VBUC 8.2 – Release Notes

UI Enhancements

- New filters make setting up a VBUC solution easier. When setting up the solution for the first time, some things might need tuning; among them are the references.
 - Searching for internal references. When the VBUC creates a migration solution, it might not be able to find hints that a reference must be set as internal. With VBUC 8.2, a search among all the Visual Basic project files (*.vpb) can be made to easily find the corresponding VB project for a given reference.

Resolved.	Name	Path		Friendly Name	Type	Version -	Guid
×	FM20.DLL	C:\Program Files (x86)Wicr	osoft Office\Root\VFS\Syst-	Microsoft Forms 2.0 Object Libi	External	2.0	[00452EE1-6
х	EOrdGeneral.vbp	C Locate Component					
* * > > > > >	MSOUTL.OLB MSWORD.OLB stdole2.tlb sysed132.dll ebcasp.dll scran.dll	Proje Locate Missi Component	GLB_LocalWetherlandsPs	GLB_LocalVetherlandsPayrof/Dev/NLHPPayrofftesLb.dl			(00062FFF-0) (00020905-0) (00020430-0) (EE5F7100-6) (4FCCD753-0) (42082830-E)
	ASP.TLB BacoSettings.dll ebc.dll e4slayer.dll	Select Reference					(D97A6DAD (D97A6DAD (325418E0- JETCR1150-
****	ECurrency.dli BacoRights.dli ER.dli CSInitCS.dli	Reference Information Internal Reference: OLB_StandardDEVECrot Guid=(833c2867-0789-45)	CLB_StandardDEV/EXPONENTIALECONCERNMENTS CONCERNMENTS CONCERNMENTS CONCERNMENTS COLB_StandardDEV/ESROEnermal (StEEStoCeneral Vop CLB_StandardDEV/ESROEnermal (StEEStoCeneral Vop CLB_StandardDEV/ESROEnermal (StEEStoCeneral Vop CLB_StandardDEV/ESROEnermal (StEEStoCeneral Vop CLB_StandardDEV/ESROEnermal (StEEStoCeneral Vop CLB_StandardDEV/ESROENERMENTS CLB_StandardDEV/ES				

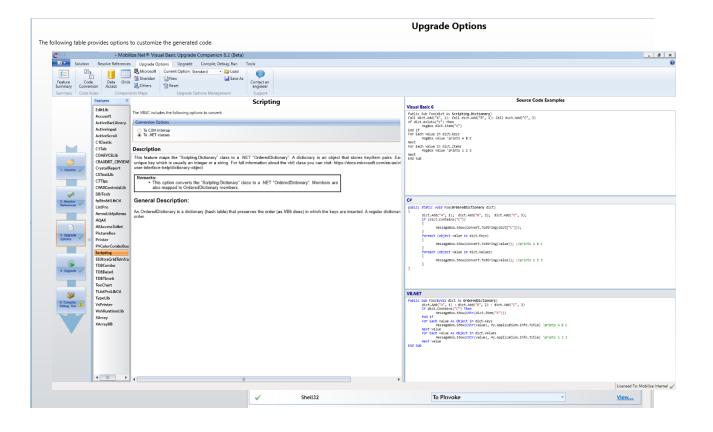
Searching for Unresolved CreateObjects. CreateObjects are ways to dynamically instantiate classes in VB6, without having explicit references to the binaries where those classes live. In the new release of the VBUC, a search in all these statements can be made, in order to group some of them to easily set the binary in multiple VB projects.

	Unresolved CreateObjects		
s statements using a variable instead of a literal string		Filter By: SourceCode * ElmvG	
Project	File	Source Code	
GLB_BuildingBlocks\SE0008_SE5331\CSEDIImportOrders.exe\CSEDIImport	GLB_BuildingBlocks\SE0008_SE5331\CSEDIImportOrders.e	Set oEnvTax = CreateObject("EInvGeneral.LinkItemHandler")	
GLB_Standard\DEV\EPrtPEvHdl.dll\EPrtPEvHdl.vbp	GLB_Standard\DEV\EPrtPEvHdl.dll\clsChangeSO.cls	Set oPrintSO = CreateObject("ElnvGeneral.PrintSOCreateInv")	
GLB_Standard\DEV\XMLGlobe.dll\XMLGlobe.vbp	GLB_Standard\DEV\XMLGlobe.dll\Order.cls	If m_QueryInvoice Is Nothing Then Set m_QueryInvoice = CreateObject("EInvGeneral.QueryInvoice"	
	Project. GLB_BuildingBlocksISE0008_SE5331ICSEDIImportOrders.exe\CSEDIImport GLB_StandardIDEV\EPrtPEvHdI.dll\EPrtPEvHdI.vbp	s statements using a variable instead of a literal string Project File GLB_BuildingBlocks/SE0008_SE5331/CSEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDIImportOrders.exei/SEDII	

• <u>Licensing process improved</u>. The VBUC 8.2 automatically downloads and installs a trial license for first-time users. Also, all licensing windows have been redesigned to better inform the user about the specific situation and present helpful messages.

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VBUC Vanal Base Upgrade Companies 82 Verders most-and tool for mingsteing from VBB to .NET	Something went wrong!		C VBUC Warning		
WHO is not exclude a cloud on injuring paint record a record WHO Clouds on Activities The second on your clouds on the science injury and the scien	The had found an issue with your opgrede solution. Press contact us the watching of the product of the solution of the hyperpression of the foregree of the solution of the hyperpression of hyperpression of the hyperpre	The installation was successful Fire Trial Without State States The tot encode of the Visual Resc Upgets Content on a State State State State States Content on a State State State Content to Provide State States Bet	The lowest dat you're currently using leas expresd. To signede your knowest plan part dat da' Christel U.C. Carearch Qu		

• <u>Upgrade Options documentation</u>: We've improved all the Upgrade Options documentation. Every Upgrade Option Configuration has a description and better code samples in Visual Basic 6, C# and VB.NET.



Code Quality Enhancements

The quality of the generated code has been significantly improved. This is due to bug fixes and newly-implemented features.

Next are just a couple of these enhancements.

• **GoSub to local function.** *GoSub...Return* statements branch to and return from a subroutine within a procedure. The VBUC now supports this VB6 feature via local functions in .NET.

VB6 Code

```
Public Sub Foo(p As Integer)
    Dim value As String
    If p = 1 Then
        GoSub Lb11
    Else
        GoSub Lb12
    End If
    MsgBox value
    Exit Sub
Lb11:
    value = "First value"
    Return
```

```
Lbl2:
```

```
value = "Second value"
    Return
End Sub
```

.NET Code

```
public void Foo(int p)
{
    string value = "";
    if (p == 1)
    {
        Lbl1();
    }
    else
    {
        Lbl2();
    }
    MessageBox.Show(value);
    return;
```

```
void Lbl1()
{
    value = "First value";
}
void Lbl2()
{
    value = "Second value";
}
```

• Improved criteria for declaring indexers. The default property of a class does not have to be called *Item* and take an *integer* as parameter to be transformed into an indexer in .NET. If it has the attribute shown below, it can potentially be migrated as an indexer.

VB6 Code

```
'The return parameter type does not have to be integer
[Hidden] Attribute Item.VB_UserMemId = 0
Property Get MyItem(anyName as string) as string
...
End Property
```

.NET Code

```
// The return parameter type does not have to be integer
public string this[string anyName]
{
   get { ... }
   set { ... }
}
```

Upgrade Helpers Improvements

The Upgrade Helpers have also been improved. Here is a summary of the changes made.

- **Existing Helpers Improvements.** The following Helpers classes have been enhanced: TrueDBGrid helper, Farpoint spread helper, Flexgrid helper, StringsHelper, Printer Helper, XArrayHelpers, Crystal Reports helper.
- New Helpers.
 - **IOHelper**, a utility class that provides functionality related to Input/Output operations.
 - o **<u>DBITech CtdEdit Helper</u>**, a third-party control.
 - o **<u>Component One C1Report Helper</u>**, a third-party control.
 - **<u>Crystal Report Helper</u>**, a third-party control.
- First version of .NET Core helpers. We've chosen a priority sub-set of helpers to have a .NET Core 3.1 version as a starting point to be .NET Core Compliant. The following list corresponds to the helpers that already have a working .NET Standard or .NET Core Version.

📾 Solution 'Helpers_NetCore3' (24 of 24 projects)
🔺 🚄 NetStandard2Helpers
IpgradeHelpers.DB.ADO.NetCore3.Tests
Image: UpgradeHelpers.DB.ADO.NetStandard
IpgradeHelpers.DB.DAO.NetCore3.Tests
Image: UpgradeHelpers.DB.DAO.NetStandard
a UpgradeHelpers.DB.Essentials.NetCore3.Tests
GC# UpgradeHelpers.DB.Essentials.NetStandard
IpgradeHelpers.Utils.NetCore3.Tests
aC# UpgradeHelpers.Utils.NetStandard
IpgradeHelpers.Utils.ReflectionHelper.NetCore3.Tests
aC# UpgradeHelpers.Utils.ReflectionHelper.NetStandard
Image: Second
acm UpgradeHelpers.DataGridViewFlex.NetCore3
IpgradeHelpers.DataGridViewFlex.NetCore3.Tests
acm UpgradeHelpers.DB.ADO.Controls.NetCore3
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Image: Control State
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IpgradeHelpers.Gui.ContainerHelper.NetCore3.Tests
Image: Comparison of the second se
IpgradeHelpers.Gui.Graphics.NetCore3.Tests
Image: Comparent Amplitude Amplit
IpgradeHelpers.Gui.NetCore3.Tests
acm UpgradeHelpers.SupportHelper.NetCore3
Image: Provide the state of

Other Improvements

- Improved comparison of colors with other colors, enums, and numeric values.
- ByRef to ByVal rules improvements.
- Remove unnecessary castings in basic operations.
- Performance improvements in the ASP migrator.
- Control arrays events and indexing improvements.
- New mappings for MQAX and MSMQ third party controls.
- New mappings for Ambient properties.
- Saving user-defined-events info during preprocess to improve code quality.