## PROBLEM STATEMENT

Determine the feasibility of importing the resource strings stored in a Microsoft .NET assembly from its `.resx` source file, using one or both of two starting points.
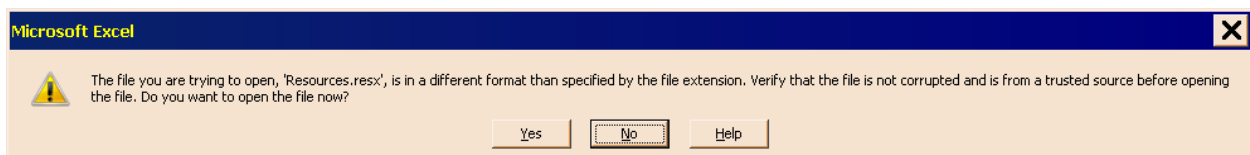
1. "`C:\Users\DAVE\Documents\Visual Studio 2013\Projects\WizardWrx_Libs\Wizardwrx\DLLServices2TestStand\Properties\Resources.resx`" is the name of a source file as it appears in the source code tree.

2. "`C:\Users\DAVE\Documents\Visual Studio 2013\Projects\WizardWrx_Libs\Wizardwrx\_NOTES\SharedUtl2_TestStand_Strings.XM`L" is a copy of the above file, which is assigned a new name that makes its format more evident.

Both scenarios assume that Microsoft Excel is already open, but whether or not an existing document happens also to be open is irrelevant.

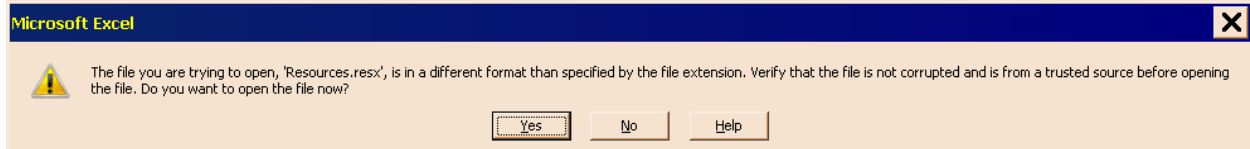## SCENARIO 1: LOAD THE .RESX FILE DIRECTLY INTO EXCEL
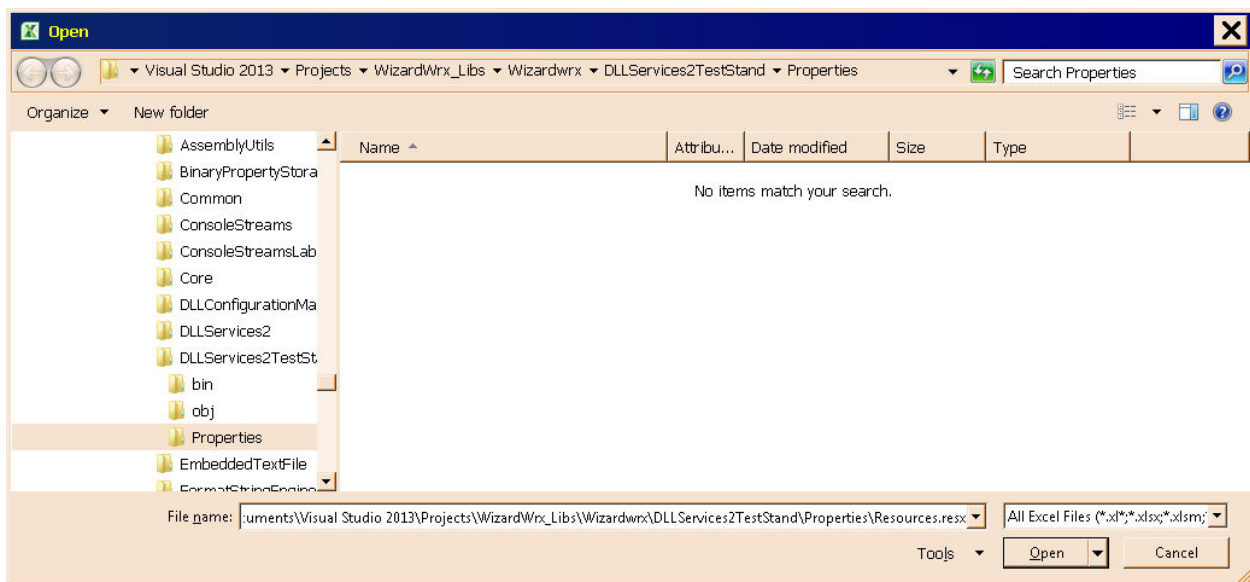
Figure 1 is the standard File Open dialog box, called forth by way of the [Ctrl]-[O] accelerator key, specifying `C:\Users\DAVE\Documents\Visual Studio 2013\Projects\WizardWrx_Libs\Wizardwrx\DLLServices2TestStand\Properties\Resources.resx` as the file to open.
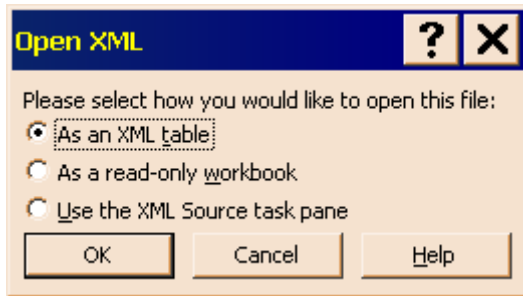

Figure 2 is the warning raised by Excel, which doesn't recognize the `.resx` extension.
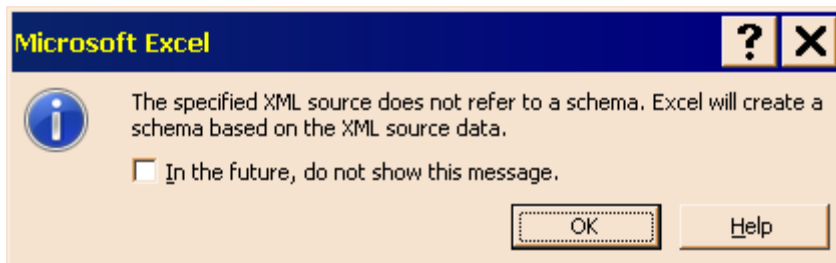
Microsoft Excel

⚠ The file you are trying to open, 'Resources.resx', is in a different format than specified by the file extension. Verify that the file is not corrupted and is from a trusted source before opening the file. Do you want to open the file now?

[Yes]   [No]   [Help]

Figure 3 is the warning box shown in **Figure 2**, corrected to grant permission for Excel to open the file.

Open XML

Please select how you would like to open this file:

⦿ As an XML table
○ As a read-only workbook
○ Use the XML Source task pane

[OK]   [Cancel]   [Help]

Figure 4 is the dialog box that appears when the dialog box shown in **Figure 3** is processed with its **Yes** button having the focus. This dialog box can be accepted as is.

Microsoft Excel

ⓘ The specified XML source does not refer to a schema. Excel will create a schema based on the XML source data.

☐ In the future, do not show this message.

[OK]   [Help]

Figure 5 is the dialog box that appears when the dialog box shown in **Figure 4** is processed. Selecting (activating) the check box is entirely up to you; I prefer to be warned that Excel is on its own to generate a schema from the data in the XML file.

id	namespace	name	ns1:IsDataSet	maxOccurs	name2	name3	type	minOccurs	ns1:Ordinal	name4	use	type5	ref	ns1:Ordinal6	name7
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata	value	xsd:string	0							
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					name	required	xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					type		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					mimetype		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata							xml:space			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	assembly					alias		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	assembly					name		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data	value	xsd:string	0	1						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data	comment	xsd:string	0	2						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					name	required	xsd:string		1	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					type		xsd:string		3	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					mimetype		xsd:string		4	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data							xml:space			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	resheader	value	xsd:string	0	1						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	resheader					name	required	xsd:string			
															resmimety
															version
															reader
															writer

Figure 6 shows the worksheet that Excel creates when the dialog box shown in **Figure 5** is processed.

| name8	ns2:space	value9	comment
BOJ_MSG_TPL	preserve	{0}, version {1} BOJ{4}{2} ({3} UTC){4}	Since it isn't allowed to use ConsoleAppAids2, this a
CHOP_TEST_REPORT	preserve	Chop Test {0}: Input String Length = {1}, Value = {2}{5} Output Stri	The ChopChop test method uses this as its output form
CMDARG_ENUMERATE_EXCEPTION_GUIDS	preserve	EnumExcpetionGUIDs	Select this one-off task to process a list of excepti
CMDARG_GENERATE_EXCEPTION_MESSAGE_FORMAT_TABLE	preserve	GenerateExceptionMessageFormatTable	Select this one-off task to generate the configuratio
CMDARG_REDIRECTION_DETECTION	preserve	RedirectionDetection	Use this command line argument to engage the redirect
CMDARG_REDIRECTION_STATE_TESTS	preserve	RedirectionStateTests	Use this command line argument to engage the redirect
COLOR_MESSAGE_TEXT	preserve	{2}This text should appear as {0} letters on a {1} background.{2}	This message is used to report the conrfigured colors
DEFAULT_EXCEPTION_COLORS_MESSAGE	preserve	The default colors of a {0} exception, as seen through{4}{1}, are {2} text on a	This message describes the colors of a type of except
DEFAULT_EXCEPTION_COLORS_METHOD_1	preserve	the GetDefaultError-MessageColors method	This message describes one of two methods that querie
DEFAULT_EXCEPTION_COLORS_METHOD_2	preserve	the GetDefaultMessageColors method	This message describes one of two methods that querie
DEFAULT_EXCEPTION_COLORS_PROPERTIES	preserve	individdual properties	
EOJ_MSG_TPL	preserve	{0} EOJ{2}Running time = {1}{2}Press ENTER to exit the program.	This is the last message written on the console.
ERRMSG_LIMIT_CONDITON	preserve	Value must belong to the LimitConditon enumeration.	
ERRMSG_LIMIT_VALUE	preserve	Value must belong to the LimitValue enumeration.	
ERRMSG_NEW_CLASS_TESTS_20140914	preserve	ABORTING: Method NewClassTests_20140914.{0} failed, returning a status code of {1}	
ERRMSG_RUNTIME	preserve	A run-time exception was caught and reported.	Exit code 1 is reserved for reporting runtime errors.
ERRMSG_SUCCESS	preserve	Processing completed without errors.	This message is never displayed; it holds the spot in
EXCEPTION_IS_FATAL	preserve	fatal	
EXCEPTION_IS_RECOVERABLE	preserve	recoverable	
MESSAGE_EMPTY_STRING	preserve	[Empty String]	
MESSAGE_NULL_STRING	preserve	[Null String]	
MSG_APP_DOMAIN_ENTRY_ASM_LOCATION	preserve	Absolute Location of Entry Assembly = {0}	The DisplayDefaultAppDomainProperties method formats
MSG_APP_DOMAIN_ENTRY_ASM_NAME	preserve	{1} Name of Entry Assembly = {0}	The DisplayDefaultAppDomainProperties method formats
MSG_APP_DOMAIN_SUBSYSTEM	preserve	{3} Entry Assembly Subsystem = {0} ({1}): {2}{3}	The DisplayDefaultAppDomainProperties method formats
MSG_ASBSOLUTE_ASSEMBLYNAME	preserve	{1}Fully qualified program name, per StateManager GetAssemblyFQFN method = {0}	Since this message immediately follows the banner, it
MSG_ASSEMBLY_SUBSYSTEM	preserve	{2}Executable Subsystem = {0}: {1}{2}	
MSG_BASE_DIRECTORY_NAME	preserve	BaseDirectory = {0}	The DisplayDefaultAppDomainProperties method formats
MSG_CURRENT_MACHINE_TIME	preserve	Current Machine Time = {0} ({1} UTC)	The DisplayProcessProperties uses this string to labe
MSG_DFLT_APP_IDENTITY_NULL	preserve	ApplicationIdentity = NULL	The DisplayDefaultAppDomainProperties method formats

Figure 7 is the worksheet shown in **Figure 6** with columns A through Q, and rows 2 through 19 hidden, since there isn't anything of practical use in those rows and columns. Even if another workbook is open, the XML document opens as a stand-alone document, in the same way that a CSV or text file does. It can be easily moved into any open workbook.
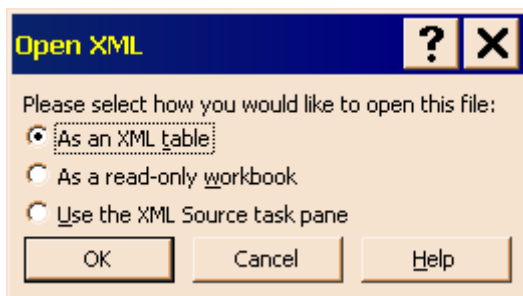
SCENARIO 2: LOAD THE RENAMED RESOURCE FILE INTO EXCEL
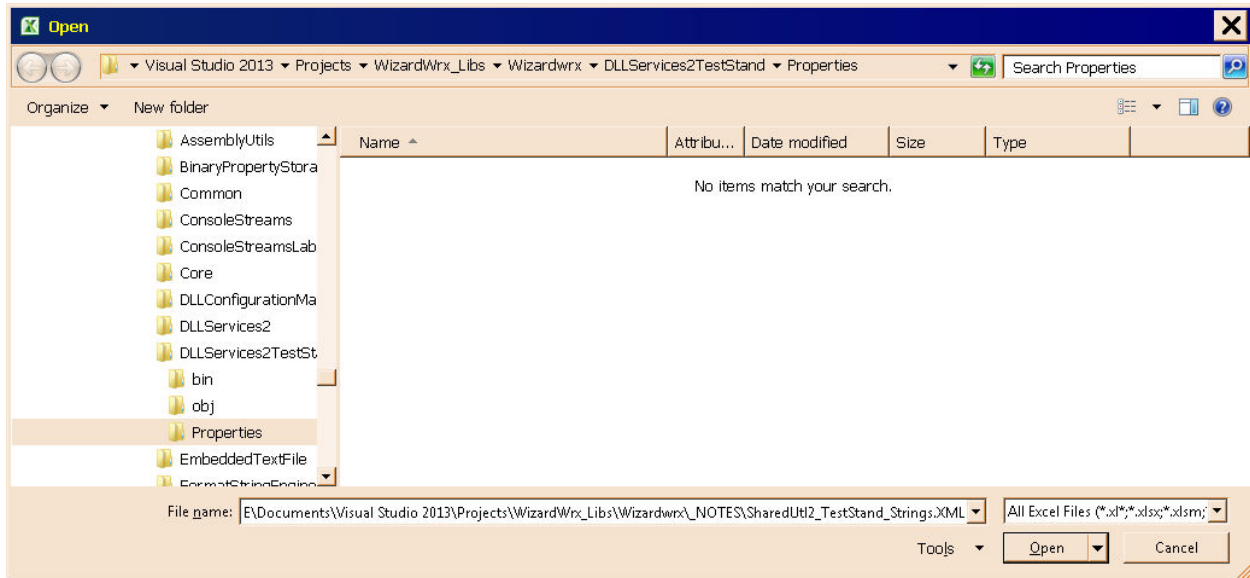
Figure 8 is the standard File Open dialog box, specifying that
`C:\Users\DAVE\Documents\Visual Studio 2013\Projects\WizardWrx_Libs\Wizardwrx\_NOTES\SharedUtl2_TestStand_Strings.XML` is to be opened.

Figure 9 is the same **Open XML** dialog box first shown in **Figure 4**. Since the file extension is `xml`, the dialog box shown in **Figure 2** is redundant, and is suppressed.

id	namespace	name	ns1:IsDataSet	maxOccurs	name2	name3	type	minOccurs	ns1:Ordinal	name4	use	type5	ref	ns1:Ordinal6	name7
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata	value	xsd:string	0							
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					name	required	xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					type		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata					mimetype		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	metadata							xml:space			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	assembly					alias		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	assembly					name		xsd:string			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data	value	xsd:string	0	1						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data	comment	xsd:string	0	2						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					name	required	xsd:string		1	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					type		xsd:string		3	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data					mimetype		xsd:string		4	
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	data							xml:space			
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	resheader	value	xsd:string	0	1						
root	http://www.w3.org/XML/1998/namespace	root	TRUE	unbounded	resheader					name	required	xsd:string			
															resmimetyp
															version
															reader
															writer

Figure 10 shows the worksheet created from the XML document, which is identical in all respects to the worksheet shown in **Figure 6**, since it was created from a copy of the same file that is identical in every respect except that its extension is `.xml`.

CONCLUSION

If you don't mind answering the prompt shown in **Figure 2**, *including the adjustment* shown in **Figure 3**, you can import a `.resx` file directly into excel. Once columns A though Q and the rows in which column R is blank, you have a neat table that displays the names, values, and comments of the string resources defined therein. Once they are in a workbook, there is no end of additional processing that can be performed on the names and values.