

PowerPoint® Connector Guide



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CUSTOMER RESOURCE OPTIONS

Supporting users throughout their entire journey of learning model-based systems engineering (MBSE) is central to Vitech's mission. For users looking for additional resources outside of this document, please refer to the links below. Alternatively, all links may be found at <u>www.vitechcorp.com/resources</u>.



Webinars

Webinar archive with over 40 hours of premium industry and tool-specific content.



Help Files

Searchable online access to

Vitech software help files.

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Technical Papers

Library of technical and white

papers for download, authored

by Vitech systems engineers.

Screencasts

Short videos to guide users

through installation and usage of

Vitech software.

<u>A Primer for Model-Based</u> <u>Systems Engineering</u>

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Our team has also created resources libraries customized for your experience level:

All Resources	<u>Advanced</u>
<u>Beginner</u>	<u>IT / Sys Admin</u>
Intermediate	<u>Student</u>



PREFACE

This PowerPoint Connector Guide provides information on how to install and use a PowerPoint extension developed to connect the GENESYS[™] database to Microsoft[®] PowerPoint[®]. The connector is a .NET application that extends the PowerPoint application provided in Microsoft Office[®] 2010 and 2013. Figure 1 displays the extended blank PowerPoint presentation.



Figure 1 Sample PowerPoint Connector

This guide describes the process to import and add the extension in PowerPoint, how to interface directly with the GENESYS repository and individual projects in the repository, how to use the features in the PowerPoint extension to export data out of the GENESYS data repository, and how to use the dashboard features coded into the PowerPoint extension.

This guide is intended to augment the Model-Based Systems Engineering (MBSE) with GENESYS training course and the reference material provided with GENESYS. The ultimate goal of this guide is to expose the user to the PowerPoint extension and thereby extend the use and application of GENESYS for both system design and development and project management associated with a system development project.

The following additional resources are available for use with this guide:

- For descriptions of GENESYS including database classes and folders, different views, diagram notation, and the mechanics of entering data into GENESYS, the reader is referred to the GENESYS Help>Documentation feature in the toolset.
- For the definition of schema terms, the reader is referred to the GENESYS schema, which contains descriptions for each schema entity. The schema is accessed in the GENESYS Software.
- For application of GENESYS to system and architecture design, the reader is referred to the GENESYS System Definition Guide (SDG) and Architecture Definition Guide (ADG) supplied with the GENESYS software installation.



GENESYS POWERPOINT CONNECTOR INSTALLATION AND MANAGEMENT

1.1 Installing the PowerPoint Connector

The GENESYS PowerPoint Connector is installed via a standard, familiar Windows setup program. Please note that separate installers are available for either 64-bit or 32-bit Windows and PowerPoint operating environments. The connector runs in Microsoft PowerPoint 2010 and later versions.

There are separate files for PowerPoint Connector depending on the architecture of the computer in which the software is being installed. The files are named:

- "GENESYS50PowerPointConnector_x86.exe" (for 32-bit Windows operating systems) and
- "GENESYS50PowerPointConnector_x64.exe" (for 64-bit Windows operating systems).

Double-click the installer .exe file to begin the installation. Click "Next."



Figure 2 PowerPoint Connector Installer, Step 1

Review and accept the licensing agreement terms, and click "Next."

Please read the following license agreement carefully.	
IMPORTANT READ CAREFULLY: This End-User is a legal agreement between either an individual or "you") and Vitech Corporation ("Vitech") for the Vitech below, which includes computer software and may printed materials, and "online" or electronic doc "PRODUCT"). YOU AGREE THAT THIS AGREEMENT WRITTEN NEGOTIATED AGREEMENT SIGNED BY Y otherwise using the PRODUCT, you agree to be boun you do not agree to the terms of this EULA, do not inst	License Agreement ("EULA") a single entity ("Licensee" or h software product identified y include associated media, umentation (collectively, the IS ENFORCEABLE LIKE ANY /OU. By installing, copying, or d by the terms of this EULA. If tall or use the PRODUCT.
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Figure 3 PowerPoint Connector Installer, Step 2



Click "Install" to begin the installation.

BENESYS 5.0 PowerPoint Connector - InstallShield Wizard	
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	

Figure 4 PowerPoint Connector Installer, Step 3

The setup program will run and install the PowerPoint connector. When the process completes, simply click "Finish" to complete the installation. The connector will now be available for use in any PowerPoint presentation.



Figure 5 PowerPoint Connector Installer, Step 4



1.2 Managing the PowerPoint Connector

Add-ins to PowerPoint are sometimes disabled by customers. Note that in order for our connector to work, it may be required to adjust the settings by enabling the ability of PowerPoint to use add-ins.

Once installed, the GENESYS PowerPoint connector can be managed via standard Microsoft Office addin tools. Note that the steps below apply to Microsoft PowerPoint 2013 installations, and may vary slightly in different versions of PowerPoint.

The extension to GENESYS in PowerPoint is accessed via the "GENESYS" tab in an open presentation, as shown in the figure below. To manage the connector, first click the "FILE" tab.



Figure 6 PowerPoint GENESYS and FILE Tabs

Once in the "FILE" tab, click the "Options" item from the menu on the left.



Figure 7 PowerPoint FILE tab, Options Menu Item

In the Options dialog that opens, select the "Add-Ins" option from the menu on the left.



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General	General ontions for working with PowerPoint
Proofing	
Save	User Interface options
Language	Show Mini Toolbar on selection
Advanced	Inable Live Preview
Customize Ribbon	ScreenTip style: Show feature descriptions in ScreenTips
Quick Access Toolbar	Personalize your copy of Microsoft Office
Add-Ins	User name: Ron Kratzke
Trust Center	Initials: RAK
	Always use these values regardless of sign in to Office.
	Office Background: No Background
	Office Iheme: Dark Gray 💌
	Start up options
	Choose the extensions you want PowerPoint to open by default:
	I tell me if Microsoft PowerPoint isn't the default program for viewing and editing presentation
	☑ Show the Start screen when this application starts

Figure 8 PowerPoint Options Dialog, Add-Ins Menu Item

In the Add-Ins dialog that opens, select "COM Add-ins" from the "Manage:" combo box at the bottom, then click the "Go..." button.

	View and manage Microsoft Office Add-	ins.	
Proofing			
Save	Add-ins		
Language	Name 🛎	Location	Туре
Advanced	Active Application Add-ins		
	GENESYS 5.0 PowerPoint Connector	file:///sys.Connector.PowerPoint.vsto/vstolocal	COM Add-in
Customize Ribbon	Team Foundation Add-in	C:\dation Server\14.0\x64\TFSOfficeAdd-in.dll	COM Add-in
Quick Access Toolbar	Inactive Application Add-ins		
Add-Ins	OneNote Linked Notes Add-In	C:\es\Microsoft Office\Office15\ONBttnPPT.dll	COM Add-in
indu ins	OneNote Notes about PowerPoint Presentations	C:\\Microsoft Office\Office15\ONPPTAddin.dll	COM Add-in
Trust Center	Send to Bluetooth	C:\MM\Bluetooth Software\btsendto office.dll	COM Add-in
	Disabled Application Add-ins No Disabled Application Add-ins		
	Add-in: GENESYS 5.0 PowerPoint Conne	ector	
	Publisher: <none></none>		
	Compatibility: No compatibility information and	vailable	
	Location: file:///C:\Program Files (x86)\Vi	tech\GENESYS 5 PowerPoint Connector\	
	Description: GENESUS 5.0 PowerPoint Comme	erromussojostolocal	
	Description. GENESTS 3.0 POWEPOINt Conne	ccor	

Figure 9 PowerPoint Add-Ins Dialog, Manage COM Add-Ins Option

In the COM Add-Ins dialog that opens, select the GENESYS PowerPoint Connector item. Any of three actions can be performed:

- 1) The GENESYS Connector can be unchecked. Clicking "OK" will then disable the connector from running in workbooks.
- 2) If the GENESYS Connector is unchecked, it can be checked. Clicking "OK" will then enable the connector to run in workbooks.
- 3) The GENESYS Connector can be selected, and the "Remove" button can be clicked. The connector will be uninstalled.



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COM Add-Ins			? ×
Add-Ins availab	le:) <u>PowerPoint Connector</u> nked Notes Add-In otes about PowerPoint Presentations etooth Jation Add-in		OK Cancel <u>A</u> dd <u>R</u> emove
Location: Load Behavior:	file:///C:\Program Files (x86)\Vitech\GENESYS 5 PowerPoint Connecto Load at Startup	r\Vitech.Genesys.	Connector

Figure 10 COM Add-Ins Dialog, Managing the GENESYS Connector

CONNECTING POWERPOINT WITH GENESYS

1.3 Connecting to GENESYS from PowerPoint

With PowerPoint opened on the desktop, navigate to a blank presentation, or open a blank presentation. Select the GENESYS tab on the ribbon. Then 'connect' PowerPoint by logging in to GENESYS using the icon on the left-hand side of the ribbon.



Figure 11 GENESYS Login in PowerPoint Using Ribbon Button

Clicking on the GENESYS Login button will launch and bring up the GENESYS login screen.

P → 5 · C ⊡ = FILE HOME INSERT DESIGN	I TRANSITIONS ANIMATIONS	Presentation1 - PowerPoint SLIDE SHOW REVIEW	VIEW	STORYBOARDING	GENESYS
Login Logout Repository / Project	Select by Folder Folder Folde	Diagram Insert to A new slide → T Show all options ith content only) 3 1 2 1 1	Insert Diagram	112	
	GENESYS Login Collaborative Edition Username Administrator Password Repository Local (localhost) Authentication Method: GENESYS	. Cancel		dd title	2

Figure 12 PowerPoint with GENESYS Login



Log in to GENESYS using the appropriate Username and Password. This connects PowerPoint with the Repository. Once logged into GENESYS, the controls on the GENESYS ribbon will be "active" and no longer be grayed out.

1.4 The GENESYS Ribbon in PowerPoint

There are several sections on the GENESYS ribbon in PowerPoint which are used to control access to the GENESYS database.

👔 🔒 🍤 🕐 📮		Presentation1 - PowerPoint		
FILE HOME INSERT	DESIGN TRANSITIONS	ANIMATIONS SLIDE SHOW	REVIEW VIEW	GENESYS
Cogin Logout Repository: Local Project SAMPLE:	Ge Select by Folder Folder Category Include child folders	Diagram Activity Insert to A new slide Show all options	Tinsert Diagram	

Figure 13 GENESYS Ribbon in PowerPoint

The Repository / Project section controls access to a particular system design project in the GENESYS repository. Within this section the "Project" selection provides a drop-down menu where the user can select the particular project within the database repository from which diagrams will be extracted. This is the project from which all diagrams will be associated in PowerPoint.

The "Diagrams" section of the ribbon allows the user to select diagrams from the model in GENESYS to be displayed on PowerPoint slides. Each control in this section is described below:

- **Select by**: Provides a drop-down selection where the user can pick selections either by Folder or Package.
- **Folder**: Provides a drop-down selection of classes (if selecting by Folder) or Package Folders that have been created in the project repository (if selecting by Package).
- **Include child folders**: Provides the option of iterating through all the sub-folders for diagram creation.
- **Diagram**: Provides a drop-down selection of diagram types to choose from for extract and placement in the PowerPoint presentation.
- **Insert**: Provides the option of inserting a new slide or creating the diagram on the current slide.

When using the selections in the ribbon, the connector will iterate through all of the entities in the folder selected and develop the diagram selected for each entity.

DEVELOPING INDIVIDUAL GRAPHICS FOR INSERTION INTO A PRESENTATION

1.5 Using Advanced "Show all options" to Control Individual Diagrams

The user can select individual diagrams for individual slides in a PowerPoint presentation by expanding the options available in the ribbon. To do this, click or select the "Show all options" label on the ribbon, this will open a dialog box to right hand side of the PowerPoint screen. This dialog box is used to either query (or extract) information from the database as well as import or update information into the database.

The dialog box has four main sections. The top box provides for selection of the Class and Folder from which to create the diagram.

All ite Category Change Request Package Component	ms Clear
Category Change Request Package Component	and and and and
Change Request Package Component 	*
Component	
Concern	=
- Defined I em	
Document	
Domain.Set	
Event Event	
Function	
	*
ntity (optional)	
Diagram	
Diagram Activity	
Diagram Activity JDD Jace	* III
Diagram Activity 3DD Jass ConstraintBDD	* II
Diagram Activity 3DD Jass ConstraintBDD EFFBD	▲ E
Diagram Activity JDD Jass ConstraintBDD FFBD FFBD FFBD	• 11
Diagram Activity JDD Jass ConstraintBDD EFFBD FFBD Terp Terp Terp Terp Terp Terp Terp Terp	4 III >
Diagram Activity JDD Jass ConstraintBDD SFFBD FFBD TepD TepD TepD TepD TepD TepD TepD Tep	4 III +
Nagram Activity DD Jass ConstraintBDD FFRD FRD TowintemalBlock Herarchy	* = •
Nagram Activity JDD Jass ConstraintBDD FFRD TewIntemalBlock Herarchy Slide title	• • •
Diagram Activity JDD Jass ConstraintBDD FFRD TowIntemalBlock Herarchy Slide title Autottle the slide Title:	III





When the class or folder is selected, the second window is populated with the entities of that class. Pick a single entity by clicking on the entity. Or, select multiple Entities by holding down the <Ctrl> key.

The Diagram box allows the user to select the diagrams to be provided for the entity or entities selected in the Entity box. To select multiple diagrams use the <Ctrl> key. If a diagram is selected that is not provided or not appropriate for the entity, an error message is generated. Once the error message is read, close the error message and change the selection as needed.

The bottom section of the dialog box provides controls for titling and inserting slides. The "Slide title" selection has two alternatives: "Auto-title the slide" and "Use a custom title". If "Use a custom title" is selected, insert the desired title in the text box. Finally, in the "Insert to" selection create the graphic diagram either as "A new slide" or on the current slide. If more than one entity and/or more than one diagram has been selected then, there will be multiple slides created for each diagram.

Once all of the selections have been made, create the slides for the PowerPoint presentation by clicking on the "Insert" radio button at the bottom of the dialog box.





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