returned from the previous operation. The GetLastErrText method can be invoked to retrieve the text of the error message.

Used With

COM Data Control, Mobile Web Client Automation Server

Related Topic

[“GetLastErrText Method” on page 275](#)

GetLastErrText Method

The GetLastErrText method returns the last error text.

Syntax

oBusObj.GetLastErrText

Argument	Description
Not applicable	

Returns

A string containing the last error text message.

Usage

After execution of a method, the `GetLastErrCode` can be invoked to check if any error was returned from the previous operation. The `GetLastErrText` method can be invoked to retrieve the text of the error message.

Used With

COM Data Control, Mobile Web Client Automation Server

Related Topic

[“GetLastErrCode Method” on page 275](#)

Name Method

The Name method returns the name of the business object.

Syntax

oBusObj.Name

Argument	Description
Not applicable	

Returns

A string containing the business object name

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For an example, read [“Name Method” on page 225](#).

Release Method

The `Release()` method enables the release of the Business Object and its resources on the Siebel Server.

Syntax*oBusObj.release()*

Argument	Description
Not applicable	

Returns

Not applicable

Used With

Java Data Bean

Example

The following example is for Java Data Bean:

```

import com.siebel.data.*;

{
...

// create Siebel Data Bean
SiebelDataBean sieb_dataBean = null;
sieb_dataBean = new SiebelDataBean();

// login into Siebel Data Bean

...

// Create Siebel Bus Object.
// get the Bus Object from SiebelDataBean
SiebelBusObject busObj = null;
busObj = sieb_dataBean.getBusObject("Account");

...

// Use the business Object
// Release the business object resources

...

busObj.release();
}

```

Business Service Methods

In the method descriptions, the placeholder *oService* represents a business service instance:

- [“GetFirstProperty Method”](#)
- [“GetNextProperty Method” on page 280](#)
- [“GetProperty Method” on page 281](#)
- [“InvokeMethod Method” on page 282](#)
- [“Name Method” on page 283](#)
- [“PropertyExists Method” on page 284](#)
- [“Release Method” on page 284](#)
- [“RemoveProperty Method” on page 286](#)
- [“SetProperty Method” on page 287](#)

GetFirstProperty Method

This method retrieves the name of the first property of a business service.

Syntax

```
oService.GetFirstProperty()
```

Argument	Description
Not applicable	

Returns

A string containing the name of the first property of the business service

Usage

This method retrieves the name of the first property, in order of definition, of a business service. Use `GetFirstProperty` and `GetNextProperty` to retrieve the name of a property. You can then use the retrieved name as an argument to `GetProperty` to retrieve the property value, or with `SetProperty` to assign property values.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

This function returns the number of Property Sets that belong to the Business Service given in the parameter.

The following example is in Siebel eScript:

```
function countPropSets(busService)
{
    var propSetName = busService.GetFirstProperty();
    var count = 0;

    while(propSetName != "")
    {
        count++;
        propSetName = busService.GetNextProperty();
    }

    return count;
}
```

The following example is in Java:

```
public int countPropSets(SiebelService busService)
{
    int count = 0;
    try
    {
        String propSetName = busService.getFirstProperty();
        while(propSetName != "")
        {
            count++;
            propSetName = busService.getNextProperty();
        }
    }

    catch(SiebelExceptionsExcept)
    {
        return 0;
    }

    return count;
}
```

Related Topics

[“GetNextProperty Method” on page 280](#)

[“GetProperty Method” on page 281](#)

[“SetProperty Method” on page 287](#)

GetNextProperty Method

When the name of the first property has been retrieved, this method retrieves the name of the next property of a business service.

Syntax

```
oService.GetNextProperty()
```

Argument	Description
Not applicable	

Returns

A string containing the name of the next property of a business service, or an empty string ("") if no more properties exist.

Usage

After retrieving the name of the first property with `GetFirstProperty`, the `GetNextProperty` method should be used in a loop, to be terminated when an empty string ("") is returned. When property names have been retrieved, they can be used as arguments to `GetProperty` to retrieve the property value, or with `SetProperty` to assign property values.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Examples

This function returns the number of Property Sets that belong to the Business Service given in parameter.

The following example is in Siebel eScript:

```
function countPropSets(busService)
{
    var propSetName = busService.GetFirstProperty();
    var count = 0;

    while (propSetName != "")
    {
        count++;
        propSetName = busService.GetNextProperty();
    }

    return count;
}
```

The following example is in Java:

```

public int countPropSets(Siebel Service busService)
{
    int count = 0;
    try
    {
        String propSetName = busService.getFirstProperty();
        while(propSetName != "")
        {
            count++;
            propSetName = busService.getNextProperty();
        }
    }
    catch(Siebel ExceptionsExcept)
    {
        return 0;
    }
    return count;
}

```

Related Topics[“GetFirstProperty Method” on page 308](#)[“GetProperty Method”](#)[“SetProperty Method” on page 287](#)

GetProperty Method

The GetProperty method returns the value of the property whose name is specified in its argument.

Syntax

oService.GetProperty(propName)

Argument	Description
<i>propName</i>	The name of the property whose value is to be returned

Returns

A string containing the value of the property indicated by propName or NULL if the property does not exist.

Usage

You must know the name of a property to retrieve its value. To retrieve property names, use the GetFirstProperty and GetNextProperty methods.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topics

[“GetFirstProperty Method” on page 308](#)

[“GetNextProperty Method” on page 280](#)

[“SetProperty Method” on page 287](#)

InvokeMethod Method

The InvokeMethod method calls a method on the business service. This can be a documented specialized method or a user-created method.

eScript Syntax

oService.InvokeMethod(methodName, InputArguments, OutputArguments)

Siebel VB Syntax

oService.InvokeMethod methodName, InputArguments, OutputArguments

Argument	Description
<i>methodName</i>	A string representing the name of the method to execute
<i>InputArguments</i>	A property set containing the arguments required by the method
<i>OutputArguments</i>	A property set containing the arguments to be returned by the method (passed by reference)

Browser Script Syntax

outputPropSet=Service.InvokeMethod(MethodName, inputPropSet)

Argument	Description
<i>methodName</i>	The name of the method
<i>inputPropSet</i>	A property set containing the method arguments
<i>outputPropSet</i>	A property set containing the output arguments of the Property Set

Returns

Not applicable

Usage

Built-in business services work the same way as business component invoke methods. That is, you can call specialized methods on the service that are not exposed directly through the object interface.

Run-time business services can hold user-defined methods, which must be implemented in scripts written in Siebel VB or Siebel eScript. The scripts must be written in these languages within Siebel Tools; however, they can be called through external interfaces.

Although the `InvokeMethod` function does not return a value, the properties in the *OutputArguments* property set may have been modified.

NOTE: The `InvokeMethod` method should be used only with documented specialized methods. Oracle does not support calling specialized methods with `InvokeMethod`, unless they are listed in this book.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topics

[“Service_InvokeMethod Event” on page 287](#)

[“Service_PreInvokeMethod Event” on page 290](#)

Name Method

The Name property contains the name of the service.

Syntax

`oService.Name`

Argument	Description
Not applicable	

Returns

A string containing the service name

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

The following example is in Browser Script:

```
var svc = theApplication().GetService("Data Quality Manager");
theApplication().SWEAlert("The active service is " + svc.Name());
```

PropertyExists Method

This method returns a Boolean value indicating whether a specified property exists.

Syntax

```
oService.PropertyExists(propName)
```

Argument	Description
<i>propName</i>	A string representing the name of a property of the specified service

Returns

In Siebel VB, an integer (0 for false, 1 for true); in other interfaces, a Boolean

Usage

Because GetProperty returns an empty string ("") for nonexistent properties, you should use PropertyExists() in an if statement to determine whether a specific property has been set.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Release Method

The Release method() enables the release of the Business Service and its resources on the Siebel Server.

Syntax

```
oBusSvc.release()
```

Argument	Description
not applicable	

Returns

Not applicable

Used With

Java Data Bean

Example

The following example logs in to a Siebel Server. It then instantiates a business object, a business component, and a business service. Then, it releases them in reverse order.

```
import com.siebel.data.*;
import com.siebel.data.SiebelException;

public class JDBReleaseDemo
{
    private SiebelDataBean m_dataBean = null;
    private SiebelBusObject m_busObject = null;
    private SiebelBusComp m_busComp = null;
    private SiebelService m_busServ = null;

    public static void main(String[] args)
    {
        JDBReleaseDemo demo = new JDBReleaseDemo();
    }

    public JDBReleaseDemo()
    {
        try
        {
            // instantiate the Siebel Data Bean
            m_dataBean = new SiebelDataBean();

            // login to the servers
            m_dataBean.login("siebel.tcpip.none.none://<gateway>:<port>/<enterprise>/
            <object manager>","<user id>","<password>");
            System.out.println("Logged in to the Siebel server ");

            // get the business object
            m_busObject = m_dataBean.getBusObject("Account");

            // get the business component
            m_busComp = m_busObject.getBusComp("Account");

            // get the business service
            m_busServ = m_dataBean.getService("Workflow Process Manager");

            //release the business service
            m_busServ.release();
            System.out.println("BS released ");

            //release the business component
            m_busComp.release();

            System.out.println("BC released ");
        }
    }
}
```

```

        //release the business object
        m_busObject.release();
        System.out.println("BO released ");

        // Logoff
        m_dataBean.logoff();
        System.out.println("Logged off the Siebel server ");
    }

    catch (SiebelException e)
    {
        System.out.println(e.getMessage());
    }
}
}

```

RemoveProperty Method

This method removes a property from a business service.

Syntax

oService.RemoveProperty(propName)

Argument	Description
<i>propName</i>	A string indicating the name of the property to be removed

Returns

Not applicable

Usage

This method removes the property *propName* from the business service *oService*. As a result, subsequent calls to *PropertyExists* for that property returns FALSE.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Related Topic

["PropertyExists Method" on page 284](#)

SetProperty Method

This method assigns a value to a property of a business service.

Syntax

```
oService.SetProperty(propName, propValue)
```

Argument	Description
<i>propName</i>	A string indicating the name of the property whose value is to be set
<i>propValue</i>	A string containing the value to assign to the property indicated by <i>propName</i>

Returns

Not applicable

Usage

SetProperty is used to set the value of a property of the business service from one of the methods of the service or from an external object.

Used With

Browser Script, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script

Example

For an example, read [“Service_PreInvokeMethod Event” on page 290](#).

Related Topic

[“GetProperty Method” on page 281](#)

Business Service Events

The following topics describe business service events:

- [“Service_InvokeMethod Event”](#)
- [“Service_PreCanInvokeMethod Event” on page 289](#)
- [“Service_PreInvokeMethod Event” on page 290](#)

Service_InvokeMethod Event

The InvokeMethod event is called after the InvokeMethod method is called on a business service.

Server Script Syntax

`Service_InvokeMethod(MethodName, InputArguments, OutputArguments)`

Argument	Description
MethodName	A string representing the name of the method to execute
InputArguments	A property set containing the arguments required by the method
OutputArguments	A property set containing the arguments to be returned by the method

Browser Script Syntax

`OutputArguments=oService.InvokeMethod(methodName, InputArguments)`

Argument	Description
methodName	A string representing the name of the method to execute
InputArguments	A property set containing the arguments required by the method
OutputArguments	A property set containing the arguments to be returned by the method. NOTE: In Browser Script, output property sets are not supported for this event.

Returns

Not applicable

Usage

Although this event does not return a value, in Server Script it can add properties to, or alter the values of the properties in, the property set *OutputArguments*. In Browser Script it cannot add to, store, or update the values of the properties in the output property set.

When you invoke business service methods through Browser Script, the business service can be implemented as a browser-based business service (written in JavaScript) or a server-based business service. Initially, the high interactivity mode framework checks if the business service resides in the browser, and if it does not find it, it sends the request to the server for execution.

NOTE: Browser Script can invoke a browser-based or server-based business service, but Server Script can only invoke a server-based business service.

NOTE: Although the *InvokeMethod* function does not return a value in Server Script, it can modify the properties in the *OutputArguments* property set.

Used With

Browser Script, Server Script

Example

This eScript example adds custom logic to a standard business service, Credit Card Transaction Service, for handling transactions that are not approved.

```
function Service_InvokeMethod (MethodName, Inputs, Outputs)
  if (Outputs.GetProperty("Siebel ResponseMessage") != "Approved")
  {
    // special handling for failed txns here
  }
}
```

Related Topic

[“Service_PreInvokeMethod Event” on page 290](#)

Service_PreCanInvokeMethod Event

The PreCanInvokeMethod event is called before the PreInvokeMethod, allowing the developer to determine whether or not the user has the authority to invoke the business service method.

Server Script Syntax

Service_PreCanInvokeMethod(*MethodName*, &*CanInvoke*)

Argument	Description
MethodName	A string representing the name of the method to be executed
&CanInvoke	A string representing whether or not the business service method can be invoked. Valid values are TRUE and FALSE.

Browser Script Syntax

Service_PreCanInvokeMethod(*MethodName*)

Argument	Description
MethodName	A string representing the name of the method to be executed

Returns

CancelOperation or ContinueOperation

Used With

Browser Script, Server Script

Service_PreInvokeMethod Event

The PreInvokeMethod event is called before a specialized method on the business service is invoked.

Server Script Syntax

Service_PreInvokeMethod(*MethodName*, *InputArguments*, *OutputArguments*)

Argument	Description
MethodName	A string representing the name of the method to execute
InputArguments	A property set containing the arguments required by the method
OutputArguments	A property set containing the arguments to be returned by the method

Browser Script Syntax

Service_PreInvokeMethod(*name*, *inputPropSet*)

Argument	Description
name	A string representing the name of the method to execute
inputPropSet	A property set containing the arguments required by the method

NOTE: In Browser Script, output property sets are not supported for this event.

Returns

“ContinueOperation” or “CancelOperation”

Usage

The Server Script version of this event is used for the following:

- Performing business logic
- Setting any outputs in the output property set
- Returning CancelOperation (assuming a custom business service)

The Browser Script version is used for the following:

- User interaction, such as asking for input data
- Setting input properties
- Canceling user operations, for example “Are you sure you want to do this?”

NOTE: The Browser Script version is not intended to perform business logic, and does not return an output property set.

Figure 7 illustrates the differences in how standard and custom business service methods are handled.

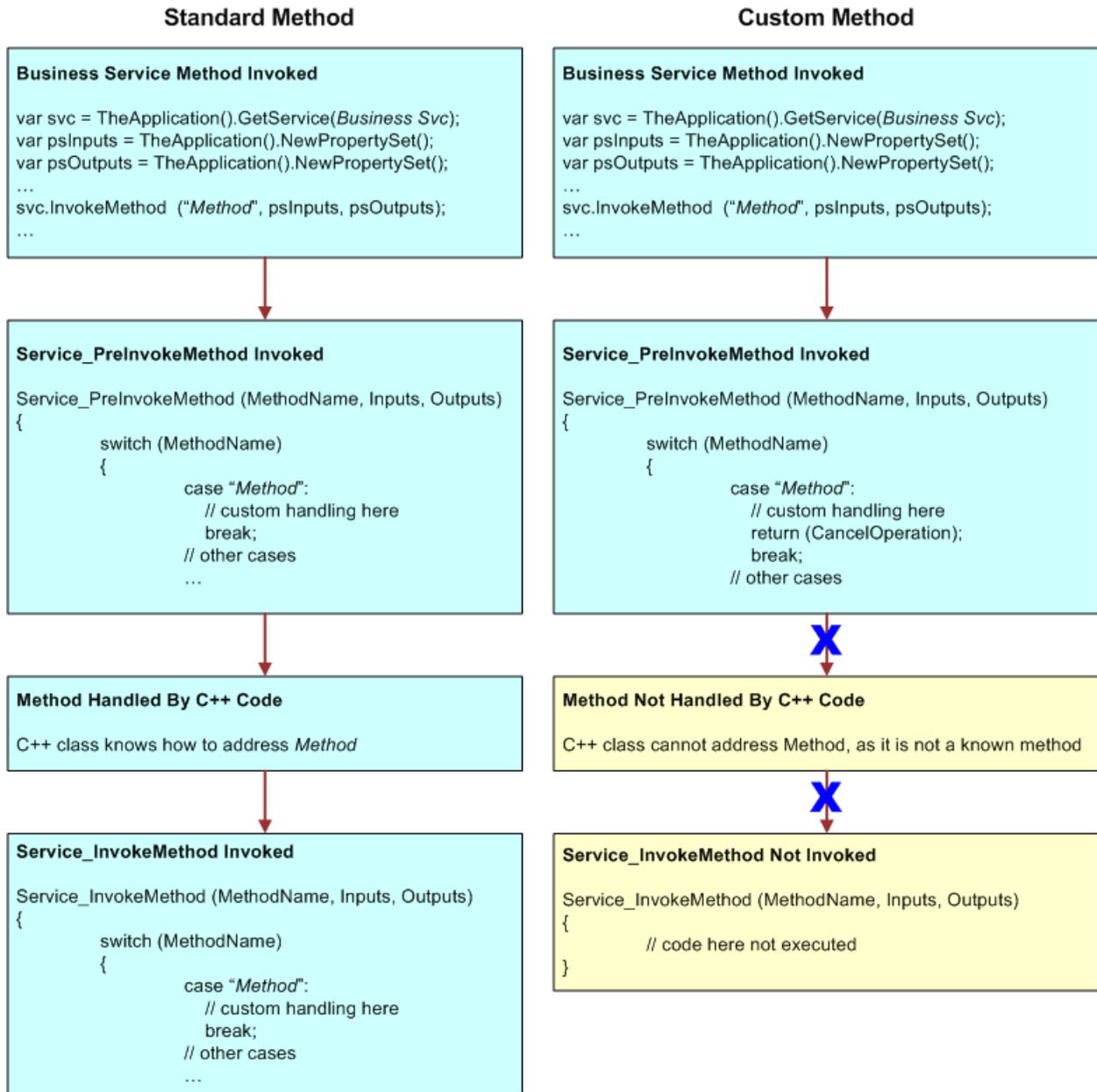


Figure 7. Differences in Handling Standard and Custom Business Service Methods

With a standard method, the script can intercept *Method* in the *Service_PreInvokeMethod* event and take any necessary custom actions before the C++ code is executed. The C++ code then executes, setting values in the outputs as defined by the service code.

If the C++ code executes successfully, the `Service_InvokeMethod` event can be used to inspect the outputs, modify them if necessary, or perform other tasks dependent on the successful completion of the C++ code. At that point, the calling function regains control of the script execution.

With a custom method, the script can intercept *Method* in the `Service_PreInvokeMethod` event and take any necessary custom actions.

The script must return `CancelOperation`. `CancelOperation` tells the Siebel application to cancel the remaining operations associated with the event. If not canceled, the code flow would continue to the C++ code, which does not have the ability to handle the custom method, and would therefore throw an "Unknown method name" error (indicated by X in [Figure 7 on page 291](#)).

Because the method invocation is canceled, the `Service_InvokeMethod` event is not executed (indicated by X in [Figure 7 on page 291](#)).

Used With

Browser Script, Server Script

Example

This Siebel VB example sets properties in a new Shipping Engine business service:

```
Function Service_PreInvokeMethod (MethodName As String, Inputs As PropertySet,
Outputs As PropertySet) As Integer
```

```
    If MethodName = "CalculateShipping" Then
```

```
        Dim sShipper As String, sShipMethod As String
        Dim dWeight As Double, dSize As Double, dCost As Double
        Dim sZone As String, DelDate As Variant
        Dim sCost As String, iReturn As Integer
```

```
        iReturn = ContinueOperation
        sShipper = Inputs.GetProperty("Shipping Company")
        sShipMethod = Inputs.GetProperty("Ship Method")
        dWeight = Val (Inputs.GetProperty("Weight"))
        dSize = Val (Inputs.GetProperty("Volume"))
        iZone = Val (Inputs.GetProperty("Zone"))
        DelDate = DateValue(Now)
```

```
        Select Case sShipper
            Case "Global Ex"
                Select Case sShipMethod
                    Case "Next-Day Air"
                        dCost = 14 + dWeight
                        DelDate = DelDate + 1
                    Case "Second-Day Air"
                        dCost = 11 + (dWeight * .54)
                        DelDate = DelDate + 2
                End Select
```

```
            Case "Airline"
                Select Case sShipMethod
                    Case "Next-Day Air"
```

```

        dCost = 5 + (dWeight * .3) + (dSize * .33) + _
            (Val (sZone) * .5)
        Del Date = Del Date + 1
    Case "Second-Day Air"
        dCost = 4 + (dWeight * .3) + (dSize * .2) + _
            (Val (sZone) * .3)
        Del Date = Del Date + 2

    Case "Ground"
        dCost = 3 + (dWeight * .18) + (dSize * .1) + _
            (Val (sZone) * .1)
        Del Date = Del Date + 2 + Int(Val (sZone) * .8)
    End Select
End Select

sCost = Format(dCost, "Currency")
Outputs.SetProperty "Cost", sCost
Outputs.SetProperty "Delivery Date", Del Date
iReturn = Cancel Operation

End If

Service_PreInvokeMethod = iReturn

End Function

```

Related Topic

["Service_InvokeMethod Event" on page 287](#)

Control Methods

In the method descriptions, the placeholder *controlVar* stands for the name of the control on which the method is invoked; for example, Button1_Click.

NOTE: Control Methods do not work with ActiveX controls.

- ["Applet Method" on page 294](#)
- ["BusComp Method" on page 294](#)
- ["GetProperty Method" on page 295](#)
- ["GetValue Method" on page 295](#)
- ["Name Method" on page 296](#)
- ["SetLabelProperty Method" on page 297](#)
- ["SetProperty Method" on page 299](#)
- ["SetValue Method" on page 300](#)

Applet Method

The Applet method returns the parent applet object for a control.

Syntax

controlVar.Applet

Argument	Description
Not applicable	

Returns

The parent applet of the control

Usage

Obtaining the parent applet allows you to perform operations on the applet object, not just the control.

Used With

Browser Script

BusComp Method

The BusComp method returns the corresponding business component for the control.

Syntax

controlVar.BusComp

Argument	Description
Not applicable	

Returns

The business component associated with the control's parent applet.

Used With

Browser Script

For an example, read ["Name Method" on page 225](#).

GetProperty Method

The GetProperty method returns the value of the property of a control.

Syntax

```
controlVar.GetProperty(propName)
```

Argument	Description
<i>propName</i>	The name of the property to be retrieved

Returns

The value of the property of a control.

Usage

GetProperty can be used with the following controls: CheckBox, ComboBox, TextBox, TextArea, and Label.

Use GetProperty to call the following properties: Background Color, Enabled, FontType, FontColor, FontSize, FontStyle, Height, Width, Read Only, Visible. For more information on these properties, see [Table 35 on page 297](#).

If more than one property is to be retrieved, each must be retrieved in a separate statement.

Used With

Browser Script

Example

This code sample uses GetProperty to return values for FontSize, Background Color, Width, and Height:

```
theApplicati on().SWEAL ert("checkbox. FontSi ze : " +
obj CheckBox. GetProperty("FontSi ze"));
theApplicati on().SWEAL ert("checkbox. BgCol or : " +
obj CheckBox. GetProperty("BgCol or"));
theApplicati on().SWEAL ert("checkbox. Wi dth : " + obj CheckBox. GetProperty("Wi dth"));
theApplicati on().SWEAL ert("checkbox. Hei ght : " +
obj CheckBox. GetProperty("Hei ght"));
```

GetValue Method

The GetValue method returns the value of the control. The type of the return value depends on the specific control object.

Syntax

controlVar.GetValue

Argument	Description
Not applicable	

Returns

The value displayed by the control for the data type of the underlying field.

NOTE: GetValue cannot return a literal value input into a control by a user. The method instead returns the value that the user’s entry has been stored as, based on the data type of the underlying field.

Usage

The GetValue and SetValue methods work only for controls that are associated with business component fields. Therefore, these methods are not applicable to labels.

Used With

Browser Script

Name Method

The Name method returns the name of the object.

Syntax

controlVar.Name

Argument	Description
Not applicable	

Returns

A string containing the object name

Used With

Browser Script

Example

For an example, read [“Name Method” on page 225](#).

SetLabelProperty Method

The SetLabelProperty method sets visual properties of a label.

Syntax

```
controlVar.SetLabelProperty(propName, propValue)
```

Argument	Description
<i>propName</i>	The name of the property to be set, as described in the following table
<i>propValue</i>	The value to assign to the property, as described in the following table

Returns

Not applicable

Usage

If more than one property is to be set, each must be set in a separate statement.

[Table 35](#) lists the properties that can be set for a label, and the values that can be assigned to them:

Table 35. Label Properties

Property	Value	Description
BgColor	string	Determines background color for a label; for example, red is "#ff0000", green is "#00ff00", and blue is "#0000ff"
FontColor	string	Determines font color for a label; for example, green is "#00ff00"
FontType	string	Determines font type for a label; for example, "Times Roman"
FontSize	string	Determines font size for a label; for example, "12 pt"
FontStyle	string	Determines font style for a label; for example, "italic"
FontWeight	string	Determines font weight for a label. Acceptable values are bold, bolder, lighter, normal, 100, 200, 300, 400 (equivalent to normal), 500, 600, 700 (equivalent to bold), 800, and 900. Default is normal.
Height	string	Determines height for a label, in pixels; for example, "5"
Visible	visible or hidden	Determines whether the label is visible. Defaults to repository definition unless explicitly modified by using SetLabelProperty.
Width	string	Determines width for a label, in pixels; for example, "80"

The SetLabelProperty method is not enabled by default. You must enable it in Siebel Tools before using it in a script. To enable the SetLabelProperty, expand the Control node in the Tools Object Explorer and select the Control User Prop node. Then add a new Control User Prop named "useLabelID" with a value of "TRUE".

Used With

Browser Script

Example

The following code shows the use of SetLabelProperty:

```

function Applet_PrelInvokeMethod (name, inputPropSet){
  switch (name) {
    // Example of changing the font size of the Location label
    case ("fontsize"):
    {
      var ctl = this.FindControl("Location");
      var fSize = prompt("Specify the desired label font size (numeric value only).");
      ctl.SetLabelProperty("FontSize", fSize);
      return ("Cancel Operation");
    }

    // Example of changing the background color of the Location label
    case ("bgcolor"):
    {
      var ctl = this.FindControl("Location");
      var bgColor = prompt("Specify the background color of the label. Enter a valid six hexadecimal digit RGB value preceded by #");
      ctl.SetLabelProperty("BgColor", bgColor);
      return ("Cancel Operation");
    }

    // Example of changing the font type of the Location label
    case ("fonttype"):
    {
      var ctl = this.FindControl("Location");
      var fontType = prompt("Specify the font type for the label.");
      ctl.SetLabelProperty("FontType", fontType);
      return ("Cancel Operation");
    }

    // Example of changing the font color of the Location label
    case ("fontcolor"):
    {
      var ctl = this.FindControl("Location");
      var fontColor = prompt("Specify the font color of the label. Enter a valid six hexadecimal digit RGB value preceded by #");
      ctl.SetLabelProperty("FontColor", fontColor);
      return ("Cancel Operation");
    }
  }
}

```

```

    }
    break;
  }
}

```

SetProperty Method

The SetProperty method sets visual properties of a control.

Syntax

controlVar.SetProperty(*propName*, *propValue*)

Argument	Description
<i>propName</i>	The name of the property to be set, as described in the following table
<i>propValue</i>	The value to assign to the property, as described in the following table

Returns

Not applicable

Usage

SetProperty can be used with the following controls: CheckBox, ComboBox, TextBox, and TextArea.

If more than one property is to be set, each must be set in a separate statement.

The following table lists the properties that can be set for a control, and the values that can be assigned to them:

Property	Value	Description
BgColor	string	Determines background color for a label; for example, red is "#ff0000", green is "#00ff00", and blue is "#0000ff"
Enabled	TRUE or FALSE	Is the button active? (Unless explicitly modified by using SetProperty, default is TRUE.)
FontColor	string	Determines font color for a label; for example, green is "#00ff00"
FontType	string	Determines font type for a label; for example, "Times Roman"
FontSize	string	Determines font size for a label; for example, "12 pt"
FontStyle	string	Determines font style for a label; for example, "italic"
Height	string	Determines height for a control, in pixels; for example, "5"

Property	Value	Description
Shown	TRUE or FALSE	Is the control shown? (Unless explicitly modified by using SetProperty, default is as defined in the repository.)
ReadOnly	TRUE or FALSE	Determines whether the control is read-only. Defaults to repository definition unless explicitly modified by using SetProperty.
Visible	TRUE or FALSE	Determines whether the control is visible. Defaults to repository definition unless explicitly modified by using SetProperty.
Width	string	Determines width for a control, in pixels; for example, "80"

Used With

Browser Script

Example

The following code shows the use of SetProperty:

```
obj CheckBox. SetProperty("FontCol or", "#00ff00");
obj CheckBox. SetProperty("FontStyl e", "i tal i c");
obj CheckBox. SetProperty("FontType", "Verdana");
obj CheckBox. SetProperty("FontSi ze", "14 pt");
obj CheckBox. SetProperty("BgCol or", "#00f000");
obj CheckBox. SetProperty("Wi dth", "100");
obj CheckBox. SetProperty("Hei ght", "100");
```

SetValue Method

The SetValue method sets the contents of the specified control to the value indicated.

Syntax

controlVar.SetValue (*controlValue*)

Argument	Description
<i>controlValue</i>	String containing the value to which to set the control

Returns

Not applicable

Usage

The GetValue and SetValue methods work only for controls that are associated with business component fields. Therefore, these methods are not applicable to labels. SetValue sets the contents of a control. The user can still change those contents before they are committed to the BusComp field.

SetValue does not validate the format of the data. Data validation occurs at the time user commits the record by stepping off the field/record or saving the record. SetValue can also set the value for a read-only control. However, such value is lost when the record is committed. Also, these methods only work on form applets.

Used With

Browser Script

Example

The following code shows the use of GetValue and SetValue:

```
function Applet_PreInvokeMethod (name, inputPropSet)
{
  switch (name) {
    // Example of changing the value of the Abstract control to uppercase
    case ("SR Abstract"):
    {
      var ctlName = "Abstract";
      var ctl = this.FindControl(ctlName);
      var ctlVal = ctl.GetValue();
      ctl.SetValue(ctlVal.toUpperCase());
      ctl = null;
      return("Cancel Operation");
    }

    // Example of changing the value of a checkbox control
    case ("SR Billable"):
    {
      var ctlName = "Billable Flag";
      var ctl = this.FindControl(ctlName);
      var ctlVal = ctl.GetValue();
      if (ctlVal == "Y")
        ctl.SetValue("N"); // clear the box
      else
        ctl.SetValue("Y"); // check the box
      ctl = null;
      return("Cancel Operation");
    }

    // Example of changing the value of a date/time control
    case ("SR Commit time"):
    {
      var ctlName = "Agent Committed";
      var ctl = this.FindControl(ctlName);
      ctl.SetValue("12/1/2001 1:09:31 AM");
    }
  }
}
```

```

        // format is not validated until user commits the record
        ctl = null;
        return("Cancel Operati on");
    }
    break;
}
}

```

Property Set Methods

In the method descriptions, the placeholder *oPropSet* refers to a variable containing a property set:

- ["AddChild Method" on page 303](#)
- ["Copy Method" on page 304](#)
- ["GetByteValue Method" on page 305](#)
- ["GetChild Method" on page 306](#)
- ["GetChildCount Method" on page 307](#)
- ["GetFirstProperty Method" on page 308](#)
- ["GetLastErrCode Method" on page 309](#)
- ["GetLastErrText Method" on page 310](#)
- ["GetNextProperty Method" on page 310](#)
- ["GetProperty Method" on page 311](#)
- ["GetPropertyCount Method" on page 312](#)
- ["GetType Method" on page 312](#)
- ["GetValue Method" on page 313](#)
- ["InsertChildAt Method" on page 314](#)
- ["PropertyExists Method" on page 314](#)
- ["RemoveChild Method" on page 315](#)
- ["RemoveProperty Method" on page 316](#)
- ["Reset Method" on page 316](#)
- ["SetByteValue Method" on page 317](#)
- ["SetProperty Method" on page 318](#)
- ["SetType Method" on page 319](#)
- ["SetValue Method" on page 319](#)

AddChild Method

The AddChild method is used to add subsidiary property sets to a property set, so as to form hierarchical (tree-structured) data structures.

Syntax

oPropSet.AddChild(*childPropSet* as *PropertySet*)

Argument	Description
<i>childObject</i>	A property set to be made subsidiary to the property set indicated by <i>oPropSet</i>

Returns

An integer indicating the index of the child property set.

Usage

Property sets can be used to create tree-structured data structures. Any number of arbitrarily structured child property sets can be added to a property set. You may use child property sets to structure a property set in a manner similar to the data model. For example, the parent property set might be Account, with child property sets for opportunities, contacts, activities, and so on. At the same time, you could construct an independent property set called Opportunity, to which accounts, contacts, and activities might be children.

If a property set is instantiated within script and then added to a parent property set, the child property set is not released when the parent property set is released. This is because a reference to the child property set still exists independently.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

The following fragment of eScript code shows how child property sets may be added to a parent property set:

```
var Account = TheApplicati on(). NewPropertySet ();
var Opportuni ty = TheApplicati on(). NewPropertySet ();
var Contact = TheApplicati on(). NewPropertySet ();
var Acti vi ty = TheApplicati on(). NewPropertySet ();

Account. AddChi ld(Opportuni ty);
Account. AddChi ld(Contact);
Account. AddChi ld(Acti vi ty);
```

Related Topics[“GetChild Method” on page 306](#)[“InsertChildAt Method” on page 314](#)[“RemoveChild Method” on page 315](#)

Copy Method

This method returns a copy of a property set.

Syntax

oPropSet.Copy()

Argument	Description
Not applicable	

Returns

A copy of the property set indicated by *oPropSet*

Usage

This method creates a copy of a property set, including any properties and children it may have. Because property sets are generally passed by reference, making a copy allows the method to manipulate the property set without affecting the original definition.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

This Siebel VB example uses a copy of a property set to store the original values of its properties, and displays both the original and Pig-Latin forms of the properties:

```

(general )
(declarations)
Option Explicit

Function PigLatin (Name1 As String) As String
    Dim Name2 As String, FirstLetter As String
    Name2 = Right$(Name1, Len(Name1) - 1)
    FirstLetter = Left$(Name1, 1)
    Name2 = UCase(Mid$(Name1, 2, 1)) & _
        Right$(Name2, Len(Name2) - 1)
    Name2 = Name2 & LCase(FirstLetter) & "ay"
    PigLatin = Name2
End Function

```

```

Sub ClickMe_Click()

    Dim Inputs As PropertySet, Outputs As PropertySet
    Dim message As String, propName, propVal, newPropVal
    set Inputs = TheApplication.NewPropertySet

    Inputs.SetProperty "Name", "Harold"
    Inputs.SetProperty "Assistant", "Kathryn"
    Inputs.SetProperty "Driver", "Merton"

    set Outputs = Inputs.Copy()

    propName = Outputs.GetFirstProperty()
    do while propName <> ""
        propVal = Outputs.GetProperty(propName)
        newPropVal = PigLatin(propVal)
        Outputs.SetProperty propName, newPropVal
        message = message & propName & " has become " & _
            newPropVal & Chr$(13)
        propName = Outputs.GetNextProperty()
    loop
    TheApplication.RaiseErrorText message

    Set message = Nothing
    Set Outputs = Nothing
    Set Inputs = Nothing

End Sub

```

GetByteValue Method

This method returns a byte array if a byte value has been set.

Syntax

```
oPropSet.getByteValue()
```

Argument	Description
Not applicable	

Returns

A byte array if a byte value has been set, null if a string value has been set.

Used With

Java Data Bean

Example

The following example takes a binary value and outputs binary.

```

SiebelPropertySet input = new SiebelPropertySet();
SiebelPropertySet output = new SiebelPropertySet();

input.setProperty("ProcessName", "LMS3 Jason");

// XML to send
String str="<?xml version=\\"1.0\\" encoding=\\"UTF8\\"
?><GetCommunicationDataInput><MemberID>20048963</MemberID></
GetCommunicationDataInput>";

// convert string to byte array
byte [] bvalue = new String(str).getBytes();

input.setByteValue(bvalue);
businessService.invokeMethod("RunProcess", input, output);

// Use getByteValue to retrieve the value..and pop it in a String..for example
String out2 = new String (output.getByteValue());
System.out.println(out2);

```

Related Topic

["SetByteValue Method" on page 317](#)

GetChild Method

This method returns a specified child property set of a property set.

Syntax

```
oPropSet.GetChild(index)
```

Argument	Description
<i>index</i>	An integer representing the index number of the child property set to be retrieved

Returns

The property set at index *index* of the parent property set

Usage

When child property sets are created, each is given an index number within the parent property set, starting at 0. Property sets added using `AddChild` get the next available index number. However, a property set added using `InsertChildAt` inserts a new property set at a specified index. The property set previously at that index and all property sets after it have their indexes increased by 1. Similarly, a property set removed using `RemoveChild` decreases the indexes of following child property sets by 1.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

NOTE: When using the Web Client Automation Server, the child object retrieved is a copy of the actual object. Any update to the object retrieved will not update the originating object.

Example

This Siebel eScript example sets the Name property of child property sets to the same value:

```
function Test1_Click ()
{
    var Account = TheApplication().NewPropertySet();
    var Opportunity = TheApplication().NewPropertySet();
    var Contact = TheApplication().NewPropertySet();
    var Acti vi ty = TheApplication().NewPropertySet();
    var j;

    Account.AddChild(Opportunity);
    Account.AddChild(Contact);
    Account.AddChild(Acti vi ty);

    for (var i = 0; i < Account.GetChildCount(); i++)
    {
        j = Account.GetChild(i);
        j.SetProperty('Name', 'Allied Handbooks');
    }
}
```

Related Topics

[“AddChild Method” on page 303](#)

[“InsertChildAt Method” on page 314](#)

GetChildCount Method

This method returns the number of child property sets attached to a parent property set.

Syntax

oPropSet.GetChildCount()

Argument	Description
Not applicable	

Returns

The number of child property sets subordinate to *oPropSet*

Usage

This method returns the actual number of child property sets of *oPropSet*. Because index numbers for child property sets start at 0, a child count of 3 indicates that there are child property sets at indexes 0, 1, and 2.

NOTE: This method returns the number of direct descendants only. That is, if the child property sets have children of their own, these grandchildren are not included in the computation of the return value.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

For an example, read [“GetChild Method” on page 306](#).

GetFirstProperty Method

This method returns the name of the first property in a property set.

Syntax

oPropSet.GetFirstProperty()

Argument	Description
Not applicable	

Returns

A string representing the name of the first property in a property set

Usage

GetFirstProperty() retrieves the name of the first property, in order of definition, of a business service. Use GetFirstProperty and GetNextProperty to retrieve the name of a property. You can then use the retrieved name as an argument to GetProperty to retrieve the property value, or with SetProperty to assign property values.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

This example uses `GetFirstProperty` to get the first property, then retrieves all subsequent properties using `GetNextProperty`. The loop terminates when `GetNextProperty` retrieves a null.

```
function Service_PreInvokeMethod (MethodName, Inputs, Outputs)
{
    var propName = "";
    var propVal = "";

    propName = Inputs.GetFirstProperty();

    // stay in loop if the property name is not an empty string
    while (propName != "") {
        propVal = Inputs.GetProperty(propName);

        // if a property with the same name does not exist
        // add the name value pair to the output
        if (!Outputs.PropertyExists(propName)) {
            Outputs.SetProperty(propName, propVal);
        }

        propName = Inputs.GetNextProperty();
    }
    return (CancelOperation);
}
```

Related Topics

[“GetNextProperty Method”](#)

[“GetProperty Method” on page 311](#)

GetLastErrCode Method

The `GetLastErrCode` method returns the most recent error code.

Syntax

oPropSet.GetLastErrCode

Argument	Description
Not applicable	

Returns

The last error code as a short integer; 0 indicates no error.

Usage

After execution of a method, the `GetLastErrCode` can be invoked to check if any error was returned from the previous operation. The `GetLastErrText` method can be invoked to retrieve the text of the error message.

Used With

Mobile Web Client Automation Server, Web Client Automation Server

Related Topic

[“GetLastErrText Method”](#)

GetLastErrText Method

The `GetLastErrText` method returns the last error text message.

Syntax

`oPropSet.GetLastErrText`

Argument	Description
Not applicable	

Returns

The most recent error text message as a string

Usage

After execution of a method, the `GetLastErrCode` can be invoked to check if any error was returned from the previous operation. The `GetLastErrText` method can be invoked to retrieve the text of the error message.

Used With

Mobile Web Client Automation Server, Web Client Automation Server

Related Topic

[“GetLastErrCode Method” on page 309](#)

GetNextProperty Method

This method returns the next property in a property set.

Syntax

```
oPropSet.GetNextProperty()
```

Argument	Description
Not applicable	

Returns

A string representing the name of the next property in a property set

Usage

After retrieving the name of the first property with the `GetFirstProperty` method, `GetNextProperty` should be used in a loop, to be terminated when an empty string ("") is returned. When property names have been retrieved, they may be used as arguments to `GetProperty` to retrieve the property value, or with `SetProperty` to assign property values.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

For an example, read [“GetFirstProperty Method” on page 308](#).

Related Topics

[“GetFirstProperty Method” on page 308](#)

[“GetProperty Method”](#)

GetProperty Method

This method returns the value of a property when given the property name.

Syntax

```
oPropSet.GetProperty(propName)
```

Argument	Description
<i>propName</i>	A string representing the name of a property as returned by <code>GetFirstProperty</code> or <code>GetNextProperty</code>

Returns

A string representing the value stored in the property indicated by *propName*, or an empty string ("") if the property does not exist

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

The following fragment of Siebel eScript code receives a set of input properties used with the Shipping Engine service described in [“Service_PreInvokeMethod Event” on page 290](#):

```
var sShipper = Inputs.GetProperty("Shipping Company");
var dWeight = Val (Inputs.GetProperty("Weight"));
var dSize = Val (Inputs.GetProperty("Total Dimensions"));
var iZone = Val (Inputs.GetProperty("Zone"));
```

Related Topics

[“GetFirstProperty Method” on page 308](#)

[“GetNextProperty Method” on page 310](#)

[“SetProperty Method” on page 318](#)

GetPropertyCount Method

This method returns the number of properties attached to a property set.

Syntax

oPropSet.GetPropertyCount

Argument	Description
Not applicable	

Returns

The number of properties stored at the current level in the hierarchy, but not all properties throughout the entire property set hierarchy

Used With

Browser Script, COM Data Control, COM Data Server, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

GetType Method

This method retrieves the data value stored in the type attribute of a property set.

Syntax*oPropSet*.GetType

Argument	Description
Not applicable	

Returns

A string representing the value stored in the type attribute of the property set

Usage

Type, like value, is a special storage location for a data value.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topics

[“GetValue Method”](#)

[“SetType Method” on page 319](#)

GetValue Method

This method retrieves the data value stored in the value attribute of a property set.

Syntax*oPropSet*.GetValue

Argument	Description
Not applicable	

Returns

A string representing the data value stored in the value attribute of a property set

Usage

Value, like type, is a special storage location for a data value.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topics[“GetProperty Method” on page 311](#)[“GetType Method” on page 312](#)[“SetValue Method” on page 319](#)

InsertChildAt Method

This method inserts a child property set into a parent property set at a specific location.

Syntax

oPropSet.InsertChildAt childObject, index

Argument	Description
<i>childObject</i>	A property set to be made subsidiary to the property set indicated by <i>oPropSet</i>
<i>index</i>	An integer representing the position at which <i>childObject</i> is to be inserted

Returns

Not applicable

Usage

This method inserts the property set *childObject* at the location *index*. Index numbers start at 0. When a child property set is inserted, the property set previously at the location *index* has its index increased by 1, as do subsequent child property sets.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topic[“AddChild Method” on page 303](#)

PropertyExists Method

This method returns a Boolean value indicating whether a specified property exists in a property set.

Syntax

oPropSet.PropertyExists(*propName*)

Argument	Description
<i>propName</i>	A string representing the name of the property to be found

Returns

In Siebel VB, an integer (0 for false, 1 for true); in other interfaces, a Boolean

Usage

Because GetProperty returns an empty string ("") for every nonexistent property, use PropertyExists() in an if statement to determine whether a specific property has been set.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

For an example, read ["GetFirstProperty Method" on page 308](#).

RemoveChild Method

This method removes a child property set from a parent property set.

Syntax

oPropSet.RemoveChild *index*

Argument	Description
<i>index</i>	An integer representing the index number of the child property set to be removed

Returns

Not applicable

Usage

When a child property set is removed, every child property set with an index higher than that of the removed set has its index decremented by 1.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

The following Siebel VB code fragment removes every child property set of a property set:

```
Dim i As Integer
for i = 0 to outputs.GetChildCount()
    outputs.RemoveChild(i)
Next i
```

Related Topics

["AddChild Method" on page 303](#)

["InsertChildAt Method" on page 314](#)

RemoveProperty Method

This method removes a property from a property set.

Syntax

oPropSet.RemoveProperty propName

Argument	Description
<i>propName</i>	The name of the property to be removed

Returns

Not applicable

Usage

This method removes the property *propName* from the property set *oPropSet*.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Reset Method

This method removes all properties and children from a property set.

Syntax

```
oPropSet.Reset()
```

Argument	Description
Not applicable	

Returns

Not applicable

Usage

This method removes all properties and children from a property set, allowing the property set to be reused with new properties.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

SetByteValue Method

This method sets the value portion of a property set.

Syntax

```
oPropSet.setByteValue(value)
```

Argument	Description
<i>value</i>	The byte array containing the value to be set

Returns

Not applicable

Used With

Java Data Bean

Example

The following example takes a binary value and outputs binary.

```
Si ebel PropertySet i nput = new Si ebel PropertySet();
Si ebel PropertySet output = new Si ebel PropertySet();

i nput.setProperty("ProcessName", "LMS3 Jason");
```

```
// XML to send
String str="<?xml version=\"1.0\" encoding=\"UTF8\"
?><GetCommunicationDataInput><MemberID>20048963</MemberID></
GetCommunicationDataInput>";

// convert string to byte array
byte [] bvalue = new String(str).getBytes();

input.setByteValue(bvalue);
businessService.invokeMethod("RunProcess", input, output);

// use getByteValue to retrieve the value and put it into a String
String out2 = new String (output.getByteValue());
System.out.println(out2);
```

Related Topic

["GetByteValue Method" on page 305](#)

SetProperty Method

This method assigns a data value to a property in a property set.

Syntax

oPropSet.SetProperty *propName*, *propValue*

Argument	Description
<i>propName</i>	A string representing the name of a property
<i>propValue</i>	A string representing the value to be assigned to <i>propName</i>

Returns

Not applicable

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Example

This Siebel VB fragment makes use of the business service "Shipping Engine," which is illustrated in ["Service_PreInvokeMethod Event" on page 290](#):

```
Dim Svc As Service
Dim Inputs As PropertySet, Outputs As PropertySet
Set Svc = TheApplication.GetService("Shipping Engine")
Set Inputs = TheApplication.NewPropertySet()
```

```

With Inputs
  . SetProperty "Shi ppi ng Company", "Ai rli ne"
  . SetProperty "Wei ght", "12"
  . SetProperty "Total Di mensi ons", "48"
  . SetProperty "Shi ppi ng Method", "Second-Day Ai r"
End Wi th

```

Related Topic

["GetProperty Method" on page 311](#)

SetType Method

This method assigns a data value to the type attribute of a property set.

Syntax

oPropSet.SetType type

Argument	Description
<i>type</i>	A string representing data to be stored in the type attribute

Returns

Not applicable

Usage

Type, like value, is a special storage location for a data value.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topics

["GetType Method" on page 312](#)

["SetValue Method" on page 319](#)

SetValue Method

This method assigns a data value to the value attribute of a property set.

Syntax

oPropSet.SetValue value

Argument	Description
<i>value</i>	A string representing data to be stored in the value attribute

Returns

Not applicable

Usage

Values, like properties and types, are storage locations for a data value.

Used With

Browser Script, COM Data Control, COM Data Server, Java Data Bean, Mobile Web Client Automation Server, Server Script, Web Client Automation Server

Related Topics

- ["GetValue Method" on page 313](#)
- ["SetProperty Method" on page 318](#)

Miscellaneous Methods

The following methods do not belong to any other category:

- ["GetErrorCode Method" on page 320](#)
- ["GetErrorMessage Method" on page 321](#)
- ["TheApplication Method" on page 322](#)

GetErrorCode Method

This method is used with the Java Data Bean to display numeric error codes.

Syntax

public int getErrorCode()

Argument	Description
Not applicable	

Returns

A numeric error code

Used With

Java Data Bean

Example

This example for the Siebel Java Data Bean retrieves the first record in the Account business component. If an error occurs during execution, the script displays the error code and error message.

```

try
{
    //Instantiate the Siebel Data Bean
    Sieb_dataBean = new SiebelDataBean();
    String Cstr = "GatewayServer, EntServer, FINSObjMgr";
    Sieb_dataBean.Login(Cstr, "SADMIN", "SADMIN");
    SiebelBusObject m_busObject = Sieb_dataBean.getBusObject("Account");
    SiebelBusComp m_busComp = m_busObject.getBusComp("Account");
    m_busComp.activateField("Name");
    m_busComp.executeQuery(true);
    m_busComp.firstRecord();
    Name = m_busComp.getFieldValue("Name");
    System.out.println("Account Name : " + Name);

    m_busComp.release();
    m_busComp = null;

    m_busObject.release();
    m_busObject = null;

    Sieb_dataBean.Logoff();
    Sieb_dataBean = null;
}
catch (SiebelException e)
{
    ErrorText = "Code: " + e.getErrorCode() + "\n" + "Description: " +
e.getErrorMessage();
    System.out.println("Error Occurred\n " + ErrorText);
}
...

```

Related Topic

["GetErrorMessage Method"](#)

GetErrorMessage Method

This method is used with the Java Data Bean to display error messages.

Syntax

```
public string getErrorMessage()
```

Argument	Description
Not applicable	

Returns

A string containing an error message

Used With

Java Data Bean

Related Topic

["GetErrorCode Method"](#)

TheApplication Method

TheApplication is a global method that returns the unique object of type Application. This is the root of objects within the Siebel Applications object hierarchy. Use this method to determine the object reference of the application, which is later used to find other objects or to invoke methods on the application object.

Browser Script Syntax

```
theApplication()
```

VB Syntax

```
TheApplication
```

eScript Syntax

```
TheApplication()
```

Argument	Description
Not applicable	

Returns

Application, an object for use in finding other objects or invoking methods

Usage

For example, when using Siebel eScript to determine whether you are logged in to a server database or local database, use `TheApplication().InvokeMethod("GetDataSource")`.

Used With

Browser Script, Server Script

Example

The following example is in Siebel VB. It retrieves the login name from the application object and creates the Employee business object.

```
Dim oEmpBusObj as BusObject
Dim sLogi nName as String

sLogi nName = TheAppl i cati on. Logi nName
Set oEmpBusObj = TheAppl i cati on. GetBusObj ect("Empl oyee")

...

Set oEmpBusObj = Nothi ng
```


5

Accessing Siebel COM Data Server with C++

This chapter presents a series of steps to build a simple COM client in Visual C++ and the Microsoft Foundation Class (MFC) library, which accesses the Siebel Data Server. The following topics show to build and test real-time interfaces to Siebel using C++ for integration purposes:

- ["Building the Siebel COM Client in C++" on page 325](#)
- ["Testing Your Program" on page 329](#)

Building the Siebel COM Client in C++

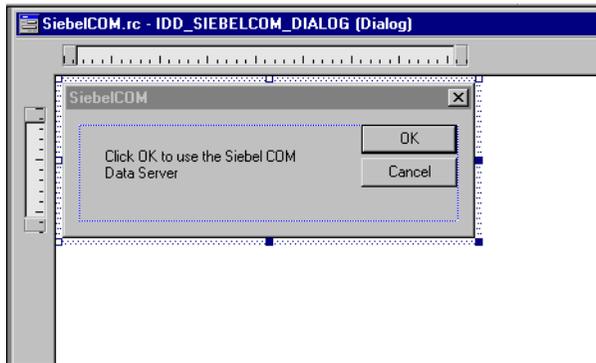
The following procedure explains how to build the Siebel COM Client in C++.

To build the Siebel COM client in C++

- 1 In Microsoft Visual C++, choose File > New > Project.
- 2 Select the MFC AppWizard (exe) project type.
- 3 In the Project name field, enter Siebel COM, and then click OK.
The MFC AppWizard starts.
- 4 Select the Dialog-based option and then click Next.
- 5 In the "What other support would you like to include?" frame, check Automation and clear ActiveX Controls, and then click Next. Click Next again.
- 6 Click Finish.
Microsoft Visual C++ displays the project information.
- 7 Click OK.

The Application Wizard generates the standard MFC code that serves as the skeleton for this project. Headers and libraries necessary to support COM automation are included. Refer to the Microsoft Visual Studio [MSDN] documentation for a detailed description of the MFC libraries.

- 8 The newly created dialog box appears in the workspace. You can resize the box and change the text in the label by editing its properties. Right-click the label in the dialog box to edit its properties. Modify the dialog box so that it looks something like the following illustration.



- 9 Choose View > ClassWizard > Automation.
- 10 Click Add Class > From a type library.
- 11 Navigate to the *SI EBSRVR_ROOT\bin* folder. Choose *so bj srv. t l b*.
- 12 In the Confirm Classes dialog box, make sure all five Siebel classes are selected, and then click OK. Click OK again to close the Class Wizard.
- 13 Add code to communicate with the Siebel COM Server.
 - a In the workspace window, click the FileView tab.
 - b Expand the Source Files and Header Files folders.
 - c Double-click the *Si ebel COMDI g. h* file.
The code window opens.
 - d Add the following code highlighted in bold to the *Si ebel COMDI g. h* file:

```

#i f _MSC_VER > 1000
#pragma once
#endi f // _MSC_VER > 1000

#i ncl ude "so bj srv. h" // I ncl ude Si ebel wrapp er cl asses

cl ass CSi ebel COMDI gAutoProxy;

////////////////////////////////////
// CSi ebel COMDI g di al og

cl ass CSi ebel COMDI g : publ ic CDi al og{
    DECLARE_DYNAMI C(CSi ebel COMDI g);
    fri end cl ass CSi ebel COMDI gAutoProxy;
    Si ebel Appl i cati on sApp; // Decl are Si ebel obj ect
}
    
```

```
//Constructi on
public:
    CSi ebel COMDI g(CWnd* pParent = NULL); //standard constructor
    virtual ~CSi ebel COMDI g();
```

- e Choose File > Open, and then select the Si ebel COMDI g. cpp file. Add the following code highlighted in bold to the OnI ni tDi al og procedure:

```
CDi al og: : OnI ni tDi al og();
...
// TODO: Add extra i nitializati on here
// Start the Siebel Data Server
if (!sApp. CreateDi spatch(_T("Si ebel DataServer. Appl i cati onObj ect"))
{
    AfxMessageBox("Cannot start Si ebel Data Server.");
EndDi al og(-1); // Fai l
} el se
{
    AfxMessageBox("Si ebel Data Server i nitial ized.");
}

return TRUE; // Return TRUE unless you set the focus to a control
...
```

- f In the same file, add the following code highlighted in bold to the OnOK procedure. Make sure that the line beginning with sApp. LoadObj ects points to the location of the CFG file you intend to use. In the line beginning with sApp. Logi n, make sure that you have entered a valid logon name and password.

```
voi d CSi ebel COMDI g: : OnOK()
{
    short sErr;

    // Load confi gurati on fi le
    // Make sure that the follo wi ng li ne poi nts to the correct fi le
    sApp. LoadObj ects(C: \\si ebel \\bi n\\si ebel . cfg", &sErr);
    if(sErr)
    {
        AfxMessageBox("LoadObj ect fai led.");
        return;
    } el se
    {
        AfxMessageBox("CFG fi le l oaded.");
    }

    // Log i n as SADMIN
    sApp. Logi n("SADMIN", "SADMIN", &sErr);
    if(sErr)
    {
        AfxMessageBox("Logi n fai led.");
        return;
    } el se
```

```

{
    AfxMessageBox("Logged into Siebel database.");
}

// Get Account business object
LPDISPATCH lpdBo;
lpdBo = sApp.GetBusObject("Account", &sErr);
if(sErr)
{
    AfxMessageBox("GetBusObject failed.");
    return;
} else
{
    AfxMessageBox("Account business object retrieved.");
}
Siebel BusObject Bo(lpdBo);

// Get Account business component
LPDISPATCH lpdBc;
lpdBc = Bo.GetBusComp("Account", &sErr);
if(sErr)
{
    AfxMessageBox("GetBusComp failed.");
    return;
} else
{
    AfxMessageBox("Account business component retrieved.");
}
Siebel BusComp Bc(lpdBc);

// Get the name of the first account
if (sErr) return;
Bc.ClearToQuery(&sErr);
if (sErr) return;
Bc.SetSearchSpec("Name", "*", &sErr);
if (sErr) return;
Bc.ExecuteQuery(ForwardOnly, &sErr);
if (sErr) return;
Bc.FirstRecord(&sErr);
if (sErr) return;

// Display the account name in a message box
CString csAcctName;
csAcctName = Bc.GetFieldValue("Name", &sErr);
AfxMessageBox(csAcctName);

Bc = null;
lpdBc = null;
Bo = null;
lpdBo = null;

return;

if (CanExit())
    CDialog::OnOK();

```

```
}

```

When you have finished creating your program, test it to make sure it works properly.

Testing Your Program

Use the following procedure to test your program.

To test your program

- 1 Start your Siebel client application using the same CFG file and login arguments you specified in the code.
- 2 Choose Screens > Accounts > All Accounts. Verify that there is at least one account visible in the Account list applet. If there is not, create one. Exit the Siebel client.
- 3 Open the CFG file you specified in the code and make sure that the DataSource key indicates the database source you specified at logon in [Step 2](#).
- 4 In Microsoft Visual C++, choose Build > Build SiebelCOM.exe, or press F7. If there are any errors or warnings reported in the output window, correct the errors and repeat this step.
- 5 Choose Build > Execute SiebelCOM.exe, or press F5.

A message box displays the message "Siebel Data Server initialized."

- 6 Click OK.

The customized dialog box opens.

- 7 The application displays a series of message boxes, with the following messages:

```
CFG file loaded.
Logged into Siebel database.
Account business object retrieved.
Account business component retrieved.
```

The application displays the name of the first account in the All Accounts view.

6

COM Data Control Quick Reference

This chapter provides a quick reference for Siebel COM Data Control methods. It has the following topics:

- [“Application Methods for COM Data Control”](#)
- [“Business Component Methods for COM Data Control” on page 334](#)
- [“Business Object Methods for COM Data Control” on page 338](#)
- [“Business Service Methods for COM Data Control” on page 338](#)
- [“Property Set Methods for COM Data Control” on page 339](#)

Application Methods for COM Data Control

Table 36 lists a summary of the application methods' syntax.

Table 36 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with InvokeMethod on the Application object, see [“InvokeMethod Methods for the Application Object” on page 143](#).

Table 36. Application Methods Syntax Summary

Method	Description	Syntax
Attach Method	Allows an external application to reconnect to an existing Siebel session.	<code>Dim application as Siebel DataControl Dim status as Boolean status = application.Attach(sessionID As String)</code>
CurrencyCode Method	Returns the three-letter operating currency code.	<code>Dim application as Siebel DataControl Dim sCur as String sCur = Application.CurrencyCode</code>
Detach Method	Returns a string containing the Siebel session ID.	<code>Dim application as Siebel DataControl Dim sessionID as String sessionID = application.Detach()</code>
EnableExceptions Method	Enables/disables native COM error handling.	<code>Dim application as Siebel DataControl Dim bEnable as Boolean bEnable = true application.EnableExceptions(bEnable)</code>

Table 36. Application Methods Syntax Summary

Method	Description	Syntax
GetBusObject Method	Instantiates and returns a new instance of the business object specified in the argument.	Dim application as SiebelDataControl Dim busObject as SiebelBusObject set busObject = application.GetBusObject(<i>busobj Name</i> as String)
GetLastErrCode Method	Returns the last error code.	Dim application as SiebelDataControl Dim iErr as Integer iErr = application.GetLastErrCode
GetLastErrText Method	Returns the last error text message.	Dim application as SiebelDataControl Dim sText as String sText = application.GetLastErrText
GetProfileAttr Method	Returns the value of an attribute in a user profile.	Dim application as SiebelDataControl Dim sText as String sText = application.GetProfileAttr(<i>profileAttribute Name</i> as string)
GetService Method	Instantiates and returns a new instance of the argument-specified service.	Dim application as SiebelDataControl Dim service as SiebelService set service = application.GetService(<i>serviceName</i> as String)
GetSharedGlobal Method	Returns the shared user-defined global variables.	Dim application as SiebelDataControl Dim sText as string sText = application.GetSharedGlobal(<i>globalVariableName</i> as string)
InvokeMethod Method	Calls the named specialized method.	Dim application as SiebelDataControl Dim sReturn as String sReturn = application.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)
Login Method	Allows external applications to log in to the COM Data Server.	Dim application as SiebelDataControl Dim sErr as String sErr = application.Login(<i>connectString</i> as String, <i>userName</i> as String, <i>password</i> as String)
LoginId Method	Returns the login ID of the user who started the Siebel application.	Dim application as SiebelDataControl Dim sID as String sID = application.LoginId
LoginName Method	Returns the login name of the user who started the Siebel application.	Dim application as SiebelDataControl Dim sUser as String sUser = application.LoginName

Table 36. Application Methods Syntax Summary

Method	Description	Syntax
Logoff Method	Disconnects the client from the server.	<code>Dim SiebApp as Siebel DataControl</code> <code>Dim bool Val as Boolean</code> <code>bool Val = siebApp.LogOff</code>
NewPropertySet Method	Constructs and returns a new property set object.	<code>Dim application as Siebel DataControl</code> <code>Dim PropSet as Siebel PropertySet</code> <code>PropSet = oApplication.NewPropertySet</code>
PositionId Method	Returns the position ID that describes the user's current position.	<code>Dim application as Siebel DataControl</code> <code>Dim sRow as String</code> <code>sRow = application.PositionId</code>
PositionName Method	Returns the position name of the user's current position.	<code>Dim application as Siebel DataControl</code> <code>Dim sPosition as String</code> <code>sPosition = application.PositionName</code>
SetPositionId Method	Sets the active position to the Position ID specified in the argument.	<code>Dim application as Siebel DataControl</code> <code>Dim status as Boolean</code> <code>status =</code> <code>application.SetPositionId(sPosId)</code>
SetPositionName Method	Sets the active position to the position name specified in the argument. Returns a Boolean value indicating whether or not method succeeded.	<code>Dim application as Siebel DataControl</code> <code>Dim status as Boolean</code> <code>status =</code> <code>application.SetPositionName(sPosName)</code>
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	<code>Dim application as Siebel DataControl</code> <code>application.SetProfileAttr(<i>name</i> as String, <i>value</i> as String)</code>
SetSharedGlobal Method	Sets a shared user-defined global variable, which may be accessed using <code>GetSharedGlobal</code> .	<code>Dim SiebApp as Siebel DataControl</code> <code>Dim bool Val as Boolean</code> <code>bool Val =</code> <code>SiebApp.SetSharedGlobal(<i>varName</i> As String, <i>value</i> As String)</code>
Trace Method	Appends a message to the trace file.	<code>Dim SiebApp as Siebel DataControl</code> <code>Dim bool Val as Boolean</code> <code>bool Val = siebApp.TraceOn(<i>msg</i> As String)</code>
TraceOff Method	Turns off the tracing started by the <code>TraceOn</code> method.	<code>Dim SiebApp as Siebel DataControl</code> <code>Dim bool Val as Boolean</code> <code>bool Val =siebApp.TraceOff</code>
TraceOn Method	Turns on the tracking of allocations and deallocations of Siebel objects, and SQL statements generated by the Siebel application.	<code>Dim SiebApp as Siebel DataControl</code> <code>Dim bool Val as Boolean</code> <code>bool Val = siebApp.TraceOn(<i>fileName</i> As String, <i>category</i> As String, <i>src</i> As String)</code>

Business Component Methods for COM Data Control

Table 37 lists a summary of the business component methods' syntax.

Table 37 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with InvokeMethod on the Business Component object, see "InvokeMethod Methods for the Business Component Object" on page 216.

Table 37. Business Component Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	<code>Dim busComp as Siebel BusComp BusComp.ActivateField(<i>fieldName</i> as String)</code>
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	<code>Dim busComp as Siebel BusComp busComp.ActivateMultipleFields(<i>propSet</i> as Siebel PropertySet)</code>
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	<code>Dim busComp as Siebel BusComp busComp.Associate(<i>whereIndicator</i> as Integer)</code>
BusObject Method	Returns the business object that contains the business component.	<code>Dim busComp as Siebel BusComp Dim busObject as Siebel BusObject Set busObject = busComp.BusObject</code>
ClearToQuery Method	Clears the current query and sort specifications on the business component.	<code>Dim busComp as Siebel BusComp busComp.ClearToQuery</code>
DeactivateFields Method	Deactivates every currently activated field.	<code>Dim busComp as Siebel BusComp busComp.DeactivateFields</code>
DeleteRecord Method	Removes the current record from the business component.	<code>Dim busComp as Siebel BusComp busComp.DeleteRecord</code>
ExecuteQuery Method	Retrieves a set of BusComp records.	<code>Dim buscomp as Siebel BusComp buscomp.ExecuteQuery(<i>cursorMode</i> As Integer) As Boolean</code>
ExecuteQuery2 Method	Retrieves a set of BusComp records.	<code>Dim buscomp as Siebel BusComp buscomp.ExecuteQuery2(<i>cursorMode</i> As Integer, <i>ignoreMaxCursorSize</i> As Integer) As Boolean</code>
FirstRecord Method	Moves to the first record in the business component.	<code>Dim busComp as Siebel BusComp Dim blsRecord as Boolean blsRecord = busComp.FirstRecord</code>

Table 37. Business Component Methods Syntax Summary

Method	Description	Syntax
GetFieldValue Method	Returns a value for the field specified in the argument.	<pre>Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFieldVal ue(<i>Field Name</i> as String)</pre>
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	<pre>Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFormattedFieldVal ue(<i>Field Name</i> as String)</pre>
GetLastErrCode Method	Returns the most recent error code.	<pre>Dim errCode As Integer Dim SiebApp as Siebel DataControl errCode=SiebApp.GetLastErrCode</pre>
GetLastErrText Method	Returns the most recent error text message.	<pre>Dim busComp as Siebel BusComp Dim sErr as String sErr = busComp.GetLastErrText</pre>
GetMultipleFieldValues Method	Returns a value for the fields specified in the property set.	<pre>Dim busComp as Siebel BusComp busComp.GetMultipleFieldVal ues(<i>Field Names</i> as Siebel PropertySet, <i>Field Values</i> as Siebel PropertySet)</pre>
GetMVGBusComp Method	Returns the MVG business component associated with the field specified in the argument.	<pre>Dim busComp as Siebel BusComp Dim mVGBusComp as Siebel BusComp set mVGBusComp = busComp.GetMVGBusComp(<i>Field Name</i> as String)</pre>
GetNamedSearch Method	Returns the argument-named search specification.	<pre>Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetNamedSearch(<i>SearchName</i> as String)</pre>
GetPicklistBusComp Method	Returns the pick business component associated with the field specified in the argument.	<pre>Dim busComp as Siebel BusComp Dim pickBusComp as Siebel BusComp Set pickBusComp = busComp.GetPicklistBusComp(<i>Field-Name</i> as String)</pre>
GetSearchExpr Method	Returns the current search expression.	<pre>Dim busComp as Siebel BusComp Dim sExpr as String sExpr = busComp.GetSearchExpr</pre>
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	<pre>Dim busComp as Siebel BusComp Dim sSpec as String sSpec = busComp.GetSearchSpec(<i>Field Name</i> as String)</pre>

Table 37. Business Component Methods Syntax Summary

Method	Description	Syntax
GetUserProperty Method	Returns the value of a named user property.	Dim buscomp as Siebel BusComp Dim retStr as String retStr = buscomp.GetUserProperty(prop As String) As String
GetViewMode Method	Returns the visibility mode for the business component.	Dim busComp as Siebel BusComp Dim iMode as Integer iMode = busComp.GetViewMode
InvokeMethod Method	Calls the specialized method named in the argument.	Dim busComp as Siebel BusComp Dim sReturn as String sReturn = busComp.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)
LastRecord Method	Moves to the last record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.LastRecord
Name Method	Returns the name of the business component.	Dim busComp as Siebel BusComp Dim sName as String sName = busComp.Name
NewRecord Method	Adds a new record to the business component.	Dim busComp as Siebel BusComp busComp.NewRecord(<i>whereIndicator</i> as Integer)
NextRecord Method	Moves to the next record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.NextRecord
ParentBusComp Method	Returns the parent business component.	Dim busComp as Siebel BusComp Dim parentBusComp as Siebel BusComp Set parentBusComp = busComp.ParentBusComp
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	Dim busComp as Siebel BusComp busComp.Pick
PreviousRecord Method	Moves to the previous record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.PreviousRecord
RefineQuery Method	Refines a query after a query has been executed.	Dim busComp as Siebel BusComp busComp.RefineQuery

Table 37. Business Component Methods Syntax Summary

Method	Description	Syntax
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<code>Dim busComp as Siebel BusComp busComp.SetFieldValue(<i>FieldName</i> as String, <i>FieldValue</i> as String)</code>
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	<code>Dim busComp as Siebel BusComp busComp.SetFormattedFieldValue(<i>FieldName</i> as String, <i>FieldValue</i> as String)</code>
SetMultipleFieldValues Method	Assigns a new value to the fields specified in the property set for the current row of the business component.	<code>Dim busComp as Siebel BusComp busComp.SetMultipleFieldValues(<i>oPropSet</i> as Siebel PropertySet)</code>
SetNameSearch Method	Sets a named search specification on the business component.	<code>Dim busComp as Siebel BusComp busComp.SetNameSearch(<i>searchName</i> as String, <i>searchSpec</i> as String)</code>
SetSearchExpr Method	Sets the search specification for the business component.	<code>Dim busComp as Siebel BusComp busComp.SetSearchExpr(<i>searchSpec</i> as String)</code>
SetSearchSpec Method	Sets the search specification for the specified field.	<code>Dim busComp as Siebel BusComp busComp.SetSearchSpec(<i>FieldName</i> as String, <i>searchSpec</i> as String)</code>
SetSortSpec Method	Sets the sort specification for a query.	<code>Dim busComp as Siebel BusComp busComp.SetSortSpec(<i>sortSpec</i> as String)</code>
SetUserProperty Method	Sets the value of a named user property.	<code>Dim buscomp as Siebel BusComp buscomp.SetUserProperty(<i>propertyName</i> as String, <i>newValue</i> as String)</code>
SetViewMode Method	Sets the visibility type for the business component.	<code>Dim buscomp as Siebel BusComp Dim boolVal as Boolean boolVal = buscomp.SetViewMode(<i>mode</i> As Integer)</code>
UndoRecord Method	Reverses any uncommitted changes made to the record.	<code>Dim busComp as Siebel BusComp busComp.UndoRecord</code>
WriteRecord Method	Commits to the database any changes made to the current record.	<code>Dim busComp as Siebel BusComp busComp.WriteRecord</code>

Business Object Methods for COM Data Control

Table 38 lists a summary of the business object methods' syntax.

Table 38. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	<pre>Dim busObject as Siebel BusObject Dim busComp as Siebel BusComp set busComp = BusObject.GetBusComp(<i>BusCompName</i> as String)</pre>
GetLastErrCode Method	Returns the most recent error code.	<pre>Dim busObject as Siebel BusObject Dim iErr as Integer iErr = busObject.GetLastErrCode</pre>
GetLastErrText Method	Returns the most recent error text.	<pre>Dim busObject as Siebel BusObject Dim sErr as String sErr = busObject.GetLastErrText</pre>
Name Method	Returns the name of the control.	<pre>Dim busObject as Siebel BusObject Dim sName as String sName = busObject.Name</pre>

Business Service Methods for COM Data Control

Table 39 lists a summary of the business service methods' syntax.

Table 39. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	<pre>Dim oService as Siebel Service Dim sName as String sName = oService.GetFirstProperty()</pre>
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	<pre>Dim oService as Siebel Service Dim sName as String sName = oService.GetNextProperty()</pre>
GetProperty Method	Retrieves the value stored in the specified property.	<pre>Dim oService as Siebel Service Dim sValue as String sValue = oService.GetProperty(<i>propName</i> as String)</pre>

Table 39. Business Service Methods Syntax Summary

Method	Description	Syntax
Name Method	Returns the name of the business service.	Dim oService as Siebel Service Dim sName as String sName = oService.Name
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	Dim oService as Siebel Service oService.InvokeMethod(methodName as String, InputArguments as Siebel PropertySet, OutputArguments as Siebel PropertySet)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oService as Siebel Service Dim propExists as Boolean propExists = oService.PropertyExists(propName as String)
RemoveProperty Method	Removes a property from a business service.	Dim oService as Siebel Service oService.RemoveProperty(propName as String)
SetProperty Method	Assigns a value to a property of a business service.	Dim oService as Siebel Service oService.SetProperty(propName as String, propValue as String)

Property Set Methods for COM Data Control

Table 40 lists a summary of the property set methods' syntax.

Table 40. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	Dim oPropSet as Siebel PropertySet Dim iIndex as Integer iIndex = oPropSet.AddChild(childObject as PropertySet)
Copy Method	Returns a copy of a property set.	Dim oPropSet1 as Siebel PropertySet Dim oPropSet2 as Siebel PropertySet oPropSet2 = oPropSet1.Copy()
GetChild Method	Returns a specified child property set of a property set.	Dim oPropSet as Siebel PropertySet Dim oPropSet1 as Siebel PropertySet oPropSet1 = oPropSet.GetChild(index as Integer)
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	Dim oPropSet as Siebel PropertySet Dim iCount as Integer iCount = oPropSet.GetChildCount()

Table 40. Property Set Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Returns the name of the first property in a property set.	Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetFirstProperty()
GetNextProperty Method	Returns the name of the next property in a property set.	Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetNextProperty()
GetProperty Method	Returns the value of a property when given the property name.	Dim oPropSet as Siebel PropertySet Dim sPropVal as String sPropVal = oPropSet.GetProperty(<i>propName</i> as String)
GetPropertyCount Method	Returns the number of properties attached to a property set.	Dim oPropSet as Siebel PropertySet Dim count as Long count = oPropSet.GetPropertyCount
GetType Method	Returns the value stored in a type in a property set.	Dim oPropSet as Siebel PropertySet Dim sTypeVal as String sTypeVal = oPropSet.GetType()
GetValue Method	Returns a value stored as part of a property set.	Dim oPropSet as Siebel PropertySet Dim sValVal as String sValVal = oPropSet.GetValue()
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	Dim oPropSet as Siebel PropertySet oPropSet.InsertChildAt(<i>childObject</i> as Siebel PropertySet, <i>index</i> as Long)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oPropSet as Property Set Dim propExists as Boolean propExists = oPropSet.PropertyExists(<i>propName</i> as String)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveChild(<i>index</i> as Long)
RemoveProperty Method	Removes the property specified in its argument from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveProperty(<i>propName</i> as String)
Reset Method	Removes every property and child property set from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.Reset()
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	Dim oPropSet as Siebel PropertySet oPropSet.SetProperty(<i>propName</i> as String, <i>propValue</i> as String)

Table 40. Property Set Methods Syntax Summary

Method	Description	Syntax
SetType Method	Assigns a data value to a type member of a property set.	<code>Dim oPropSet as Siebel PropertySet oPropSet.SetType(<i>value</i> as String)</code>
SetValue Method	Assigns a data value to a value member of a property set.	<code>Dim oPropSet as Siebel PropertySet oPropSet.SetValue(<i>value</i> as String)</code>

7

COM Data Server Quick Reference

This chapter provides a quick reference for Siebel COM Data Server methods. It has the following topics:

- [“Application Methods for COM Data Server”](#)
- [“Business Component Methods for COM Data Server” on page 346](#)
- [“Business Object Methods for COM Data Server” on page 350](#)
- [“Business Service Methods for COM Data Server” on page 351](#)
- [“Property Set Methods for COM Data Server” on page 352](#)

Application Methods for COM Data Server

Table 41 lists a summary of the application methods' syntax.

Table 41 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with `InvokeMethod` on the Application object, see [“InvokeMethod Methods for the Application Object” on page 143](#).

Table 41. Application Methods Syntax Summary

Method	Description	Syntax
CurrencyCode Method	Returns the three-letter operating currency code.	<pre>Dim application as Siebel Application Dim sCur as String sCur = Application.CurrencyCode(ErrCode as Integer)</pre>
GetBusObject Method	Instantiates and returns a new instance of the business object specified in the argument.	<pre>Dim application as Siebel Application Dim busObject as Siebel BusObject set busObject = application.GetBusObject(<i>busobj Name</i> as String, ErrCode as Integer)</pre>
GetLastErrText Method	Returns the last error text message.	<pre>Dim application as Siebel Application Dim sText as String sText = application.GetLastErrText(ErrCode as Integer)</pre>

Table 41. Application Methods Syntax Summary

Method	Description	Syntax
GetProfileAttr Method	Returns the value of an attribute in a user profile.	Dim application as Siebel Application Dim sText as String sText = application.GetProfileAttr(Name as String)
GetService Method	Instantiates and returns a new instance of the argument-specified service.	Dim Application as Siebel Application Dim Service as Siebel Service set Service = Application.GetService(serviceName as String, ErrCode as Integer)
GetSharedGlobal Method	Gets the shared user-defined global variables.	Dim application as Siebel Application Dim sName as String sName = application.GetSharedGlobal(varName as String, ErrCode as Integer)
InvokeMethod Method	Calls the named specialized method.	Dim application as Siebel Application application.InvokeMethod(methodName as String, methodArgs as String or StringArray)
LoadObjects Method	Starts the COM Data Server object and returns a reference to the Application object.	Dim application as Siebel Application application.LoadObjects(pathName\cfgFile Name as String, ErrCode as Integer)
Login Method	Allows external applications to log in to the COM Data Server.	Dim application as Siebel Application application.Login(userName as String, password as String, ErrCode as Integer)
LoginId Method	Returns the login ID of the user who started the Siebel application.	Dim application as Siebel Application Dim sID as String sID = application.LoginId(ErrCode as Integer)
LoginName Method	Returns the login name of the user who started the Siebel application.	Dim application as Siebel Application Dim sUser as String sUser = application.LoginName(ErrCode as Integer)
NewPropertySet Method	Constructs and returns a new property set object.	Dim oApplication as Siebel Application Dim oPropSet as Siebel PropertySet oPropSet = oApplication.NewPropertySet()
PositionId Method	Returns the position ID that describes the user's current position.	Dim application as Siebel Application Dim sRow as String sRow = application.PositionId(ErrCode as Integer)

Table 41. Application Methods Syntax Summary

Method	Description	Syntax
PositionName Method	Returns the position name of the user's current position.	Dim application as Siebel Application Dim sPosition as String sPosition = application.PositionName(ErrCode as Integer)
SetPositionId Method	Sets the active position to the position ID specified in the argument. Returns a Boolean value indicating if the method succeeded.	Dim application as Siebel Application Dim posId as String Dim status as Boolean status = application.SetPositionId(posId as String, ErrCode as Integer)
SetPositionName Method	Sets the active position to the position name specified in the argument. Returns a Boolean value indicating if the method succeeded.	Dim application as Siebel Application Dim posName as String Dim status as Boolean status = application.SetPositionName(posName as String, ErrCode as Integer)
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	Dim application as Siebel Application application.SetProfileAttr(<i>name</i> as String, <i>value</i> as String, ErrCode as Integer)
SetSharedGlobal Method	Sets a shared user-defined global variable.	Dim application as Siebel Application application.SetSharedGlobal(<i>varName</i> as String, <i>value</i> as String, ErrCode as Integer)
Trace Method	Appends a message to the trace file.	Dim application as Siebel Application application.Trace(<i>message</i> as String, ErrCode as Integer)
TraceOff Method	Turns off the tracing started by TraceOn.	Dim application as Siebel Application application.TraceOff(ErrCode as Integer)
TraceOn Method	Turns tracing on	Dim application as Siebel Application application.TraceOn(<i>filename</i> as String, <i>type</i> as Integer, <i>Selection</i> as String, ErrCode as Integer)

Business Component Methods for COM Data Server

Table 42 lists a summary of the business component methods' syntax.

NOTE: Table 42 does not include methods that are called with `InvokeMethod`. For information on methods that are called with `InvokeMethod` on the Business Component object, see "InvokeMethod Methods for the Business Component Object" on page 216.

Table 42. Business Component Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	<code>Dim busComp as Siebel BusComp busComp.ActivateField(<i>Field</i> as String, <i>ErrCode</i> as Integer)</code>
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	<code>Dim busComp as Siebel BusComp busComp.ActivateMultipleFields(<i>oPropSet</i> as Siebel PropertySet, <i>ErrCode</i> as Integer)</code>
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	<code>Dim busComp as Siebel BusComp busComp.Associate(<i>whereIndicator</i> as Integer, <i>ErrCode</i> as Integer)</code>
BusObject Method	Returns the business object that contains the business component.	<code>Dim busComp as Siebel BusComp Dim busObject as BusObject Set busObject = busComp.BusObject(<i>ErrCode</i> as Integer)</code>
ClearToQuery Method	Clears the current query and sort specifications on the business component.	<code>Dim busComp as Siebel BusComp busComp.ClearToQuery(<i>ErrCode</i> as Integer)</code>
DeactivateFields Method	Deactivates every currently activated field.	<code>Dim busComp as Siebel BusComp busComp.DeactivateFields(<i>ErrCode</i> as Integer)</code>
DeleteRecord Method	Removes the current record from the business component.	<code>Dim busComp as Siebel BusComp busComp.DeleteRecord(<i>ErrCode</i> as Integer)</code>
ExecuteQuery Method	Retrieves a set of BusComp records.	<code>Dim busComp as Siebel BusComp busComp.ExecuteQuery(<i>cursorMode</i> as Boolean, <i>ErrCode</i> as Integer)</code>
ExecuteQuery2 Method	Retrieves a set of BusComp records.	<code>Dim busComp as Siebel BusComp busComp.ExecuteQuery2(<i>cursorMode</i> as Boolean, <i>ignoreMaxCursorSize</i> as Boolean, <i>ErrCode</i> as Integer)</code>

Table 42. Business Component Methods Syntax Summary

Method	Description	Syntax
FirstRecord Method	Moves to the first record in the business component.	Dim busComp as Siebel BusComp Dim blsRecord as Boolean blsRecord = busComp.FirstRecord(ErrCode as Integer)
FirstSelected Method	Moves to the first record of the multiple selection in the business component.	Dim busComp as Siebel BusComp Dim iRecord as Integer iRecord = busComp.FirstSelected
GetAssocBusComp Method	Returns the association business component.	Dim busComp as Siebel BusComp Dim AssocBusComp as BusComp Set AssocBusComp = busComp.GetAssocBusComp(ErrCode as Integer)
GetFieldValue Method	Returns a value for the field specified in the argument.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFieldValue(<i>FieldName</i> as String, ErrCode as Integer)
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFormattedFieldValue(<i>FieldName</i> as String, ErrCode as Integer)
GetMultipleFieldValues Method	Returns a value for the fields specified in the property set.	Dim busComp as Siebel BusComp Dim retValue as Boolean retValue = busComp.GetMultipleFieldValues(<i>oPropSetName</i> as Siebel PropertySet, <i>oPropSetValue</i> as Siebel PropertySet, ErrCode as Integer)
GetMVGBusComp Method	Returns the MVG business component associated with the field specified in the argument.	Dim busComp as Siebel BusComp Dim mVGBusComp as Siebel BusComp set mVGBusComp = busComp.GetMVGBusComp(<i>FieldName</i> as String, ErrCode as Integer)
GetNamedSearch Method	Returns the argument-named search specification.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetNamedSearch(<i>SearchName</i> as String, ErrCode as Integer)

Table 42. Business Component Methods Syntax Summary

Method	Description	Syntax
GetPicklistBusComp Method	Returns the pick business component associated with the field specified in the argument.	Dim busComp as Siebel BusComp Dim pickBusComp as Siebel BusComp Set pickBusComp = busComp.GetPicklistBusComp(<i>Field Name</i> as String, ErrCode as Integer)
GetSearchExpr Method	Returns the current search expression.	Dim busComp as Siebel BusComp Dim sExpr as String sExpr = busComp.GetSearchExpr(ErrCode as Integer)
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	Dim busComp as BusComp Dim sSpec as String sSpec = busComp.GetSearchSpec(<i>Field Name</i> as String, ErrCode as Integer)
GetUserProperty Method	Returns the value for the property name whose name is specified in the argument.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetUserProperty(<i>propertyName</i> as String, ErrCode as Integer)
GetViewMode Method	Returns the visibility mode for the business component.	Dim busComp as Siebel BusComp Dim iMode as Integer iMode = busComp.GetViewMode(ErrCode as Integer)
LastRecord Method	Moves to the last record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.LastRecord(ErrCode as Integer)
Name Method	Returns the name of the business component.	Dim busComp as Siebel BusComp Dim sName as String sName = busComp.Name(ErrCode as Integer)
NewRecord Method	Adds a new record to the business component.	Dim busComp as Siebel BusComp busComp.NewRecord(<i>whereIndicator</i> as Integer, ErrCode as Integer)
NextRecord Method	Moves to the next record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.NextRecord(ErrCode as Integer)

Table 42. Business Component Methods Syntax Summary

Method	Description	Syntax
ParentBusComp Method	Returns the parent business component.	Dim busComp as Siebel BusComp Dim parentBusComp as Siebel BusComp Set parentBusComp = busComp.ParentBusComp(ErrCode as Integer)
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	Dim busComp as Siebel BusComp busComp.Pick(ErrCode as Integer)
PreviousRecord Method	Moves to the previous record in the business component.	Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.PreviousRecord(ErrCode as Integer)
RefineQuery Method	Refines a query after a query has been executed.	Dim busComp as Siebel BusComp busComp.RefineQuery(ErrCode as Integer)
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	Dim busComp as Siebel BusComp SetFieldVal ue(fi el dname As String, fi el dVal ue As string, errCode as Integer)
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	Dim busComp as Siebel BusComp busComp.SetFormattedFi el dVal ue(<i>Fi el dName</i> as String, <i>Fi el dVal ue</i> as String, ErrCode as Integer)
SetMultipleFieldValues Method	Assigns a new value to the fields specified in the property set for the current row of the business component.	Dim buscomp as Siebel BusComp buscomp.SetMul ti pl eFi el dVal ues(oPr opSet as Siebel PropertySet, ErrCode as Integer)
SetNamedSearch Method	Sets a named search specification on the business component.	Dim busComp as Siebel BusComp busComp.SetNamedSearch(<i>searchName</i> as String, <i>searchSpec</i> as String, ErrCode as Integer)
SetSearchExpr Method	Sets the search specification for the business component.	Dim busComp as Siebel BusComp busComp.SetSearchExpr(<i>searchSpec</i> as String, ErrCode as Integer)

Table 42. Business Component Methods Syntax Summary

Method	Description	Syntax
SetSearchSpec Method	Sets the search specification for the specified field.	Dim busComp as Siebel BusComp busComp.SetSearchSpec(<i>FieldName</i> as String, <i>searchSpec</i> as String, <i>ErrCode</i> as Integer)
SetSortSpec Method	Sets the sort specification for a query.	Dim busComp as Siebel BusComp busComp.SetSortSpec(<i>sortSpec</i> as String, <i>ErrCode</i> as Integer)
SetUserProperty Method	Sets the value of the specified User Property.	Dim busComp as Siebel BusComp busComp.SetUserProperty(<i>propertyName</i> as String, <i>newValue</i> as String, <i>ErrCode</i> as Integer)
SetViewMode Method	Sets the visibility type for the business component.	Dim buscomp as Siebel BusComp buscomp.SetViewMode(<i>mode</i> As Integer, <i>errCode</i> As Integer)
UndoRecord Method	Reverses any uncommitted changes made to the record.	Dim busComp as Siebel BusComp busComp.UndoRecord(<i>ErrCode</i> as Integer)
WriteRecord Method	Commits to the database any changes made to the current record	Dim busComp as Siebel BusComp busComp.WriteRecord(<i>ErrCode</i> as Integer)

Business Object Methods for COM Data Server

Table 43 lists a summary of the business object methods' syntax.

Table 43. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	Dim busObject as Siebel BusObject Dim busComp as Siebel BusComp set busComp = busObject.GetBusComp(<i>BusCompName</i> as String, <i>ErrCode</i> as Integer)
Name Method	Returns the name of the control.	Dim busObject as Siebel BusObject Dim sName as String sName = busObject.Name(<i>ErrCode</i> as Integer)

Business Service Methods for COM Data Server

Table 44 lists a summary of the business service methods' syntax.

Table 44. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	Dim oService as Siebel Service Dim sName as String sName = oService.GetFirstProperty(ErrCode as Integer)
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	Dim oService as Siebel Service Dim sName as String sName = oService.GetNextProperty(ErrCode as Integer)
GetProperty Method	Retrieves the value stored in the specified property.	Dim oService as Siebel Service Dim sValue as String sValue = oService.GetProperty(<i>propName</i> as String, ErrCode as Integer)
Name Method	Returns the name of the business service.	Dim oService as Siebel Service Dim sName as String sName = oService.Name
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	Dim oService as Siebel Service oService.InvokeMethod(methodName as String, InputArguments as Siebel PropertySet, OutputArguments as Siebel PropertySet, ErrCode as Integer)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oService as Siebel Service Dim propExists as Boolean propExists = oService.PropertyExists(<i>propName</i> as String)
RemoveProperty Method	Removes a property from a business service.	Dim oService as Siebel Service oService.RemoveProperty(<i>propName</i> as String, ErrCode as Integer)
SetProperty Method	Assigns a value to a property of a business service.	Dim oService as Siebel Service oService.SetProperty(<i>propName</i> as String, <i>propValue</i> as String, ErrCode as Integer)

Property Set Methods for COM Data Server

Table 45 lists a summary of the property set methods' syntax.

Table 45. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	Dim oPropSet as Siebel PropertySet Dim iIndex as Integer iIndex = oPropSet.AddChild(childObject as Property Set, errCode as Integer)
Copy Method	Returns a copy of a property set.	Dim oPropSet1 as Siebel PropertySet Dim oPropSet2 as Siebel PropertySet oPropSet2 = oPropSet1.Copy(errCode as Integer)
GetChild Method	Returns a specified child property set of a property set.	Dim oPropSet as Siebel PropertySet Dim oChildPropSet as Siebel PropertySet oChildPropSet = oPropSet.GetChild(index as Integer, ErrCode as Integer)
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	Dim oPropSet as Siebel PropertySet Dim iCount as Integer iCount = oPropSet.GetChildCount(errCode as Integer)
GetFirstProperty Method	Returns the name of the first property in a property set.	Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetFirstProperty(errCode as Integer)
GetNextProperty Method	Returns the name of the next property in a property set.	Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetNextProperty(errCode as Integer)
GetProperty Method	Returns the value of a property when given the property name.	Dim oPropSet as Siebel PropertySet Dim sPropVal as String sPropVal = oPropSet.GetProperty(propName as String, ErrCode as Integer)
GetPropertyCount Method	Returns the number of properties contained within the property set.	Dim oPropSet as Siebel PropertySet Dim propCount as Integer propCount = oPropSet.GetPropertyCount(errCode as Integer)

Table 45. Property Set Methods Syntax Summary

Method	Description	Syntax
GetType Method	Returns the value stored in a type in a property set.	Dim oPropSet as Siebel PropertySet Dim sTypeVal as String sTypeVal = oPropSet.GetType(<i>value</i> as String)
GetValue Method	Returns a value stored as part of a property set.	Dim oPropSet as Siebel PropertySet Dim sValVal as String sValVal = oPropSet.GetValue(<i>ErrCode</i> as Integer)
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	Dim oPropSet as Siebel PropertySet oPropSet.InsertChildAt(<i>childObject</i> as String, <i>index</i> as Integer, <i>ErrCode</i> as Integer)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oPropSet as Siebel PropertySet Dim propExists as Boolean propExists = oPropSet.PropertyExists(<i>propName</i> as String, <i>ErrCode</i> as Integer)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveChild(<i>index</i> as Integer, <i>errCode</i> as Integer)
RemoveProperty Method	Removes the property specified in its argument from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveProperty(<i>propName</i> as String, <i>ErrCode</i> as Integer)
Reset Method	Removes every property and child property set from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.Reset(<i>ErrCode</i> as Integer)
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	Dim oPropSet as Siebel PropertySet oPropSet.SetProperty(<i>propName</i> as String, <i>propValue</i> as String, <i>ErrCode</i> as Integer)
SetType Method	Assigns a data value to a type member of a property set.	Dim oPropSet as Siebel PropertySet oPropSet.SetType(<i>value</i> as String, <i>ErrCode</i> as Integer)
SetValue Method	Assigns a data value to a value member of a property set.	Dim oPropSet as Siebel PropertySet oPropSet.SetValue(<i>value</i> as String, <i>errCode</i> as Integer)

8

Mobile Web Client Automation Server Quick Reference

This chapter provides a quick reference for Siebel Mobile Web Client Automation Server methods. It has the following topics:

- [“Application Methods for Mobile Web Client Automation Server”](#)
- [“Business Component Methods for Mobile Web Client Automation Server” on page 358](#)
- [“Business Object Methods for Mobile Web Client Automation Server” on page 362](#)
- [“Business Service Methods for Mobile Web Client Automation Server” on page 363](#)
- [“Property Set Methods for Mobile Web Client Automation Server” on page 364](#)

Application Methods for Mobile Web Client Automation Server

Table 46 lists a summary of the application methods' syntax.

Table 46 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with InvokeMethod on the Application object, see [“InvokeMethod Methods for the Application Object” on page 143](#).

Table 46. Application Methods Syntax Summary

Method	Description	Syntax
ActiveBusObject Method	Returns the business object for the business component of the active applet.	<code>Dim application as Siebel WebApplication Dim busObject as Siebel BusObject Set busObject = application.ActiveBusObject</code>
ActiveViewName Method	Returns the name of the active view.	<code>Dim application as Siebel WebApplication Dim sView as String sView = application.ActiveViewName</code>
CurrencyCode Method	Returns the three-letter operating currency code.	<code>Dim application as Siebel WebApplication Dim sCur as String sCur = Application.CurrencyCode</code>
EnableExceptions Method	Enables or disables native COM error handling.	<code>Dim application as Siebel WebApplication application.EnableExceptions(bEnable as Boolean)</code>

Table 46. Application Methods Syntax Summary

Method	Description	Syntax
GetBusObject Method	Instantiates and returns a new instance of the business object specified in the argument.	<code>Dim application as Siebel WebApplication Dim busObject as Siebel BusObject set busObject = application.GetBusObject(<i>busobj Name</i> as String)</code>
GetLastErrCode Method	Gets the last error code.	<code>Dim application as Siebel WebApplication Dim iErr as Integer iErr = application.GetLastErrCode</code>
GetLastErrText Method	Returns the last error text message.	<code>Dim application as Siebel WebApplication Dim sText as String sText = application.GetLastErrText</code>
GetProfileAttr Method	Returns the value of an attribute in a user profile.	<code>Dim application as Siebel WebApplication Dim profValue as String profValue = application.GetProfileAttr(<i>profName</i> as String)</code>
GetService Method	Instantiates and returns a new instance of the argument-specified service.	<code>Dim application as Siebel WebApplication Dim oService as Siebel Service set oService = Application.GetService(<i>serviceName</i> as String)</code>
GetSharedGlobal Method	Returns the shared user-defined global variables.	<code>Dim application as Siebel WebApplication Dim name as String name = application.GetSharedGlobal(<i>sName</i> as String)</code>
InvokeMethod Method	Calls the named specialized method.	<code>Dim application as Siebel WebApplication application.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)</code>
Login Method	Allows external applications to log in to the Mobile Web Client Automation Server.	<code>Dim application as Siebel WebApplication Dim sErr as String sErr = application.Login(<i>connectString</i> as String, <i>userName</i> as String, <i>password</i> as String)</code>
LoginId Method	Returns the login ID of the user who started the Siebel application.	<code>Dim application as Siebel WebApplication Dim sID as string sID = application.LoginId</code>
LoginName Method	Returns the login name of the user who started the Siebel application.	<code>Dim application as Siebel WebApplication Dim sUser as String sUser = application.LoginName</code>
Logoff Method	Terminates the Mobile Web Client session.	<code>Dim application as Siebel WebApplication Dim status as Boolean Status = application.Logoff</code>

Table 46. Application Methods Syntax Summary

Method	Description	Syntax
NewPropertySet Method	Constructs a new property set object.	Dim application as Siebel WebApplication Dim propset As Siebel PropertySet set propset = application.NewPropertySet
PositionId Method	Returns the position ID that describes the user's current position.	Dim application as Siebel WebApplication Dim sRow as String sRow = application.PositionId
PositionName Method	Returns the position name of the user's current position.	Dim application as Siebel WebApplication Dim sPosition as String sPosition = application.PositionName
SetPositionId Method	Sets the active position to the Position ID specified in the argument.	Dim application as Siebel WebApplication Dim posId as String Dim status as Boolean status = application.SetPositionId(posId)
SetPositionName Method	Sets the active position to the position name specified in the argument.	Dim application as Siebel WebApplication Dim posName as String Dim status as Boolean status = application.SetPositionName(posName)
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	Dim oApplication as Siebel WebApplication Dim bool as Boolean bool = oApplication.SetProfileAttr(<i>name</i> as String, <i>value</i> as String)
SetSharedGlobal Method	Sets a shared user-defined global variable.	Dim application as Siebel WebApplication Dim bool as Boolean bool = application.SetSharedGlobal(<i>varName</i> as String, <i>value</i> as String)
Trace Method	Appends a message to the trace file.	Dim application as Siebel WebApplication application.Trace(<i>message</i> as String)
TraceOff Method	Turns off the tracing started by TraceOn.	Dim application as Siebel WebApplication Dim bool as Boolean bool = application.TraceOff
TraceOn Method	Turns tracing on.	Dim application as Siebel WebApplication Dim bool as Boolean bool = application.TraceOn(<i>filename</i> as String, <i>type</i> as String, <i>selection</i> as String)

Business Component Methods for Mobile Web Client Automation Server

Table 47 lists a summary of the business component methods' syntax.

Table 47 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with InvokeMethod on the Business Component object, see "InvokeMethod Methods for the Business Component Object" on page 216.

Table 47. Business Component Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	Dim busComp as Siebel BusComp BusComp.ActivateField(<i>fieldName</i> as String)
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	Dim busComp as Siebel BusComp busComp.ActivateMultipleFields(<i>oPropSet</i> as Siebel PropertySet)
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	Dim busComp as Siebel BusComp busComp.Associate(<i>whereIndicator</i> as Integer)
BusObject Method	Returns the business object that contains the business component.	Dim busComp as Siebel BusComp Dim busObject as Siebel BusObject Set BusObject = busComp.BusObject
ClearToQuery Method	Clears the current query and sort specifications on the business component.	Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.ClearToQuery
DeactivateFields Method	Deactivates every currently activated field.	Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.DeactivateFields
DeleteRecord Method	Removes the current record from the business component.	Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.DeleteRecord
ExecuteQuery Method	Retrieves a set of BusComp records.	Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.ExecuteQuery(<i>cursorMode</i> as Integer)

Table 47. Business Component Methods Syntax Summary

Method	Description	Syntax
ExecuteQuery2 Method	Retrieves a set of BusComp records.	Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.ExecuteQuery2(<i>cursorMode</i> as Integer, <i>ignoreMaxCursorSize</i> as Boolean)
FirstRecord Method	Moves to the first record in the business component.	Dim busComp as Siebel BusComp Dim blsRecord as Boolean blsRecord = busComp.FirstRecord
GetAssocBusComp Method	Returns the association business component.	Dim busComp as Siebel BusComp Dim AssocBusComp as Siebel BusComp Set AssocBusComp = busComp.GetAssocBusComp
GetFieldValue Method	Returns a value for the field specified in the argument.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFieldValue(<i>FieldName</i> as String)
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetFormattedFieldValue(<i>FieldName</i> as String)
GetLastErrCode Method	Returns the last Siebel error number.	Dim buscomp as Siebel BusComp Dim iErr as Integer iErr = buscomp.GetLastErrCode
GetLastErrText Method	Returns the last error text message.	Dim busComp as Siebel BusComp Dim sErr as String sErr = busComp.GetLastErrText
GetMultipleFieldValues Method	Returns a value for the fields specified in the property set.	Dim buscomp as Siebel BusComp buscomp.GetMultipleFieldValues(<i>oPropSet</i> as Siebel PropertySet, PValues as Siebel PropertySet)
GetMVGBusComp Method	Returns the MVG business component associated with the field specified in the argument.	Dim busComp as Siebel BusComp Dim mVGBusComp as Siebel BusComp set mVGBusComp = busComp.GetMVGBusComp(<i>FieldName</i> as String)
GetNamedSearch Method	Returns the argument-named search specification.	Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetNamedSearch(<i>SearchName</i> as String)

Table 47. Business Component Methods Syntax Summary

Method	Description	Syntax
GetPicklistBusComp Method	Returns the pick business component associated with the field specified in the argument.	<code>Dim busComp as Siebel BusComp Dim pickBusComp as Siebel BusComp Set pickBusComp = busComp.GetPicklistBusComp(<i>Field Name</i> as String)</code>
GetSearchExpr Method	Returns the current search expression.	<code>Dim busComp as Siebel BusComp Dim sExpr as String sExpr = busComp.GetSearchExpr</code>
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	<code>Dim busComp as Siebel BusComp Dim sSpec as String sSpec = busComp.GetSearchSpec(<i>FieldName</i> as String)</code>
GetUserProperty Method	Returns the value for the property name specified in the argument.	<code>Dim busComp as Siebel BusComp Dim sValue as String sValue = busComp.GetUserProperty(<i>propertyName</i> as String)</code>
GetViewMode Method	Returns the visibility mode for the business component.	<code>Dim busComp as Siebel BusComp Dim iMode as Integer iMode = busComp.GetViewMode</code>
InvokeMethod Method	Calls the specialized method named in the argument.	<code>Dim busComp as Siebel BusComp Dim sReturn as String sReturn = busComp.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)</code>
LastRecord Method	Moves to the last record in the business component.	<code>Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.LastRecord</code>
Name Method	Returns the name of the business component.	<code>Dim busComp as Siebel BusComp Dim sName as String sName = busComp.Name</code>
NewRecord Method	Adds a new record to the business component.	<code>Dim busComp as Siebel BusComp Dim bool as Boolean bool = busComp.NewRecord(<i>whereIndicator</i> as Integer)</code>
NextRecord Method	Moves to the next record in the business component.	<code>Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.NextRecord</code>
ParentBusComp Method	Returns the parent business component.	<code>Dim busComp as Siebel BusComp Dim parentBusComp as Siebel BusComp Set parentBusComp = busComp.ParentBusComp</code>

Table 47. Business Component Methods Syntax Summary

Method	Description	Syntax
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	<code>Dim busComp as Siebel BusComp busComp.Pi ck</code>
PreviousRecord Method	Moves to the previous record in the business component.	<code>Dim busComp as Siebel BusComp Dim bReturn as Boolean bReturn = busComp.PreviousRecord</code>
RefineQuery Method	Refines a query after a query has been executed.	<code>Dim busComp as Siebel BusComp busComp.Refi neQuery</code>
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<code>Dim busComp as Siebel BusComp busComp.SetFi el dVal ue(<i>Fi el dName</i> as String, <i>Fi el dVal ue</i> as String)</code>
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	<code>Dim busComp as Siebel BusComp busComp.SetFormattedFi el dVal ue(<i>Fi el dName</i> as String, <i>Fi el dVal ue</i> as String)</code>
SetMultipleFieldValues Method	Assigns a new value to the fields specified in the property set for the current row of the business component.	<code>Dim buscomp as Siebel BusComp buscomp.SetMul ti pl eFi el dVal ues(oP ropSet as Siebel PropertySet)</code>
SetNamedSearch Method	Sets a named search specification on the business component.	<code>Dim busComp as Siebel BusComp busComp.SetNamedSearch(<i>searchName</i> as String, <i>searchSpec</i> as String)</code>
SetSearchExpr Method	Sets the search expression for the business component.	<code>Dim busComp as Siebel BusComp busComp.SetSearchExpr(<i>searchSpec</i> as String)</code>
SetSearchSpec Method	Sets the search specification for the specified field.	<code>Dim busComp as Siebel BusComp busComp.SetSearchSpec(<i>Fi el dName</i> as String, <i>searchSpec</i> as String)</code>
SetSortSpec Method	Sets the sort specification for a query.	<code>Dim busComp as Siebel BusComp busComp.SetSortSpec(<i>sortSpec</i> as String)</code>
SetUserProperty Method	Sets the value of the specified User Property.	<code>Dim busComp as Siebel BusComp busComp.SetUserProperty(<i>propertyName</i> as String, <i>newValue</i> as String)</code>

Table 47. Business Component Methods Syntax Summary

Method	Description	Syntax
SetViewMode Method	Sets the visibility type for the business component.	<code>Dim buscomp as Siebel BusComp buscomp.SetViewMode(mode As Integer)</code>
UndoRecord Method	Reverses any uncommitted changes made to the record.	<code>Dim busComp as Siebel BusComp busComp.UndoRecord</code>
WriteRecord Method	Commits to the database any changes made to the current record.	<code>Dim busComp as Siebel BusComp busComp.WriteRecord</code>

Business Object Methods for Mobile Web Client Automation Server

Table 48 lists a summary of the business object methods' syntax.

Table 48. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	<code>Dim busObject as Siebel BusObject Dim busComp as Siebel BusComp set busComp = busObject.GetBusComp(<i>BusCompName</i> as String)</code>
GetLastErrCode Method	Returns the last Siebel error number.	<code>Dim busobject as Siebel BusObject Dim iErr as Integer iErr = busobject.GetLastErrCode</code>
GetLastErrText Method	Returns the last error text message.	<code>Dim busobject as Siebel BusObject Dim sValue as String sValue= busobject.GetLastErrText</code>
Name Method	Returns the name of the business object.	<code>Dim busObject as Siebel BusObject Dim sName as String sName = busObject.Name</code>

Business Service Methods for Mobile Web Client Automation Server

Table 49 lists a summary of the business service methods' syntax.

Table 49. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	Dim oService as Siebel Service Dim sName as String sName = oService.GetFirstProperty
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	Dim oService as Siebel Service Dim sName as String sName = oService.GetNextProperty
GetProperty Method	Retrieves the value stored in the specified property.	Dim oService as Siebel Service Dim sValue as String sValue = oService.GetProperty(<i>propName</i> as String)
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	Dim oService as Siebel Service oService.InvokeMethod(<i>methodName</i> as String, <i>InputArguments</i> as Siebel PropertySet, <i>OutputArguments</i> as Siebel PropertySet)
Name Method	Returns the name of the business service.	Dim oService as Siebel Service Dim sName as String sName = oService.Name
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oService as Siebel Service Dim bool as Boolean bool = oService.PropertyExists(<i>propName</i> as String)
RemoveProperty Method	Removes a property from a business service.	Dim oService as Siebel Service oService.RemoveProperty <i>propName</i> as String
SetProperty Method	Assigns a value to a property of a business service.	Dim oService as Siebel Service oService.SetProperty(<i>propName</i> as String, <i>propValue</i> as String)

Property Set Methods for Mobile Web Client Automation Server

Table 50 lists a summary of the property set methods' syntax.

Table 50. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	<code>Dim oPropSet as Siebel Propertyset oPropSet.AddChild(<i>childObject</i> as Siebel PropertySet)</code>
Copy Method	Returns a copy of a property set.	<code>Dim oPropSet1 as Siebel Propertyset Dim oPropSet2 as Siebel Propertyset set oPropSet2 = oPropSet1.Copy</code>
GetChild Method	Returns a specified child property set of a property set.	<code>Dim oPropSet as Siebel PropertySet Dim childPropSet as Siebel PropertySet set childPropSet = oPropSet.GetChild(<i>index</i> as Long)</code>
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	<code>Dim oPropSet as Siebel PropertySet Dim iCount as Long iCount = oPropSet.GetChildCount</code>
GetFirstProperty Method	Returns the name of the first property in a property set.	<code>Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetFirstProperty</code>
GetNextProperty Method	Returns the last Siebel error number.	<code>Dim oPropSet as Siebel PropertySet Dim iErr as Integer iErr = oPropSet.GetLastErrorCode</code>
GetLastErrText Method	Returns the last error text message.	<code>Dim oPropSet as Siebel PropertySet Dim sValue as String sValue = oPropSet.GetLastErrorText</code>
GetNextProperty Method	Returns the name of the next property in a property set.	<code>Dim oPropSet as Siebel PropertySet Dim sPropName as String sPropName = oPropSet.GetNextProperty</code>
GetProperty Method	Returns the value of a property when given the property name.	<code>Dim oPropSet as Siebel PropertySet Dim sPropVal as String sPropVal = oPropSet.GetProperty(<i>propName</i> as String)</code>
GetPropertyCount Method	Returns the number of properties contained within the property set.	<code>Dim oPropSet as Siebel PropertySet Dim iCount as Long iCount = oPropSet.GetPropertyCount</code>

Table 50. Property Set Methods Syntax Summary

Method	Description	Syntax
GetType Method	Retrieves the data value stored in the type attribute of a property set.	Dim oPropSet as Siebel PropertySet Dim sTypeVal as String sTypeVal = oPropSet.GetType
GetValue Method	Retrieves the data value stored in the value attribute of a property set.	Dim oPropSet as Siebel PropertySet Dim sValVal as String sValVal = oPropSet.GetValue
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	Dim oPropSet as Siebel PropertySet oPropSet.InsertChildAt(<i>childObject</i> as Siebel PropertySet, <i>index</i> as Long)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oPropSet as Siebel PropertySet Dim bool as Boolean bool = oPropSet.PropertyExists(<i>propName</i> as String)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveChild(<i>index</i> as Long)
RemoveProperty Method	Removes the property specified in its argument from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.RemoveProperty(<i>propName</i> as String)
Reset Method	Removes every property and child property set from a property set.	Dim oPropSet as Siebel PropertySet oPropSet.Reset
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	Dim oPropSet as Siebel PropertySet oPropSet.SetProperty(<i>propName</i> as String, <i>propValue</i> as String)
SetType Method	Assigns a data value to a type member of a property set.	Dim oPropSet as Siebel PropertySet oPropSet.SetType(<i>value</i> as String)
SetValue Method	Assigns a data value to a value member of a property set.	Dim oPropSet as Siebel PropertySet oPropSet.SetValue(<i>value</i> as String)

9

Java Data Bean Quick Reference

This chapter provides a quick reference for Siebel Java Data Bean methods. It has the following topics:

- ["Data Bean Methods for Java Data Bean"](#)
- ["Business Component Methods for Java Data Bean" on page 369](#)
- ["Business Object Methods for Java Data Bean" on page 373](#)
- ["Business Service Methods for Java Data Bean" on page 373](#)
- ["Property Set Methods for Java Data Bean" on page 374](#)
- ["SiebelException Methods for Java Data Bean" on page 376](#)

Data Bean Methods for Java Data Bean

Table 51 lists a summary of the SiebelDataBean methods' syntax.

Table 51. SiebelDataBean Methods Syntax Summary

Method	Description	Syntax
Attach Method	Allows an external application to reconnect to an existing Siebel session.	<code>boolean attach(String sessionId) throws SiebelException</code>
CurrencyCode Method	Returns the three-letter operating currency code.	<code>String currencyCode()</code>
Detach Method	Returns a string containing the Siebel session ID.	<code>String detach() throws SiebelException</code>
GetBusObject Method	Instantiates and returns a new instance of the business object specified in the argument.	<code>SiebelBusObject getBusObject(String boName) throws SiebelException</code>
GetProfileAttr Method	Returns the value of an attribute in a user profile.	<code>String getProfileAttr(String attrName) throws SiebelException</code>
GetService Method	Returns a specified service. If the service is not already running, it is constructed.	<code>SiebelService getService(string serviceName) throws SiebelException</code>
InvokeMethod Method	Calls the named specialized method.	<code>String invokeMethod(String name, String[] args) throws SiebelException</code>

Table 51. SiebelDataBean Methods Syntax Summary

Method	Description	Syntax
Login Method	Allows external applications to log in to the Data Bean.	boolean login(String connString, String userName, String passWord) throws SiebelException
LoginId Method	Returns the login ID of the user who started the Siebel application.	String loginId()
LoginName Method	Returns the login name of the user who started the Siebel application.	String loginName()
Logoff Method	Disconnects the client from the server.	boolean logoff() throws SiebelException
NewPropertySet Method	Constructs and returns a new property set object.	SiebelPropertySet newPropertySet()
PositionId Method	Returns the position ID that describes the user's current position.	String positionId()
PositionName Method	Returns the position name of the user's current position.	String positionName()
SetPositionId Method	Sets the active position to the Position ID specified in the argument.	boolean setPositionId(String posId) throws SiebelException
SetPositionName Method	Sets the active position to the position name specified in the argument. Returns a Boolean value indicating if the method succeeded.	boolean setPositionName(String posName) throws SiebelException
SetProfileAttr Method	SetProfileAttr is used in personalization to assign values to attributes in a user profile.	boolean setProfileAttr(String attrName, String attrValue) throws SiebelException
Trace Method	The Trace method appends a message to the trace file. Trace is useful for debugging SQL query execution. This method does not trace Java standard output.	boolean trace(String message) throws SiebelException

Table 51. SiebelDataBean Methods Syntax Summary

Method	Description	Syntax
TraceOff Method	TraceOff turns off the tracing started by the TraceOn method. This method does not trace Java standard output.	boolean traceOff() throws SiebelException
TraceOn Method	TraceOn turns on the tracking of allocations and deallocations of Siebel objects, and SQL statements generated by the Siebel application. This method does not trace Java standard output.	boolean traceOn(String filename, String Category, String selection) throws SiebelException

Business Component Methods for Java Data Bean

Table 52 lists a summary of the SiebelBusComp methods' syntax.

Table 52 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with InvokeMethod on the Business Component object, see [“InvokeMethod Methods for the Business Component Object” on page 216](#).

Table 52. SiebelBusComp Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	boolean activateField(String fieldName) throws SiebelException
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	boolean activateMultipleFields(SiebelPropertySet psFields) throws SiebelException
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	boolean associate(boolean insertBefore) throws SiebelException
BusObject Method	Returns the business object that contains the business component.	SiebelBusObject busObject() throws SiebelException
ClearToQuery Method	Clears the current query and sort specifications on the business component.	boolean clearToQuery() throws SiebelException

Table 52. SiebelBusComp Methods Syntax Summary

Method	Description	Syntax
DeactivateFields Method	Deactivates every currently activated field.	<code>boolean deactivateFields()</code>
DeleteRecord Method	Removes the current record from the business component.	<code>boolean deleteRecord()</code> throws <code>SiebelException</code>
ExecuteQuery Method	Retrieves a set of BusComp records.	<code>boolean executeQuery(boolean cursorMode)</code> throws <code>SiebelException</code> NOTE: When using the <code>ExecuteQuery</code> method with Java Data Bean, use <code>True</code> for <code>ForwardOnly</code> and <code>False</code> for <code>ForwardBackward</code> .
ExecuteQuery2 Method	Retrieves a set of BusComp records.	<code>boolean executeQuery2(boolean cursorMode, boolean ignoreMaxCursorSize)</code> throws <code>SiebelException</code>
FirstRecord Method	Moves to the first record in the business component.	<code>boolean firstRecord()</code> throws <code>SiebelException</code>
GetFieldValue Method	Returns a value for the field specified in the argument.	<code>String getFieldValue(String fieldName)</code> throws <code>SiebelException</code>
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	<code>String getFormattedFieldValue(String fieldName)</code> throws <code>SiebelException</code>
GetMultipleFieldValues Method	Returns values for the fields specified in the property set.	<code>boolean getMultipleFieldValues(SiebelPropertySet Src, SiebelPropertySet result)</code> throws <code>SiebelException</code>
GetMVGBusComp Method	Returns the MVG business component associated with the field specified in the argument.	<code>SiebelBusComp getMVGBusComp(String fieldName)</code> throws <code>SiebelException</code>
GetNamedSearch Method	Returns the argument-named search specification.	<code>String getNamedSearch(String searchName)</code> throws <code>SiebelException</code>
GetPicklistBusComp Method	Returns the pick business component associated with the field specified in the argument.	<code>SiebelBusComp getPicklistBusComp(String fieldName)</code> throws <code>SiebelException</code>
GetSearchExpr Method	Returns the current search expression.	<code>String getSearchExpr()</code> throws <code>SiebelException</code>

Table 52. SiebelBusComp Methods Syntax Summary

Method	Description	Syntax
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	<code>String getSearchSpec(String fieldName)</code> throws <code>SiebelException</code>
GetUserProperty Method	Returns the value for the specified property.	<code>String getUserProperty(String property)</code> throws <code>SiebelException</code>
GetViewMode Method	Returns the visibility mode for the business component.	<code>int getViewMode()</code>
InvokeMethod Method	Calls the specialized method named in the argument. The <code>methodArgs</code> parameter must be an array of strings.	<code>String invokeMethod(String methodName, String[] methodArgs)</code> throws <code>SiebelException</code>
LastRecord Method	Moves to the last record in the business component.	<code>boolean lastRecord()</code> throws <code>SiebelException</code>
Name Method	Returns the name of the business component.	<code>String name()</code>
NewRecord Method	Adds a new record to the business component.	<code>boolean newRecord(boolean insertBefore)</code> throws <code>SiebelException</code>
NextRecord Method	Moves to the next record in the business component.	<code>boolean nextRecord()</code> throws <code>SiebelException</code>
ParentBusComp Method	Returns the parent business component.	<code>SiebelBusComp parentBusComp()</code> throws <code>SiebelException</code>
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	<code>boolean pick()</code> throws <code>SiebelException</code>
PreviousRecord Method	Moves to the previous record in the business component.	<code>boolean previousRecord()</code> throws <code>SiebelException</code>
RefineQuery Method	Refines a query after a query has been executed.	<code>boolean refineQuery()</code> throws <code>SiebelException</code>
Release Method	Enables the release of the business component and its resources on the Siebel Server.	<code>void release()</code>
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<code>boolean setFieldValue(String fieldName, String fieldValue)</code> throws <code>SiebelException</code>

Table 52. SiebelBusComp Methods Syntax Summary

Method	Description	Syntax
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	boolean setFormattedFieldValue(String fieldName, String fieldValue) throws SiebelException
SetMultipleFieldValues Method	Assigns new values to the multiple fields specified in the property set for the current row of the business component.	boolean setMultipleFieldValues(SiebelPropertySet psFields) throws SiebelException
SetNamedSearch Method	Sets a named search specification on the business component.	boolean setNamedSearch(String searchName, String searchText) throws SiebelException
SetSearchExpr Method	Sets an entire search expression on the business component.	boolean setSearchExpr(String searchExpr) throws SiebelException
SetSearchSpec Method	Sets the search specification for the specified field.	boolean setSearchSpec(String fieldName, String searchSpec) throws SiebelException
SetSortSpec Method	Sets the sort specification for a query.	boolean setSortSpec(String sortSpec) throws SiebelException
SetUserProperty Method	Sets the value of the specified User Property.	boolean setUserProperty(String propName, String propVal)
SetViewMode Method	Sets the visibility type for the business component.	boolean setViewMode(int mode) throws SiebelException
UndoRecord Method	Reverses any uncommitted changes made to the record.	boolean undoRecord() throws SiebelException
WriteRecord Method	Commits to the database any changes made to the current record.	boolean writeRecord() throws SiebelException

Business Object Methods for Java Data Bean

Table 53 lists a summary of the SiebelBusObject methods' syntax.

Table 53. SiebelBusObject Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	Si ebel BusComp getBusComp(Stri ng busCompName) throws Si ebel Excepti on
Name Method	Returns the name of the business object.	Stri ng name()
Release Method	Enables the release of the business object and its resources on the Siebel Server.	voi d rel ease()

Business Service Methods for Java Data Bean

Table 54 lists a summary of the SiebelService methods' syntax.

Table 54. SiebelService Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	Stri ng getFi rstProperty()
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	Stri ng getNextProperty()
GetProperty Method	Retrieves the value stored in the specified property.	Stri ng getProperty(Stri ng propName) throws Si ebel Excepti on
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	boo lean i nvokeMethod(Stri ng methodName, Si ebel PropertySet i nputPropertySet, Si ebel PropertySet outputPropertySet) throws Si ebel Excepti on
Name Method	Returns the name of the business service.	Stri ng Name()

Table 54. SiebelService Methods Syntax Summary

Method	Description	Syntax
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	<code>boolean propertyExists(String propName)</code> throws <code>SiebelException</code>
Release Method	Enables the release of the Business Service and its resources on the Siebel Server.	<code>void release()</code>
RemoveProperty Method	Removes a property from a business service.	<code>void removeProperty(String propName)</code> throws <code>SiebelException</code>
SetProperty Method	Assigns a value to a property of a business service.	<code>void setProperty(String propName, String propValue)</code> throws <code>SiebelException</code>

Property Set Methods for Java Data Bean

Table 55 lists a summary of the SiebelPropertySet methods' syntax.

Table 55. SiebelPropertySet Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	<code>int addChild(SiebelPropertySet propertySet)</code>
Copy Method	Returns a copy of a property set.	<code>SiebelPropertySet copy(SiebelPropertySet propertySet)</code>
GetByteValue Method	Returns a byte array if a byte value has been set.	<code>public byte[] getByteValue()</code>
GetChild Method	Returns a specified child property set of a property set.	<code>SiebelPropertySet getChild(int index)</code>
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	<code>int getChildCount()</code>
GetFirstProperty Method	Returns the name of the first property in a property set.	<code>String getFirstProperty()</code>
GetNextProperty Method	Returns the name of the next property in a property set.	<code>String getNextProperty()</code>
GetProperty Method	Returns the value of a property when given the property name.	<code>String getProperty(String propertyName)</code>
GetPropertyCount Method	Returns the number of properties attached to a property set.	<code>int GetPropertyCount()</code>

Table 55. SiebelPropertySet Methods Syntax Summary

Method	Description	Syntax
GetType Method	Returns the value stored in the Type attribute of a PropertySet.	String getType()
GetValue Method	Returns the value stored in the Value attribute of a PropertySet.	String getValue()
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	boolean insertChildAt(SiebelPropertySet propertySet, int index)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	boolean propertyExists(String propertyName)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	boolean removeChild(int index)
RemoveProperty Method	Removes the property specified in its argument from a property set.	boolean removeProperty(String propertyName)
Reset Method	Removes every property and child property set from a property set.	boolean reset()
SetByteValue Method	Sets the value portion of a property set.	public void setByteValue(byte[] value)
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	boolean setProperty(String propertyName, String propertyValue)
SetType Method	Assigns a data value to a type member of a property set.	boolean setType(String type)
SetValue Method	Assigns a data value to a value member of a property set.	boolean setValue(String value)

SiebelException Methods for Java Data Bean

Table 56 lists a summary of the SiebelException methods' syntax.

Table 56. SiebelException Methods Syntax Summary

Method	Description	Syntax
GetErrorCode Method	Gets a numeric error code.	<code>int getErrorCode()</code>
GetErrorMessage Method	Gets an error message.	<code>String getErrorMessage()</code>

For more information on the Java Data Bean Interface, read the Javadoc files, which are contained in a file named Siebel_JavaDoc.jar. This file is normally located in: \siebsrvr\CLASSES.

10 Siebel Web Client Automation Server Quick Reference

This chapter provides a quick reference for Siebel Web Client Automation Server methods. It has the following topics:

- [“SiebelHTMLApplication Methods for Siebel Web Client Automation Server”](#)
- [“SiebelService Methods for Siebel Web Client Automation Server” on page 378](#)
- [“Property Set Methods for Siebel Web Client Automation Server” on page 379](#)

SiebelHTMLApplication Methods for Siebel Web Client Automation Server

Table 57 lists a summary of the SiebelHTMLApplication methods' syntax.

Table 57 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with InvokeMethod on the Application object, see [“InvokeMethod Methods for the Application Object” on page 143](#).

Table 57. SiebelHTMLApplication Methods Syntax Summary

Method	Description	Syntax
GetLastErrCode Method	Returns the last error code.	<pre>Dim siebelApp As SiebelHTMLApplication Dim iErr as Long iErr = siebelApp.GetLastErrCode</pre>
GetLastErrText Method	Returns the last error text message.	<pre>Dim siebelApp As SiebelHTMLApplication Dim sText as String sText = siebelApp.GetLastErrText</pre>
GetService Method	Instantiates and returns a new instance of the service specified in the argument.	<pre>Dim siebelApp As SiebelHTMLApplication Dim svc As SiebelService Set svc = siebelApp.GetService(<i>ServiceName</i> as String)</pre>

Table 57. SiebelHTMLApplication Methods Syntax Summary

Method	Description	Syntax
Name Method	Returns the name of the current application as defined in the repository.	Dim siebelApp As SiebelHTMLApplication Dim name as String name = siebelApp.Name
NewPropertySet Method	Constructs and returns a new property set object.	Dim siebelApp As SiebelHTMLApplication Dim propSet as SiebelPropertySet Set propSet = siebelApp.NewPropertySet

SiebelService Methods for Siebel Web Client Automation Server

Table 58 lists a summary of the SiebelService methods' syntax.

Table 58. SiebelService Methods Syntax Summary

Method	Description	Syntax
GetNextProperty Method	Returns the last error code.	Dim svc As SiebelService Dim iErr as Long iErr = svc.GetLastErrorCode
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	Dim svc As SiebelService svc.InvokeMethod(<i>MethodName as String, inputPropSet as SiebelPropertySet, outputPropSet as SiebelPropertySet</i>)
Name Method	Returns the name of the business service.	Dim svc As SiebelService Dim name as String name = svc.Name

Property Set Methods for Siebel Web Client Automation Server

Table 59 lists a summary of the SiebelPropertySet methods' syntax.

Table 59. SiebelPropertySet Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	Dim oPropSet as SiebelPropertySet oPropSet.AddChild(<i>childObject</i> as SiebelPropertySet)
Copy Method	Returns a copy of a property set.	Dim oPropSet1 as SiebelPropertySet Dim oPropSet2 as SiebelPropertySet Set oPropSet2 = oPropSet1.Copy
GetChild Method	Returns a specified child property set of a property set.	Dim oPropSet as SiebelPropertySet Dim oChildPropSet as SiebelPropertySet Set oChildPropSet = oPropSet.GetChild(<i>index</i> as Long)
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	Dim oPropSet as SiebelPropertySet Dim iCount as Long iCount = oPropSet.GetChildCount
GetFirstProperty Method	Returns the name of the first property in a property set.	Dim oPropSet as SiebelPropertySet Dim sPropName as String sPropName = oPropSet.GetFirstProperty
GetLastErrCode Method	Returns the last error code.	Dim oPropSet as SiebelPropertySet Dim iErr as Long iErr = oPropSet.GetLastErrCode
GetLastErrText Method	Returns the last error text message.	Dim oPropSet as SiebelPropertySet Dim sText as String sText = oPropSet.GetLastErrText
GetNextProperty Method	Returns the name of the next property in a property set.	Dim oPropSet as SiebelPropertySet Dim sPropName as String sPropName = oPropSet.GetNextProperty
GetProperty Method	Returns the value of a property when given the property name.	Dim oPropSet as SiebelPropertySet Dim sValue as String sValue = oPropSet.GetProperty(<i>propertyName</i> as String)
GetPropertyCount Method	Returns the number of properties attached to a property set.	Dim oPropSet as SiebelPropertySet Dim iCount as Long iCount = oPropSet.GetPropertyCount

Table 59. SiebelPropertySet Methods Syntax Summary

Method	Description	Syntax
GetType Method	Returns the value stored in a type in a property set.	Dim oPropSet as SiebelPropertySet Dim type as String type = oPropSet.GetType
GetValue Method	Returns a value stored as part of a property set.	Dim oPropSet as SiebelPropertySet Dim sValue as String sValue = oPropSet.GetValue
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	Dim oPropSet as SiebelPropertySet oPropSet.InsertChildAt(<i>childObject</i> as SiebelPropertySet, <i>index</i> as Long)
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oPropSet as SiebelPropertySet Dim bool as Boolean bool = oPropSet.PropertyExists(<i>propName</i> as String)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	Dim oPropSet as SiebelPropertySet oPropSet.RemoveChild(<i>index</i> as Long)
RemoveProperty Method	Removes the property specified in its argument from a property set.	Dim oPropSet as SiebelPropertySet oPropSet.RemoveProperty(<i>propName</i> as String)
Reset Method	Removes every property and child property set from a property set.	Dim oPropSet as SiebelPropertySet oPropSet.Reset
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	Dim oPropSet as SiebelPropertySet oPropSet.SetProperty(<i>propName</i> as String, <i>propValue</i> as String)
SetType Method	Assigns a data value to a type member of a property set.	Dim oPropSet as SiebelPropertySet oPropSet.SetType(<i>value</i> as String)
SetValue Method	Assigns a data value to a value member of a property set.	Dim oPropSet as SiebelPropertySet oPropSet.SetValue(<i>value</i> as String)

11 Siebel VB Quick Reference

This chapter provides a quick reference for Siebel VB methods and events. It has the following topics:

- [“Applet Methods for Siebel VB”](#)
- [“WebApplet Events for Siebel VB” on page 382](#)
- [“Application Methods for Siebel VB” on page 383](#)
- [“Application Events for Siebel VB” on page 386](#)
- [“Business Component Methods for Siebel VB” on page 386](#)
- [“Business Component Events for Siebel VB” on page 391](#)
- [“Business Object Methods for Siebel VB” on page 393](#)
- [“Business Service Methods for Siebel VB” on page 393](#)
- [“Business Service Events for Siebel VB” on page 394](#)
- [“Property Set Methods for Siebel VB” on page 395](#)
- [“Miscellaneous Methods for Siebel VB” on page 397](#)

Applet Methods for Siebel VB

Table 60 lists a summary of the applet methods' syntax.

Table 60. Applet Methods Syntax Summary

Method	Description	Syntax
BusComp Method	Function that returns the business component that is associated with the applet.	<code>Dim oApplet as Applet Dim oBusComp as BusComp Set oBusComp = oApplet.BusComp</code>
BusObject Method	Function that returns the business object for the business component of the applet.	<code>Dim oApplet as Applet Dim oBusObject as BusObject Set oBusObject = oApplet.BusObject</code>
InvokeMethod Method	Invokes the specialized or custom method specified by its argument.	<code>Dim oApplet as Applet oApplet.InvokeMethod <i>methodName</i> as String, <i>methodArgs</i> as String or StringArray</code>
Name Method	Function that returns the name of the applet.	<code>Dim oApplet as Applet Dim sApplet as String sApplet = oApplet.Name</code>

WebApplet Events for Siebel VB

Table 61 lists a summary of the WebApplet events.

Table 61. WebApplet Events Summary

Event	Description	Syntax
WebApplet_InvokeMethod Event	Called after a specialized method or a user-defined method on the Web applet has been executed.	<code>WebApplet_InvokeMethod(<i>MethodName</i> as String)</code>
WebApplet_PreCanInvokeMethod Event	Called before the <code>PreInvokeMethod</code> , allowing the developer to determine whether or not the user has the authority to invoke the applet method.	<code>WebApplet_PreCanInvokeMethod(<i>MethodName</i> as String, <i>CanInvoke</i> as String)</code>
WebApplet_PreInvokeMethod Event	Called before a specialized method for the Web applet is invoked or a user-defined method is invoked through <code>oWebApplet.InvokeMethod</code> .	<code>WebApplet_PreInvokeMethod(<i>MethodName</i> as String) As Integer</code>
WebApplet_Load Event	Called just after an applet is loaded.	<code>WebApplet_Load</code>

Table 61. WebApplet Events Summary

Event	Description	Syntax
WebApplet_ShowControl Event	Allows scripts to modify the HTML generated by the Siebel Web Engine to render a control on a Web page in a standard interactivity application.	WebApplet_ShowControl (<i>controlName</i> as String, <i>property</i> as String, <i>mode</i> as String, HTML as String)
WebApplet_ShowListColumn Event	Allows scripts to modify the HTML generated by the Siebel Web Engine to render a list column on a Web page in a standard interactivity application.	WebApplet_ShowListColumn (<i>columnName</i> as String, <i>property</i> as String, <i>mode</i> as String, HTML as String)

Application Methods for Siebel VB

Table 62 lists a summary of the application methods' syntax.

Table 62 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with InvokeMethod on the Application object, see "InvokeMethod Methods for the Application Object" on page 143.

Table 62. Application Methods Syntax Summary

Method	Description	Syntax
ActiveBusObject Method	Returns the business object of the active view.	Dim oApplication as Application Dim oBusObject as BusObject Set oBusObject = oApplication.ActiveBusObject
ActiveViewName Method	Function that returns the name of the active view.	Dim oApplication as Application Dim sView as String sView = oApplication.ActiveViewName
CurrencyCode Method	Returns the three-letter operating currency code.	Dim oApplication as Application Dim sCur as String sCur = oApplication.CurrencyCode

Table 62. Application Methods Syntax Summary

Method	Description	Syntax
GetBusObject Method	Instantiates and returns a new instance of the argument-specified business object.	Dim oApplication as Application Dim oBusObject as BusObject set oBusObject = oApplication.GetBusObject (<i>busobject</i> as String)
GetProfileAttr Method	Returns the value of an attribute in a user profile.	Dim oApplication as Application Dim sAttr as String SAttr = oApplication.GetProfileAttr(<i>name</i> as String)
GetService Method	Instantiates and returns a new instance of the argument-specified service.	Dim oApplication as Application Dim oService as Service set oService = oApplication.GetService(<i>serviceName</i> as String)
GetSharedGlobal Method	Gets the shared user-defined global variables.	Dim oApplication as Application Dim sName as String sName = Application.GetSharedGlobal (<i>varName</i> as String)
GotoView Method	Activates the named view and its business object.	Dim oApplication as Application oApplication.GotoView <i>viewName</i> as String[, <i>BusinessObjectName</i> as BusObject]
InvokeMethod Method	Calls the named specialized method.	Dim oApplication as Application oApplication.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)
LoginId Method	Function that returns the login ID of the user who started the Siebel application.	Dim oApplication as Application Dim sID as String iID = oApplication.LoginId
LoginName Method	Function that returns the login name of the user who started the Siebel application.	Dim oApplication as Application Dim sUser as String sUser = oApplication.LoginName
NewPropertySet Method	Constructs and returns a new property set object.	Dim oApplication as Application Dim oPropSet as PropertySet oPropSet = oApplication.NewPropertySet
PositionId Method	Function that returns the position ID that describes the user's current position.	Dim oApplication as Application Dim sRow as String sRow = oApplication.PositionId
PositionName Method	Function that returns the position name of the user's current position.	Dim oApplication as Application Dim sPosition as String sPosition = oApplication.PositionName

Table 62. Application Methods Syntax Summary

Method	Description	Syntax
RaiseError Method	Raises a scripting error message to the browser. The error code is a canonical number.	Dim oApplication as Application oApplication.RaiseError keyValue as String, param1 as String, ...
RaiseErrorText Method	Raises a scripting error message to the browser. The error text is the specified literal string.	Dim oApplication as Application oApplication.RaiseErrorText message as String
SetPositionId Method	Sets the active position to the position ID specified in the argument.	Dim oApplication as Application oApplication.SetPositionId posId as string
SetPositionName Method	Sets the active position to the position name specified in the argument. Returns a Boolean value indicating whether or not method succeeded.	Dim oApplication as Application oApplication.SetPositionName posName as string
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	Dim oApplication as Application oApplication.SetProfileAttr name as String, value as String
SetSharedGlobal Method	Sets a shared user-defined global variable.	Dim oApplication as Application oApplication.SetSharedGlobal varName as String, value as String
Trace Method	Appends a message to the trace file.	Dim oApplication as Application oApplication.Trace message as String
TraceOff Method	Turns off the tracing started by TraceOn.	Dim oApplication as Application oApplication.TraceOff
TraceOn Method	Turns tracing on.	Dim oApplication as Application oApplication.TraceOn filename as String, type as String, selection as String

Application Events for Siebel VB

Table 63 lists a summary of the application events.

Table 63. Application Events Summary

Event	Description	Syntax
Application_Close Event	Called before the application exits.	<code>Application_Close</code>
Application_Navigate Event	Called after the client has navigated to a view.	<code>Application_Navigate</code>
Application_InvokeMethod Event	Called after a specialized method is invoked.	<code>Application_InvokeMethod (MethodName as String)</code>
Application_PreInvokeMethod Event	Called before a specialized method is invoked.	<code>Application_PreInvokeMethod (MethodName as String) As Integer</code>
Application_PreNavigate Event	Called before the client has navigated from one view to the next.	<code>Application_PreNavigate (DestViewName As String, DestBusObjName As String)</code>
Application_Start Event	Called when the client starts.	<code>Application_Start (commandLine as String)</code>

Business Component Methods for Siebel VB

Table 64 lists a summary of the business component methods' syntax.

Table 64 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with `InvokeMethod` on the Business Component object, see [“InvokeMethod Methods for the Business Component Object”](#) on page 216.

Table 64. Business Component Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	<code>Dim oBusComp as BusComp oBusComp.ActivateField <i>fieldName</i> as String</code>
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	<code>Dim oBusComp as BusComp oBusComp.ActivateMultipleFields <i>oPropSet</i> as PropertySet</code>

Table 64. Business Component Methods Syntax Summary

Method	Description	Syntax
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	Dim oBusComp as BusComp oBusComp.Associate <i>whereIndicator</i> as Integer
BusObject Method	Function that returns the business object that contains the business component.	Dim oBusComp as BusComp Dim oBusObject as BusObject Set oBusObject = oBusComp.BusObject
ClearToQuery Method	Clears the current query and sort specifications on the business component.	Dim oBusComp as BusComp oBusComp.ClearToQuery
DeactivateFields Method	Deactivates every currently activated field.	Dim oBusComp as BusComp oBusComp.DeactivateFields
DeleteRecord Method	Removes the current record from the business component.	Dim oBusComp as BusComp oBusComp.DeleteRecord
ExecuteQuery Method	Retrieves a set of BusComp records.	Dim oBusComp as BusComp oBusComp.ExecuteQuery <i>cursorMode</i> as Integer
ExecuteQuery2 Method	Retrieves a set of BusComp records.	Dim oBusComp as BusComp oBusComp.ExecuteQuery2 <i>cursorMode</i> as Integer, <i>ignoreMaxCursorSize</i> as Integer
FirstRecord Method	Moves to the first record in the business component.	Dim oBusComp as BusComp Dim iIsRecord as Integer iIsRecord = oBusComp.FirstRecord
FirstSelected Method	Moves the focus to the first record of the multiple selection in the business component.	Dim oBusComp as BusComp Dim iIsMultipleSection as Integer iIsMultipleSection = oBusComp.FirstSelected
GetAssocBusComp Method	Function that returns the association business component.	Dim oBusComp as BusComp Dim AssocBusComp as BusComp Set AssocBusComp = oBusComp.GetAssocBusComp
GetFieldValue Method	Function that returns a value for the argument-specified field.	Dim oBusComp as BusComp Dim sValue as String sValue = oBusComp.GetFieldValue(<i>FieldName</i> as String)

Table 64. Business Component Methods Syntax Summary

Method	Description	Syntax
GetFormattedFieldValue Method	Function that returns a formatted value for the argument-specified field.	Dim oBusComp as BusComp Dim sValue as String sValue = oBusComp.GetFormattedFieldVal ue(<i>Field Name</i> as String)
GetMultipleFieldValues Method	Returns a value for the fields specified in the property set.	Dim oBusComp as BusComp oBusComp.GetMultipleFieldValues <i>ofields</i> as PropertySet, <i>oValues</i> as PropertySet
GetMVGBusComp Method	Function that returns the MVG business component associated with the argument-specified field.	Dim oBusComp as BusComp Dim MvgBusComp as BusComp set MvgBusComp = oBusComp.GetMVGBusComp(<i>Field Name</i> as String)
GetNamedSearch Method	Function that returns the argument-named search specification.	Dim oBusComp as BusComp Dim sValue as String sValue = oBusComp.GetNamedSearch(<i>SearchName</i> as String)
GetPicklistBusComp Method	Function that returns the pick business component associated with the argument-specified field.	Dim oBusComp as BusComp Dim pickBusComp as BusComp Set pickBusComp = oBusComp.GetPicklistBusComp(<i>Field Name</i> as String)
GetSearchExpr Method	Function that returns the current search expression.	Dim oBusComp as BusComp Dim sExpr as String sExpr = oBusComp.GetSearchExpr
GetSearchSpec Method	Function that returns the current search specification for the argument-specified field.	Dim oBusComp as BusComp Dim sSpec as String sSpec = oBusComp.GetSearchSpec(<i>Field Name</i> as String)
GetSortSpec Method	Function that returns the active sort specification of the object that has context.	Dim sSortSpec as String sSortSpec = GetSortSpec
GetUserProperty Method	Function that returns the value for an argument-specified property name.	Dim oBusComp as BusComp Dim sValue as String sValue = oBusComp.GetUserProperty(<i>propertyName</i> as String)
GetViewMode Method	Function that returns the visibility mode for the business component.	Dim oBusComp as BusComp Dim iMode as Integer iMode = oBusComp.GetViewMode

Table 64. Business Component Methods Syntax Summary

Method	Description	Syntax
InvokeMethod Method	Calls the specialized method or user-created method specified in the argument.	Dim oBusComp as BusComp oBusComp.InvokeMethod(<i>methodName</i> as String, <i>methodArgs</i> as String or StringArray)
LastRecord Method	Moves to the last record in the business component.	Dim oBusComp as BusComp Dim iReturn as Integer iReturn = oBusComp.LastRecord
Name Method	Function that returns the name of the business component.	Dim oBusComp as BusComp Dim sName as String sName = oBusComp.Name
NewRecord Method	Adds a new record to the business component.	Dim oBusComp as BusComp oBusComp.NewRecord <i>whereIndicator</i> as Integer
NextRecord Method	Moves to the next record in the business component.	Dim oBusComp as BusComp Dim iReturn as Integer iReturn = oBusComp.NextRecord
NextSelected Method	Moves to the next record of the current multiple selection.	Dim oBusComp as BusComp Dim iReturn as Integer iReturn = oBusComp.NextSelected
ParentBusComp Method	Function that returns the parent business component.	Dim oBusComp as BusComp Dim parentBusComp as BusComp Set parentBusComp = oBusComp.ParentBusComp
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	Dim oBusComp as BusComp oBusComp.Pick
PreviousRecord Method	Moves to the previous record in the business component.	Dim oBusComp as BusComp Dim iReturn as Integer iReturn = oBusComp.PreviousRecord
RefineQuery Method	Refines a query after a query has been executed.	Dim oBusComp as BusComp oBusComp.RefineQuery

Table 64. Business Component Methods Syntax Summary

Method	Description	Syntax
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<code>Dim oBusComp as BusComp oBusComp.SetFieldValue <i>FieldName</i> as String, <i>FieldValue</i> as String</code>
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	<code>Dim oBusComp as BusComp oBusComp.SetFormattedFieldValue <i>FieldName</i> as String, <i>FieldValue</i> as String</code>
SetMultipleFieldValues Method	Assigns a new value to the fields specified in the property set for the current row of the business component.	<code>Dim oBusComp as BusComp oBusComp.SetMultipleFieldValues <i>oPropSet</i> as PropertySet</code>
SetNameSearch Method	Sets a named search specification on the business component.	<code>Dim oBusComp as BusComp oBusComp.SetNamedSearch <i>searchName</i> as String, <i>searchSpec</i> as String</code>
SetSearchExpr Method	Sets the entire search expression for the business component.	<code>Dim oBusComp as BusComp oBusComp.SetSearchExpr <i>searchSpec</i> as String</code>
SetSearchSpec Method	Sets the search specification for the specified field.	<code>Dim oBusComp as BusComp oBusComp.SetSearchSpec <i>fieldName</i> as String, <i>searchSpec</i> as String</code>
SetSortSpec Method	Sets the sort specification for a query.	<code>Dim oBusComp as BusComp oBusComp.SetSortSpec <i>sortSpec</i> as String</code>
SetUserProperty Method	Sets the value of the specified User Property.	<code>Dim oBusComp as BusComp oBusComp.SetUserProperty <i>propertyName</i> as String, <i>newValue</i> as String</code>
SetViewMode Method	Sets the visibility type for the business component.	<code>Dim oBusComp as BusComp oBusComp.SetViewMode <i>viewMode</i> as Integer</code>
UndoRecord Method	Reverses any uncommitted changes made to the record.	<code>Dim oBusComp as BusComp oBusComp.UndoRecord</code>
WriteRecord Method	Commits to the database any changes made to the current record.	<code>Dim oBusComp as BusComp oBusComp.WriteRecord</code>

Business Component Events for Siebel VB

Table 65 lists a summary of the business component events.

Table 65. Business Component Events Summary

Event	Description	Syntax
BusComp_Associate Event	Called after a record is added to a business component to create an association.	BusComp_Associate
BusComp_ChangeRecord Event	Called after the current row changes in the business component.	BusComp_ChangeRecord
BusComp_CopyRecord Event	Called after a new row is copied in the business component.	BusComp_CopyRecord
BusComp_DeleteRecord Event	Called after a row is deleted in the business component.	BusComp_DeleteRecord
BusComp_InvokeMethod Event	Called after a custom or specialized method is called on a business component.	BusComp_InvokeMethod (<i>methodName</i> as String)
BusComp_NewRecord Event	Called after a new row has been created and made active in the business component.	BusComp_NewRecord
BusComp_PreAssociate Event	Called before a record is added to a business component to create an association.	BusComp_PreAssociate
BusComp_PreCopyRecord Event	Called before a new row is copied in the business component.	BusComp_PreCopyRecord
BusComp_PreDeleteRecord Event	Called before a row is deleted in the business component.	BusComp_PreDeleteRecord
BusComp_PreGetFieldValue Event	Called when the value of a business component field is accessed.	BusComp_PreGetFieldValue (<i>FieldName</i> as String, <i>FieldValue</i> as String)

Table 65. Business Component Events Summary

Event	Description	Syntax
BusComp_PreInvokeMethod Event	Called before a specialized or custom method is invoked on a business component.	<code>BusComp_PreInvokeMethod (methodName as String)</code>
BusComp_PreNewRecord Event	Called before a new row is created in the business component.	<code>BusComp_PreNewRecord</code>
BusComp_PreQuery Event	Called before query execution.	<code>BusComp_PreQuery</code>
BusComp_PreSetFieldValue Event	Called when a value is pushed down into the business component from the user interface or through a call to <code>SetFieldValue</code> .	<code>BusComp_PreSetFieldValue (FieldName as String, FieldValue as String)</code>
BusComp_PreWriteRecord Event	Called before a row is written out to the database.	<code>BusComp_PreWriteRecord</code>
BusComp_Query Event	Called after the query is complete and every row has been retrieved, but before they have been displayed.	<code>BusComp_Query</code>
BusComp_SetFieldValue Event	Called after a value has been pushed down into the business component from the user interface or through a call to <code>SetFieldValue</code> .	<code>BusComp_SetFieldValue (FieldName as String)</code>
BusComp_WriteRecord Event	Called after a row is written to the database.	<code>BusComp_WriteRecord</code>

Business Object Methods for Siebel VB

Table 66 lists a summary of the business object methods' syntax.

Table 66. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Function that returns the specified business component.	Dim oBusObject as BusObject Dim oBusComp as BusComp set oBusComp = BusObject.GetBusComp(<i>BusCompName</i> as String)
Name Method	Function that returns the name of the business object.	Dim oBusObject as BusObject Dim sName as String sName = oBusObject.Name

Business Service Methods for Siebel VB

Table 67 lists a summary of the business service methods' syntax.

Table 67. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	Dim oService as Service Dim sName as String sName = oService.GetFirstProperty
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	Dim oService as Service Dim sName as String sName = oService.GetNextProperty
GetProperty Method	Retrieves the value stored in the specified property.	Dim oService as Service Dim sValue as String sValue = oService.GetProperty(<i>propName</i> as String)
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	Dim oService as Service oService.InvokeMethod(<i>methodName</i> as String, <i>InputArguments</i> as PropertySet, <i>OutputArguments</i> as PropertySet)
Name Method	Returns the name of the business service.	Dim oService as Service Dim sName as String sName = oService.Name

Table 67. Business Service Methods Syntax Summary

Method	Description	Syntax
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oService as Service Dim iReturn as Boolean iReturn = oService.PropertyExists(<i>propName</i> as String)
RemoveProperty Method	Removes a property from a business service.	Dim oService as Service oService.RemoveProperty <i>propName</i> as String
SetProperty Method	Assigns a value to a property of a business service.	Dim oService as Service oService.SetProperty <i>propName</i> as String, <i>propValue</i> as String

Business Service Events for Siebel VB

Table 68 lists a summary of the business service events.

Table 68. Business Service Events Syntax Summary

Method	Description	Syntax
Service_InvokeMethod Event	Called after the InvokeMethod method is called on a business service.	Service_InvokeMethod (<i>methodName</i> as String)
Service_PreCanInvokeMethod Event	Called before the PreInvokeMethod, allowing the developer to determine whether or not the user has the authority to invoke the business service method.	Service_PreCanInvokeMethod (<i>methodName</i> as String, CanInvoke As String)
Service_PreInvokeMethod Event	Called before a specialized or user-defined method is invoked on a business service.	Service_PreInvokeMethod (<i>methodName</i> as String, Inputs as PropertySet, Outputs as PropertySet)

Property Set Methods for Siebel VB

Table 69 lists a summary of the property set methods' syntax.

Table 69. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	<code>Dim oPropSet as PropertySet oPropSet.AddChild <i>childObject</i> as PropertySet</code>
Copy Method	Returns a copy of a property set.	<code>Dim oPropSet1 as PropertySet Dim oPropSet2 as PropertySet set oPropSet2 = oPropSet1.Copy</code>
GetChild Method	Returns a specified child property set of a property set.	<code>Dim oPropSet as PropertySet Dim childPropSet as Siebel PropertySet set childPropSet = oPropSet.GetChild(<i>index</i> as Long)</code>
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	<code>Dim oPropSet as PropertySet Dim iCount as Integer iCount = oPropSet.GetChildCount</code>
GetFirstProperty Method	Returns the name of the first property in a property set.	<code>Dim oPropSet as PropertySet Dim sPropName as String sPropName = oPropSet.GetFirstProperty</code>
GetNextProperty Method	Returns the name of the next property in a property set.	<code>Dim oPropSet as PropertySet Dim sPropName as String sPropName = oPropSet.GetNextProperty</code>
GetProperty Method	Returns the value of a property when given the property name.	<code>Dim oPropSet as PropertySet Dim sPropVal as String sPropVal = oPropSet.GetProperty(<i>propName</i> as String)</code>
GetPropertyCount Method	Returns the number of properties attached to a property set.	<code>Dim oPropSet as PropertySet Dim count as Long count = oPropSet.GetPropertyCount</code>
GetType Method	Returns the value stored in a type in a property set.	<code>Dim oPropSet as PropertySet Dim sTypeVal as String sTypeVal = oPropSet.GetType</code>
GetValue Method	Returns a value stored as part of a property set.	<code>Dim oPropSet as PropertySet Dim sValVal as String sValVal = oPropSet.GetValue</code>
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	<code>Dim oPropSet as PropertySet oPropSet.InsertChildAt <i>childObject</i> as Siebel PropertySet, <i>index</i> as Integer</code>

Table 69. Property Set Methods Syntax Summary

Method	Description	Syntax
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oPropSet as PropertySet oPropSet.PropertyExists(<i>propName</i> as String)
GetPropertyCount Method	Returns the number of properties attached to a property set.	Dim oPropSet as PropertySet Dim count as Long count = oPropSet.GetPropertyCount
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	Dim oPropSet as PropertySet oPropSet.RemoveChild <i>index</i> as Integer
RemoveProperty Method	Removes the property specified in its argument from a property set.	Dim oPropSet as PropertySet oPropSet.RemoveProperty <i>propName</i> as String
Reset Method	Removes every property and child property set from a property set.	Dim oPropSet as PropertySet oPropSet.Reset
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	Dim oPropSet as PropertySet oPropSet.SetProperty <i>propName</i> as String, <i>propValue</i> as String
SetType Method	Assigns a data value to a type member of a property set.	Dim oPropSet as PropertySet oPropSet.SetType <i>value</i> as String
SetValue Method	Assigns a data value to a value member of a property set.	Dim oPropSet as PropertySet oPropSet.SetValue <i>value</i> as String

Miscellaneous Methods for Siebel VB

Table 70 lists a summary of the miscellaneous method's syntax.

Table 70. Miscellaneous Method's Syntax Summary

Method	Description	Syntax
TheApplication Method	Global method that returns the unique object of type Application.	TheAppl i cati on

12 Browser Scripting

This chapter provides information about Browser Scripting and its available events and methods:

- [“About Browser Script” on page 399](#)
- [“Applet Methods for Browser Script” on page 400](#)
- [“Applet Events for Browser Script” on page 401](#)
- [“Application Methods for Browser Script” on page 401](#)
- [“Application Events for Browser Script” on page 403](#)
- [“Business Component Methods for Browser Script” on page 403](#)
- [“Business Component Events for Browser Script” on page 405](#)
- [“Business Object Methods for Browser Script” on page 405](#)
- [“Business Service Methods for Browser Script” on page 406](#)
- [“Business Service Events for Browser Script” on page 407](#)
- [“Property Set Methods for Browser Script” on page 407](#)
- [“Control Methods for Browser Script” on page 409](#)
- [“Supported DOM Events for High Interactivity Mode” on page 410](#)
- [“Supported DOM Events for Standard Interactivity Mode” on page 411](#)

About Browser Script

Browser Script executes in and is interpreted by the browser. Browser Scripts are written in JavaScript and interact with the Document Object Model (DOM) as well as with the Siebel Object Model available in the browser through the Browser Interaction Manager. A developer can script the behavior of Siebel events as well as the browser events that are exposed through the DOM. The DOM for Internet Explorer and Netscape Navigator are different. Using Siebel Tools you can write scripts for the appropriate browser type by selecting the appropriate User Agent.

NOTE: Browser Script may only be used with applications which run in high interactivity mode, except when scripting Control events supported by the Browser Document Object Model. Refer to [Table 82](#) and [Table 83](#) for a list of supported DOM events.

Do not use browser scripts to manipulate the location of a frame or form in the Siebel application because this causes a new page to be loaded. The result is a permission denied error, as it is a violation of good security practices.

A high interactivity application can contain standard interactivity views (Home Page view and Dashboard view for example). Applet-level browser scripts cannot be used on applets in those views (the same as in standard interactivity applications). Instead the server script WebApplet_ShowControl that is not supported in high interactivity is triggered on the applets for those standard interactivity views.

For information on generating browser scripts, see *Configuring Siebel Business Applications*.

Applet Methods for Browser Script

Table 71 lists a summary of the applet methods' syntax.

Table 71. Applet Methods Syntax Summary

Method	Description	Syntax
ActiveMode Method	Returns a string containing the name of the current Web Template mode.	var oApplet; var mode = oApplet.ActiveMode();
BusComp Method	Returns the business component that is associated with the applet.	var oApplet; var busComp = oApplet.BusComp();
BusObject Method	Returns the business object for the business component for the applet.	var oApplet; var oBusObject = oApplet.BusObject();
FindActiveXControl Method	Returns the ActiveX control whose name is specified in the argument.	var oApplet; var oControl; oControl = oApplet.FindActiveXControl(<i>controlName</i> as String);
FindControl Method	Returns the control whose name is specified in the argument.	var oApplet; var oControl; oControl = oApplet.FindControl(<i>controlName</i> as String);
InvokeMethod Method	Calls an argument-specified specialized method.	var oApplet; var outPs; outPs = oApplet.InvokeMethod(<i>methodName</i> as String, <i>inputPropSet</i> as PropertySet);
Name Method	Returns the name of the applet.	var oApplet; var name = oApplet.Name();

Applet Events for Browser Script

Table 72 lists a summary of the applet events.

Table 72. Applet Events Summary

Event	Description	Syntax
Applet_ChangeFieldValue Event	Called when the user updates a field value in the browser.	<code>Applet_ChangeFieldValue(<i>field</i>, <i>value</i>)</code>
Applet_ChangeRecord Event	Called when the user moves to a different row or view.	<code>Applet_ChangeRecord()</code>
Applet_InvokeMethod Event	Called after a specialized method or a user-defined method is invoked.	<code>Applet_InvokeMethod(<i>name</i>, <i>inputPropSet</i>)</code>
Applet_Load Event	Triggered after an applet has loaded and after data is displayed.	<code>Applet_Load()</code>
Applet_PreInvokeMethod Event	Called before a specialized method for the Web applet is invoked or a user-defined method is invoked through <code>oWebApplet.InvokeMethod</code> .	<code>Applet_PreInvokeMethod(<i>name</i>, <i>inputPropSet</i>)</code>

Application Methods for Browser Script

Table 73 lists a summary of the application methods' syntax.

Table 73 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with `InvokeMethod` on the Application object, see “[InvokeMethod Methods for the Application Object](#)” on page 143.

Table 73. Application Methods Syntax Summary

Method	Description	Syntax
ActiveApplet Method	Returns the name of the applet that has input focus.	<code>var applet; applet = theApplication.ActiveApplet();</code>
ActiveBusComp Method	Returns the business component associated with the active applet.	<code>var busComp; busComp = theApplication.ActiveBusComp();</code>
ActiveBusObject Method	Returns the business object for the business component of the active applet.	<code>var busObject; busObject = theApplication.ActiveBusObject();</code>

Table 73. Application Methods Syntax Summary

Method	Description	Syntax
ActiveViewName Method	Returns the name of the active view.	<pre>var viewName; viewName = theApplication().ActiveViewName();</pre>
FindApplet Method	Returns the applet object identified in the argument.	<pre>var applet; applet = theApplication().FindApplet (appletName);</pre>
GetProfileAttr Method	Returns the value of an attribute in a user profile.	<pre>var sAttr; sAttr = theApplication().GetProfileAttr(name);</pre>
GetService Method	Instantiates and returns a new instance of the service specified in the argument.	<pre>var svc; svc = theApplication().GetService (serviceName);</pre>
InvokeMethod Method	Calls the named specialized method.	<pre>var outPs; outPs = theApplication().InvokeMethod (methodName, methodArgs);</pre>
Name Method	Returns name of the application.	<pre>var appName; appName = theApplication().Name();</pre>
NewPropertySet Method	Constructs and returns a new property set object.	<pre>var PropSet; PropSet = theApplication().NewPropertySet();</pre>
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	<pre>theApplication().SetProfileAttr(name, value);</pre>
ShowModalDialog Method	Allows you to show a modal dialog box with the cursor maintained in its default state.	<pre>theApplication().ShowModalDialog (url[, argin][, options])</pre>
SWEAlert Method	Displays a modal dialog box containing a message to the user.	<pre>theApplication().SWEAlert(message);</pre>

Application Events for Browser Script

Table 74 lists a summary of the application events.

Table 74. Application Events Syntax Summary

Event	Description	Syntax
Application_InvokeMethod Event	Called after a specialized method is invoked.	<code>Application_InvokeMethod(<i>name</i>, <i>inputPropSet</i>)</code>
Application_PreInvokeMethod Event	Called before a specialized method is invoked.	<code>Application_PreInvokeMethod(<i>name</i>, <i>inputPropSet</i>)</code>

Business Component Methods for Browser Script

Table 75 lists a summary of the business component methods' syntax.

Table 75 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with InvokeMethod on the Business Component object, see [“InvokeMethod Methods for the Business Component Object” on page 216](#).

Table 75. Business Component Methods Syntax Summary

Method	Description	Syntax
BusObject Method	Returns the business object that contains the business component.	<code>var busComp; var busObject; busObject = busComp.BusObject();</code>
GetFieldValue Method	Returns a value for the field specified in the argument.	<code>var busComp; var value; value = busComp.GetFieldValue(<i>fieldName</i>);</code>
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	<code>var busComp; var sValue; sValue = busComp.GetFormattedFieldValue(<i>fieldName</i>);</code>
GetSearchExpr Method	Returns the current search expression.	<code>var busComp; var sExpr; sExpr = busComp.GetSearchExpr();</code>
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	<code>var busComp; var sSpec; sSpec = busComp.GetSearchSpec(<i>fieldName</i>);</code>

Table 75. Business Component Methods Syntax Summary

Method	Description	Syntax
InvokeMethod Method	Calls the specialized method named in the argument.	<pre>var BusComp; var sReturn; sReturn = BusComp.InvokeMethod(<i>methodName</i>, <i>methodArg1</i>, <i>methodArg2</i>, ..., <i>methodArgn</i>);</pre>
Name Method	Returns the name of the business component.	<pre>var busComp; var sName; sName = busComp.Name();</pre>
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<pre>var busComp; busComp.SetFieldValue(<i>fieldName</i>, <i>fieldValue</i>);</pre>
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	<pre>var busComp; busComp.SetFormattedFieldValue (<i>fieldName</i>, <i>fieldValue</i>);</pre>
WriteRecord Method	Commits to the database any changes made to the current record.	<pre>var busComp; busComp.WriteRecord();</pre>

Business Component Events for Browser Script

Table 76 lists a summary of the business component events.

Table 76. Business Component Events Syntax Summary

Event	Description	Syntax
BusComp_PreSetFieldValue Event	<p>Called when a value is changed by the user in the user interface.</p> <p>This Browser Script event is invoked after the server round trip if the Immediate Post Changes property of the Business Component field is set to TRUE.</p> <p>NOTE: This event is not invoked on picklists and multivalue fields.</p>	<code>BusComp_PreSetFieldVal ue (fieldName, value)</code>

Business Object Methods for Browser Script

Table 77 lists a summary of the business object methods' syntax.

Table 77. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	<pre>var busObject; var busComp; busComp = busObject.GetBusComp(<i>busCompName</i>);</pre>
Name Method	Returns the name of the business object.	<pre>Var sName; var busObject; sName = busObject.Name();</pre>

Business Service Methods for Browser Script

Table 78 lists a summary of the business service methods' syntax.

Table 78. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	<pre>var svc; var sName = svc.GetFirstProperty();</pre>
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	<pre>var svc; var sName = svc.GetNextProperty();</pre>
GetProperty Method	Retrieves the value stored in the specified property.	<pre>var svc; var value; value = svc.GetProperty(name);</pre>
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	<pre>var svc = TheApplication().GetService("Business Service"); var inputPropSet = TheApplication().NewPropSet(); svc.InvokeMethod(methodName, inputPropSet);</pre>
Name Method	Returns the name of the business service.	<pre>var svc; var name; name = svc.Name();</pre>
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	<pre>var svc; var bool; bool = svc.PropertyExists(name);</pre>
RemoveProperty Method	Removes a property from a business service.	<pre>var svc; svc.RemoveProperty(name);</pre>
SetProperty Method	Assigns a value to a property of a business service.	<pre>var svc; svc.SetProperty(name, value);</pre>

Business Service Events for Browser Script

Table 79 lists a summary of the business service events.

Table 79. Business Service Events Syntax Summary

Method	Description	Syntax
Service_InvokeMethod Event	Called when a business service is accessed.	<code>Service_InvokeMethod(<i>methodName, input</i>)</code>
Service_PreCanInvokeMethod Event	Called before the <code>PreInvokeMethod</code> , allowing the developer to determine whether or not the user has the authority to invoke the business service method.	<code>Service_PreCanInvokeMethod(<i>methodName</i>)</code>
Service_PreInvokeMethod Event	Called before a specialized method is invoked on a business service.	<code>Service_PreInvokeMethod(<i>methodName, inputPropSet</i>)</code>

Property Set Methods for Browser Script

Table 80 lists a summary of the property set methods' syntax.

Table 80. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	<pre>var oPropSet; var iIndex; iIndex = oPropSet.AddChild(<i>childObject</i>);</pre>
Copy Method	Returns a copy of a property set.	<pre>var oPropSet1; var oPropSet2; oPropSet2 = oPropSet1.Copy();</pre>
GetChild Method	Returns a specified child property set of a property set.	<pre>var oPropSet; var oChildPropSet; oChildPropSet = oPropSet.GetChild(<i>index</i>);</pre>
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	<pre>var oPropSet; var iCount; iCount = oPropSet.GetChildCount();</pre>

Table 80. Property Set Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Returns the name of the first property in a property set.	var oPropSet; var sPropName; sPropName = oPropSet.GetFirstProperty();
GetNextProperty Method	Returns the name of the next property in a property set.	var oPropSet; var sPropName; sPropName = oPropSet.GetNextProperty();
GetProperty Method	Returns the value of a property when given the property name.	var oPropSet; var sValue; sValue = oPropSet.GetProperty(<i>propName</i>);
GetPropertyCount Method	Returns the number of properties attached to a property set.	var oPropSet; var iCount; iCount = oPropSet.GetPropertyCount();
GetType Method	Returns the value stored in a type in a property set.	var oPropSet; var type; type = oPropSet.GetType();
GetValue Method	Returns a value stored as part of a property set.	var oPropSet; var sValue; sValue = oPropSet.GetValue();
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	var oPropSet; oPropSet.InsertChildAt(<i>childObject</i> , <i>index</i>);
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	var oPropSet; var bool; bool = oPropSet.PropertyExists(<i>propName</i>);
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	var oPropSet; oPropSet.RemoveChild(<i>index</i>);
RemoveProperty Method	Removes the property specified in its argument from a property set.	var oPropSet; oPropSet.RemoveProperty(<i>propName</i>);
Reset Method	Removes every property and child property set from a property set.	var oPropSet; oPropSet.Reset();
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	var oPropSet; oPropSet.SetProperty(<i>propName</i> , <i>propValue</i>);

Table 80. Property Set Methods Syntax Summary

Method	Description	Syntax
SetType Method	Assigns a data value to a type member of a property set.	<code>var oPropSet; oPropSet.SetType(<i>value</i>);</code>
SetValue Method	Assigns a data value to a value member of a property set.	<code>var oPropSet; oPropSet.SetValue(<i>value</i>);</code>

Control Methods for Browser Script

Table 81 lists a summary of the control methods' syntax.

Table 81. Control Methods Syntax Summary

Method	Description	Syntax
Applet Method	Returns the parent applet for the control.	<code>var oControl; var oApplet; oApplet = oControl.Applet();</code>
BusComp Method	Returns the corresponding business component for the control.	<code>var oControl; var busComp; busComp = oControl.BusComp();</code>
GetProperty Method	Returns the value of the property of a control.	<code>var oControl; var propVal; propVal = oControl.GetProperty(<i>propName</i>);</code>
GetValue Method	Returns the value of a control.	<code>var oControl; var sValue; sValue = oControl.GetValue();</code>
Name Method	Returns the name of the control.	<code>var oControl; var sName; sName = oControl.Name();</code>
SetProperty Method	Sets the visual properties of a control.	<code>var oControl; oControl.SetProperty(<i>propName</i>, <i>propValue</i>);</code>
SetValue Method	Sets the contents of the control to the indicated value.	<code>var oControl; oControl.SetValue(<i>value</i>);</code>

Supported DOM Events for High Interactivity Mode

Table 82 lists the supported Document Object Model (DOM) events for high interactivity mode.

Table 82. Supported DOM Events for High Interactivity Mode

Control	Siebel Control Type	Supported Events	Comments
Button	Native	OnFocus OnBlur	None
CheckBox	Native	OnFocus OnBlur	Rendered as Input Type=CHECKBOX.
Link	Native	OnFocus OnBlur	Rendered through paired anchor tags or as INPUT TYPE = TEXT in edit mode.
List Column	Native	This control does not expose any scriptable events.	None
Mailto	Native	OnFocus OnBlur	Rendered as anchor tags with HREF=mailto or as INPUT TYPE=TEXT in Edit mode.
MiniButton	Native	OnFocus OnBlur	None
Password	Native	OnFocus OnBlur	Rendered as Input Type = password.
Text	Native	OnFocus OnBlur	Rendered as INPUT TYPE = TEXT or as SELECT when attached to a pick list. If there is a pop-up window, it renders as an editbox plus a button.
TextArea	Native	OnFocus OnBlur	Rendered as TEXTAREA.
Tree	Native	Tree applets and controls do not expose any scriptable events.	None
URL	Native	OnFocus OnBlur	Rendered through paired anchor tags with an HREF = underlying field value or as INPUT TYPE = TEXT in edit mode.

NOTE: Siebel objects (business components, applets, and so on) cannot be accessed from DOM events.

Usually in scripting you can call routines in the General section from anywhere in the object. However you cannot call routines written in the General section from the DOM events.

To associate a script with the control_OnClick event (high interactivity mode only), use the Applet_PreInvokeMethod event associated with the applet. For additional information and example, read [Chapter 14, “Invoking Custom Methods with MiniButton Controls.”](#)

Supported DOM Events for Standard Interactivity Mode

Table 83 lists the supported Document Object Model (DOM) events and template modes for standard interactivity mode.

Table 83. Supported DOM Events and Template Modes for Standard Interactivity Mode

Control	Siebel Control Type	Supported Events	Comments
Button	Native	OnFocus (Base/Edit) OnBlur (Base/Edit) OnMouseOut (Base/Edit) OnMouseOver (Base/Edit)	None
CheckBox	Native	OnBlur (Base/Edit) OnFocus (Edit) OnChange (Edit) OnMouseOut (Edit) OnMouseOver(Edit)	In Base mode, a CheckBox appears as a Y or N text value. In Edit mode, a CheckBox is rendered as Input Type=CHECKBOX.
Link	Native	OnFocus (Base/Edit) OnBlur (Base/Edit) OnMouseOut (Base/Edit) OnMouseOver (Base/Edit) OnClick (Base/Edit)	Rendered through paired anchor tags or as INPUT TYPE = TEXT in Edit mode.
List Column	Native	List Columns currently do not expose any scriptable events.	None

Table 83. Supported DOM Events and Template Modes for Standard Interactivity Mode

Control	Siebel Control Type	Supported Events	Comments
Mailto	Native	OnChange (Edit) OnFocus (Base/Edit) OnBlur (Base/Edit) OnMouseOut (Base/Edit) OnMouseOver (Base/Edit)	Rendered as anchor tags with HREF=mailto or as INPUT TYPE=TEXT in Edit mode.
MiniButton	Native	OnFocus (Base/Edit) OnBlur (Base/Edit) OnMouseOut (Base/Edit) OnMouseOver (Base/Edit) OnClick (Base/Edit)	None
Password	Native	OnChange (Edit) OnFocus (Edit) OnBlur (Edit) OnMouseOut (Edit) OnMouseOver (Edit)	In Edit mode, a Password control is rendered as Input type = password.
Text	Native	OnChange (Edit) OnFocus (Edit) OnBlur (Edit) OnMouseOut (Edit) OnMouseOver (Edit)	In base mode, a text control is rendered as plain text, unless there is a pop-up window associated with it. In Edit mode, a TEXT control is rendered as INPUT TYPE = TEXT or as SELECT when attached to a pick list.
TextArea	Native	OnChange (Edit) OnFocus (Edit) OnBlur (Edit) OnMouseOut (Base/Edit) OnMouseOver (Edit)	In base mode, a TEXTAREA control is rendered as plain text, unless there is a pop-up window associated with it. In Edit mode, a TEXTAREA is rendered as INPUT TYPE = TEXTAREA.

Table 83. Supported DOM Events and Template Modes for Standard Interactivity Mode

Control	Siebel Control Type	Supported Events	Comments
Tree	Native	At this time, tree applets and controls do not expose any scriptable events.	None
URL	Native	OnChange (Edit) OnFocus (Base/Edit) OnBlur (Base/Edit) OnMouseOut (Base/Edit) OnMouseOver (Base/Edit)	Rendered through paired anchor tags with an HREF = underlying field value or as INPUT TYPE = TEXT in Edit mode.

13 Siebel eScript Quick Reference

This chapter provides a quick reference for Siebel eScript methods and events. It has the following topics:

- [“Applet Methods for eScript”](#)
- [“WebApplet Events for eScript” on page 416](#)
- [“Application Methods for eScript” on page 417](#)
- [“Application Events for eScript” on page 419](#)
- [“Business Component Methods for eScript” on page 420](#)
- [“Business Component Events for eScript” on page 424](#)
- [“Business Object Methods for eScript” on page 426](#)
- [“Business Service Methods for eScript” on page 426](#)
- [“Business Service Events for eScript” on page 427](#)
- [“Property Set Methods for eScript” on page 428](#)
- [“Miscellaneous Methods for eScript” on page 429](#)

NOTE: The ST eScript engine is the default eScript scripting engine in version 8.0. For information on syntax differences between it and the T engine, see *Siebel eScript Language Reference*.

Applet Methods for eScript

Table 84 lists a summary of the applet methods' syntax.

Table 84. Applet Methods Syntax Summary

Method	Description	Syntax
BusComp Method	Returns the business component that is associated with the applet.	<pre>var applet; var myBusComp; myBusComp = applet.BusComp();</pre>
BusObject Method	Returns the business object for the business component for the applet.	<pre>var applet; var busObject; busObject = applet.BusObject();</pre>

Table 84. Applet Methods Syntax Summary

Method	Description	Syntax
InvokeMethod Method	Calls an argument-specified specialized method.	<code>var applet; applet.InvokeMethod(<i>methodName</i>, <i>methodArg1</i>, <i>methodArg2</i>, ..., <i>methodArgn</i>);</code>
Name Method	Returns the name of the applet.	<code>var applet; var sApplet; sApplet = applet.Name();</code>

WebApplet Events for eScript

Table 85 lists a summary of the WebApplet events.

Table 85. WebApplet Events Summary

Event	Description	Syntax
WebApplet_InvokeMethod Event	Called after a specialized method or a user-defined method on the Web applet has been executed.	<code>WebApplet_InvokeMethod (<i>MethodName</i>)</code>
WebApplet_Load Event	Called just after the Web applet is loaded.	<code>WebApplet_Load</code>
WebApplet_PreCanInvokeMethod Event	Called before the PreInvokeMethod, allowing the developer to determine whether the user has the authority to invoke the applet method.	<code>WebApplet_PreCanInvokeMethod (<i>MethodName</i>, &<i>CanInvoke</i>)</code>
WebApplet_PreInvokeMethod Event	Called before a specialized method for the Web applet is invoked or a user-defined method is invoked through <code>oWebApplet.InvokeMethod</code> .	<code>WebApplet_PreInvokeMethod (<i>MethodName</i>)</code>

Table 85. WebApplet Events Summary

Event	Description	Syntax
WebApplet_ShowControl Event	Allows scripts to modify the HTML generated by the Siebel Web Engine to render a control on a Web page in a Standard Activity application.	<code>WebApplet_ShowControl (controlName, property, mode, &HTML)</code>
WebApplet_ShowListColumn Event	Allows scripts to modify the HTML generated by the Siebel Web Engine to render a list column on a Web page in a Standard Activity application.	<code>WebApplet_ShowListColumn (columnName, property, mode, &HTML)</code>

Application Methods for eScript

Table 86 lists a summary of the application methods' syntax.

Table 86 does not include methods that are not invoked directly from an Application object instance. For information on methods that are called with `InvokeMethod` on the Application object, see ["InvokeMethod Methods for the Application Object"](#) on page 143.

Table 86. Application Methods Syntax Summary

Method	Description	Syntax
ActiveBusObject Method	Returns the business object for the business component for the active applet.	<code>var busObject; busObject = TheApplet().ActiveBusObject();</code>
ActiveViewName Method	Returns the name of the active view.	<code>var sView; sView = TheApplet().ActiveViewName();</code>
CurrencyCode Method	Returns the three-letter operating currency code.	<code>var sCur; sCur = TheApplet().CurrencyCode();</code>
GetBusObject Method	Instantiates and returns a new instance of the business object specified in the argument.	<code>var myBusObject; myBusObject = TheApplet().GetBusObject (BusObjectName);</code>
Name Method	Returns the name of the application.	<code>var name; name = TheApplet().Name();</code>

Table 86. Application Methods Syntax Summary

Method	Description	Syntax
GetService Method	Instantiates and returns a new instance of the service specified in the argument.	<pre>var Service; Service = TheApplication(). GetService (serviceName);</pre>
GetSharedGlobal Method	Gets the shared user-defined global variables.	<pre>var sName; sName = TheApplication(). GetSharedGlobal (varName);</pre>
GotoView Method	Activates the named view and its business object.	<pre>TheApplication(). GotoView(viewName[, BusinessObject]);</pre>
InvokeMethod Method	Calls the named specialized method.	<pre>TheApplication(). InvokeMethod(methodName, methodArg1, methodArg2, ..., methodArgn);</pre>
LoginId Method	Returns the login ID of the user who started the Siebel application.	<pre>var sID; sID = TheApplication(). LoginId();</pre>
LoginName Method	Returns the login name of the user who started Oracle's Siebel application.	<pre>var sUser; sUser = TheApplication(). LoginName();</pre>
NewPropertySet Method	Constructs and returns a new property set object.	<pre>var oPropSet; oPropSet = TheApplication(). NewPropertySet();</pre>
PositionId Method	Returns the position ID that describes the user's current position.	<pre>var sRow; sRow = TheApplication(). PositionId();</pre>
PositionName Method	Returns the position name of the user's current position.	<pre>var sPosition; sPosition = TheApplication(). PositionName();</pre>
RaiseError Method	Raises a scripting error message to the browser. The error code is a canonical number.	<pre>var keyVal ; var arg1 ... ; TheApplication(). RaiseError(keyVal , arg1, ...);</pre>
RaiseErrorText Method	Raises a scripting error message to the browser. The error text is the specified literal string.	<pre>var message; TheApplication(). RaiseErrorText (message);</pre>
SetPositionId Method	Sets the active position to the position ID specified in the argument.	<pre>var success; success = TheApplication(). SetPositionId (posId);</pre>

Table 86. Application Methods Syntax Summary

Method	Description	Syntax
SetPositionName Method	Sets the active position to the position name specified in the argument. Returns a Boolean value indicating whether the method succeeded.	<pre>var success; success = TheApplication(). SetPositionName (posName);</pre>
SetProfileAttr Method	Used in personalization to assign values to attributes in a user profile.	<pre>TheApplication(). SetProfileAttr (name, value);</pre>
SetSharedGlobal Method	Sets a shared user-defined global variable.	<pre>TheApplication(). SetSharedGlobal (varName, value);</pre>
Trace Method	Appends a message to the trace file.	<pre>TheApplication(). Trace(message);</pre>
TraceOff Method	Turns off the tracing started by TraceOn.	<pre>TheApplication(). TraceOff();</pre>
TraceOn Method	Turns tracing on.	<pre>TheApplication(). TraceOn(filename, type, selection);</pre>

Application Events for eScript

Table 87 lists a summary of the application events.

Table 87. Application Events Syntax Summary

Event	Description	Syntax
Application_Close Event	Called before the application exits.	<pre>Application_Close()</pre>
Application_InvokeMethod Event	Called after a specialized method is invoked.	<pre>Application_InvokeMethod (methodName)</pre>
Application_Navigate Event	Called after the client has navigated to a view.	<pre>Application_Navigate()</pre>
Application_PreInvokeMethod Event	Called before a specialized method is invoked.	<pre>Application_PreInvokeMethod (methodName)</pre>
Application_PreNavigate Event	Called before the client has navigated from one view to the next.	<pre>Application_PreNavigate (DestViewName, DestBusObjName)</pre>
Application_Start Event	Called when the client starts.	<pre>Application_Start(commandLine)</pre>

Business Component Methods for eScript

Table 88 lists a summary of the business component methods' syntax.

Table 88 does not include methods that are not invoked directly from a Business Component object instance. For information on methods that are called with InvokeMethod on the Business Component object, see [“InvokeMethod Methods for the Business Component Object”](#) on page 216.

Table 88. Business Component Methods Syntax Summary

Method	Description	Syntax
ActivateField Method	Allows queries to retrieve data for the specified field.	<pre>var myBusComp; myBusComp.ActivateField(fieldName);</pre>
ActivateMultipleFields Method	Allows queries to retrieve data for the fields specified in the property set.	<pre>var myBusComp; myBusComp.ActivateMultipleFields(opPropSet);</pre>
Associate Method	Creates a new many-to-many relationship for the parent object through an association business component.	<pre>var myBusComp; myBusComp.Associate(<i>whereIndicator</i>);</pre>
BusObject Method	Returns the business object that contains the business component.	<pre>var myBusComp; var busObject; busObject = myBusComp.BusObject();</pre>
ClearToQuery Method	Clears the current query and sort specifications on the business component.	<pre>var myBusComp; myBusComp.ClearToQuery();</pre>
DeactivateFields Method	Deactivates every currently activated field.	<pre>var myBusComp; myBusComp.DeactivateFields();</pre>
DeleteRecord Method	Removes the current record from the business component.	<pre>var myBusComp; myBusComp.DeleteRecord();</pre>
ExecuteQuery Method	Retrieves a set of BusComp records.	<pre>var myBusComp; myBusComp.ExecuteQuery(<i>cursorMode</i>);</pre>
ExecuteQuery2 Method	Retrieves a set of BusComp records.	<pre>var myBusComp; myBusComp.ExecuteQuery2(<i>cursorMode</i>, <i>ignoreMaxCursorSize</i>);</pre>
FirstRecord Method	Moves to the first record in the business component.	<pre>var myBusComp; var blsRecord; blsRecord = myBusComp.FirstRecord();</pre>

Table 88. Business Component Methods Syntax Summary

Method	Description	Syntax
FirstSelected Method	Moves to the first record of the multiple selection in the business component.	<pre>var myBusComp; var bl sMul ti pl eSel ecti on; bl sMul ti pl eSel ecti on = myBusComp. Fi rstSel ected();</pre>
GetAssocBusComp Method	Returns the association business component.	<pre>var myBusComp; var AssocBusComp; AssocBusComp = myBusComp. GetAssocBusComp();</pre>
GetFieldValue Method	Returns a value for the field specified in the argument.	<pre>var myBusComp; var sVal ue; sVal ue = myBusComp. GetFi el dVal ue(<i>Fi el dName</i>);</pre>
GetFormattedFieldValue Method	Returns a formatted value for the field specified in the argument.	<pre>var myBusComp; var sVal ue; sVal ue = myBusComp. GetFormattedFi el dVal ue(<i>Fi e l dName</i>);</pre>
GetMultipleFieldValues Method	Returns a value for the fields specified in the property set.	<pre>var myBusComp; myBusComp. GetMul ti pl eFi el dVal ues (oFi el ds, oVal ues);</pre>
GetMVGBusComp Method	Returns the MVG business component associated with the field specified in the argument.	<pre>var myBusComp; var MvgBusComp; MvgBusComp= myBusComp. GetMVGBusComp(<i>Fi el dName</i>);</pre>
GetNamedSearch Method	Returns the named search specification specified in the argument.	<pre>var myBusComp; var sVal ue; sVal ue = myBusComp. GetNamedSearch(<i>SearchName</i>) ;</pre>
GetPicklistBusComp Method	Returns the pick business component associated with the field specified in the argument.	<pre>var myBusComp; var pi ckBusComp; pi ckBusComp = myBusComp. GetPi ckl i stBusComp (<i>Fi el dName</i>);</pre>
GetSearchExpr Method	Returns the current search expression.	<pre>var myBusComp; var sExpr; sExpr = myBusComp. GetSearchExpr();</pre>
GetSearchSpec Method	Returns the current search specification for the field specified in the argument.	<pre>var myBusComp; var sSpec; sSpec = myBusComp. GetSearchSpec(<i>Fi el dName</i>);</pre>

Table 88. Business Component Methods Syntax Summary

Method	Description	Syntax
GetSortSpec Method	Returns the active sort specification of the object that has context.	<code>var sSortSpec = this.GetSortSpec();</code>
GetUserProperty Method	Returns the value for a property name specified in the argument.	<code>var myBusComp; var sValue; sValue = myBusComp.GetUserProperty(<i>propertyName</i>);</code>
GetViewMode Method	Returns the visibility mode for the business component.	<code>var myBusComp; var iMode; iMode = myBusComp.GetViewMode();</code>
InvokeMethod Method	Calls the specialized method named in the argument.	<code>var myBusComp; var sReturn; sReturn = myBusComp.InvokeMethod(<i>methodName</i>, <i>methodArg1</i>, <i>methodArg2</i>, . . . , <i>methodArgn</i>);</code>
LastRecord Method	Moves to the last record in the business component.	<code>var myBusComp; var iReturn; iReturn = myBusComp.LastRecord();</code>
Name Method	Returns the name of the business component.	<code>var myBusComp; var sName; sName = myBusComp.Name();</code>
NewRecord Method	Adds a new record to the business component.	<code>var myBusComp; myBusComp.NewRecord(<i>whereIndicator</i>);</code>
NextRecord Method	Moves to the next record in the business component.	<code>var myBusComp; var bFound; bFound = myBusComp.NextRecord();</code>
NextSelected Method	Moves to the next record of the current multiple selection.	<code>var myBusComp; var iReturn; iReturn = myBusComp.NextSelected();</code>
ParentBusComp Method	Returns the parent business component.	<code>var myBusComp; var parentBusComp; parentBusComp = myBusComp.ParentBusComp();</code>
Pick Method	Places the currently selected record in a picklist business component into the appropriate fields of the parent business component.	<code>var myBusComp; myBusComp.Pick();</code>

Table 88. Business Component Methods Syntax Summary

Method	Description	Syntax
PreviousRecord Method	Moves to the previous record in the business component.	<pre>var myBusComp; var i Return; i Return = myBusComp.PreviousRecord();</pre>
RefineQuery Method	Refines a query after a query has been executed.	<pre>var myBusComp; myBusComp.RefineQuery();</pre>
SetFieldValue Method	Assigns a new value to the named field for the current row of the business component.	<pre>var myBusComp; myBusComp.SetFieldValue(<i>FieldName</i>, <i>FieldValue</i>);</pre>
SetFormattedFieldValue Method	Accepts the field value in the current local format and assigns the new value to the named field for the current row of the business component.	<pre>var myBusComp; myBusComp.SetFormattedFieldValue(<i>FieldName</i>, <i>FieldValue</i>);</pre>
SetMultipleFieldValues Method	Assigns a new value to the fields specified in the property set for the current row of the business component.	<pre>var myBusComp; myBusComp.SetMultipleFieldValues (oPropSet);</pre>
SetNameSearch Method	Sets a named search specification on the business component.	<pre>var myBusComp; myBusComp.SetNamedSearch(<i>searchName</i>, <i>searchSpec</i>);</pre>
SetSearchExpr Method	Sets the search specification for the business component.	<pre>var myBusComp; myBusComp.SetSearchExpr(<i>searchSpec</i>);</pre>
SetSearchSpec Method	Sets the search specification for the specified field.	<pre>var myBusComp; myBusComp.SetSearchSpec(<i>FieldName</i>, <i>searchSpec</i>);</pre>
SetSortSpec Method	Sets the sort specification for a query.	<pre>var myBusComp; myBusComp.SetSortSpec(<i>sortSpec</i>);</pre>
SetUserProperty Method	Sets the value of the specified User Property.	<pre>var myBusComp; myBusComp.SetUserProperty (<i>propertyName</i>, <i>newValue</i>);</pre>
SetViewMode Method	Sets the visibility type for the business component.	<pre>var myBusComp; myBusComp.SetViewMode(<i>viewMode</i>);</pre>

Table 88. Business Component Methods Syntax Summary

Method	Description	Syntax
UndoRecord Method	Reverses any uncommitted changes made to the record.	<code>var myBusComp; myBusComp.UndoRecord();</code>
WriteRecord Method	Commits to the database any changes made to the current record.	<code>var myBusComp; myBusComp.WriteRecord();</code>

Business Component Events for eScript

Table 89 lists a summary of the business component events.

Table 89. Business Component Events Syntax Summary

Event	Description	Syntax
BusComp_Associate Event	Called after a record is added to a business component to create an association.	<code>BusComp_Associate()</code>
BusComp_ChangeRecord Event	Called after the current row changes in the business component.	<code>BusComp_ChangeRecord()</code>
BusComp_CopyRecord Event	Called after a new row is copied in the business component.	<code>BusComp_CopyRecord()</code>
BusComp_DeleteRecord Event	Called after a row is deleted in the business component.	<code>BusComp_DeleteRecord()</code>
BusComp_InvokeMethod Event	Called after a specialized method is invoked in the business component.	<code>BusComp_InvokeMethod(<i>methodName</i>)</code>
BusComp_NewRecord Event	Called after a new row has been created and made active in the business component.	<code>BusComp_NewRecord()</code>
BusComp_PreAssociate Event	Called before a record is added to a business component to create an association.	<code>BusComp_PreAssociate()</code>

Table 89. Business Component Events Syntax Summary

Event	Description	Syntax
BusComp_PreCopyRecord Event	Called before a new row is copied in the business component.	BusComp_PreCopyRecord()
BusComp_PreDeleteRecord Event	Called before a row is deleted in the business component.	BusComp_PreDeleteRecord()
BusComp_PreGetFieldValue Event	Called when the value of the business component field is accessed.	BusComp_PreGetFieldValue(<i>FieldName</i> , & <i>FieldValue</i>)
BusComp_PreInvokeMethod Event	Called before a specialized method is invoked on a business component.	BusComp_PreInvokeMethod(<i>methodName</i>)
BusComp_PreNewRecord Event	Called before a new row is created in the business component.	BusComp_PreNewRecord()
BusComp_PreQuery Event	Called before query execution.	BusComp_PreQuery()
BusComp_PreSetFieldValue Event	Called before a value is pushed down into the business component from the user interface.	BusComp_PreSetFieldValue(<i>FieldName</i> , <i>FieldValue</i>)
BusComp_PreWriteRecord Event	Called before a row is written out to the database.	BusComp_PreWriteRecord()
BusComp_Query Event	Called after the query is complete and every row has been retrieved, but before they have been displayed.	BusComp_Query()
BusComp_SetFieldValue Event	Called after a value has been pushed down into the business component from the user interface.	BusComp_SetFieldValue(<i>FieldName</i>)
BusComp_WriteRecord Event	Called after a row is written to the database.	BusComp_WriteRecord()

Business Object Methods for eScript

Table 90 lists a summary of the business object methods' syntax.

Table 90. Business Object Methods Syntax Summary

Method	Description	Syntax
GetBusComp Method	Returns the specified business component.	<pre>var myBusObj ect; var myBusComp; myBusComp = myBusObj ect. GetBusComp(<i>BusCompName</i>);</pre>
Name Method	Returns the name of the business object.	<pre>var myBusObj ect as BusObj ect; var sName; sName = myBusObj ect. Name();</pre>

Business Service Methods for eScript

Table 91 lists a summary of the business service methods' syntax.

Table 91. Business Service Methods Syntax Summary

Method	Description	Syntax
GetFirstProperty Method	Retrieves the name of the first property of a business service.	<pre>var oServi ce; var sName; sName = oServi ce. GetFi rstProperty();</pre>
GetNextProperty Method	After the name of the first property has been retrieved, retrieves the name of the next property of a business service.	<pre>var oServi ce; var sName; sName = oServi ce. GetNextProperty();</pre>
GetProperty Method	Retrieves the value stored in the specified property.	<pre>var oServi ce; var sVal ue; sVal ue = oServi ce. GetProperty(<i>propName</i>);</pre>
Name Method	Returns the name of the business service.	<pre>var oServi ce; var sName; sName = oServi ce. Name();</pre>
InvokeMethod Method	Calls a specialized method or a user-created method on the business service.	<pre>var oServi ce; oServi ce. InvokeMethod(<i>methodName</i>, InputArguments, OutputArguments);</pre>
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	<pre>var oServi ce; var propExi sts; propExi sts = oServi ce. PropertyExi sts(<i>propName</i>);</pre>

Table 91. Business Service Methods Syntax Summary

Method	Description	Syntax
RemoveProperty Method	Removes a property from a business service.	var oService; oService.RemoveProperty(<i>propName</i>);
SetProperty Method	Assigns a value to a property of a business service	var oService; oService.SetProperty(<i>propName</i> , <i>propValue</i>);

Business Service Events for eScript

Table 92 lists a summary of the business service events.

Table 92. Business Service Events Syntax Summary

Method	Description	Syntax
Service_InvokeMethod Event	Called after a method is invoked in a business service.	Service_InvokeMethod (<i>methodName</i>)
Service_PreCanInvokeMethod Event	Called before the PreInvokeMethod, allowing the developer to determine whether or not the user has the authority to invoke the business service method.	Service_PreCanInvokeMethod (<i>methodName</i> , &CanInvoke)
Service_PreInvokeMethod Event	Called before a specialized method is invoked on a business service.	Service_PreInvokeMethod (<i>methodName</i> , Inputs, Outputs)

Property Set Methods for eScript

Table 93 lists a summary of the property set methods' syntax.

Table 93. Property Set Methods Syntax Summary

Method	Description	Syntax
AddChild Method	Adds subsidiary property sets to a property set.	<pre>var oPropSet; var iIndex; iIndex = oPropSet.AddChild(childObject);</pre>
Copy Method	Returns a copy of a property set.	<pre>var oPropSet1; var oPropSet2; oPropSet2 = oPropSet1.Copy();</pre>
GetChild Method	Returns a specified child property set of a property set.	<pre>var oPropSet; var sPropVal; sPropVal = oPropSet.GetChild(index);</pre>
GetChildCount Method	Returns the number of child property sets attached to a parent property set.	<pre>var oPropSet; var iCount; iCount = oPropSet.GetChildCount();</pre>
GetFirstProperty Method	Returns the name of the first property in a property set.	<pre>var oPropSet; var sPropName; sPropName = oPropSet.GetFirstProperty();</pre>
GetNextProperty Method	Returns the name of the next property in a property set.	<pre>var oPropSet; var sPropName sPropName = oPropSet.GetNextProperty();</pre>
GetProperty Method	Returns the value of a property when given the property name.	<pre>var oPropSet; var sPropVal sPropVal = oPropSet.GetProperty(propName);</pre>
GetPropertyCount Method	Returns the number of properties attached to a property set.	<pre>var count; count = oPropSet.GetPropertyCount();</pre>
GetType Method	Returns the value stored in a type in a property set.	<pre>var oPropSet; var sTypeVal sTypeVal = oPropSet.GetType(value);</pre>
GetValue Method	Returns a value stored as part of a property set.	<pre>var oPropSet; var sValVal; sValVal = oPropSet.GetValue(value);</pre>
InsertChildAt Method	Inserts a child property set into a parent property set at a specific location.	<pre>var oPropSet; oPropSet.InsertChildAt(childObject, index);</pre>

Table 93. Property Set Methods Syntax Summary

Method	Description	Syntax
PropertyExists Method	Returns a Boolean value indicating whether the property specified in the argument exists.	Dim oService as Siebel Service Dim propExists as Boolean propExists = oService.PropertyExists(<i>propName</i>)
RemoveChild Method	Removes a child property set as a specified index from a parent property set.	var oPropSet; oPropSet.RemoveChild(<i>index</i>);
RemoveProperty Method	Removes the property specified in its argument from a property set.	var oPropSet; oPropSet.RemoveProperty(<i>propName</i>);
Reset Method	Removes every property and child property set from a property set.	var oPropSet; oPropSet.Reset();
SetProperty Method	Assigns a value to the property of a property set specified in its argument.	var oPropSet; oPropSet.SetProperty (<i>propName</i> , <i>propValue</i>);
SetType Method	Assigns a data value to a type member of a property set.	var oPropSet; oPropSet.SetType(<i>value</i>);
SetValue Method	Assigns a data value to a value member of a property set.	var oPropSet; oPropSet.SetValue(<i>value</i>);

Miscellaneous Methods for eScript

Table 94 lists a summary of the miscellaneous method's syntax.

Table 94. Miscellaneous Methods Syntax Summary

Method	Description	Syntax
TheApplication Method	Global method that returns the unique object of type Application.	TheApplication(). <i>Application_</i> <i>method</i> ;

14 Invoking Custom Methods with MiniButton Controls

This chapter provides a procedure to invoke a custom method with a MiniButton control.

Invoking Custom Methods with MiniButton Controls

Be sure to set the appropriate Target Browser Group in Siebel Tools.

To invoke a custom method with a MiniButton control

- 1 Choose an applet (for example, Account List Applet) and create a control with the following properties:

Name = ButtonTest
Caption = Test
HTML Type = MiniButton
Method Invoked = MyTest

- 2 Right click the applet and choose Edit Web Layout.

The Web Layout Editor appears. The Controls/Columns window opens with the available controls, including the one you just created.

- 3 Change the template mode in the Controls/Columns window to 4: Edit List.

- 4 Drag and drop the ButtonTest control onto an available location. When you release the mouse button, the button appears.

- 5 Click Save, and then close the Web Layout Editor.

- 6 Enable the button using one of the following methods:

- To enable the button declaratively, select the applet in the Object List Editor, expand the Applet object in the Object Explorer, select the Applet User Prop object, and then create a new user property for the applet in the Object List Editor:

Name	Value
CanInvokeMethod: MyTest	TRUE

For more information on the CanInvokeMethod user property, see *Siebel Developer's Reference*.

NOTE: The declarative method is strongly recommended for performance reasons.

- To add a server script to the applet, right-click the applet and choose Edit Server Scripts. Add the following script to the WebApplet_PreCanInvokeMethod() function.

```
function WebApplet_PreCanI nvokeMethod (MethodName, &CanI nvoke)
{
  if (MethodName == "MyTest")
  {
    CanI nvoke = "TRUE";
    return(Cancel Operati on);
  }
  return(Conti nueOperati on);
}
```

- 7 Add the following browser script to the applet you are using (for example, the Account List Applet):

```
function Applet_PreI nvokeMethod (name, i nputPropSet)
{
  swi tch (name) {
    case "MyTest":
      theAppl i cati on().SWEAl ert("Browser scri pt!");
      return("Cancel Operati on");
    break;
  }
  return("Conti nueOperati on");
}
```

- 8 Compile the applet object by right-clicking on it and then choosing Compile Selected Objects.
- 9 Run any application that has access to accounts, and navigate to My Accounts.

The new button appears.

- 10 Click Test.

The Browser Script displays an alert box indicating "Browser Script!"

Index

A

ActivateField business component method, about 183

ActivateMultipleFields business component method, about 184

ActiveApplet application method, about 120

ActiveBusObject application method, about 122

ActiveMode applet method, about 96

ActiveViewName application method, about returning name of active view 124

ActiveX control, about using Login method 148

AddChild property set method, about 303, 304

allocations, about using **TraceOn** application method to track 172

applet events

- Applet_ChangeFieldValue**, about 103
- Applet_ChangeRecord** even, about 105
- Applet_InvokeMethod**, about 106
- Applet_Load**, about 107
- Applet_PreInvokeMethod**, about 108
- object interface events, table of 93
- WebApplet_InvokeMethod**, about 109
- WebApplet_Load** applet event 110
- WebApplet_Load**, about 107
- WebApplet_PreCanInvokeMethod**, about 112
- WebApplet_PreInvokeMethod**, about 113
- WebApplet_ShowControl** 114
- WebApplet_ShowListColumn**, about 116

applet methods

- ActiveMode**, about 96
- BusComp**, about 97
- BusObject**, about 98
- Find** control, about 99
- FindActiveXControl**, about 98
- InvokeMethod**, about 100
- Name**, about 102
- syntax summary (Browser Script), table of 400
- syntax summary (eScript), table of 415

Applet_ChangeFieldValue event, about 103

Applet_ChangeRecord event, about 105

Applet_InvokeMethod event, about 106

Applet_Load event, about 107

Applet_PreInvokeMethod event, about 108

applets

- ActiveApplet**. about returning reference to currently focused applet 120
- applet methods syntax summary (Browser Script), table of 400
- applet methods syntax summary (eScript), table of 415
- applet methods syntax summary (Siebel VB), table of 381
- Browser or Server script, adding to applet 40
- events, about and list of 73
- FindApplet**, about returning applet identified by argument 131
- object type, described 40
- parent applet object, about returning for control 294
- WebApplet** events summary (Siebel VB), table of 382
- WebApplet** events summary, table of (eScript), table of 416
- WebApplet** events syntax summary (Browser Script), table of 401

application events

- about and list of 74
- Application_Close** event, about 176
- Application_InvokeMethod**, about 176
- Application_Navigate**, about 177
- Application_PreNavigate**, about 179
- Application_Start**, about 180
- PreInvokeMethod**, about 177
- syntax summary, table of (eScript) 419
- table of object interface events 94

application methods

- ActiveApplet**, about 120
- ActiveBusComp**, about returning business component associated with 121
- ActiveBusObject**, about 122
- ActiveViewName**, about returning name of active view 124
- Attach**, about 125
- CurrencyCode**, about 127
- Detach**, about 128
- EnableExceptions**, about 129
- FindApplet**, about 131
- GetBusObject**, about 131
- GetDataSource**, **InvokeMethod** method 143

GetLastErrCode, about 133
 GetLastErrText, about 134
 GetProfileAttr, about 135
 GetService, about 135
 GetSharedGlobal, about 138
 GotoView, about 139
 InvokeMethod, about 142
 IsViewReadOnly, InvokeMethod method 144
 Language, InvokeMethod method 145
 LoadObjects, about 146
 LoadUserAttributes, about using to load user profile 148
 Login, about 148
 LoginID, about 150
 LoginName, about 151
 Logoff, about 152
 LookupMessage, about 153
 LookupValue, InvokeMethod method 145
 Name, about 154
 NewPropertySet, about 154
 PositionID, about 156
 PositionName, about 157
 RaiseError, about 158
 RaiseErrorText, about 159
 SetPositionID, about 161
 SetPositionName, about 162
 SetProfileAttr, about 162
 SetSharedGlobal, about 164
 syntax summary (COM data control), table 331
 syntax summary (COM data server), table 343
 syntax summary, table of (eScript) 417
 Trace, about 169
 TraceOff, about 171
 TraceOn, about 172

application object type

described 38
 unique object type, about using to return 322

Application_Close event, about 176

Application_InvokeMethod application event, about 176

Application_Navigate application event, about 177

Application_PreNavigate application event, about 179

Application_Start application event, about 180

applications

application events syntax summary (eScript), table of 419
 application methods summary (Siebel VB), table of 383

application methods syntax summary (COM data control), table 331
 application methods syntax summary (COM data server), table 343
 application methods syntax summary (eScript), table of 417
 application methods syntax summary (Mobile Web client), table 355
 events summary (Siebel VB), table of 386
 methods syntax summary (Browser Script), table of 401
 registering business services in Siebel Tools 136

association business component

Associate, about creating many-to-many relationship 186
 BusComp_Associate, about calling after record added to create association 257
 GetAssocBusComp, returning association business component 200

Attach application method, about 125

B

Browser Script

about 20
 applet methods syntax summary, table 400
 application methods syntax summary, table 401
 business component methods syntax summary, table 403
 business object methods syntax summary, table 405
 business service events syntax summary, table 407
 business service methods syntax summary, table 406
 Control methods syntax summary, table 409
 property set methods syntax summary, table 407
 WebApplet events syntax summary, table 401

Browser, adding to applet 40

BusComp

applet method, about 97
 control method, about 294
 ExecuteQuery, about return record using method 193
 ExecuteQuery2, about returning records using method 195
 object interface events, table of 94

BusComp_Associate business component event, about 257

- BusComp_ChangeRecord** business component event, about 258
- BusComp_CopyRecord** business component event, about 259
- BusComp_DeleteRecord** business component event, about 260
- BusComp_InvokeMethod** business component event, about 261
- BusComp_NewRecord** business component event, about 261
- BusComp_PreAssociate** business component event, about 262
- BusComp_PreCopyRecord** business component event, about 262
- BusComp_PreDeleteRecord** business component event, about 263
- BusComp_PreGetFieldValue** business component event, about 264
- BusComp_PreInvokeMethod** business component event, about 265
- BusComp_PreNewRecord** business component event, about 266
- BusComp_PreQuery** business component event, about 266
- BusComp_PreSetFieldValue** business component event, about 267
- BusComp_PreWriteRecord** business component event, about 269
- BusComp_Query** business component event, about 270
- BusComp_SetFieldValue** business component event, about 272
- BusComp_WriteRecord** business component event, about 272
- business active application associated with** 121
- business component events**
 - BusComp_Associate, about 257
 - BusComp_ChangeRecord, about 258
 - BusComp_CopyRecord, about 259
 - BusComp_DeleteRecord, about 260
 - BusComp_InvokeMethod, about 261
 - BusComp_NewRecord, about 261
 - BusComp_PreAssociate, about 262
 - BusComp_PreCopyRecord, about 262
 - BusComp_PreDeleteRecord, about 263
 - BusComp_PreGetFieldValue, about 264
 - BusComp_PreInvokeMethod, about 265
 - BusComp_PreNewRecord, about 266
 - BusComp_PreQuery, about 266
 - BusComp_PreSetFieldValue, about 267
 - BusComp_PreWriteRecord, about 269
 - BusComp_Query, about 270
 - BusComp_SetFieldValue, about 272
 - BusComp_WriteRecord, about 272
 - syntax summary, table of (eScript) 424
- business component methods**
 - ActivateField, about 183
 - ActivateMultipleFields, about 184
 - Associate, about 186
 - BusObject, about 188
 - ClearLOVCache, InvokeMethod method 216
 - ClearToQuery, about 189
 - CreateFile, InvokeMethod method 218
 - DeactivateFields, about 191
 - DeleteRecord, about 193
 - ExecuteQuery, about 193
 - ExecuteQuery2, about 195
 - FirstRecord, about 196
 - FirstSelected, about 198
 - GenerateProposal, InvokeMethod method 219
 - GetAssocBusComp, about 200
 - GetFieldValue, about 201
 - GetFile, InvokeMethod method 220
 - GetFormattedFieldValue, about 203
 - GetLasErrCode, about 205
 - GetLastErrText, about 206
 - GetMultipleFieldValues, about 206
 - GetMVGBusComp, about 207
 - GetNamedSearch, about 208
 - GetPicklistBusComp, about 209
 - GetSearchExpr, about 211
 - GetSearchSpec, about 212
 - GetSortSpec, about 212
 - GetProperty, about 213
 - InvokeMethod, about 215
 - LastRecord, about 224
 - Name, about 225
 - NewRecord, about 225
 - NextRecord, about 227
 - NextSelected, about 228
 - ParentBusComp, about 228
 - Pick, about 229
 - PreviousRecord, about 231
 - PutFile, InvokeMethod method 221
 - RefineQuery, about 232
 - RefreshBusComp, InvokeMethod method 222
 - RefreshRecord, InvokeMethod method 223
 - Release, about 233
 - SetAdminMode, InvokeMethod method 223
 - SetFieldValue, about 235
 - SetFormattedFieldValue, about 237
 - SetMultipleFieldValues, about 238
 - SetNamedSearch, about 240
 - SetSearchExpr, about 242
 - SetSearchSpec, about 244

SetSortSpec, about 248
 SetUserProperty, about 250
 SetViewMode, about 251
 syntax summary (COM data control),
 table 334
 syntax summary (COM data server),
 table 346
 UndoRecord, about 254
 WriteRecord, about 255

business components

about 59
 applet, associated with 97
 BusComp method, about returning for the
 control 294
 BusComp object, logical flow of
 instantiating 60
 business component events summary (Siebel
 VB), table of 391
 business component events syntax summary
 (eScript), table of 424
 business component methods syntax
 summary (COM data control),
 table 334
 business component methods syntax
 summary (COM data server),
 table 346
 business component methods syntax
 summary (eScript), table of 420
 business component methods syntax
 summary (Siebel VB), table of 386
 business rules, adding to 22
 database, committing records to 59
 GetBusComp, about returning for a business
 component 273
 methods for accessing, list of 62
 methods syntax summary (Browser Script),
 table of 403
 methods syntax summary (mobile Web
 client), table 358
 methods syntax summary, table of
 (eScript) 420
 name property, returning 225
 object type, described 39
 records, adding and inserting 59
 scenarios 60
 SiebelBusComp methods syntax summary
 (Java), table of 369

business object methods

GetBusComp, about 273
 GetLastErrCode, about 275
 GetLastErrText, about 275
 Name, about 276
 Release, about 276
 syntax summary (COM data control),

table 338
 syntax summary (COM data server),
 table 350
 table of 89

business objects

active applet, about returning for business
 component 122
 business object methods syntax summary
 (COM data control), table 338
 business object methods syntax summary
 (COM data server), table 350
 business object methods syntax summary
 (eScript), table of 426
 business object methods syntax summary
 (Siebel VB), table of 393
 BusObject, about returning business object
 for applet 98
 BusObject, about returning business object
 that contains business
 component 188
 methods syntax summary (Browser Script),
 table of 405
 methods syntax summary (Mobile Web
 client), table 362
 Name, about using to return name of business
 object 276
 object type, described 38

business rules

business component, adding to 22
 described 21

business service events

Service_InvokeMethod, about 288
 Service_PreCanInvokeMethod, about 289
 Service_PreInvokeMethod, about 290
 syntax summary, table of (eScript) 427

business service methods

GetFirstProperty, about 278
 GetLastErrCode, about 309
 GetLastErrText, about 310
 GetNextProperty, about 280
 GetProperty, about 281
 InvokeMethod, about 282
 Name, about 283
 PropertyExists, about 284
 Release, about 284
 RemoveProperty, about 286
 SetProperty, about 287
 syntax summary (COM data control),
 table 338, 339
 syntax summary (COM data server),
 table 351
 syntax summary, table of (eScript) 426

business service object type, described 39

business services

- business service events syntax summary (eScript), table of 427
- business service events syntax summary (Siebel VB), table of 394
- business service methods syntax summary (COM data control), table 338, 339
- business service methods syntax summary (COM data server), table 351
- business service methods syntax summary (eScript), table of 426
- business service methods syntax summary (Siebel VB), table of 393
- events syntax summary (Browser Script), table of 407
- methods syntax summary (Browser Script), table of 406
- methods syntax summary (mobile Web client), table 363
- object interface events, table of 95
- object interface methods, table of 89
- registering in Siebel Tools 136
- retrieving property names 280
- SetProperty, about assigning values to members of 287
- SiebelService methods syntax summary (Java), table of 373
- BusObject**
 - applet method, about 98
 - business component method, about 188
- C**
- C++**
 - Siebel COM Server, building in 325
 - Siebel COM Server, testing program 329
- CanInvokeMethod applet user property, using instead of PreCanInvokeMethod applet event** 112, 431
- ChangeFieldValue, about** 103
- ChangeRecord event, about** 105
- ClearLOVCache business component method, about** 216
- ClearToQuery business component method, about** 189
- coding, caution, about and using Siebel Tools** 19
- COM data control**
 - application methods syntax summary (table) 331
 - business component methods syntax summary (table) 334
 - business object methods syntax summary (table) 338
 - business service methods syntax summary (table) 338, 339
 - installation, about 37
 - load balancing with 76
 - property set methods syntax summary (table) 339
- COM data server**
 - application methods syntax summary (table) 343
 - business component methods syntax summary (table) 346
 - business object methods syntax summary (table) 350
 - business service methods syntax summary (table) 351
 - installation, about 37
 - interface method, about COM error handling 77
 - LoadObjects method, about using to start object and return reference 146
 - property set methods syntax summary (table) 352
- COM error handling, about and methods** 77
- COM interfaces**
 - Siebel COM client in C++, building 325
 - Siebel COM client in C++, testing program 329
- comparison operators, using in search expressions** 245
- connect string**
 - about, syntax, and example 74
 - leveraging load balancing with 76
 - Siebel Server, substitutions when logging into (table) 75
- constants, table of** 95
- control methods**
 - Applet method, about returning parent applet object 294
 - BusComp, about 294
 - GetProperty, about 295
 - GetValue, about returning control value 295
 - Name, about returning object name 296
 - SetProperty, about 297, 299
 - SetValue, about using to set contents of the control 300
 - syntax summary, table of (Browser Script), table of 409
- controls**
 - FindControl, about argument specified in 99
 - GetProperty, returning values of control properties 295
 - GetValue, returning value of control 295
 - object interface methods, table of 90
 - SetLabelProperty, assigning values to control

- properties 297
- SetProperty, assigning values to control properties 299
- SetValue, using to set the contents of the control 300

Copy property set method, about 304
copying records, using NewRecord method 226

CreateFile business component method, about 218

CurrencyCode application method, about 127

custom methods, invoking with MiniButton controls 431

D

data bean. See Java Data Bean, SiebelDataBean, individual Siebel Java entries 367

data value

- SetProperty, about using to assign value to 318
- SetType, about using to assign data value of type to property set 319

database, about using WriteRecord to commit to database 255

DeactivateFields business component method, about 191

deallocations, using TraceOn application method to track 172

debug tracings methods, table of 65

DeleteRecord business component method, about 193

Detach application method, about 128

E

EnableExceptions application method, about 129

error code

- application methods, about using
 - GetLastErrCode to return last error code 133
- business component methods, about using
 - GetLastErrCode to return most recent 205
- business object methods, about using
 - GetLastErrCode to return last error code 275
- business service methods, about using
 - GetLastErrCode to return most recent 309
- GetErrorCode, about using with Java Data Bean to display numeric code 320

error handling

See also *individual Siebel object interface entries*

- COM error handling, about and examples 77
- error message tracking 78
- native COM error handling, enabling and disabling 129

error messages

- business component methods, about using
 - GetLastErrText 206
- business object methods, about using
 - GetLastErrText 275
- business service methods, about using
 - GetLastErrText 310
- function_name Is An Unknown Function, about and correcting 24
- GetErrorMessage, about using with Java Data Bean to display message 322
- GetLastErrText, about returning last text error message 134

event method syntax 67

events, object interface events, table of 93

ExecuteQuery business component method, about 193

ExecuteQuery2 business component method, about 195

exposed object types, table of 41

external applications

- logging in 148

F

field value, method of returning in the current local format 203

FindActiveXControl applet method, about 98

FindApplet application method, about 131

FindControl applet method, about 99

FirstRecord business component method, about 196

FirstSelected business component method, about 198

G

GenerateProposal business component method, about 219

GetAssocBusComp business component method, about 200

GetBusComp business object method, about 273

GetBusObject application method, about 131

GetByteValue property set method 305

GetChild property set method, about 306

GetChildCount property set method,
about 307

GetDataSource application method,
about 143

GetErrorCode method, about 320

GetErrorMessage method, about using to
display error messages 322

GetFieldValue business component method,
about 201

GetFile business component method,
about 220

GetFirstProperty
business service method, about 278
property set method, about 308

GetFormattedFieldValue business
component method, about 203

GetLastErrCode
application method, about 133
business component method, about 205
business object method, about 275
business service method, about 309

GetLastErrText
application method, about 134
business component method, about 206
business object method, about 275
business service method, about 310
note, about availability to interfaces 26

GetMultipleFieldValues business component
method, about 206

GetMVGBusComp business component
method, about 207

GetNamedSearch business component
method, about 208

GetNextProperty
business service method, about 280
property set method, about 310

GetPicklistBusComp business component
method, about 209

GetProfileAttr application method,
about 135

GetProperty
business service method, about 281
control method, about 295
controls, about returning values of
properties 295
property set method, about 311

GetPropertyCount property set method,
about 312

GetSearchExpr business component method,
about 211

GetSearchSpec business component method,
about 212

GetService application method, about 135

GetSharedGlobal application method,

about 138

GetSortSpec business component method,
about 212

GetType property set method 312

GetUserProperty business component
method, about 213

GetValue
control method, about 295
property set method, about 313

global state, properties and functions 64

global variables
about and VB example 67
GetSharedGlobal application method,
about 138

GotoView application method, about 139

H

**high interactivity mode, about running
Browser scripts** 399

I

InsertChildAt property set method,
about 314

**installation procedures, object
interfaces** 37

**interface methods, table grouped by object
interface type** 81

InvokeMethod
applet method, about 100
Applet_InvokeMethod, about 106
application method, about 142
application methods invoked 143
business component method, about 215
business component methods invoked 216
business service method, about 282
ClearLOVCache method invoked 216
CreateFile method invoked 218
GenerateProposal method invoked 219
GetDataSource method invoked 143
GetFile method invoked 220
IsViewReadOnly method invoked 144
Language method invoked 145
LookupValue method invoked 145
PutFile method invoked 221
RefreshBusComp method invoked 222
RefreshRecord method invoked 223
SetAdminMode method invoked 223
WebApplet_InvokeMethod, about 109

IsViewReadOnly application method,
about 144

J

java Bean. See individual Siebel Java entries

Java Cryptography Extension (JCE), enabling 57

Java Data Bean

- GetErrorCode, about using to display numeric error codes 320
- GetErrorMessage, about using to display error messages 322
- table of SiebelDataBean method syntax 367

JavaScript. See Siebel eScript

JCE (Java Cryptography Extension), enabling 57

L

Language application method, about 145

LastRecord business component method, about 224

load balancing 76

Load event

- Applet_Load, about triggering after applet is loaded 107
- WebApplet_Load event, about triggering just after applet is loaded 110

LoadObjects application method, about 146

LoadUserAttributes application method, about 148

local variables, described and VB example 65

locating objects method, about and list of methods 58, 59

logical operators in search expressions 245

Login method application method, about 148

LoginId application method, about 150

LoginName application method, about 151

Logoff application method, about 152

LookupMessage application method, about 153

LookupValue application method, about 145

M

methods

- custom methods, invoking with MiniButton controls 431
- table grouped by interface type 81

Microsoft Foundation Class (MFC) library. See Siebel COM Data Server

Microsoft Visual Basic

- Siebel COM Data Control Interface, setting up to access 50
- Siebel COM Data Server, setting up to access 48
- Siebel Mobile Web Client Automation Server, setting up to access 46

Siebel Web Client Automation Server, setting up to access 44

MiniButton controls, using to invoke custom methods 431

Mobile Web client

- application methods syntax summary, table of 355
- business component methods syntax summary, table of 358
- business object methods syntax summary, table of 362
- business service methods syntax summary, table of 363
- property set methods syntax summary, table of 364

module variables, about and VB example 66

MVG business component, returning 207

N

Name

- applet method, about 102
- application method, about 154
- business component method, about 225
- business object method, about 276
- business service method, about 283
- control method, about 296

named field value, about using SetFieldValue to assign new value to 235

navigation methods, object interfaces 64

NewPropertySet application method, about 154

NewRecord business component method, about 225

NextRecord business component method, about 227

NextSelected business component method, about 228

O

object interface events

- See also* Siebel object interfaces, events
- applet, table of 93
- application, table of 94
- BusComp, table of 94
- business service, table of 95

object interface methods

- See also* Siebel object interfaces, methods
- applet, table of 81
- application, table of 82
- business component, table of 85
- business object, table of 89
- business service, table of 89
- control, table of 90

miscellaneous methods and events, table of 92

property set, table of 91

object interfaces. See Siebel object interfaces

object types

applet object type, described 40
 application, described 38
 business component, described 39
 business object, described 38
 business service, described 39
 property set, described 40
 Siebel object interfaces, object types, table of 41

object, about using Name method to return object name 296

operating currency code, returning 127

P

ParentBusComp business component method, about 228

Pick business component method

GetPicklistBusComp, returns component 209
 Pick method, about 229

Pick Method business component method 229

PositionId application method, about 156

PositionName application method, about 157

PreCanInvokeMethod

WebApplet_PreCanInvokeMethod, about 112

PreInvokeMethod

Applet_PreInvokeMethod, about 108
 Application_PreInvokeMethod, about 177
 WebApplet_PreInvokeMethod, about 113

PreviousRecord business component method, about 231

programming

custom extension routines, about extending data validation 21
 environment, component of 20
 languages, about 19
 user interface components, about customizing behavior 21

programming with Siebel Object interfaces, about 31

properties of controls

GetProperty, about returning values 295
 SetLabelProperty, about assigning visual properties 297
 SetProperty, about assigning visual properties 299

property set methods

AddChild, about adding subsidiary property set to 303
 Copy, about returning copy of set 304
 GetByteValue 305
 GetChild, about returning child property of property set 306
 GetChildCount, about returning child property sets attached to 307
 GetFirstProperty, about returning name of first property 308
 GetNextProperty, about returning next property 311
 GetProperty, about returning property value when given name 311
 GetPropertyCount, about returning number of properties attached to 312
 GetValue, about retrieving data value 313
 InsertChildAt, about inserting child property set into parent property 314
 object interface methods, table of 91
 RemoveChild, about removing child property set from parent property set 315
 RemoveProperty, about removing a property from property set 316
 SetByteValue 317
 SetProperty, about assigning a data value to property 318
 SetType, about assigning data value of type 319
 syntax summary (COM data control), table 339
 syntax summary (COM data server), table 352
 syntax summary table (eScript) 428
property set object type, described 40
property sets
 business service methods syntax summary (COM data control), table 339
 business service methods syntax summary (COM data server), table 352
 Copy, about returning copy of 304
 GetChild, about retrieving child property set 306
 GetFirstProperty, about retrieving property names 308
 GetNextProperty, about retrieving property names 310
 GetProperty, about retrieving property values 311
 GetPropertyCount, about retrieving values of type members 312
 GetType, about retrieving values of type members 312

GetValue, about retrieving value values 313
 InsertChildAt, about adding subsidiary 314
 methods syntax summary (Browser Script),
 table of 407
 methods syntax summary (eScript), table
 of 428
 methods syntax summary (Mobile Web
 client), table 364
 methods syntax summary (Siebel VB), table
 of 395
 methods syntax summary (Siebel Web client),
 table of 379
 RemoveChild, about removing child property
 set 315
 RemoveProperty, about removing properties
 of 316
 Reset, about removing properties and child
 properties 316
 SetProperty, about assigning values to
 members of 318
 SetType, about assigning values to type
 members 319
 SetValue, about assigning values to value
 member 319
 SiebelPropertySet methods syntax summary
 (Java), table of 374
 tree-structured data structures, for 303

PropertyExists

business service method, about 284
 property set method, about retuning Boolean
 value 314

PutFile business component method, about 221

Q

queries

ClearToQuery, about using to clear
 query 189
 GetSortSpec, using to get sort
 specification 212
 RefineQuery, about using to define after
 execution 232
 SetSortSpec, using to set sort
 specification 248

quotation marks, about using in search expressions 245

R

RaiseError application method, about 158

**RaiseErrorText application method,
 about 159**

records

LastRecord, about using to move to 224

NewRecord, about adding a new record
 (row) 225
 NextSelected, about using to move focus to
 next record 228
 Pick, about placing record in a picklist 229
 PreviousRecord, about moving to previous
 record 231
 UndoRecord, about using to reverse
 uncommitted changes 254
 WriteRecord, about committing database
 changes 255

**RefineQuery business component method,
 about 232**

**RefreshBusComp business component
 method, about 222**

**RefreshRecord business component method,
 about 223**

Release

business component method, about 233
 business object method, about 276
 business service method, about 284

**RemoveChild property set method,
 about 315**

RemoveProperty

business service method, about 286
 property set method, about 316

**Reset property set method, about removing
 properties and child property
 sets 316**

run-time engine, invoking 24

S

script tracing 22

search expression

GetSearchExpr, about using to return current
 search expression 211
 SetSearchExpr, about setting on entire search
 expression 242

search specification

Field name argument, about returning for field
 specified in 212
 searchName, returns named search
 specification 208
 SetNamedSearch, about setting a named
 search specification on the business
 component 240
 SetSearchSpec, about setting for a particular
 field 244
 SetSearchSpec, about setting for particular
 field 244

server components, logging events 22

Server Script, components 20

server, about Logoff method 152

- Service_InvokeMethod** business service event, about 288
- Service_PreCanInvokeMethod** business service event, about 289
- Service_PreInvokeMethod** business service event, about 290
- SetAdminMode** business component method, about 223
- SetByteValue** property set method 317
- SetFieldValue** business component method, about 235
- SetFormattedFieldValue** business component method, about 237
- SetLabelProperty**
 - controls, about setting visual properties 297
- SetMultipleFieldValues** business component method, about 238
- SetNamedSearch** business component method, about 240
- SetPositionID** application method, about 161
- SetPositionName** application method, about 162
- SetProfileAttr** application method, about 162
- SetProperty**
 - business service method, about assigning 287
 - controls, about setting visual properties 299
 - property set method, about assigning data value to 318
- SetSearchExpr** business component method, about 242
- SetSearchSpec** business component method, about 244
- SetSharedGlobal** application method, about 164
- SetSortSpec** business component method, about 248
- SetType** property set method, about 319
- SetUserProperty** business component method, about 250
- SetValue**
 - control, about using to set contents of 300
 - property set, about assigning data value to 319
- SetViewMode** business component method, about 251
- ShowModalDialog** application method, about 166
- Siebel** business components, about events and list of 71
- Siebel COM Data Control**
 - about and diagram 32
 - instantiating 50
- Siebel COM Data Server**
 - about and diagram 34
 - building in C++ 325
 - C++, testing program 329
 - instantiating 48
- Siebel COM interfaces**
 - accessing 44
 - COM Data Control interfaces, about and diagram 32
 - COM Data Server, about and diagram 34
 - COM error handling 77
 - Siebel Mobile Web Client Automation Server, about and diagram 35
 - Siebel Web Client Automation Server, about and diagram 34
- Siebel Compiler**
 - compiler/interpreter described 20
 - order considerations and error message 24
- Siebel compiler**
 - invoking 24
- Siebel constants table** 95
- Siebel eScript**
 - about 19
 - applet methods, syntax summary (table) 415
 - application events syntax summary, table of 419
 - application methods syntax summary, table of 417
 - business component events syntax summary, table of 424
 - business component methods syntax summary, table of 420
 - business object methods syntax summary, table of 426
 - business service events syntax summary, table of 427
 - business service methods syntax summary, table of 426
 - naming conventions, about using standardized 28
 - property set methods syntax summary, table of 428
 - Siebel VB, differences between 27
 - ST eScript engine 24
 - Switch construct, making effective use of 29
 - syntax conventions 43
 - theApplication, method syntax summary, table of 429
 - this object reference, about using and example 28
 - variables, declaring 28
 - WebApplet event summary, table of 416

- with shortcut, about and example 28
- Siebel eScript language, about** 20
- Siebel extension events**
 - applet events, about and list of 73
 - application events, about and list of 74
 - events occur, determining when 71
 - method syntax 67
 - program flow, process affected by script 68
 - Siebel business component events, about and list of 71
- Siebel Java Bean**
 - codepage support (table) 55
 - data Bean, about installation 37
 - JDB and Siebel Server, encrypting communication between 56
 - SiebelBusComp methods syntax summary, table of 369
 - SiebelDataBean methods syntax summary, table of 367
 - SiebelExceptions methods syntax summary, table of 376
 - SiebelPropetySet methods syntax summary, table of 374
 - SiebelService methods syntax summary, table of 373
- Siebel Java interfaces**
 - multiple threads, using with 36
 - object, about using to access 36
- Siebel Mobile Web Client Automation Server**
 - about and diagram 35
 - accessing 46
 - installation 38
- Siebel object interfaces**
 - See also* error handling
 - about 32
 - component of Siebel programming environment described 20
 - interface installations, about 37
 - Java Data Bean 52
 - Siebel COM Data Control, instantiating 50
 - Siebel COM Data Server, instantiating 48
 - Siebel COM interfaces, accessing method 32
 - Siebel Java interfaces 36
 - Siebel methods and events, about accessing from scripts 36
 - usage evaluation matrix, table 37
- Siebel object interfaces, events**
 - See also individual Siebel object interface entries*
 - applet events, about and list of 73
 - application events, about and list of 74
 - events occur, determining when 71
 - method syntax 67
 - program flow, process affected by script 68
 - Siebel business component events, about and list of 71
- Siebel object interfaces, getting started**
 - See also individual Siebel object interface entries*
 - connect string, about, syntax, and example 74
 - connect string, substitutions when logging into a Siebel Server (table) 75
 - Siebel COM Data Control, accessing and screen example 50
 - Siebel COM interfaces, accessing 44
 - Siebel mobile Web client automation server, accessing 46
 - Siebel Web Client Automation Server, accessing 44
- Siebel object interfaces, methods**
 - See also individual Siebel object interface entries*
 - business components, accessing 59
 - examples 42
 - global state properties and functions 64
 - list of 58
 - locating objects, about and list of methods 58, 59
 - navigation methods 64
 - syntax 41
 - user interaction, about and methods 64
- Siebel programming**
 - constants, table of 95
 - custom extension routines, about extending data validation 21
 - environment, components of 20
 - user interface components, about customizing behavior 21
- Siebel script**
 - debug tracing methods, table of 65
 - global variables, about and VB example 67
 - local variables, about and VB example 65
 - module variables, about and VB example 66
- Siebel Script Editor**
 - about 20
 - Script Assist 20
- Siebel Server**
 - applet, adding to 40
 - JDB and Siebel Server, encrypting between 56
- Siebel session ID, about returning string containing Id** 128
- Siebel VB**
 - about 19
 - applet methods syntax summary, table of 381
 - application events summary, table of 386

- application methods syntax summary, table of 383
 - business component methods syntax summary, table of 386
 - business components events summary, table of 391
 - business object methods syntax summary, table of 393
 - business service events syntax summary, table of 394
 - business service methods syntax summary, table of 393
 - components of 20
 - date variables, about working with 27
 - getting started 25
 - Me object reference, about using and example 25
 - naming conventions, using standardized 25
 - objects, destroying and example 27, 30
 - picklist, picking a value from 209
 - property set methods syntax summary, table of 395
 - run-time errors, about trapping 26
 - Select Case, making effective use of 26
 - Siebel eScript, differences between 27
 - syntax conventions 42
 - theApplication method, syntax summary 397
 - variables, declaring 25
 - WebApplet events, summary (table) 382
 - With shortcut, using and example 26
 - Siebel VB language, about 20**
 - Siebel Web client**
 - property set methods syntax summary, table of 379
 - Siebel Service methods syntax summary, table of 378
 - SiebelHTMLApplication methods syntax summary, table of 377
 - Siebel Web Client Automation Server**
 - about and diagram 34
 - accessing 44
 - installation, about 38
 - SiebelBusComp methods syntax summary (Java), table of 369**
 - SiebelDataBean methods syntax summary (Java), table of 367**
 - SiebelException methods**
 - syntax summary (Java), table of 376
 - SiebelHTMLApplication methods syntax summary, table of 377**
 - SiebelPropertySet methods syntax summary (Java), table of 374**
 - SiebelService methods**
 - syntax summary (Java), table of 373
 - syntax summary (Siebel Web client), table of 378
 - sort specification**
 - getting 212
 - setting 248
 - special characters, using in search expressions 245**
 - specialized methods, calling 215**
 - ST eScript engine**
 - about 24
 - subsidiary property sets, about using AddChild to add to a property set 303**
- T**
- theApplication method**
 - object type, about using to return 322
 - syntax summary (eScript), table of 429
 - syntax summary (Siebel VB) 397
 - Trace application method, about 169**
 - TraceOff application method**
 - about 171
 - debug tracing, about 65
 - TraceOn application method**
 - about 172
 - debug tracing, about 65
 - tracing scripts 22**
 - tree-structured data structures, creating using property sets 303**
- U**
- UndoRecord business component method, about 254**
 - user interaction, object interface methods 64**
 - user interface control object type 40**
 - user property value**
 - GetUserProperty, about using to return value 213
 - SetUserProperty, about using to set the value of named business user property 250
 - user-created methods, calling 215**
- V**
- value, returning value of control 295**
 - visibility type**
 - SetViewMode, about setting for business component 251
- W**
- Web Client Automation Server, enabling 34**

WebApplet events

summary, table of (eScript) 416
syntax summary, table of (Browser
Script) 401

WebApplet_InvokeMethod event,
about 107

WebApplet_Load event, about 110

WebApplet_PreCanInvokeMethod event,

about 112

WebApplet_PreInvokeMethod event,
about 113

WebApplet_ShowControl event, about 114

WebApplet_ShowListColumn event,
about 116

WriteRecord business component method,
about 255