PL/SQL Developer Plug-In interface Documentation

Version 2.10 of PL/SQL Developer introduced a Plug-In interface. The purpose of this interface is easy external addition of new functionality to PL/SQL Developer. Plug-Ins should be used to add functions to PL/SQL Developer that are not very well suited as built-in functions. Reasons to build a Plug-In could be to add some company or product specific functions. You could also consider to build commercial Plug-Ins (no license fee required). We will distribute some Plug-Ins of our own on our web site (several interfaces to version control systems), we can also promote yours (commercial or not) if you wish.

A Plug-In is a DLL, so if you are using a programming language that can create DLL's, you can create PL/SQL Developer Plug-Ins. On startup PL/SQL Developer will check certain directories for *.dll files which will be loaded if certain key functions are available. If one or more Plug-Ins are found, the configuration menu item is enabled which allows an end-user to activate or de-activate Plug-Ins.

The interface is built in C++ style. This means that if you are using a non C++ language (like Delphi) you should make sure that you force all calls (export functions and callbacks) to the C++ calling convention. To prevent programming language incompatibilities we limited the number of different parameters to three, Boolean (32 bit), Integer (32 bit) and zero terminated strings.

If you should find a bug or if you have wishes for additional functions, just let us know and we will try to improve the interface. We'll make sure however that any modifications to the interface will be upward compatible.

Basic functions

There are ten functions that can be exported from the DLL. Three of these functions are required for PL/SQL Developer to recognize a DLL as a Plug-In. Below are the basic functions to create a functional Plug-In.

NOTE:

Starting in version 500, only the IdentifyPlugIn function is required as a necessary function for PL/SQL Developer to recognize the Plug-In.

o recognize the Flug-in.			
Plug-In Primary functions	Plug-In Primary functions		
IdentifyPlugIn	C++ char* IdentifyPlugIn(int ID)		
	Delphi function IdentifyPlugIn(ID: Integer): PChar		
	This function receives a Plug-In ID from PL/SQL Developer and should return a description for the Plug-In. The returned description should be unique for your Plug-In and will be displayed in the Plug-In configuration dialog. The ID identifies your Plug-In and can be used in other callback functions.		
CreateMenuItem	C++ char* CreateMenuItem(int Index)		
	Delphi function CreatMenuItem(Index: Integer): PChar		
	This function will be called with an Index ranging from 1 to 99. For every Index you can return a string that creates a new menu-item in PL/SQL Developer.		
OnMenuClick	C++ void OnMenuClick(int Index)		
	Delphi procedure OnMenuClick(Index: Integer)		
	This function is called when a user selected a menu-item created with the CreateMenuItem function and the Index parameter has the value (1 to 99) it is related to.		

A simple Delphi Plug-In built with these functions could look like this:

```
var PlugInID: Integer;
const Desc = 'Test Plug-In';

function IdentifyPlugIn(ID: Integer): PChar; cdecl;
begin
  PlugInID := ID;
  Result := Desc;
end;
```

```
function CreateMenuItem(Index: Integer): PChar; cdecl;
  Result := '';
  {\tt case} \ {\tt Index} \ {\tt of}
    10 : Result := 'Tools / -';
    11 : Result := 'Tools / Say &Hello...';
    12 : Result := 'Tools / Say &Goodbye...';
  end;
end;
procedure OnMenuClick(Index: Integer); cdecl;
begin
  case Index of
   11 : ShowMessage('Hello');
    12 : ShowMessage('Goodbye');
end;
exports
  IdentifyPlugIn,
  CreateMenuItem,
  OnMenuClick;
```

In this example a menu separator and two menu items will be created which will display a message when selected.

As mentioned, the CreatMenuItem function is called with Index values ranging from 1 to 99. In the example three values are returned for Index 10, 11 and 12. To create a menu simply return the menu structure where the menu items are separated by a slash. If, for example, you wanted to create a new menu item in PL/SQL Developers File menu, the return value could look like this:

```
Result := 'File / My menu item'
```

You can create a menu separator if you specify a – as menu item like this:

```
Result := 'File / -'
```

If you wanted add a menu that should appear in the File - Open submenu, you could return this:

```
Result := 'File / Open / My menu item'
```

Spaces around the slash are optional and you can add a & to create keyboard shortcuts, so the last example could also be:

```
Result := 'File/Open/&My menu item'
```

If a menu item does not exist, it will be created. This means that you can even create new main menu and submenu items.

The new items in the previous examples will all be created as the last item. This is not always acceptable, sometimes you want to create a new menu item in the middle of an existing menu. If you wanted to create a new save method, you probably want it near the existing PL/SQL Developer save menu items. You can insert a new menu item by first specifying an existing menu followed by a << or >> (to insert before or after), followed by your new menu:

```
Result := 'File / Save all >> &My save'
```

To return to the example, the three return values will result in three menu items at the end of the existing PL/SQL Developer Tools menu.

```
10 : Result := 'Tools / -';
11 : Result := 'Tools / Say &Hello...';
12 : Result := 'Tools / Say &Goodbye...';
```

Since a menu separator can not be selected, the OnMenuClick function only has to check for values 11 and 12, which will display a simple message dialog.

Event functions
You can build some more intelligence in your Plug-In with the following functions. These functions are events that get called when something changes in PL/SQL Developer. One important thing you can do with these is enable/disable the menu-item(s) your Plug-In created.

Plug-In Event functions	
OnCreate	C++ void OnCreate()
	Delphi procedure OnCreate
	This function is called when the Plug-In is loaded into memory. You can use it to do some one-time initialization. PL/SQL Developer is not logged on yet and you can't
	use the callback functions, so you are limited in the things you can do.
OnActivate	C++ void OnActivate()
	Delphi procedure OnActivate
	OnActivate gets called after OnCreate. However, when OnActivate is called PL/SQL
	Developer and the Plug-In are fully initialized. This function is also called when the Plug-In is enabled in the configuration dialog. A good point to enable/disable menus.
OnDeactivate	C++ void OnDeactivate()
Available in version 300	Delphi procedure OnDeactivate
	This is the counterpart of the OnActivate. It is called when the Plug-In is de-activated
	in the configuration dialog.
OnDestroy	C++ void OnDestroy() Delphi procedure OnDestroy
	Delphii procedure Officestroy
	This is the counterpart of the OnCreate. You can dispose of anything you created in
	the OnCreate.
CanClose	C++ BOOL CanClose()
Available in version 700	Delphi function CanClose: Bool
	This will be called when PL/SQL Developer is about to close. If your PlugIn is not
	ready to close, you can show a message and return False.
AfterStart	C++ void AfterStart()
Available in version 710	Delphi procedure AfterStart
O = D = = = = = O = = = = = =	Called after all Plug-Ins are loaded and PL/SQL Developer is finished starting.
OnBrowserChange	C++ void OnBrowserChange() Delphi procedure OnBrowserChange
	Delphi procedure Oribrowser Griange
	If your Plug-In depends on a selected item in the Browser, you can use this function
	to enable/disable menu-items. This function is called on every change in the Browser.
	You can use the IDE_GetBrowserInfo callback function to determine if the selected
OnWindowChange	item is of interest to you. C++ void OnWindowChange()
On window on ange	Delphi procedure OnWindowChange
	, , , , , , , , , , , , , , , , , , ,
	This function is called if PL/SQL Developer child windows change focus. You can use
On Window Cooks	the IDE_GetWindowType callback to determine the active child window type.
OnWindowCreate Available in version 502	C++ void OnWindowCreate(int WindowType) Delphi procedure OnWindowCreate(WindowType: Integer)
Available in vereien dez	Delphi procedure Onwindoworeate(windowrype: integer)
	This function is called directly after a new window is created.
OnWindowCreated	C++ void OnWindowCreated(int WindowType)
Available in version 514	Delphi procedure OnWindowCreated(WindowType: Integer)
	This function is called often a new window is seed at The difference with the "O. 1."
	This function is called after a new window is created. The difference with the "Create" function is that the Window is now completely initialized.
OnWindowClose	C++ int OnWindowClose(int WindowType, BOOL Changed)
Available in version 502	Delphi function OnWindowClose(WindowType; Integer; Changed: BOOL):
	Integer

	This function allows you to take some action before a window is closed. You can
	influence the closing of the window with the following return values:
	0 = Default behavior
	1 = Ask the user for confirmation (like the contents was changed)
	2 = Don't ask, allow to close without confirmation
Defense Francis Mindon	The Changed Boolean indicates the current status of the window.
BeforeExecuteWindow	C++ BOOL BeforeExecuteWindowe(int WindowType)
Available in version 714	Delphi function BeforeExecuteWindow(WindowType: Integer): Bool
	This function is called before a Window is executed. Nothing is actually executed yet,
	and you can cancel execution by returning false. When you do return false, please
	give some feedback to the user why execution was cancelled.
AfterExecuteWindow	C++ void AfterExecuteWindow (int WindowType, int Result)
Available in version 714	Delphi procedure AfterExecuteWindow(WindowType, Result: Integer)
	When execution is finished, this function is called. The return parameter will indicate
	how execution finished:
	0 = Finished with error
	1 = Finished with the option to continue (like "next page" in the SQL Window)
	2 = Finished successfully
OnConnetionChange	C++ void OnConnectionChange()
_	Delphi procedure OnConnectionChange
	This function is called when the user logs on to a different database or logs off. You
	can use the IDE_Connected and IDE_GetConnectionInfo callback to get information
	about the current connection.
OnPopup	C++ void OnPopup(char *ObjectType, char *ObjectName)
Available in version 300	Delphi procedure OnPopup(ObjectType, ObjectName: PChar)
	procedure our opap(os)our, po, os)our.aor. onar,
	This function is called when a context sensitive popup is about to be displayed. It
	gives you the opportunity to do something with the menus you have created with the
	IDE_CreatePopupMenuItem callback.
OnMainMenu	C++ void OnMainMenu(char *MenuName)
Available in version 401	Delphi procedure OnMainMenu(MenuName: PChar)
	Dolphi procedure chiwaminicha (wenananie: 1 char)
	This function is called when a main menu is selected (when it drops down). You can
	use this event to activate your Plug-In menu(s) if none of the other events are
	appropriate. The MenuName parameter is the name of the main menu item that was
	selected.
OnTemplate	C++ BOOL OnTemplate(char *Filename, char **Data)
Available in version 702	Delphi function OnTemplate(Filename: PChar; var Data: PChar): Bool
	Delphi Tunction Offremplate(Flieriane, Fonar, var Data, Fonar). Booi
	This function is called before a template is executed. This gives you a chance to
	modify the contents in the Data parameter. If you return false, the template is
	cancelled.
OnFileLoaded	C++ void OnFileLoaded(int WindowType, int Mode)
Available in version 514	,
Available in version 514	Delphi procedure OnFileLoaded(WindowType, Mode: Integer)
	Called ofter a file is leaded. The made paremeter can identify the following:
	Called after a file is loaded. The mode parameter can identify the following: 1: recovery file (from a crash)
	2: backup file (normal file backup with a ~ extension)
OnFileSaved	
Available in version 514	C++ void OnFileSaved(int WindowType, int Mode)
Avaliable III version 514	Delphi procedure OnFileSaved(WindowType, Mode: Integer)
	Colled after a file is sound. The seads a secretary and it. (1) (1)
	Called after a file is saved. The mode parameter can identify the following:
	1: recovery file (from a crash)
About	2: backup file (normal file backup with a ~ extension)
About	C++ char* About()
Available in version 400	Delphi function About: PChar
	This function allows you to display an about dialog. You can decide to display a
	dialog yourself (in which case you should return an empty text) or just return the
	about text.

	In PL/SQL Developer 3.1 there is an about button in the Plug-In configuration dialog.
Configure	C++ void Configure()
Available in version 400	Delphi procedure Configure
	If the Plug-In has a configure dialog you could use this function to activate it. This will
	allow a user to configure your Plug-In using the configure button in the Plug-In
CommandLine	configuration dialog.
Available in version 513	C++ void CommandLine(int FeedbackHandle, char *Command, char *Params)
Available in version 515	Delphi procedure CommandLine(FeedbackHandle: Integer; Command,
	Params: PChar)
	r drams. r Ghar)
	You can use this function if you want the Plug-In to be able to accept commands from
	the command window.
	See IDE_CommandFeedback for how to return messages to the command window.
Plug-In naming functions	Cur ahar PluglaNama ()
PlugInName Available in version 700	C++ char PlugInName () Delphi function PlugInName: PChar
Available iii version 100	Delprii Turiction Pluginivame. Ponai
	The PlugIn name (if defined) will be used for online updates, and as name for
	command window Plugln commands. If you want your Plugln to be handled by online
	updates, please contact support.
	If this function is not defined, the PlugInName will be the dll filename.
PlugInSubName	C++ char PlugInSubName ()
Available in version 700	Delphi function PlugInSubName: PChar
Discribe Observible and	The subname will be added to the PlugInName. Possible values are 'Trial' or 'Beta'.
PlugInShortName Available in version 700	C++ char PlugInShortName ()
Available III version 700	Delphi function PlugInShortName: PChar
	The short name is specifically for command window PlugIn commands. This allows
	you to specify a name that can be entered quickly.
Plug-In External FileSystem	
RegisterFileSystem	C++ char RegisterFileSystem()
Available in version 400	Delphi function RegisterFileSystem: PChar
	Use this function if you want your Plug-In to load/save files somewhere 'external'. If
	you use this function you should return a description that identifies your filesystem (like FTP for the FTP Plug-in).
	(incertificities in flug-in).
	See the chapter about External File Systems.
DirectFileLoad	C++ char DirectFileLoad()
Available in version 400	Delphi function DirectFileLoad: function(var Tag, Filename: PChar;
	WindowType: Integer): PChar
	This function will get called when a file will be directly loaded without a file dialog. This is needed if a user selects a file from the recent used files list.
	The Parameters indicate the file that you have to load and the return value is the file
	data.
DirectFileSave	C++ BOOL DirectFileSave()
Available in version 400	Delphi function DirectFileSave(var Tag, Filename: PChar; Data: PChar;
	WindowType: Integer): Bool
	This function will be called when 'File Save' is selected (not 'File Save As).
	You should save the data as specified in the parameters and return True if everything was successful.
Plug-In Export functions	
RegisterExport	C++ char* RegisterExport()
Available in version 500	Delphi function RegisterExport: PChar
	Use this function if you want to add an export option for (result) grids. The name you
	return will be the name that is displayed in the popup menus (next to html, xml,).

	See the chapter about adding export options.	
ExportInit	C++ BOOL ExportInit()	
Available in version 500	Delphi function ExportInit: Boolean	
	First call after an export request.	
	You can ask the user for a filename and/or initialize variables.	
	Return False if you want to cancel the export.	
ExportFinished	C++ void ExportFinished()	
Available in version 500	Delphi procedure ExportFinished;	
	The export has finished.	
ExportPrepare	C++ BOOL ExportPrepare()	
Available in version 500	ilable in version 500 Delphi function ExportPrepare: Boolean	
	This function allows you to prepare for the actual data.	
	All values received with Exportdata before this function is called are column headers,	
	and all values received after ExportPrepare is data.	
	The return value allows you to signal if the prepare was processed correctly.	
ExportData	C++ BOOL ExportData(char *Value)	
Available in version 500	Delphi function ExportData(Value: PChar): Boolean	
	One cell of data, this can be the column description or the actual data.	

If you need one or more of these functions, export them from the Plug-In DLL. When a function is exported, PL/SQL Developer will call it. All these functions are very straightforward, the description should give you enough information.

Callback functions

Callback functions are functions within PL/SQL Developer that you can use in your Plug-In. They need to be "activated" by the RegisterCallback function, so you need to export this function from your Plug-In DLL.

Plug-In Callback function	
RegisterCallback	C++ void RegisterCallback(int Index, void *Addr) Delphi procedure RegisterCallback(Index: Integer; Addr: Pointer)
	There are several functions in PL/SQL Developer that you can use from your Plug-In. With this function you can get access to the callback functions you need. The Index is related to a specific callback function while the Addr parameter holds the address to this function.

If you want to use PL/SQL Developer callback functions you need to create a declaration of these functions and assign them an address via the RegisterCallback function. RegisterCallback is called for every callback function, identified by a unique index, and passes the corresponding function address. In Delphi this would look like this:

```
Var
    IDE_MenuState: procedure(ID, Index: Integer; Enabled: Bool); cdecl;
    IDE_Connected: function: Bool; cdecl;
    IDE_GetConnectionInfo: procedure(var Username, Password, Database: PChar); cdecl;
    IDE_GetBrowserInfo: procedure(var ObjectType, ObjectOwner, ObjectName: PChar); cdecl;
procedure RegisterCallback(Index: Integer; Addr: Pointer); cdecl;
begin
    case Index of
    10 : @IDE_MenuState := Addr;
    11 : @IDE_Connected := Addr;
    12 : @IDE_GetConnectionInfo := Addr;
    13 : @IDE_GetBrowserInfo := Addr;
end;
end;
```

In C++ this would look like this:

```
void (*IDE_MenuState)(int ID, int Index, BOOL Enabled);
BOOL (*IDE_Connected)();
void (*IDE_GetConnectionInfo)(char **Username, char **Password, char **Database);
void (*IDE_GetBrowserInfo)(char **ObjectType, char **ObjectOwner, char **ObjectName);
void RegisterCallback(int Index, void *Addr)
  switch (Index)
    {\tt case}\ 10 :
       (void *)IDE_MenuState = Addr;
       break;
     case 11 :
       (void *)IDE_Connected = Addr;
     case 12 :
       (void *)IDE_GetConnectionInfo = Addr;
     case 13 :
       (void *)IDE_GetBrowserInfo = Addr;
       break;
  }
}
```

The previous example only defined four callback functions. Below you will find the complete list of all callback functions, with index, name and a brief description:

evet	EM Info functions	
9191 1		C++ int SYS_Version()
'	313_version	Delphi function SYS_Version: Integer
		Delprii Turiction 313_Version. Integer
		Returns the PL/SQL Developer main and subversion, for example 210
		for version 2.1.0. This might be useful if you want to use functions that
		are not available in all versions.
2	SYS_Registry	C++ char* SYS_Registry()
		Delphi function SYS_Registry: PChar
		Dolphi Tarlotton on o_region y. 1 ontai
		Returns the registry root name of PL/SQL Developer in
		HKEY_CURRENT_USER (usually "Software\PL/SQL Developer"). If you
		want to save your settings in the registry, you can create a section within
		the PL/SQL Developer section.
		Note: In PL/SQL Developer 3.1, the registry section is moved to:
		("Software\Allround Automations\PL/SQL Developer")
3	SYS_RootDir	C++ char* SYS_RootDir()
		Delphi function SYS_RootDir: PChar
		The directory where PL/SQL Developer is installed, for example
		"C:\Program Files\PLSQL Developer".
4	SYS_OracleHome	C++ char* SYS_OracleHome()
		Delphi function SYS_OracleHome: PChar
		T. O. I. II. () () () () () () () () () (
	0.40 0.0101 1	The Oracle directory, for example "C:\Orawin95"
5		C++ char* SYS_OCIDLL()
	Available in version 300	Delphi function SYS_OCIDLL: PChar
		Detures the math of the COLDIL that is used by DI (COLDIL th
		Returns the path of the OCI DLL that is used by PL/SQL Developer. If
		you want to initialize a new session, you might want to use this value if you want to make sure you're using the same OCI version.
6	SYS OCI8Mode	C++ BOOL* SYS OCI8Mode()
0	Available in version 300	Delphi function SYS OCI8Mode: Bool
	Avanable III version 300	Delphii Turiction 515_OCIONIQUE. DOOI
		Returns True if PL/SQL Developer is currently connected in OCI8 Mode
		Returns True if FL/SQL Developer is currently connected in OCI8 Mode

		(Net8).
7	SYS_XPStyle	C++ BOOL* SYS_XPStyle()
'	Available in version 700	Delphi function SYS_XPStyle: Bool
		Dolphi Turiotion on o_xii otylo. Dool
		Returns if PL/SQL Developer is currently using the visual XP style.
8	SYS_TNSNAMES	C++ char* SYS_TNSNAMES (char *Param)
Ŭ	Available in version 700	Delphi function SYS_TNSNAMES(Param: PChar): PChar
		Dolphi Tanodon o ro_nvorvivileo(r arani. r onar). r onar
		If Param is empty, the function will return the full thsnames filename.
		If Param has a value, the connection details of the alias as specified by
		Param is returned. If Param is *, the connection details of the current
		connection are returned). The return value can look like:
		TEST = (DESCRIPTION =
		(ADDRESS_LIST =
		(ADDRESS = (PROTOCOL = TCP)(HOST = p2800)(PORT = 1521))
) (CONNECT_DATA =
		(SERVER = DEDICATED)
		(SERVICE_NAME = AAA)
9	SYS_DelphiVersion	C++ int SYS_DelphiVersion()
3	Available in version 702	Delphi function SYS_DelphiVersion: Integer
		Dolphii Tariottori O i O_Dolphii versioni. Integer
		Returns the Delphi version used to build PL/SQL Developer. Only useful
		for very specific functions.
	inctions	
10	IDE_MenuState	C++ void IDE_MenuState(int ID, int Index, BOOL Enabled)
		Delphi procedure IDE_MenuState(ID, Index: Integer;
		Enabled: Bool)
		Use this function to enable or disable a menu. The ID is the Plug-In ID,
		which is given by the IdentifyPlugIn function. The Index is the menu
		index, which the menu was related to by the CreateMenuItem function.
		The Enabled boolean determines if the menu item is enabled or grayed.
11	IDE_Connected	C++ BOOL IDE_Connected()
		Delphi function IDE_Connected: Bool
		Returns a boolean that indicates if PL/SQL Developer is currently
12	IDE_GetConnectionInfo	connected to a database. C++ void IDE_GetConnectionInfo(char **Username,
12	DE_GetCollileCtioniiiio	char **Password, char **Database)
		Delphi procedure IDE_GetConnectionInfo(var Username,
		Password, Database: PChar)
		,
		Returns the username, password and database of the current
		connection.
13	IDE_GetBrowserInfo	C++ void IDE_GetBrowserInfo(char **ObjectType,
		char **ObjectOwner, char **ObjectName);
		Delphi procedure IDE_GetBrowserInfo(var ObjectType,
		ObjectOwner, ObjectName: PChar)
		Returns information about the selected item in the Browser. If no item is
		selected, all items are empty.
14	IDE_GetWindowType	C++ int IDE_GetWindowType()
		Delphi function IDE_GetWindowType: Integer
		Returns the type of the current window.
		1 = SQL Window
		2 = Test Window
		3 = Procedure Window
		4 = Command Window 5 = Plan Window
		J - F Ian Williauw

		6 = Report Window
		0 = None of the above
15	IDE_GetAppHandle	C++ int IDE_GetAppHandle()
13	IDL_GetAppi landle	Delphi function IDE_GetAppHandle: Integer
		Delphi Turiction IDE_GetAppi failule. Integer
		Returns the Application handle of PL/SQL Developer
16	IDE_GetWindowHandle	C++ int IDE_GetWindowHandle()
10	DL_GettVillagwilanaie	Delphi function IDE_GetWindowHandle: Integer
		Dolphi Tanolion 122_Cottvinidow fanalo. Intogor
		Returns the handle of PL/SQL Developers main window
17	IDE_GetClientHandle	C++ int IDE_GetClientHandle()
		Delphi function IDE_GetClientHandle: Integer
		Returns the handle of PL/SQL Developers client window
18	IDE_GetChildHandle	C++ int IDE_GetChildHandle()
		Delphi function IDE_GetChildHandle: Integer
		, – "
		Returns the handle of the active child form
19	IDE_Refresh	C++ void IDE_Refresh()
	Available in version 213	Delphi procedure IDE_Refresh
1		
1		Resets the state of the menus, buttons and the active window.
		You can call this function if you made some changes that affect the state
- 00	IDE Out of NATion Laws	of a menu or window which are unnoticed by PL/SQL Developer.
20	IDE_CreateWindow	C++ void IDE_CreateWindow(int WindowType, char *Text,
		BOOL Execute)
		Delphi procedure IDE_CreateWindow(WindowType: Integer;
		Text: PChar; Execute: Bool)
		Creates a new window. The Text parameter contains text that is placed
		in the window. If the Execute Boolean is true, the Window will be
		executed.
		WindowType can be one of the following values:
		1 = SQL Window
		2 = Test Window
		3 = Procedure Window
		4 = Command Window 5 = Plan Window
		6 = Report Window
21	IDE OpenFile	C++ BOOL IDE_OpenFile(int WindowType, char *Filename)
		Delphi function IDE_OpenFile(WindowType: Integer;
		Filename: PChar): Bool
		,
		Creates a window of type WindowType and loads the specified file.
		WindowType can be one of the following values:
		1 = SQL Window
		2 = Test Window
		3 = Procedure Window 4 = Command Window
		The function returns True if successful.
1		The function returns true if successiul.
		Version 301 and higher
		If you pass 0 as WindowType, PL/SQL Developer will try to determine
	IDE OE''	the actual WindowType on the extension of the filename.
22	IDE_SaveFile	C++ BOOL IDE_SaveFile()
1		Delphi function IDE_SaveFile: Bool
		This function source the current window It returns True if cuessastic
22	IDE Filonome	This function saves the current window. It returns True if successful.
23	IDE_Filename	C++ char* IDE_Filename()
		Delphi function IDE_Filename: PChar
1		Return the filename of the current child window.
1		See also IDE_SetFilename()
1	i .	· · · · · · · · · · · · · · · · ·

24	IDE_CloseFile	C++ void IDE_CloseFile()
24	IDE_CloseFile	Delphi procedure IDE_CloseFile
		Delpin procedure IDE_Gloser lie
		Closes the current child window
25	IDE_SetReadOnly	C++ void IDE_SetReadOnly(BOOL ReadOnly)
	-	Delphi procedure IDE_SetReadOnly(ReadOnly: Bool)
		Set the ReadOnly status of the current Window
26	IDE_GetReadOnly Available in version 213	C++ BOOL IDE_GetReadOnly
	Available III version 213	Delphi function IDE_GetReadOnly: Bool
		Get the ReadOnly status of the current Window
27	IDE_ ExecuteSQLReport	C++ BOOL IDE_ExecuteSQLReport(char *SQL,
	Available in version 300	Char *Title, BOOL: Updateable)
		Delphi function IDE_ExecuteSQLReport(SQL: PChar;
		Title: PChar; Updateable: Bool): Bool
		This function will execute a query (SQL parameter) and display the result
		in a 'result only' SQL Window. Title will be used as the window name and the Updateable parameter determines if the results are updateable.
28	IDE ReloadFile	C++ BOOL IDE ReloadFile
	Available in version 301	Delphi function IDE_ReloadFile: Bool
		_
		Forces the active child window to reload its file from disk.
		Note: In PL/SQL Developer 4 there will no longer be a warning message
20	IDE SetFilename	when modifications were made. C++ void IDE_SetFilename(char *Filename)
29	Available in version 303	Delphi procedure IDE_SetFilename(Filename: PChar)
		Delphi procedure ibe_Sett ilename(i ilename, i onar)
		Set the filename of the active child window. The filename should contain
		a valid path, but the file does not need to exist. The new filename will be
		used when the file is saved.
		If the Filename parameter is an empty string, the Window will behave as a new created Window.
30	IDE GetText	C++ char* IDE_GetText()
	_	Delphi function IDE_GetText: PChar
		Retrieves the text from the current child window.
31	IDE_GetSelectedText	C++ char* IDE_GetSelectedText()
		Delphi function IDE_GetSelectedText: PChar
		Retrieves the selected text from the current child window.
32	IDE GetCursorWord	C++ char* IDE_GetCursorWord()
I -		Delphi function IDE_GetCursorWord: PChar
		Retrieves the word the cursor is on in the current child window.
33	IDE_GetEditorHandle	C++ int IDE_GetEditorHandle()
		Delphi function IDE_GetEditorHandle: Integer
		Returns the handle of the editor of the current child window.
3/1	IDE_SetText	C++ BOOL IDE_SetText(char *Text)
]]4	Available in version 213	Delphi function IDE_SetText(Text: PChar): Bool
		25.p.m. Ishididi 122_50t1 onti 1 onti 1. 5001
		Sets the text in the editor of current window. If this failed for some reason
		(ReadOnly?), the function returns false.
35	IDE_SetStatusMessage	C++ BOOL IDE_SetStatusMessage(char *Text)
	Available in version 213	Delphi function IDE_SetStatusMessage(Text: PChar): Bool
		Places a macroga in the status has of the current window returns false if
		Places a message in the status bar of the current window, returns false if the window did not have a status bar.
36	IDE_SetErrorPosition	C++ BOOL IDE_SetErrorPosition(int Line, int Col)
l	Available in version 213	Delphi function IDE_SetErrorPosition(Line, Col: Integer): Bool

		Highlights the given line and places the cursor at the given position. This will only work when the active window is a procedure window, if not, the function returns false.
37	IDE_ClearErrorPositions	C++ void IDE_ClearErrorPositions()
	Available in version 213	Delphi procedure IDE_ClearErrorPositions
	IDE OstOssassWandBasitian	Resets the highlighted lines.
38	IDE_GetCursorWordPosition Available in version 400	C++ int IDE_GetCursorWordPosition()
	Available in version 400	Delphi function IDE_GetCursorWordPosition: Integer
		This function returns the location of the cursor in the word after a call to IDE_GetCursorWord. Possible return values:
		0: Unknown
		1: Cursor was at start of word
		2: Cursor was somewhere in the middle
39	IDE Perform	3: Cursor was at the end
39	Available in version 400	C++ BOOL IDE_Perform(int Param) Delphi function IDE_Perform(Param Integer): Bool
	Available in version 400	Delphi Tunction DE_Fenomi(Faram integer). Booi
		This function allows you to perform a specific action as if the menu item as specified in Param was selected. The following values are supported: 1: Execute 2: Break 3: Kill
		4: Commit
		5: Rollback 6: Print
60	IDE_GetCustomKeywords	C++ char* IDE_GetCustomKeywords()
00	Available in version 300	Delphi function IDE_GetCustomKeywords: PChar
		Dolphi Idriction IDE_Getodatomiceywords. I Ondi
		Returns a list of all keywords as entered in the 'custom keywords' option in the Editor preference.
61	IDE_SetCustomKeywords Available in version 300	C++ void IDE_SetCustomKeywords(char *Keywords) Delphi procedure IDE_SetCustomKeywords(Keywords: PChar)
		Fills the custom keywords with the words in the Keywords parameter. Words should be separated by cr/lf. The currently used keywords will be overwritten.
62	IDE_SetKeywords	C++ void IDE_SetKeywords(int ID, int Style, char *Keywords)
	Available in version 300	Delphi procedure IDE_SetKeywords(ID, Style: Integer; Keywords: PChar)
		Adds a number of keywords with a specific style.
		This function is more specific then IDE_SetCustomKeywords because
		this one can set multiple sets of keywords for different highlighting styles.
		ID should be the Plugln ID as returned by the IdentifyPlugln function.
		Style can be one of the following values: 10: Custom
		10: Custom 11: Keywords
		12: Comment
		13: Strings
		14: Numbers 15: Symbols
		Keywords is a cr/lf separated list of words. You can define one list per
		style.
63		C++ void IDE_ActivateKeywords()
	Available in version 300	Delphi procedure IDE_ActivateKeywords
		Activates the keywords as defined by the IDE_SetKeywords function.
64	_	C++ void IDE_RefreshMenus(int ID)
	Available in version 300	Delphi procedure IDE_RefreshMenus(ID: Integer)
		When this function is called, all menus for this Plug-In are removed and

		CrooteManultam will be called to build a new set of record. This
		CreateMenuItem will be called to build a new set of menus. This only makes sense if you supply a different set of menu-items.
65	IDE_SetMenuName Available in version 300	C++ void IDE_SetMenuName(int ID, int Index, char *Name) Delphi procedure IDE_SetMenuName(ID, Index: Integer; Name: PChar)
		This function allows you to rename a certain menu-item. ID is the Plug-In ID, Index is the Menu number and name is the new menu name.
66	IDE_SetMenuCheck Available in version 300	C++ void IDE_SetMenuCheck(int ID, int Index, BOOL Enabled) Delphi procedure IDE_SetMenuCheck(ID, Index: Integer;
		Enabled: Bool)
07	155 6 44 17 11	You can display or remove a check mark for a menu-item.
67	IDE_SetMenuVisible Available in version 300	C++ void IDE_SetMenuVisible(int ID, int Index, BOOL Enabled)
	7114114210 111 13/30/1 330	Delphi procedure IDE_SetMenuVisible(ID, Index: Integer; Enabled: Bool)
		With this function you can hide or show a specific menu. You can use this instead of IDE_MenuState.
68	IDE_GetMenulayout Available in version 300	C++ char* IDE_GetMenulayout() Delphi function IDE_GetMenulayout: PChar
	The state of the s	- σοιριπ Tunction του σειινιστιαία yout. ε Offal
		Returns a list of all standard PL/SQL Developer menu items. Items are separated by cr/lf and child menu level is indicated by a number of spaces.
		You can use this function to build an advanced user configuration dialog where the user could be able to select place where he wants to insert the Plug-In menus.
69		C++ void* IDE_ CreatePopupItem(int ID, int Index,
	Available in version 300	char *Name, char *ObjectType) Delphi procedure IDE_CreatePopupItem(ID, Index: Integer; Name, ObjectType: PChar)
		With this function you can add items to certain popup menus. The ID is the Plug-In ID and the index is the menu index. You can pass any number as the menu index, it can be an existing menu (as used by CreateMenuItem) or anything else. If the popup menu gets selected, OnMenuClick is called with the corresponding index. The Name is the menu name as it will be displayed. The ObjectType determines in which popup menus this item will be displayed. Some possible values are: 'TABLE', 'VIEW', 'PACKAGE', etc.
		Version 301 and higher If you pass one of the following values as ObjectType, you can add items to specific Windows. PROGRAMWINDOW SQLWINDOW TESTWINDOW COMMANDWINDOW Version 400 and higher
		You can add popup items to Object Browser items like Tables, Views, etc. by passing their name as ObjectType.
		Version 510 and higher If you want to create popup menus for multiple selected items (of the same object type), you can add a + to the ObjectType parameter like 'TABLE+', 'VIEW+', etc. The OnMenuClick will be called for every selected item, and the GetPopupObject will return the correct details.
		Version 700 and higher Supports Popup for the Session Window with the SESSIONWINDOW ObjectType. (see also IDE_GetSessionValue)

		Version 712 and higher
		Supports Popup for result grids with SQLRESULT
70	IDE_SetConnection	C++ BOOL IDE_SetConnection(char *Username,
	Available in version 301	char *Password, char *Database)
		Delphi function IDE_SetConnection(Username,
		Password, Database: PChar): Bool
		This function allows you to recomment DI (COL Developer or continue
		This function allows you to reconnect PL/SQL Developer as another user. The return value indicates if the connection was successful.
		The function will fail if there is a childwindow with an active query.
		Also see IDE_SetConnectionAs
71	IDE_GetObjectInfo	C++ int IDE_GetObjectInfo(char *AnObject,
	Available in version 400	char **ObjectType, char **ObjectOwner,
		char **ObjectName, char **SubObject)
		Delphi procedure IDE_GetObjectInfo(AnObject: PChar;
		var ObjectType, ObjectOwner, ObjectName,
		SubObject: PChar)
		This function returns Oracle information about the item in the AnObject
		parameter. The SubObject returns the name of the procedure if the
72	IDE GetBrowserItems	Object is a packaged procedure. C++ char IDE_GetBrowserItems(char *Node,
12	Available in version 400	BOOL GetItems)
	Available in version 400	Delphi function IDE_GetBrowserItems(Node: PChar;
		GetItems: Bool): PChar
		Gettionia. Booij. i Gridi
		Returns a cr/lf separated list of items from the Object Browser. The Node
		parameter determines which items are returned. This can be one of the
		main items like TABLES, but you can also us a slash to get more specific
		items like TABLES/DEPT/COLUMNS.
		The GetItems boolean determines if PL/SQL Developer will fetch these
		values from the database if the item has not been opened yet in the Browser.
73	IDE RefreshBrowser	C++ void IDE_RefreshBrowser(char *Node)
73	Available in version 400	Delphi procedure IDE_RefreshBrowser(Node: PChar)
		Delprii procedure ibe_iterresiibiowsei(Node. i onar)
		Force a refresh to the Object Browser. If Node is empty, all items are
		refreshed. To refresh a specific item you can enter the name in the Node
		parameter.
		Note:
		Version 500 allows you to pass a * to refresh the current selected browser item.
		Note:
		Version 600 allows you to pass a ** to refresh to parent of the current
		browser item, and you can pass *** to refresh to root item.
74	IDE_GetPopupObject	C++ int IDE_GetPopupObject(char **ObjectType,
	Available in version 400	char **ObjectOwner, char **ObjectName,
		char **SubObject)
		Delphi procedure IDE_GetPopupObject(var ObjectType,
		ObjectOwner, ObjectName, SubObject: PChar)
		This function returns information shout the item for which a new re-
		This function returns information about the item for which a popup menu (created with IDE_CreatePopupItem) was activated.
		If the item is a Browser folder, the name of the folder will be returned in
		ObjectName and ObjectType will return 'FOLDER'
75	IDE_GetPopupBrowserRoot	C++ char IDE_GetPopupBrowserRoot()
	Available in version 400	Delphi function IDE_GetPopupBrowserRoot: PChar
		This function returns the name of browser root item for which a popup
		menu (created with IDE_CreatePopupItem) was activated.
76	IDE_RefreshObject	C++ void IDE_RefreshObject (char *ObjectType,
	Available in version 400	char *ObjectOwner, char *ObjectName,

		int Action)
		Delphi procedure IDE_RefreshObject(ObjectType, ObjectOwner, ObjectName: PChar; Action: Integer)
		If you modify database objects in your Plug-In and you want to update PL/SQL Developer to reflect these changes, you can do so by calling this function. You should pass the object type, owner, name and the action that you performed on the object. The action can be one of the following: 1 = Object created 2 = Object modified 3 = Object deleted PL/SQL Developer will update the browser and all windows that might use the object.
77		C++ BOOL IDE_FirstSelectedObject (char *ObjectType,
	Available in version 500	char *ObjectOwner, char *ObjectName, char *SubObject) Delphi function IDE_FirstSelectedObject(var ObjectType, ObjectOwner, ObjectName, SubObject: PChar): Bool
		This function will return the details of the first selected in the Browser. The function will return false if no items are selected.
		Use in combination with IDE_NextSelectedObject to determine all
78	IDE_NextSelectedObject	selected items. C++ BOOL IDE_NextSelectedObject (char *ObjectType,
10	Available in version 500	char *ObjectOwner, char *ObjectName, char *SubObject)
		Delphi function IDE_NextSelectedObject(var ObjectType, ObjectOwner, ObjectName, SubObject: PChar): Bool
		This function can be called after a call to IDE_FirstSelectedObject to determine all selected objects. You can keep calling this function until it returns false.
79	IDE_GetObjectSource Available in version 511	C++ char* IDE_GetObjectSource(char *ObjectType, char *ObjectOwner, char *ObjectName)
	Thumas in 15.550 cm	Delphi function IDE_GetObjectSource (ObjectType, ObjectOwner, ObjectName: PChar): PChar
		Returns the source for the specified object. This function will only return source for objects that actually have source (packages, views,).
80	IDE_GetWindowCount Available in version 301	C++ int IDE_GetWindowCount() Delphi function IDE_GetWindowCount: Integer
		Returns the number of child windows in PL/SQL Developer. In combination with IDE_SelectWindow you can communicate with all child
		windows.
81	IDE_SelectWindow Available in version 301	C++ BOOL IDE_SelectWindow(int Index) Delphi function IDE_SelectWindow(Index: Integer): Bool
		This function will 'select' one of PL/SQL Developers child Windows. Index is the window number where 0 is the top child window. The return value will indicate if the window existed.
		Normally all window related functions communicate with the active child window. With this function you can select any window and all window-related IDE functions will refer to the selected window.
		Note: IDE_SelectWindow does not actually bring the window to front, you need IDE_ActivateWindow to do that.
82	IDE_ActivateWindow Available in version 301	C++ BOOL IDE_ActivateWindow(int Index) Delphi function IDE_ActivateWindow(Index: Integer): Bool
		Brings the Index th child window with to front.
83	IDE_IsWindowModified	C++ BOOL IDE_WindowlsModified()
	Available in version 301	Delphi function IDE_WindowlsModified: Bool

		Returns if the contents of the window is modified.
84	IDE_IsWindowRunning	C++ BOOL IDE_WindowlsRunning()
	Available in version 301	Delphi function IDE_WindowIsRunning: Bool
		Returns if there is anything running in the current window.
90	IDE_SplashCreate	C++ void IDE_SplashCreate(int ProgressMax)
	Available in version 303	Delphi procedure IDE_SplashCreate(ProgressMax: Integer)
		Creates an empty splash screen (the one you see when PL/SQL
		Developer is starting or printing) which allows you to show some kind of
		progress on lengthy operations. If the ProgressMax parameter is larger then 0, a progress bar is
		displayed which you can advance with the IDE_SplashProgress function.
		There can only be one splash screen active at a time. If a splash screen
		is created while one was active, the first one will get re-used.
91	IDE_SplashHide Available in version 303	C++ void IDE_SplashHide()
	Available in version 303	Delphi procedure IDE_SplashHide
		Hides the splash screen. This function will work on any splash screen,
		you can even hide the one created by PL/SQL Developer.
92	IDE_SplashWrite	C++ void IDE_SplashWrite(char *s)
	Available in version 303	Delphi procedure IDE_SplashWrite(s: string)
		Add text to the splash screen.
93	IDE_SplashWriteLn	C++ void IDE_SplashWriteLn(char *s)
	Available in version 303	Delphi procedure IDE_SplashWriteLn(s: string)
04	IDE Calcab Browness	Add text to the splash screen beginning on the next line.
94	IDE_SplashProgress Available in version 303	C++ void IDE_SplashProgress(int Progress) Delphi procedure IDE_SplashProgress(Progress: Integer)
	, rvanabio in voroion eee	Delphi procedure IDL_Splash rogress(Flogress: integer)
		If the splash screen was created with a progress bar, you can indicate progress with this function.
95	IDE TemplatePath	C++ char IDE_TemplatePath()
	Available in version 400	Delphi function IDE_TemplatePath: PChar
	IDE Essenta Tamada (This function returns the path where the templates are located.
96	IDE_ExecuteTemplate Available in version 400	C++ BOOL IDE_ExecuteTemplate(char *Template BOOL NewWindow)
	Available in Version 400	Delphi function IDE_ExecuteTemplate(Template: PChar;
		NewWindow: Bool): Bool
		If you want to execute a template from within your PlugIn you can do so
		with this function. The NewWindow parameter indicates if a new window
		should be created or that the result of the template should be pasted at
		the current cursor position in the active window. The template parameter
		should contain the template name. If the template is located in one or more folders, the folder name(s) should be prefixed to the template
		name separated by a backslash.
97	IDE_GetConnectAs	C++ char IDE_GetConnectAs()
	Available in version 500	Delphi function IDE_GetConnectAs: PChar
		Use this function to determine if the current connection has a specific
		'Connect As'. Possible return values are:
		", 'SYSDBA' and 'SYSOPER'
98	IDE_SetConnectionAs	C++ BOOL IDE_SetConnectionAs(char *Username,
	Available in version 500	char *Password, char *Database, char *ConnectAs)
		Delphi function IDE_SetConnectionAs(Username, Password, Database, ConnectAs: PChar): Bool
		rassworu, Dalabase, Connectas, Pondij. Door
		Identical to IDE_SetConnection, but with an option to specify a
		•

		ConnectAs parameter Volumen pass (SVSDBA) or (SVSDBD) of states
		ConnectAs parameter. You can pass 'SYSDBA' or 'SYSOPER', all other values will be handled as 'NORMAL'.
Exter	nal FileSystem functions	values will be Halluleu as INONIVIAL.
	IDE_GetFileOpenMenu	C++ char IDE_GetFileOpenMenu(int MenuIndex,
100	Available in version 400	int *WindowType)
		Delphi function IDE_GetFileOpenMenu(MenuIndex: Integer;
		var WindowType: Integer): PChar
		var window rype. integer). Ponar
		If you want to create a new 'File Open' menu with the same items as the
		standard menu, you can use this function to determine the standard
		items. You can call this function in a loop while incrementing MenuIndex
		(starting with 0) until the return value is an empty string. The return
		values are the menu names in the File Open menu and the WindowType
		is the corresponding window type.
101	IDE_CanSaveWindow	C++ BOOL IDE_CanSaveWindow()
	Available in version 400	Delphi function IDE_CanSaveWindow: Bool
		Returns True if the active child window can be saved. (which are the
		SQL, Test, Program and Command windows).
102	•	C++ void IDE_OpenFileExternal(int WindowType, char *Data,
	Available in version 400	char *FileSystem, char *Tag, char *Filename)
		Delphi procedure IDE_OpenFileExternal(WindowType: Integer;
		Data, FileSystem, Tag, Filename: PChar)
		Creates a new Window (of type WindowType) for the specified (and
102	IDE CatEllaTuras	registered) FileSystem, Tag and Filename.
103	IDE_GetFileTypes Available in version 400	C++ char IDE_GetFileTypes(int WindowType) Delphi function IDE_GetFileTypes(WindowType: Integer): PChar
	Available in version 400	Delprii Turiction IDE_GetFile Types(wiridow Type. Integer). PChai
		Returns the defined filetypes for a specific WindowType.
104	IDE_GetDefaultExtension	C++ char IDE_GetDefaultExtension(int WindowType)
104	Available in version 400	Delphi function IDE_GetDefaultExtension(WindowType:
		Integer): PChar
		integer). Fondi
		Returns the default extension (without period) for a specific window type.
105	IDE_GetFileData	C++ char IDE GetFiledata()
	Available in version 400	Delphi function IDE_GetFileData: PChar
		_
		Returns the data of a window. You can use this function to get the data
		and save it.
106	l —	C++ void IDE_FileSaved(char *FileSystem, char *FileTag,
	Available in version 400	char *Filename)
		Delphi procedure IDE_FileSaved(FileSystem, FileTag,
		Filename: PChar)
		You can call this function when a file is saved successfully. The filename
		will be set in the Window caption and the status will display that the file is
		'saved successfully'. FileSystem and FileTag can be nil.
107	IDE_ShowHTML	C++ BOOL IDE_ShowHTML(char *Url, char *Hash,
'''	Available in version 510	char *Title, char *ID)
		Delphi function IDE_ShowHTML(Url, Hash, Title, ID: PChar):
		Bool
		2501
		This function displays a html file in a child window. The url parameter
		identifies the file and the hash parameter allows you to jump to a specific
		location. The title parameter will be used as window title.
		You can refresh the contents of an already opened window by specifying
		an ID. If ID is not empty, and a window exists with the same ID, this will
		be used, otherwise a new window will be created.
108	IDE_RefreshHTML	C++ BOOL IDE_RefreshHTML(char *Url, char *ID, BOOL
	Available in version 512	BringToFront)
		Dillig 101 1011t)

	_
	Delphi function IDE_ShowHTML(Url, ID: PChar; BringToFront: Bool): Bool
	Refresh the contents of a HTML Window. You can pass an url to refresh all windows that show a specific url, or you can pass an ID to refresh a specific Window.
109 IDE_GetProcEditExtension Available in version 514	C++ char IDE_GetProcEditExtension (char *oType) Delphi function IDE_GetProcEditExtension (oType: PChar): PChar
	Returns the define file extension of a specific object type. The oType parameter can hold one of the following valies: FUNCTION, PROCEDURE, TRIGGER, PACKAGE, PACKAGE BODY, PACKAGE SPEC AND BODY, TYPE, TYPE BODY, TYPE SPEC AND BODY,
110 IDE_GetWindowObject Available in version 512	JAVA SOURCE C++ BOOL IDE_GetWindowObject (char **ObjectType, char **ObjectOwner, char **ObjectName, char **SubObject)
	Delphi function IDE_GetWindowObject(var ObjectType, ObjectOwner, ObjectName, SubObject: PChar): Bool
	Get info about the object opened in a Window. This will only work for Program Windows.
120 IDE_KeyPress Available in version 510	C++ void IDE_KeyPress(int Key, int Shift) Delphi procedure IDE_KeyPress(Key, Shift: Integer)
	Simulates a key press. You can use this function to do the things you can also do with the keyboard. The Key parameter is the virtual key code of the key, and the Shift parameter holds the status of the Shift Ctrl and Alt keys. You can combine the following values: 1 = Shift 2 = Alt 3 = Ctrl
121 IDE_GetMenuItem Available in version 510	C++ int IDE_GetMenuItem(char *MenuName) Delphi function IDE_GetMenuItem(MenuName: PChar): Integer
	This function will return an 'index' of a specific menu item. The MenuName parameter must specify the menu path separated by a slash, for example 'edit / selection / uppercase'. The menu name is not case sensitive. If the function returns zero, the menu did not exist. You can use the return value with IDE_SelectMenu
122 IDE_SelectMenu Available in version 510	C++ BOOL IDE_SelectMenu(int MenuItem) Delphi function IDE_SelectMenu(MenuItem: Integer): Bool
	You can execute a menu item with this function. The MenuItem parameter has to be determined by the IDE_SelectMenu function. If this function returns false, the menu did not exist, or it was disabled.
130 IDE_TranslationFile Available in version 510	C++ char* IDE_TranslationFile() Delphi function IDE_TranslationFile: PChar
	Returns the currently used translation file. If the return value is empty, no translation is used.
131 IDE_TranslationLanguage Available in version 510	C++ char* IDE_TranslationLanguage() Delphi function IDE_TranslationLanguage: PChar
	Returns the language of the currently used translation file. If the return value is empty, no translation is used.
132 IDE_GetTranslatedMenuLayout Available in version 510	C++ char* IDE_GetTranslatedMenuLayout() Delphi function IDE_GetTranslatedMenuLayout: PChar
	Returns a list of all standard PL/SQL Developer menu items like IDE_GetMenuLayout, but this function will return the translated menus.
133 IDE_MainFont	C++ char* IDE_MainFont()

	Available in version 510	Delahi function IDE MainForth DObon
	Avaliable III Version 310	Delphi function IDE_MainFont: PChar
		Return the PL/SQL Developer main font in the format: "Name", size, color, charset, "style"
134		C++ char* IDE_TranslateItems(char *Group)
	Available in version 510	Delphi function IDE_TranslateItems(Group: PChar): PChar
		Function for translating items.
135	IDE_TranslateString	C++ char* IDE_TranslateString(char *ID, char *Default, char
	Available in version 510	Param1, char Param2)
		Delphi function IDE_TranslateString(ID, Default, Param1,
		Param2: PChar): PChar
		Function for translating items.
140	IDE_SaveRecoveryFiles	C++ BOOL IDE_SaveRecoveryFiles()
	Available in version 510	Delphi function IDE_SaveRecoveryFiles: Bool
		PL/SQL Developer has a preference to save all opened files on a time interval, and/or when an Execute is performed. In case of a crash (from
		the system, Oracle or PL/SQL Dev), the user will be able to recover the
		edited files.
		If the Plug-In can do things that have a possible risk of causing a crash, you can call this function to protect the user's work.
141	IDE GetCursorX	C++ int IDE_GetCursorX()
	Available in version 510	Delphi function IDE_GetCursorX: Integer
		Deturns the // beend) sharester position of the surrous in the surrous
		Returns the (1 based) character position of the cursor in the current editor.
142	IDE_GetCursorY	C++ int IDE_GetCursorY()
	Available in version 510	Delphi function IDE_GetCursorY: Integer
		Paturns the (1 hasad) line position of the cursor in the current aditor
143	IDE SetCursor	Returns the (1 based) line position of the cursor in the current editor. C++ void IDE_SetCursor(int X, int Y)
	Available in version 510	Delphi procedure IDE_SetCursor(X, Y: Integer)
		Set the cursor in the current editor. If the X or Y parameter is 0, the position will not change.
L		This function will also update the position display in the statusbar.
144	IDE_SetBookmark	C++ int IDE_SetBookmark(int Index, int X, int Y)
	Available in version 510	Delphi function IDE_SetBookmark(Index, X, Y: Integer): Integer
		Create a bookmark at position X (character), Y (line). Index is the
		bookmark (09) you want to set. If you pass -1 as bookmark, the first
		free bookmark will be used. The returned value is the used bookmark.
		Normally, from within PL/SQL Developer. Bookmarks can only be used
		for windows with a gutter (Test window and Program editor), but the
115	IDE ClearPackmank	Plug-In interface allows you to use bookmarks for all windows.
145	IDE_ClearBookmark Available in version 510	C++ void IDE_ClearBookmark(int Index) Delphi procedure IDE_ClearBookmark(Index: Integer)
		Dop'' procedure IDE_olodi Dookillan(illuox. Illuger)
<u> </u>		Clears the specified bookmark
146	_	C++ void IDE_GotoBookmark(int Index)
	Available in version 510	Delphi procedure IDE_GotoBookmark(Index: Integer)
		Jumps to a bookmark
147	IDE_GetBookmark	C++ BOOL IDE_GetBookmark(int Index, int X, int Y)
	Available in version 510	Delphi function IDE_GetBookmark(Index: Integer; var X: Integer;
		var Y: Integer): Bool
		Get the cursor position for a specific bookmark
148	IDE_TabInfo	C++ char* IDE_TabInfo(int Index)

	Available in version 511	Delphi function IDE_TabInfo(Index: Integer): PChar
		Returns the description tab page Index (zero based). The return value is empty if the tab page does not exist. This function allows you to determine which tab pages (if any) are available for the current window.
149	IDE_TabIndex Available in version 511	C++ int IDE_TabIndex(int Index) Delphi function IDE_TabIndex(Index: Integer): Integer
		This function allows you to read or set the active tab page. To set a specific page, pass a zero based value to the Index parameter. The return value is the actual selected page. To determine the active page
150	IDE CreateToolButton	(without setting it) pass a value of –1 to the Index parameter. C++ void IDE_CreateToolButton(int ID, int Index, char *Name
100	Available in version 510	char *BitmapFile, int BitmapHandle) Delphi procedure IDE_CreateToolButton(ID, Index: Integer; Name: PChar; BitmapFile: PChar; BitmapHandle: Integer)
		This function allows you to add Toolbuttons to your Plug-In, similar to IDE_CreatePopupItem. The ID is the Plug-In ID and the index is the menu index. When a button is selected, OnMenuClick is called with the corresponding index. The Name will appear as hint for the button, and as name in the preferences dialog.
		The button can be enabled and disabled with IDE_MenuState. The image for the button can be set by passing a filename to a bmp file in the BitmapFile parameter, or as a handle to a bitmap in memory. The bmp image can have any number of colors, but should approximately be 20 x 20 pixels in size. The button will only be visible if it is selected in the Toolbar preference.
153	IDE_WindowHasEditor Available in version 710	C++ BOOL IDE_WindowHasEditor(BOOL CodeEditor) Delphi procedure IDE_WindowHasEditor(CodeEditor: Bool)
		Returns true if the current Window has an Editor. If the CodeEditor parameter is true, it returns false for editors like the output editor.
160	IDE_BeautifierOptions Available in version 510	C++ int IDE_BeautifierOptions() Delphi function IDE_BeautifierOptions: Integer
		Returns the PL/SQL Beautifier options. The result is a value where the following values are or-ed together: 1 AfterCreating enabled 2 AfterLoading enabled 4 BeforeCompiling enabled 8 BeforeSaving enabled
161	IDE_BeautifyWindow	You can use this to determine if you need to call the beautifier. C++ BOOL IDE_BeautifyWindow()
	Available in version 510	Delphi function IDE_BeautifyWindow: Bool
		Calls the PL/SQL Beautifier for the current Window. The result indicates if the operations succeeded.
162	IDE_BeautifyText Available in version 510	C++ char* IDE_BeautifyText(char *S) Delphi function IDE_BeautifyText(S: PChar): PChar
		Calls the PL/SQL Beautifier to beautify the text in the S parameter. The result is the beautified text or it is empty if the function failed
165	IDE_ObjectAction Available in version 514	C++ BOOL IDE_ObjectAction(char *Action, char *ObjectType, char *ObjectOwner, char *ObjectName) Delphi IDE_ObjectAction(Action, ObjectType, ObjectOwner, ObjectName: PChar): Bool
		This function allows you to do a specific action for the object specified. The following actions are available: VIEW, VIEWSPECANDBODY, EDIT, EDITSPECANDBODY, EDITDATA, QUERYDATA, TEST

Available in version 700	466	IDE 01 D: :	0 00010501 01 11 11 15
This allows you to start a specific PL/SQL Developer dialog. The following are supported: AUTHORIZATIONS PROJECTITEMS BRAKPONTS PROJECTITEMS BRAKPONTS PREFERENCE ONFIG PLUSINS ONFIG MACROS ONFIG MATOREFRESH The Premary pursurement is for thorus use. 173 IDE_DebugLog Available in version 700 Pelphi procedure IDE_DebugLog(khag: PChar) When debugit file generated. C++ char' IDE_GetParamString(char "Name) Delphi function IDE_GetParamString(Name: PChar): PChar This function returns a command-line parameter, or a parameter specified in the params.ini file. 175 IDE_GetParamBool Available in version 700 This function returns a command-line parameter, or a parameter specified in the params.ini file. Delphi function IDE_GetParamBool(Name: PChar): Bool This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ void IDE_GetParamBool(Name: PChar): Bool This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ void IDE_GetParamBool(Name: PChar): Bool Delphi function IDE_GetParamBool(Name: PChar): Bool This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ void IDE_GetBrowserFilter(Int Index, char "Name, char "WhereClause, char "OrdefbyClause, char "User, BOOL Active: Bool) This function returns the defined browser filters. You can use this if the Plug-in has a similar requirement. Index = 0 and higher, and the returned values are empty if the filter does not exist. 2	166		
following are supported: AUTHORIZATIONS AUTHORIZATIONS PROJECTITEMS BREAKPOINTS PREFERENCES CONFIG PLUSINS CONFIG AUTOREFRESH The Parama parameter is for future use.		Avallable in Version 700	Delpni tunction IDE_ShowDialog(Dialog, Param: PChar): Bool
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CONFIG FOLIS CONFIG DOCUMENTS CONFIG ACROS CONFIG MACROS CONFIG ALTOREFRESH The Param parameter is for future use. C++ void IDE DebugLog Available in version 700 This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ void IDE GetParamString(Name: PChar): PChar This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ void IDE GetParamBool(Name: PChar): PChar This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ BOOL IDE GetParamBool(Name: PChar): Bool This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ Wold IDE GetParamBool(Name: PChar): Bool This function returns a command-line parameter, or a parameter specified in the params.ini file. C++ Wold IDE GetBrowserFilter(Int Index, char ""Name, char ""WhereClause, char ""OrderByClause, char ""User, BOOL Active) Delphi procedure IDE GetBrowserFilter(Int Index, char ""User, BOOL Active) Delphi procedure IDE GetBrowserFilter(Intex: Integer; var Name, WhereClause, OrderByClause, User: PChar; var Active: Bool) This function returns the defined browser filters. You can use this if the Plug-in has a similar requirement. Index = 0 and higher, and the returned values are empty if the filter does not exist. C++ void IDE_CommandFeedback(freedbackHandle: Integer; S: PChar) This function allows you to return feedback to the command window. The description S will be displayed in the window identified by the FeedbackHandle. See the CommandLine Plug-In function for details. C++ vidi IDE_ResultGridRowCount() Delphi function IDE_ResultGridColCount Integer Returns the number of rows in the result grid of a SQL or Test Window. C++ int IDE_ResultGridColColcount Integer Returns the number of cols in the result grid of a SQL or Test Window. C++ char "IDE_ResultGridColCol(Col, Row: Integer): PChar This function allows you to access the results of a query in a SQL or Test Window. Use the above t			
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Specified in the params.in file.		Available in version 700	Delphi function IDE_GetParamBool(Name: PChar): Bool
Specified in the params.in file.			
IDE_GetBrowserFilter Available in version 702			
char **WhereClause, char **OrderByClause, char **User, BOOL Active) Delphi procedure IDE_GetBrowserFilter(Index: Integer; var Name, WhereClause, OrderByClause, User: PChar; var Active: Bool) This function returns the defined browser filters. You can use this if the Plug-in has a similar requirement. Index = 0 and higher, and the returned values are empty if the filter does not exist. C++ void IDE_CommandFeedBack (T++ void IDE_CommandFeedback(Int FeedbackHandle char *S) Delphi procedure IDE_CommandFeedback(FeedBackHandle: Integer; S: PChar) This function allows you to return feedback to the command window. The description S will be displayed in the window identified by the FeedbackHandle. See the CommandLine Plug-In function for details. 190 IDE_ResultGridRowCount Available in version 516 This function IDE_ResultGridRowCount() Delphi function IDE_ResultGridColCount() This function IDE_ResultGridColl(int Col, int Row) Delphi function IDE_ResultGridCell((Col, Row: Integer): PChar This function allows you to access the results of a query in a SQL or Test Window. Use the above two functions to determine the number of rows	470	IDE Octoors are the	
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200	IDE Authorized	CLL POOLIDE CommandEcodhaol/char * Catagony char
200	IDE_Authorized Available in version 600	C++ BOOL IDE_CommandFeedback(char * Category, char *Name, char *SubName)
	Transactor Foreign doo	Delphi function IDE_Authorized(Category, Name, SubName:
		PChar): Bool
		r Ghar). Bool
		In PL/SQL Developer 6 we introduced the concept of Authorization. You
		should test if a specific feature is allowed for the current user with this
		function. In the Category parameter you can specify one of the main
		categories (objects, menus, system). The name parameter specifies the
		item (session.kill or objects.drop). Some items have a subname, like
004	IDE Window Allows d	objects.drop with the different objects.
201	IDE_WindowAllowed Available in version 600	C++ BOOL IDE_WindowAllowed(int WindowType,
	Available III version 600	BOOL ShowErrorMessage) Delphi function IDE_WindowAllowed(WindowType: Integer;
		ShowErrorMessage: Bool): Bool
		ShowEnonviessage. Boot, Boot
		For a quick check if authorization allows the Plug-In to create a specific
		function, you can use this function.
202	IDE_Authorization	C++ BOOL IDE_Authorization()
	Available in version 600	Delphi function IDE_Authorization: Bool
		Returns if authorization is enabled or not.
203		C++ char* IDE_AuthorizationItems(char *Category)
	Available in version 600	Delphi function IDE_AuthorizationItems(Category: PChar):
		PChar
		If you want a list off all available authorization items, you can call this
		function. It will return a cr/lf separated list.
204	IDE AddAuthorizationItem	C++ void IDE_AddAuthorizationItem(int PlugInID, char
_	Available in version 600	*Name)
		Delphi procedure IDE_AddAuthorizationItem(PlugInID: Integer;
		Name: PChar)
		If you want to add items to the authorization list to allow them to be
		managed through the authorization option, you can use this function. Pass the PlugInID to identify your Plug-In, and pass the Name
		parameter with the item you want to add. The name should be unique,
		so you should prefix it with the name the Plug-In, for example:
		MyPlugIn.Create New Command
		All items will be added in the Pluglns category, so if you want to
		test if this feature is allowed you should call:
210	IDE CatParagnalProfCata	IDE_Authorized('PlugIns', 'MyPlugIn.Create New Command')
210	IDE_GetPersonalPrefSets Available in version 600	C++ char* IDE_GetPersonalPrefSets() Delphi function IDE_GetPersonalPrefSets: PChar
	Transactor Foreign doo	Dolphii Tunolion IDE_Oetr disonair (diodis, Folia)
		Returns a list of all personal preference sets.
		If you to have the Plug-In to use different preferences depending on the
		current connection, you can use this function to build a list of possible
644	IDE O (D ()	preference sets.
211	IDE_GetDefaultPrefSets Available in version 600	C++ char* IDE_GetDefaultPrefSets()
	Available III version 600	Delphi function IDE_GetDefaultPrefSets: PChar
		Returns a list of all default preference sets.
212	IDE_GetPrefAsString	C++ char* IDE_GetPrefAsString(int PlugInID, char * PrefSet,
- '-	Available in version 600	char *Name, char *Default)
		Delphi function IDE_GetPrefAsString(PlugInID: Integer; PrefSet,
		Name: PChar; Default: PChar): PChar
		,
		Read a Plug-In preference from the preferences. In PL/SQL Developer
		6, personal preferences are stored in files, not in the registry. You can
		still use the registry, but if you want to store your preferences in a shared
		location, you can use this function.

		Pass the PlugInID you received with the IdentifyPlugIn call. The PrefSet parameter can be empty to retrieve default preferences, or you can specify one of the existing preference sets.
213	IDE_GetPrefAsInteger Available in version 600	C++ int IDE_GetPrefAsInteger(int PlugInID, char * PrefSet, char *Name, BOOL Default)
		Delphi function IDE_GetPrefAsInteger(PlugInID: Integer; PrefSet, Name: PChar; Default: Integer): Integer
		As IDE_GetPrefAsString, but for integers.
214		C++ BOOL IDE_GetPrefAsBool(int PlugInID, char * PrefSet,
	Available in version 600	char *Name, BOOL Default)
		Delphi function IDE_GetPrefAsBool(PlugInID: Integer; PrefSet, Name: PChar; Default: Bool): Bool
		As IDE_GetPrefAsString, but for booleans.
215	IDE_SetPrefAsString Available in version 600	C++ BOOL IDE_SetPrefAsString(int PlugInID, char *PrefSet,
	Available in version 600	char *Name, char *Value) Delphi function IDE SetPrefAsString(PlugInID: Integer; PrefSet,
		Name: PChar; Value: PChar): Bool
		Set a Plug-In preference. Pass the PlugInID you received with the
		IdentifyPlugIn call. The PrefSet parameter can be empty to set default preferences, or you can specify one of the existing preference sets. The
		return value indicates if the function succeeded.
216		C++ BOOL IDE_SetPrefAsInteger(int PlugInID, char *PrefSet,
	Available in version 600	char *Name, int Value)
		Delphi function IDE_SetPrefAsInteger(PlugInID: Integer; PrefSet, Name: PChar; Value: Integer): Bool
		r reroet, Name. r onar, Value. Integer). Door
		As IDE_SetPrefAsString, but for integers.
217	IDE_SetPrefAsBool Available in version 600	C++ BOOL IDE_SetPrefAsBool(int PlugInID, char *PrefSet,
	Available III version 600	char *Name, BOOL Value) Delphi function IDE_SetPrefAsBool(PlugInID: Integer; PrefSet,
		Name: PChar; Value: Bool): Bool
		,
210	IDE CatCanavalDraf	As IDE_SetPrefAsString, but for booleans. C++ char* IDE_GetGeneralPref(char *Name)
218	IDE_GetGeneralPref Available in version 700	C++ char* IDE_GetGeneralPref(char *Name) Delphi function IDE GetGeneralPref(Name: PChar): PChar
		Bolphi Idilodon Be_esternolan Isi(Idanis: Fendi). Fendi
		Returns the value of a preference. The names can be found in the preference ini file under the [Preferences] section.
219	IDE_PlugInSetting Available in version 710	C++ BOOL IDE_PlugInSetting(int PlugInID char *Setting
	Available III version 710	char *Value) Delphi function IDE_PlugInSetting(PlugInID: Integer; Setting,
		Value: PChar): Bool
		Malana Dhan la anna fin an tiana
		Make a Plug-In specific setting: NOFILEDATECHECK TRUE FALSE
		Determines if PL/SQL Developer checks for changes in files
		(default true)
		CHARMODE ANSI UTF8 UTF8BOM Determines how PChar parameters are passed through the Plug-In
		interface. Since version 7.1 supports editing of Unicode, but the interface
		only supports normal characters, you can choose to support UTF8 encoding. The UTF8BOM encoding will precede the characters with a
		BOM indicator when text contains Unicode.
220	IDE_GetProcOverloadCount	C++ int IDE_GetProcOverloadCount (char *Owner, char
	Available in version 700	*PackageName, char *ProcedureName)
		Delphi IDE_GetProcOverloadCount(Owner, PackageName, ProcedureName: PChar): Integer
		Flocedule Name. Folial). Integel
		Returns the number of overloads for a specific procedure.

		Deput to Dress down describ suist
		Result < 0 = Procedure doesn't exist Result > 0 = overload count
221	IDE_SelectProcOverloading	C++ int IDE_SelectProcOverloading (char *Owner, char
221	Available in version 700	*PackageName, char *ProcedureName)
		Delphi IDE_SelectProcOverloading(Owner, PackageName,
		ProcedureName: PChar): Integer
		1 1000ddioridino. 1 Ondi). Intogol
		Shows a dialog to allow the user to select an overloaded procedure.
		Result < 0 = Cancel
		Result 0 = No overloadings
		Result > 0 = Overload index
230	IDE_GetSessionValue	C++ char* IDE_GetSessionValue (char *Name)
	Available in version 700	Delphi function IDE_GetSessionValue(Name: PChar): PChar
		This function will nature one of the Consist nature of the Consist
		This function will return one of the Session parameters as you see in the grid of the session tool. You will only get a result if the Session Window
		is active, so this will only work from a Popup menu created for the
		SESSIONWINDOW object.
231	IDE CheckDBVersion	C++ BOOL IDE_CheckDBVersion(char *Version)
	Available in version 700	Delphi function IDE_CheckDBVersion(Version: PChar): Boolean
1		,
1		You can use this function to check if the database is equal or higher then
		the specified version. The parameter should be in the format aa.bb, like
COL 6	·····cticas	09.02 or 10.00.
40	unctions SQL_Execute	C++ int SQL_Execute(char *SQL)
40	SQL_Execute	Delphi function SQL_Execute(SQL: PChar): Integer
		Dolphi Tunction Out_Excoute(Out. 1 Onar). Integer
		Executes the statement defined in the SQL parameter. The function
		returns 0 if successful, else the Oracle error number.
41	SQL_FieldCount	C++ int SQL_FieldCount()
		Delphi function SQL_FieldCount: Integer
		Returns the number of fields after a SQL_Execute.
42	SQL_Eof	C++ BOOL SQL_Eof()
		Delphi function SQL_Eof: Bool
		Deturns if there are any mare roughts fortal
43	SQL_Next	Returns if there are any more rows to fetch. C++ int SQL_Next()
43	SQL_Next	Delphi function SQL_Next: Integer
		Delphi Turiction SQL_Next. Integer
1		Returns the next row after a SQL_Execute. The function returns 0 if
L		successful, else the Oracle error number.
44	SQL_Field	C++ char* SQL_Field(int Field)
1		Delphi function SQL_Field(Field: Integer): PChar
1		
<u> </u>	001 5: 1:::	Returns the field specified by the Field parameter.
45	SQL_FieldName	C++ char* SQL_FieldName(int Field)
		Delphi function SQL_FieldName(Field: Integer): PChar
		Poturns the fieldname enecified by the Field personator
46	SQL_FieldIndex	Returns the fieldname specified by the Field parameter. C++ int SQL_FieldIndex(char *Name)
40	OQL_I IGIUIIIUGA	Delphi function SQL_FieldIndex(Name: PChar): Integer
1		Dolphi Tanonon Ode_i Tolamaox(Name. i Onar). Integer
1		Converts a fieldname into an index, which can be used in the SQL_Field,
1		SQL_FieldName and SQL_FieldType functions. If the field does not
		exist, the return value is -1.
47	SQL_FieldType	C++ int SQL_FieldType(int Field)
1		Delphi function SQL_FieldType(Field: Integer): Integer
1		
1		Return the fieldtype of a field.
		3 = otInteger

		4 = otFloat
		5 = otString
		8 = otLong
		12 = otDate
		24 = otLongRaw
40	COL ErrorMossogo	<u> </u>
48	SQL_ErrorMessage Available in version 301	C++ char* SQL_ ErrorMessage()
	Available III version 301	Delphi function SQL_ErrorMessage: PChar
		This function will return the error message for any error that occurred
		during:
		SQL_Execute
		SQL_Eof
		SQL_Next
		IDE_SetConnection
50	SQL_UsePlugInSession	C++ BOOL SQL_UsePlugInSession(int PlugInID)
	Available in version 600	Delphi function SQL_UsePlugInSession(PlugInID: Integer): Bool
		β του του Ευτουρία (19 100)
		Normally, the SQL functions will use the main PL/SQL Developer Oracle
		session. If you want to make sure you don't interfere with other
		transactions, and you want the PlugIn to use a private session, call this
		function.
		The return value indicates if the function succeeded.
51	SQL UseDefaultSession	C++ void SQL_UseDefaultSession(int PlugInID)
	Available in version 600	Delphi procedure SQL UseDefaultSession(PlugInID: Integer)
		This function will cancel the previous function and set the Oracle session
		back to default.
52	SQL CheckConnection	C++ BOOL SQL_CheckConnection()
_	Available in version 700	Delphi function SQL_CheckConnection: Bool
		- · · · · · · · · · · · · · · · · · · ·
		Forces PL/SQL Developer to check if the current connection to the
		database is still open (and tries a re-connect if necessary). The return
		value indicates if there is a connection.
53	SQL_GetDBMSGetOutput	C++ char* SQL_GetDBMSGetOutput()
	Available in version 700	Delphi function SQL_GetDBMSGetOutput: PChar
		Bolpin fallotion od2_ootbbinoootoatpati f onar
		Returns sys.dbms_output for the current (PlugIn specific) session.
54	SQL SetVariable	C++ void SQL_SetVariable (char *Name, char *Value)
] 54	Available in version 700	Delphi procedure SQL SetVariable(Name, Value: PChar)
		Dolphi procedure oc_oetvariable(Ivallie, value. r orial)
		This function declares a variable. Call this for al variables you use in the
		statement you pass in SQL_Execute.
55	SQL_GetVariable	C++ char* SQL_GetVariable (char *Name)
	Available in version 700	Delphi function SQL GetVariable(Name: PChar): PChar
		Dolphi Tandion OQL_Octvanable(Name. Fonal). Fonal
		This function will return the value of a variable.
56	SQL_ClearVariables	C++ void SQL_ClearVariables ()
30	Available in version 700	
	Available III version 700	Delphi procedure SQL_ClearVariables
		Close all declared variables. If you are finished doing a guary it is a good
		Clear all declared variables. If you are finished doing a query it is a good
-		idea to call this function to prevent errors for the next execute.

The callback functions are divided into three groups, SYS functions (returning system information), IDE functions (for interaction with the PL/SQL Developer IDE) and SQL functions.

The SYS functions return PL/SQL Developer and Oracle information. You might need these to locate or store information.

The IDE functions allow you to communicate with the PL/SQL Developer IDE. Some functions return information of the current state of PL/SQL Developer. This allows your Plug-In to be context sensitive.

If you want to send messages to a window or an Editor, you can use the handle functions to get hold of any handle you might need.

The SQL functions can be used to execute any kind of SQL statement. If, for example, you wanted to query all existing tables you could use the SQL functions like this:

```
SQL_Execute('Select * from all_tables');
index = SQL_FieldIndex('TABLE_NAME');
while not SQL_Eof do
begin
   FieldName := SQL_Field(index);
   // Do something with Fieldname
   SQL_Next;
end;
```

Note that you can't nest queries. You should also be aware that the Oracle session used for the query is the same session that is used internally by PL/SQL Developer for compilations and other DDL statements. If the Session Mode preference is set to Dual Session or Multi Session, a different session is used for all SQL Windows, Test Windows and Command Windows.

All returned string values (like the value from SQL_Field) are returned as a pointer to an array of zero terminated characters. PL/SQL Developer allocates memory for this array but you should copy the value if you are going to use it because the same buffer will be used again for the next function that returns a string.

Developing your Plug-In

While developing your Plug-In it might be handy to configure PL/SQL Developer to pick up the Plug-In in your development directory. Simply set the Plug-Ins directory in the preferences dialog to your development directory. The default Plug-In directory will always be checked so any other Plug-Ins will still be loaded.

Most programming languages allow you to define a "host" application while developing a DLL. If you define PL/SQL Developer as host application you can "run" your Plug-In while actually PL/SQL Developer is started which (if configured properly) will load your Plug-In. This allows you to quickly test any modifications.

Note that PL/SQL Developer will only load a Plug-In if the description is unique. If you have Plug-Ins with identical descriptions, only the first one is loaded.

You should also be aware that C++ programming languages will modify exported function names. This has something to do with method overloading, but it will cause PL/SQL Developer to ignore the Plug-In because the expected exported functions were not found. Use extern "c" to prevent function names from being mangled in C++ programs, like this:

```
extern "C"
{
    __declspec(dllexport) char* IdentifyPlugIn(int);
    __declspec(dllexport) char* CreateMenuItem(int);
    __declspec(dllexport) void RegisterCallback(int, void *);
    __declspec(dllexport) void OnMenuClick(int);
}
```

It might be a good idea to start with one of the supplied demos. We have included demos in C++Builder (version 3 and upwards) and Delphi (2 and upwards) format.

Debugging a Plug-In

In version 7.1, PL/SQL Developer has a new commandline option DEBUGPLUGINS, which will write debuglines to debug.txt like Plug-In initialization info and the functions called.

Plug-In External FileSystem

The External file system functions allows you to add open and save functions to store files wherever you want. Our FTP Plug-In is an example of this. You need to create a unique name for your "filesystem" and export a RegisterFileSystem function like this:

```
const FileSystem = 'FTP';
function RegisterFileSystem: PChar; cdecl;
begin
  Result := FileSystem;
end;
```

Next you probably want to add open and save menu items so you can actually handle files. The FTP Plug-In does something like this:

```
var WindowType: Array[0..9] of Integer;
function CreateMenuItem(Index: Integer): PChar; cdecl;
var S: string;
   wt: Integer;
begin
 MenuString := '';
  case Index of
   2 : MenuString := PChar('File / Save As... >> FTP Save As...');
    3 : MenuString := PChar('File / Open >> FTP Open');
  10 .
   19 : begin
          S := IDE_GetFileOpenMenu(Index - 10, wt);
          if wt <> wtNone then
          begin
            WindowType[Index - 10] := wt;
            MenuString := PChar('File / FTP Open / ' + S);
        end;
  end;
  Result := PChar(MenuString);
```

Item 2 adds a "save as" menu, and item 3 adds an "open" group where items 10 to 19 add a menu for all existing window types. The OnMenuClick can look like this:

```
procedure OnMenuClick(Index: Integer); cdecl;
begin
  case Index of
     2 : FileSave;
    10 .
    19 : FileOpen(WindowType[Index - 10]);
  end;
end;
procedure FileSave;
var w: Integer;
    sProfileName, sFileName, E: string;
    oStream: TStringStream;
begin
  w := IDE_GetWindowType;
  E := IDE_GetFileTypes(w);
  FTP.DefaultFileExt := IDE_GetDefaultExtension(wtNone);
  FTP.CurrentWindowType := w;
  oStream := TStringStream.Create(IDE_GetFileData);
  try
    sProfileName := '';
    sFileName := '';
    if FTP.SaveFile(sProfileName, sFileName, E, oStream) then
      IDE_FileSaved(FileSystem, PChar(sProfileName), PChar(sFileName));
  finally
    oStream.Free;
  end;
end;
procedure FileOpen(w: Integer);
var sProfileName, sFileName, E: string;
    oStream: TStringStream;
```

```
begin
    E := IDE_GetFileTypes(w);
    FTP.DefaultFileExt := IDE_GetDefaultExtension(wtNone);
FTP.CurrentWindowType := w;
    oStream := TStringStream.Create('');
    try
        sProfileName := '';
        sFileName := '';
        if FTP.OpenFile(sProfileName, sFileName, E, oStream) then
            IDE_OpenFileExternal(w, PChar(oStream.DataString), FileSystem, PChar(sProfileName),
            PChar(sFileName));
        finally
            oStream.Free;
        end;
end;
```

Above is the general code as used in our FTP Plug-in.

The IDE_FileSaved and IDE_OpenFileExternal functions have a filesystem and tag parameter. The first is the name you declared in RegisterFileSystem, the second (tag) parameter can be used for your own use. In the case of the FTP Plug-In it holds the profile name, which is the name that references a defined connection.

In addition to the above you'll also need to add a load and save function to bypass the file dialog. This is required for when you open a file from the recently used file list, or if you select "save file" and not "save as", or when loading/saving the application desktop. For this you need to add the following two exported functions.

```
function DirectFileLoad(var Tag, Filename: PChar; WindowType: Integer): PChar; cdecl;
function DirectFileSave(var Tag, Filename: PChar; Data: PChar; WindowType: Integer): Bool; cdecl;
```

Again, the tag is passed as a parameter, together with a filename, the windowtype and the actual data. The tag, filesystem and filename is stored with every window.

Plug-In Export functions

Not all functions related to export functions are described yet. If you want to create your own data export module, just let us know and we will give you some additional information.

There is a Delphi RTF Export demo you can use as a reference.

Distributing your Plug-In

Installing your Plug-In basically means copying it to PL/SQL Developers Plug-In directory. If you want to build an installer, you can determine the PL/SQL Developer directory by reading the following registry value:

```
HKEY_CLASSES_ROOT\PL/SQL Developer\Shell\Open\Command
```

Which will return something like:

```
"C:\Program Files\PLSQL Developer\PLSQLDev.exe"
```

If you remove the executable name and add "PlugIns", you have the destination path.

You can make Plug-Ins user specific by placing them in an additional "username" directory. PL/SQL Developer uses the following sequence to look for Plug-Ins:

```
1 Load Plug-Ins from Plug-Ins preference setting 2 Load Plug-Ins from PlugIns\Username\*.dll 3 Load Plug-Ins from PlugIns\*.dll
```

New Plug-Ins will be active when PL/SQL Developer starts.

Notes for MS Visual C++

If you want to build a Plug-In with Microsoft Visual C++, please note that the registration of the callback functions is slightly different from the Borland C++Builder examples. The RegisterCallback function for MS Visual C++ would look like this:

```
void RegisterCallback(int Index, void *Addr)
{
   switch (Index)
   {
      case 10 :
       void* IDE_MenuState = Addr;
       break;
   case 11 :
      void * IDE_Connected = Addr;
      break;
}
```

Notice the difference in the void* declaration.

Contacting us

If you want to contact us with questions or remarks about the Plug-In interface or PL/SQL Developer in general, just send an email to:

Allround Automations

support@allroundautomations.com

http://www.allroundautomations.com/plsqldev.html