# Menus for Visual Studio Tools for Microsoft Dynamics GP 2010 (build 9)

## Introduction

Menus for Visual Studio<sup>®</sup> Tools for Microsoft Dynamics<sup>®</sup> GP 2010 is a Dexterity<sup>®</sup> add-on software tool which contains an Application Programming Interface (API) which can be called from Visual Studio development system using Visual Basic<sup>®</sup> or Visual C# <sup>®</sup> development systems to add their own menu items into menu structure for the Microsoft Dynamics GP.

## **Compatibility information**

The tool is only available for Microsoft Dynamics GP 2010.

## Contents of the Menus for Visual Studio Tools for Microsoft Dynamics GP 11.0 Archive

Below is a table of the files and folders included in the VSTM 1100.zip archive file:

File or Folder Name	Description	
VSTMenus.cnk	Tool chunk file (self installing application	
	Dexterity dictionary)	
VSTMenus.pdf	User guide documentation (this document)	
VSTMenus.txt	Quick usage guide with example C# and VB	
	scripts and version history.	
License.doc	End User License Agreement	
Application. Menus For Visual Studio Tools. dll	Visual Studio Tools Assembly for Tool	
Application. Menus For Visual Studio Tools.xml	Visual Studio Tools XML descriptions for	
	Intellisense	
VSTMenusCSharp folder	Sample Visual C# project which add menus	
	to Cards >> Sales menu	
VSTMenusVB folder	Sample Visual Basic project which add	
	menus to Cards >> Purchasing menu	

# **Installing Menus for Visual Studio Tools for Microsoft Dynamics GP 2010**

- From the VSTM\_1100.zip archive, extract the VSTMenus.cnk,
   Application.MenusForVisualStudioTools.dll and Application.MenusForVisualStudioTools.xml
   files to the Microsoft Dynamics GP Application folder (default location: C:\Program
   Files\Microsoft Dynamics\GP).
- 2. Launch Microsoft Dynamics GP.
- 3. When the "New code must be included in the Dynamics.set dictionary. Do you wish to included new code now?" dialog is displayed, click Yes.

## Installing Menus for Visual Studio Tools for Microsoft Dynamics GP 2010 sample projects

- From the VSTM\_1100.zip archive, extract the VSTMenusCSharp folder and/or VSTMenusVB folder to your desired location in your development system. There is no specific path recommended.
- 2. For each of the projects, perform the steps 3 to 13 below.
- 3. Open the project solution file (VSTMenusCSharp.sln or VSTMenusVB.sln) with Visual Studio.
- 4. In the Solution Explorer, expand References. To see References you might need to click on the "Show All Files" button (second button from the left on the Solutions Explorer toolbar). For Visual Basic you will also need to expand the "My Project" node.
- 5. Right click on the reference for Application. Menus For Visual Studio Tools and click Remove.
- 6. Right click on the References folder and click Add Reference.
- 7. On the Add Reference dialog, select the Browse tab.
- 8. Select the Application. Menus For Visual Studio Tools. dll file installed previously the Microsoft Dynamics GP Application folder (default location: C:\Program Files\Microsoft Dynamics\GP).
- 9. Click OK.
- 10. Click to select the newly added Application. Menus For Visual Studio Tools reference.
- 11. In the Properties window, set the Copy Local property to False.
- 12. From the Build menu, build the project.
- 13. Copy the resulting VSTMenusCSharp.dll or VSTMenusVB.dll file from the project's bin/Debug folder to the AddIns folder in the Microsoft Dynamics GP Application folder.
- 14. Launch Microsoft Dynamics GP.
- 15. Look at Cards >> Sales for the "VS C# Test" menu items, or Cards >> Purchasing for the "VS VB Test" menu items.

#### Using Menus for Visual Studio Tools for Microsoft Dynamics GP 2010 in your own projects

Note: The following section is assuming that you have an existing Visual Studio Tools for Microsoft Dynamics GP project created.

To use the Menus for Visual Studio Tools for Microsoft Dynamics GP 2010, you will need to add a reference from your Visual Studio application to the

Application. Menus For Visual Studio Tools. dll file you installed in the Microsoft Dynamics GP application folder. Below are the steps:

- 1. In the Solution Explorer, expand References. To see References you might need to click on the "Show All Files" button (second button from the left on the Solutions Explorer toolbar
  - ). For Visual Basic you will also need to expand the "My Project" node.
- 2. Right click on the References folder and click Add Reference.
- 3. On the Add Reference dialog, select the Browse tab.
- 4. Select the Application. Menus For Visual Studio Tools. dll file installed previously the Microsoft Dynamics GP Application folder (default location: C:\Program Files\Microsoft Dynamics\GP).
- 5. Click OK.
- 6. Click to select the newly added Application. Menus For Visual Studio Tools reference.
- 7. In the Properties window, set the Copy Local property to False.

## Registering Events for Menus for Visual Studio Tools (GP 2010 Syntax)

Next you need to add into the Initialize() script the commands to register for the two function events used by the tool. This syntax now uses the function events added in GP 2010.

Register the following function event to call the script to register/create your menu entries:

```
MenusForVisualStudioTools.Functions.EventRegister.InvokeAfterOriginal
```

The event handler called from this event then contains the commands to create the menus as needed by your application.

Then, register the following function event to call the script to handle the callback when a menu entry is selected:

```
MenusForVisualStudioTools.Functions.EventHandler.InvokeAfterOriginal
```

The event handler called from this event then checks that the callback is caused by one of the menu items from this application and if so performs the desired action, such as opening a Visual Studio Tools form.

Below are examples of the required event registrations for Visual C# and Visual Basic:

In these samples the <code>vstmcommandFormRegister()</code> script would contain the function calls to add the menu items and record their returned menu tags. The <code>vstmcommandFormCallback()</code> script would then use the first parameter <code>e.inParam1</code> from <code>EventHandlerFunction.InvokeEventArgs e</code> argument object returned by the function call to obtain the menu tag of the menu item selected. This tag can then be compared to the stored menu tags obtained during registration and if a match is found, the desired actions can be executed.

Please see the Visual Basic and Visual C# examples included in the archive for more information.

## Registering Events for Menus for Visual Studio Tools (GP 10.0 Syntax still supported)

Next you need to add into the Initialize() script the commands to register for the two events used by the tool.

Register the following event to call the script to register/create your menu entries:

```
MenusForVisualStudioTools.Forms.VstmCommandForm.Api.RegisterButton.ClickAfterOriginal
```

The event handler called from this event then contains the commands to create the menus as needed by your application.

Then, register the following event to call the script to handle the callback when a menu entry is selected:

```
MenusForVisualStudioTools.Forms.VstmCommandForm.Api.CmdId.ValidateAfterOriginal
```

The event handler called from this event then checks that the callback is caused by one of the menu items from this application and if so performs the desired action, such as opening a Visual Studio Tools form.

Below are examples of the required event registrations for Visual C# and Visual Basic:

```
public void Initialize()
       // Register Event to add menu entries
       MenusForVisualStudioTools.Forms.VstmCommandForm.Api.RegisterButton.ClickAfterOriginal +=
       new EventHandler(VSTMCommandFormRegister);
       // Register Event to handle callbacks from menu entries
       MenusForVisualStudioTools.Forms.VstmCommandForm.Api.CmdId.ValidateAfterOriginal += new
       EventHandler(VSTMCommandFormCallback);
Sub Initialize() Implements IDexterityAddIn.Initialize
       ' Register Event to add menu entries
       AddHandler
       MenusForVisualStudioTools.Forms.VstmCommandForm.Api.RegisterButton.ClickAfterOriginal,
       AddressOf VSTMCommandFormRegister
       ' Register Event to handle callbacks from menu entries
       AddHandler
       MenusForVisualStudioTools.Forms.VstmCommandForm.Api.CmdId.ValidateAfterOriginal,
       AddressOf VSTMCommandFormCallback
End Sub
```

In these samples the VSTMCommandFormRegister() script would contain the function calls to add the menu items and record their returned menu tags. The VSTMCommandFormCallback() script would then use the MenusForVisualStudioTools.Functions.Callback.Invoke() function call to obtain the menu tag of the menu item selected. This tag can then be compared to the stored menu tags obtained during registration and if a match is found, the desired actions can be executed.

Please see the Visual Basic and Visual C# examples included in the archive for more information.

## **Glossary of Terms**

Below is a list terms used in this documentation and with Menus for Visual Studio Tools for Microsoft Dynamics GP 2010:

Dictionary ID: Short integer uniquely identifying a Dexterity Dictionary, also known as a

Product ID. The Dictionary ID for a product can be obtained from the

Dynamics.set launch file.

Resource ID: Short integer uniquely identifying an individual resource within a

Dexterity Dictionary.

Form: A container object that holds windows, scripts and commands.

Form Name: The name of a form within a Dictionary.

Form Resource ID: The Resource ID for a form within a Dictionary

Command: A Dexterity resource used for creating Menus and Toolbars. Commands

are contained on a form. To uniquely identify a command requires a

Menu Tag: Short integer assigned to a command when it is added to the application

menu structure.

#### Limitations

Menus for Visual Studio Tools for Microsoft Dynamics GP 2010 has the following limitations:

- There are a maximum of 100 menu items shared among all of the Visual Studio Tools products using the API.
- Menu items defined cannot be added to toolbars
- The menus added with this tool will not be visible to other Dexterity based applications.

#### **Product Support**

Technical support for Menus for Visual Studio Tools for Microsoft Dynamics GP 2010 can be obtained through the standard Dynamics GP support channels. Information on contacting support can be found in the Support area of the MSDN Dynamics GP Developer Center.

http://msdn.microsoft.com/en-us/dynamics/gp/bb468042.aspx

For customers or partners on a Dynamics specific support plan, please use the following link from CustomerSource or PartnerSource to log a Visual Studio Tools case.

https://mbs.microsoft.com/support

# Menu structure in Microsoft Dynamics GP

To add your menu items to the set of menus in Microsoft Dynamics GP, you need to know how the menus are structured. The following table shows the menu structure for the core application. These are the menus you see in the Area Pages, in the Microsoft Dynamics GP menu, and the "Main" toolbar. You will use this information when you add the menu items for your integration.

Top-level menu	Submenu	Form	Command
Tools*		Command_System	CL_Tools
Tools >> Setup		Command_System	CL_Setup
	System	Command_System	CL_System_Setup
	Company	Command_System	CL_Company_Setup
	Posting	Command_System	CL_Posting_Setup
	Financial	Command_Financial	CL_Financial_Setup
	Sales	Command_Sales	CL_Sales_Setup
	Purchasing	Command_Purchasing	CL_Purchasing_Setup
	Inventory	Command_Inventory	CL_Inventory_Setup
	Payroll	Command_Payroll	CL_Payroll_Setup
Tools >> Utilities		Command_System	CL_Utilities
	System	Command_System	CL_System_Utilities
	Company	Command_System	CL_Company_Utilities
	Financial	Command_Financial	CL_Financial_Utilities
	Sales	Command_Sales	CL_Sales_Utilities
	Purchasing	Command_Purchasing	CL_Purchasing_Utilities
	Inventory	Command_Inventory	CL_Inventory_Utilities
	Payroll	Command_Payroll	CL_Payroll_Utilities
Tools >> Routines		Command_System	CL_Routines
	Company	Command_System	CL_Company_Routines
	Financial	Command_Financial	CL_Financial_Routines
	Sales	Command_Sales	CL_Sales_Routines
	Purchasing	Command_Purchasing	CL_Purchasing_Routines
	Inventory	Command_Inventory	CL_Inventory_Routines
	Payroll	Command_Payroll	CL_Payroll_Routines
Transactions		Command_System	CL_Transactions
	Financial	Command_Financial	CL_Financial_Transactions
	Sales	Command_Sales	CL_Sales_Transactions
	Purchasing	Command_Purchasing	CL_Purchasing_Transactions
	Inventory	Command_Inventory	CL_Inventory_Transactions
	Payroll	Command_Payroll	CL_Payroll_Transactions
Inquiry		Command_System	CL_Inquiry
	System	Command_System	CL_System_Inquiry
	Financial	Command_Financial	CL_Financial_Inquiry
	Sales	Command_Sales	CL_Sales_Inquiry
	Purchasing	Command_Purchasing	CL_Purchasing_Inquiry
	Inventory	Command_Inventory	CL_Inventory_Inquiry
	Payroll	Command_Payroll	CL_Payroll_Inquiry

Top-level menu	Submenu	Form	Command
Reports		Command_System	CL_Reports
	System	Command_System	CL_System_Reports
	Company	Command_System	CL_Company_Reports
	Financial	Command_Financial	CL_Financial_Reports
	Sales	Command_Sales	CL_Sales_Reports
	Purchasing	Command_Purchasing	CL_Purchasing_Reports
	Inventory	Command_Inventory	CL_Inventory_Reports
	Payroll	Command_Payroll	CL_Payroll_Reports
Cards		Command_System	CL_Cards
	System	Command_System	CL_System_Cards
	Financial	Command_Financial	CL_Financial_Cards
	Sales	Command_Sales	CL_Sales_Cards
	Purchasing	Command_Purchasing	CL_Purchasing_Cards
	Inventory	Command_Inventory	CL_Inventory_Cards
	Payroll	Command_Payroll	CL_Payroll_Cards
Help*		Command_System	CL_Help

<sup>\*</sup>We recommend not adding items directly to this top-level menu

#### **Functions Available**

Below is a list of the functions available to be called from the MenusForVisualStudioTools.Functions object.

# **Registration Functions:**

Name: Register

Description: This function is used to create menu entries or parent menus entries for sub menus.

Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Register

Returns: (Short) The Menu Tag of the registered menu or error code.

Parameters: IN\_Parent\_Tag (Short) Menu Tag for Parent

IN\_Caption (String) Menu Caption, cannot be empty

IN Tooltip (String) Menu Tooltip (optional)

IN Key (Integer) Menu Shortcut, ASCII value of key **IN** Modifier Menu Shortcut Modifier (optional) (Integer) **IN Checked** Set to True to create menu as checked (Boolean) **IN** Disabled (Boolean) Set to True to create menu as disabled IN Hidden (Boolean) Set to True to create menu as hidden (Short) Menu Tag for menu entry to add below IN\_Below\_Tag **IN** Separator (Boolean) Set to True to add Separator above

IN\_List (Boolean) Set to True to add Menu as Command List

Related: GetTag, GetTagByName, Unregister

Error Codes: -1 : Attempting to register more than the supported number of menus.

-2: No Parent Tag provided.

-3: No Caption provided.

-4: Parent Tag was provided, unable to identify Parent Command from Tag.

Name: RegisterWithSecurity

Description: This function is used to create menu entries with security inherited from a

application form. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.RegisterWithSecurity

Returns: (Short) The Menu Tag of the registered menu or an error code.

Parameters: IN\_Parent\_Tag (Short) Menu Tag for Parent

IN\_Caption (String) Menu Caption, cannot be empty

IN\_Tooltip (String) Menu Tooltip (optional)

IN Key Menu Shortcut, ASCII value of key (Integer) **IN** Modifier Menu Shortcut Modifier (optional) (Integer) **IN Checked** (Boolean) Set to True to create menu as checked **IN** Disabled Set to True to create menu as disabled (Boolean) (Boolean) IN Hidden Set to True to create menu as hidden IN\_Below\_Tag (Short) Menu Tag for menu entry to add below **IN** Separator (Boolean) Set to True to add Separator above

IN\_List (Boolean) Set to True to add Menu as Command List

IN\_SecurityDictID (Short) Dictionary ID for Security Form IN\_SecurityResID (Short) Resource ID for Security Form

Related: GetTag, GetTagByName, GetFormResID, Unregister

Error Codes: Validate TagError Codes

ValidateForm Error Codes

-1 : Attempting to register more than the supported number of menus.

-2 : No Parent Tag provided.

-3: No Caption provided.

-4: Parent Tag was provided, unable to identify Parent Command from Tag.

-5 : Security Form not applied due to table error

Name: RegisterSimple

Description: This function provides a simplified registration syntax to add menu entries to the end

of any existing menu in core Dynamics GP, Project Accounting, Field Service,

Manufacturing and Human Resources.

The Command List Name for the parent menu can be any command list command from any of the command forms in the products listed above. The table provided earlier in the documentation includes the command lists for core Dynamics GP in the final column. Command lists for the other products can be identified using Dexterity from the following forms:

Project Accounting Command PA

Field Service SVC\_Command\_\* (6 forms)

Manufacturing Command\_MFG Human Resources Command\_HR

The command form and product dictionary do not need to be specified and parent menu tag does not need to be identified first. The Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.RegisterSimple

Returns: (Short) The Menu Tag of the registered menu or error code.

Parameters: IN\_Parent\_Menu (String) Command List Name for Parent

IN\_Caption (String) Menu Caption, cannot be empty

Related: GetTagSimple, Unregister

Error Codes: ValidateFormByName Error Codes

-1: Attempting to register more than the supported number of menus.

-2: No Parent Tag provided.

-3: No Caption provided.

-4: Parent Tag was provided, unable to identify Parent Command from Tag.

-13: Command Resource not found.

Name: Unregister

Description: This function is used to unregister menu entries. This is only provided to allow menus

to be removed due to an exception during the registration process. Ensure all child

menu entries are removed before removing the parent menu entry.

This function will not return the unregistered menus to the pool of available menus entries. If you require the ability to dynamically control menus, use the Hide and

Disable functions.

Qualified Name: MenusForVisualStudioTools.Functions.Unregister

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Parent\_Tag (Short) Menu Tag for Parent

IN\_Tag (Short) Menu Tag to link Security Form to

Related: Register, RegisterWithSecurity

Error Codes: ValidateTag Error Codes

-2: No Parent Tag provided.

-4: Parent Tag was provided, unable to identify Parent Command from Tag.

-16: Unregistering Menu Tag failed.

## **Security Functions:**

Name: ApplySecurity

Description: This function is used to add/change security to an existing menu. Security is inherited

from an application form. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.ApplySecurity

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Tag (Short) Menu Tag to link Security Form to

IN\_DictID (Short) Dictionary ID for Security Form IN\_ResID (Short) Resource ID for Security Form

Related: GetFormResID

Error Codes: ValidateTag Error Codes

ValidateForm Error Codes

-5 : Security Form not applied due to table error.

Name: RemoveSecurity

Description: This function is used to remove security from a menu. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.RemoveSecurity

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag to remove Security Form from

Related: GetFormResID

Error Codes: ValidateTag Error Codes

-5 : Security Form not applied due to table error.

Name: CheckSecurity

Description: This function is used to check the application level security access of a Form given its

ID. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.CheckSecurity

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Dict (Short) Dictionary ID for Form

IN Form (Short) Form Resource ID for Form

IN\_Verbose (Boolean) Display Security Error when Access Denied

Related: CheckSecurityByName, DisplaySecurityError

Error Codes: ValidateForm Error Codes

0: OKAY – Access Granted.

1 : REJECT\_RECORD – Access Denied.2 : REJECT\_SCRIPT – Form not loaded.

Name: CheckSecurityByName

Description: This function is used to check the application level security access of a Form given its

Name. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.CheckSecurityByName

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_DictID (Short) Dictionary ID for Form

IN\_FormName (String) Form Name for Form

IN Verbose (Boolean) Display Security Error when Access Denied

Related: CheckSecurity, DisplaySecurityError

Error Codes: ValidateFormByName Error Codes

0: OKAY - Access Granted.

1 : REJECT\_RECORD – Access Denied. 2 : REJECT\_SCRIPT – Form not loaded. Name: DisplaySecurityError

Description: This function is used to display the "You don't have security privileges to open this

window" security error dialog.

Qualified Name: MenusForVisualStudioTools.Functions.DisplaySecurityError

Returns: (Short) Returns 1

Parameters: None

Related: CheckSecurity, CheckSecurityByName

## **Helper Functions:**

Name: GetFormResID

Description: This function is used to obtain the Resource ID of a form from a string containing the

form's technical name. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetFormResID

Returns: (Short) Resource ID for Form or an error code

Parameters: IN\_DictID (Short) Dictionary ID for Form

IN\_FormName (String) Form Name for Form

Related: RegisterWithSecurity, ApplySecurity

Error Codes: ValidateFormByName Error Codes

Name: GetIDs

Description: This function is used to obtain the Dictionary ID, Form ID and Command ID for a given

Menu Tag. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetIDs

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag to retrieve

OUT\_Dict (Short) Dictionary ID of Menu Entry
OUT\_Form (Short) Form Resource ID of Menu Entry
OUT\_Cmd (Short) Command Resource ID of Menu Entry

Related: GetTag

Error Codes: ValidateTag Error Codes

Name: GetTag

Description: This function is used to obtain the Tag ID of a menu entry from the Dictionary ID,

Form ID and Command ID. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetTag

Returns: (Short) Menu Tag of specified Menu Entry or an error code

Parameters: IN Dict (Short) Dictionary ID of Menu Entry

IN\_Form (Short) Form Resource ID of Menu Entry IN\_Cmd (Short) Command Resource ID of Menu Entry

Related: GetIDs, GetTagByName, GetTagSimple

Error Codes: ValidateCmd Error Codes

Name: GetTagByName

Description: This function is used to obtain the Tag ID of a menu entry from the Dictionary ID,

Form Name and Command Name. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetTagByName

Returns: (Short) Menu Tag of specified Menu Entry or an error code

Parameters: IN Dict (Short) Dictionary ID of Menu Entry

IN\_Form (String) Form Name of Menu Entry IN\_Cmd (String) Command Name of Menu Entry

Related: GetTag, GetTagSimple, Register, RegisterWithSecurity

Error Codes: ValidateCmdByName Error Codes

Name: GetTagSimple

Description: This function provides a simplified syntax to obtain the Tag ID of any existing menu in

core Dynamics GP, Project Accounting, Field Service, Manufacturing and Human

Resources.

The Command List Name for the parent menu can be any command list command from any of the command forms in the products listed above. The table provided earlier in the documentation includes the command lists for core Dynamics GP in the final column. Command lists for the other products can be identified using Dexterity from the following forms:

Project Accounting Command PA

Field Service SVC\_Command\_\* (6 forms)

Manufacturing Command\_MFG Human Resources Command\_HR

The command form and product dictionary do not need to be specified and parent menu tag does not need to be identified first. The Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetTagSimple

Returns: (Short) Menu Tag of specified Menu Entry or an error code

Parameters: IN\_Parent\_Menu (String) Command List Name for Parent

Related: GetTag, GetTagByName, Register, RegisterWithSecurity, RegisterSimple

Error Codes: ValidateCmdByName Error Codes

-13: Command Resource not found.

## **Callback Function:**

Name: Callback

Description: This function is used to obtain the Tag ID of the just selected menu entry to be

compared with the values returned during registration.

Qualified Name: MenusForVisualStudioTools.Functions.Callback

Returns: (Short) Menu Tag of just selected Menu Entry

Parameters: None

Related: Register, RegisterWithSecurity

## **Boolean Property Functions:**

Name: Checked

Description: This function is used to get the checked state of the specified Menu Entry. Error

codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Checked

Returns: (Short) Returns 0 (False) or 1 (True) or an error code.

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

Related: Check

Error Codes: ValidateTag Error Codes

Name: Check

Description: This function is used to set the checked state of the specified Menu Entry. Error

codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Check

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

IN\_Checked (Boolean) Set to True to check Menu Entry

Related: Checked

Error Codes: ValidateTag Error Codes

Name: Hidden

Description: This function is used to get the hidden state of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Hidden

Returns: (Short) Returns 0 (False) or 1 (True) or an error code.

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

Related: Hide

Error Codes: ValidateTag Error Codes

Name: Hide

Description: This function is used to set the hidden state of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Hide

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

IN Hidden (Boolean) Set to True to hide Menu Entry

Related: Hidden

Error Codes: ValidateTag Error Codes

Name: Disabled

Description: This function is used to get the disabled state of the specified Menu Entry. Error

codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Disabled

Returns: (Short) Returns 0 (False) or 1 (True) or an error code.

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

Related: Disable

Error Codes: ValidateTag Error Codes

Name: Disable

Description: This function is used to set the disabled state of the specified Menu Entry. Error

codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.Disable

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

IN Disabled (Boolean) Set to True to disable Menu Entry

Related: Disabled

Error Codes: ValidateTag Error Codes

## **String Property Functions:**

Name: GetCaption

Description: This function is used to get the caption value of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetCaption

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

OUT\_Caption (String) Current Name of Menu Entry

Related: SetCaption

Error Codes: ValidateTag Error Codes

Name: SetCaption

Description: This function is used to set the caption value of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.SetCaption

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

IN\_Caption (String) Value to change Menu Name to

Related: GetCaption

Error Codes: ValidateTag Error Codes

-3: No Caption provided.

Name: GetTooltip

Description: This function is used to get the tooltip value of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.GetTooltip

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Tag (Short) Menu Tag of Menu Entry

OUT\_Tooltip (String) Current Tooltip of Menu Entry

Related: SetTooltip

Error Codes: ValidateTag Error Codes

Name: SetTooltip

Description: This function is used to set the tooltip value of the specified Menu Entry. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.SetTooltip

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Tag (Short) Menu Tag of Menu Entry

IN\_Tooltip (String) Value to change Tooltip to

Related: GetTooltip

Error Codes: ValidateTag Error Codes

## **Version Functions:**

Name: GetVersion

Description: This function is used to obtain the version and build number for the tool.

Qualified Name: MenusForVisualStudioTools.Functions.GetVersion

Returns: (String) Version Number in form 11.00.XXXX

Parameters: None

Related: DisplayAbout

Name: DisplayAbout

Description: This function is used to open the About window.

Qualified Name: MenusForVisualStudioTools.Functions.DisplayAbout

Returns: (Boolean) Set True if the window opened

Parameters: None

Related: GetVersion

#### **Validation Functions:**

Name: SetProtectedMode

Description: This function is used to turn off and on Protected Mode. Protected Mode is on by

default which will prevent menu tags from other products being addressed. If you turn off Protected Mode to allow access to a menu from another product, ensure you

turn it back on afterwards.

Qualified Name: MenusForVisualStudioTools.Functions.SetProtectedMode

Returns: (Boolean) Returns True

Parameters: IN\_Mode (Boolean) Set to False to turn Protected Mode off

Related: ValidateTag

Name: ValidateTag

Description: This function is used check if a Menu Tag is valid. If Protected Mode is on, a Menu

Tag from another product will return an error code. Error codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.ValidateTag

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Tag (Short) Menu Tag of Menu Entry

Related: SetProtectedMode

Error codes: -6 : No Menu Tag provided.

-7: Menu Tag not found.

-8: Menu Tag found, but from another product and Protected Mode is on.

-9: Product Dictionary not loaded.

-10: No Form Name or Form ID provided.

-11: Form Resource not found.

-12 : No Command Name or Command ID provided. -14 : Command Resource not loaded in memory. Name: ValidateCmd

Description: This function is used check if a Command on a form is valid given its ID. Error codes

are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.ValidateCmd

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Dict (Short) Dictionary ID of Menu Entry

IN\_Form (Short) Form Resource ID of Menu Entry IN\_Cmd (Short) Command Resource ID of Menu Entry

Related: ValidateCmdByName

Error codes: -9 : Product Dictionary not loaded.

-10: No Form Name or Form ID provided.

-11: Form Resource not found.

-12: No Command Name or Command ID provided.

-13: Command Resource not found.

-14: Command Resource not loaded in memory.

Name: ValidateCmdByName

Description: This function is used check if a Command on a form is valid given its name. Error

codes are shown below.

Qualified Name: MenusForVisualStudioTools.Functions.ValidateCmdByName

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_Dict (Short) Dictionary ID of Menu Entry

IN\_Form (String) Form Name of Menu Entry IN\_Cmd (String) Command Name of Menu Entry

Related: ValidateCmd

Error codes: -9 : Product Dictionary not loaded.

-10: No Form Name or Form ID provided.

-11: Form Resource not found.

-12: No Command Name or Command ID provided.

-13: Command Resource not found.

-14 : Command Resource not loaded in memory.

Name: ValidateForm

Description: This function is used check if a Form is valid given its ID. Error codes are shown

below.

Qualified Name: MenusForVisualStudioTools.Functions.ValidateForm

Returns: (Short) Returns zero for no error or an error code

Parameters: IN Dict (Short) Dictionary ID for Form

IN\_Form (Short) Form Resource ID for Form

Related: ValidateFormByName

Error codes: -9 : Product Dictionary not loaded.

-10: No Form Name or Form ID provided.

-11 : Form Resource not found.

Name: ValidateFormByName

Description: This function is used check if a Form is valid given its Name. Error codes are shown

below.

Qualified Name: MenusForVisualStudioTools.Functions.ValidateFormByName

Returns: (Short) Returns zero for no error or an error code

Parameters: IN\_DictID (Short) Dictionary ID for Form

IN\_FormName (String) Form Name for Form

Related: ValidateForm

Error codes: -9 : Product Dictionary not loaded.

-10: No Form Name or Form ID provided.

-11: Form Resource not found.

## **Error Code Summary:**

-16

This is a list of the standard error codes returned by the functions.

Unregistering Menu Tag failed.

-1 Attempting to register more than the supported number of menus. -2 No Parent Tag provided. -3 No Caption provided. -4 Parent Tag was provided, unable to identify Parent Command from Tag. -5 Security Form not applied due to table error. No Menu Tag provided. -6 -7 Menu Tag not found. -8 Menu Tag found, but from another product and Protected Mode is on. -9 Product Dictionary not loaded. No Form Name or Form ID provided. -10 Form Resource not found. -11 No Command Name or Command ID provided. -12 -13 Command Resource not found. -14 Command Resource not loaded in memory. -15 Menu Property change failed.

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