

# Enterprise Architect 13

Advanced, enterprise-wide, visual modeling platform

New, elegant, functionally rich user interface  
A refreshing way to work with Enterprise Architect



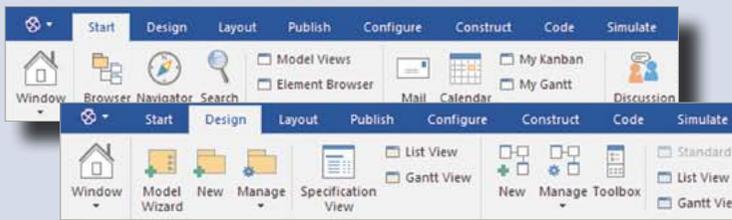
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*Read on...*

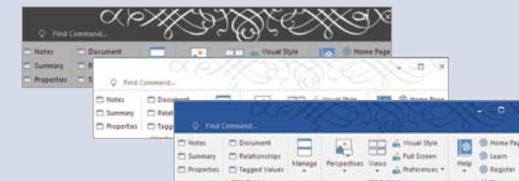
# Ribbon Interface



Access the tools you need quickly and easily with helpful categories  
A completely new way to work with Enterprise Architect 13.

In a functionally rich platform such as Enterprise Architect 13, the Ribbon interface provides immediate access to all the platform's functionality with a visual consistency and a clean look and feel.

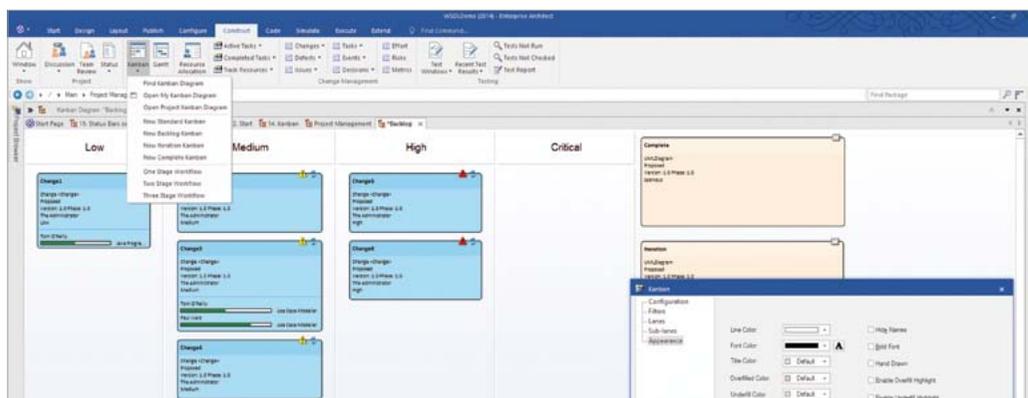
- Advanced logical layout, search options, and tooltips support quick orientation
- Contextually based Ribbons hide unrelated functionality for a uncluttered workspace
- Hide, minimize or customize Ribbons and Bars, keyboard shortcuts assist accessibility



## Office 2016 Visual Style

Applied for new installs, giving Enterprise Architect 13 a new look and feel

- Themed command search
- Includes options for changing base and highlight colors used ribbons.
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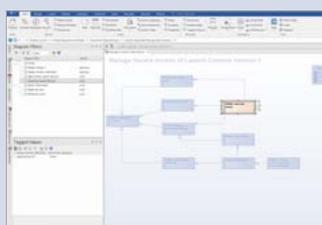
## Project Management using Kanban

New helpers, dialogs, model patterns and more for Kanbans. Improved user interface for diagram definition with Kanban configuration moved from swimlanes to own dialog

- Populate Kanban diagrams automatically
- Sublane management makes it easier to use a consistent set of sublanes enabling single modification for sublane groups
- New Kanban drawing style added
- Dialog settings available on categorized dialogue pages
- Kanban properties dialog available from swimlane background with double click

## Diagram Filtering

- Support for Element Tagged Values
- Specify Name and Value of element tags to enable matching specified filters
- Grouping of Diagram filters and easy toggling of child filters



## SysML Simulation with OpenModelica

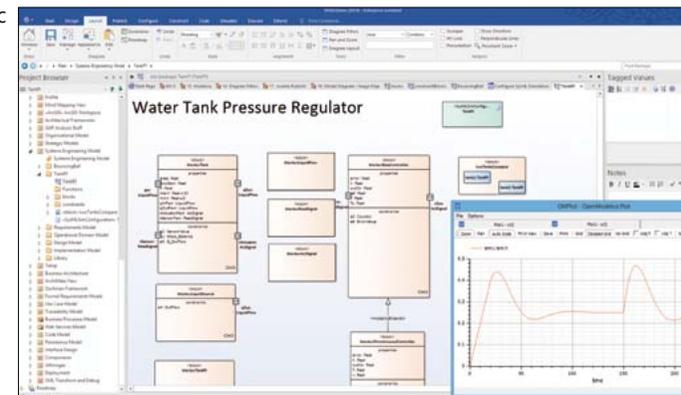
Simulate and graph SysML parametric models via the OpenModelica integration

Equation based modeling of complex interacting engineered systems within the automotive, aerospace, robotics and power plant industries. e.g., systems containing mechanical, electrical, electronic, hydraulic, thermal, control, electric power or process-oriented sub-components.

Supports analysis of changing designs and usage scenarios.

OpenModelica speeds up development by evaluating and improving variants earlier in the design process.

Use Enterprise Architect 13 SysML models to simulate the entire product behavior, in the whole operating range.



- Simulate and graph SysML parametric models
- Describe and annotate existing SysML models
- Generate OpenModelica code from your SysML blocks and constraint blocks and map to reusable code

## New MDG for AML

Archetype Modeling Language  
Version 1.0 - Beta 1

A clear, consistent means of designing clinical models using UML

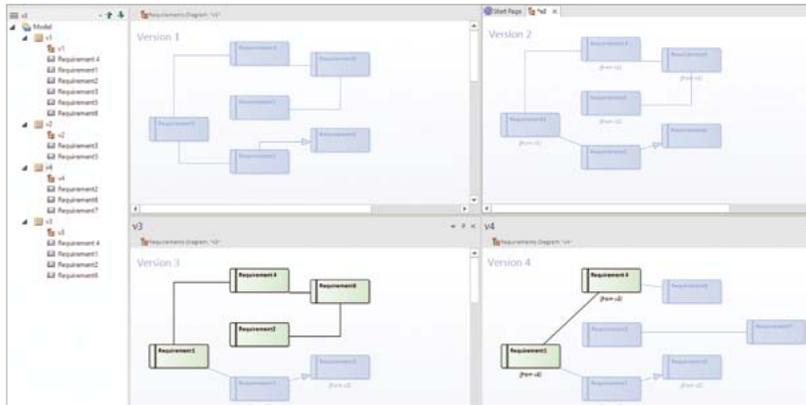
Implements the profile defined in the OMG Archetype Modeling Language Beta 1

- Implements the profile defined in the OMG AML Beta 1 Specification
- Allows creation of Clinical Information Modeling Initiative (CIMI) artifacts for a shared

open library of detailed clinical models

- Concepts that can be modeled using archetypes include weight measurement, blood pressure, microbiology results, discharge referral, prescription, or diagnosis.

# Time Aware Models



Keep multiple versions of the one model so you can see how a model/diagram changes over time

Enterprise Architect 13 allows you to easily compare As-Is and To-Be models, being able to analyze a diagram to see exactly what changes occur at every iteration. Simply select the structure or

package you would like to observe and use the Context Menu to 'Clone Structure as New Version'. Now you can make changes to subsequent iterations without altering the underlying structure

of the As-Is diagram. This Cloning Approach provides substantial benefits and allows you to take a snapshot in time of model development.

## Improved Linux & Mac Compatibility

First class support, performance and behavior of Enterprise Architect 13 on Linux and Mac OS:

- Easy to use
- Effortless database configuration and connectivity
- Enjoy the same experience regardless of the choice of Operating System (Linux, Mac, Windows)
- Simplified install steps



## New Searches and Charts

Stunning charts and instant predefined searches

Tasks:

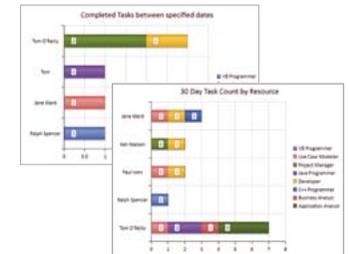
- Search for Active Tasks – Tasks that are being worked on right now.
- Tasks ending Today.
- Tasks that are to start Today

Resources:

- Track resource and role activity over the past 30 days.
- New searches to see brief and full search reports on Tasks.

Change Management:

- Everything you need to manage change elements inside Enterprise Architect 13.
- Show the defects window, search for verified defects, new defects and unresolved defects.



## Direct Publishing to Joomla

- Version 3.x for web content

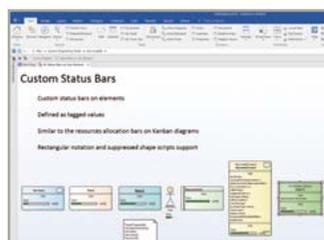
Publish and synchronize your models directly within Joomla

- Publish a Package directly to the Joomla database via ODBC
- Writes the pages and menu to allow model navigation
- Heat and Image Maps allow clickable diagrams

## Custom Progress Bars

Enterprise Architect 13 now allows you to place custom progress bars on any element that supports rectangular notation and suppressed shape scripts.

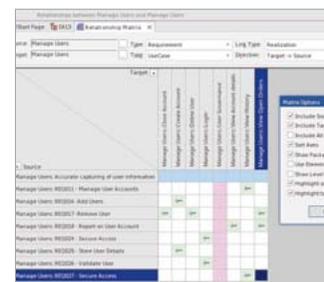
Defined using the Tagged Values, users can create and name their own compartments, show the value of the status bar and other custom text next to the bar graphic, supply a min and max value for the bar (default 0 - 100).



## Relationship Matrix

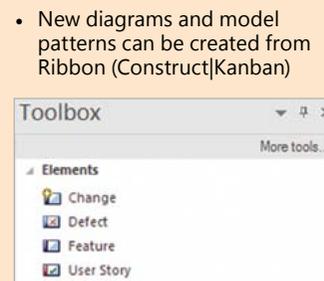
Highlight elements without relationships

- Displays all Row cells in pale BLUE
- Displays all Column cells in pale PINK



## New Kanban Profile

- Element Types include Change, Defect, Feature and User Story
- Diagram Types include Basic, Backlog, Iteration and Complete
- Model Patterns, create a one two or three stage process model available from Ribbon (Construct|Kanban)



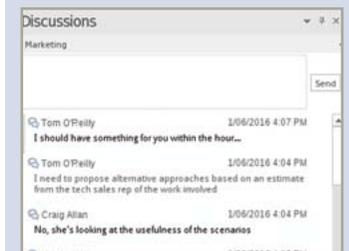
## Improved NIEM

- Augmentation Point generation improved
- Referenced properties now generated from Association-Type elements to Property-Holder types

## Model Chat

Model based instant messaging

- Configurable for teams, send / receive task specific messages via the repository
- Rapid team communication
- Hyperlink to model elements
- Increased team awareness of current information
- Includes notification if Model Chat window is closed



## Major Enhancements

### Extended BPSim

Xpath expression support added.

- Specify expressions without extensions in generated BPSim
- Toggle between Xpath and Java expressions in Simulation properties
- Multiple expressions supported on a single task

### Model Diagram Image Maps

Create and maintain images and image maps for all the diagrams in the model

- HTML style image mapped with element GUIDS for easy use by automation clients
- New automation functions added to access these maps
- Single and multiple image maps can be saved to specified directory

### Enhanced SysML Features

- SysML Parametric diagram rendering
- Paste As dialogue behavior for SysML blocks
- Property Binding
- SysML 1.4 Element Group note now displays number of attached elements

### Linked Document viewer

In line with the diagram view, the Document view allows you to open, edit and reload Linked Documents and set the default zoom.

Two new searches are available for:

- Rapid location of linked documents or just the ones that have been modified recently
- Rapid switching between linked documents by single clicking elements in the project browser, diagrams or search results

### Cloud Services Improved

- Maximum length of SQL update statements increased when connecting to cloud server supporting Internet Protocol Version 6 (IPv6)
- Performance of large requests i.e Saving linked documents

### Improved BPMN

BPMN Pool and Lane improvements:

Dropping a Lane onto a Pool:

- Header area allows converting the pool or adding the lane to the pool
- Main area automatically adds lane to pool

Dropping the Pool onto a Lane

- Converting the Lane or adding a new Pool
- BPEL context menu restored to Project Browser

### Enhanced Code Engineering

**C# 6 enhanced support:**

- Property initialiser and member functions using expression round tripped
- Parser updated to support conditional access operators and string interpolation
- C# state machine generation style now controlled by C# specific option

**Added:**

- Java 8, C++11, PHP 5.6, and ADA 2012 support
- ADA code synchronization enhanced
- Object oriented bitfields now roundtripped

**Updated:**

- C parser, VB.Net parser, XSD generation, WSDL import, Code Editor C++ parsing
- PHP Syntax highlighting on dark theme improved
- Code Template Editor functionality improved

### Connector Links

Does not need to be between elements:

- Can be from an element to a connector or connector to connector
- Requirements that link to a connector could indicate why the connector is present

### Enhanced Documentation and Reporting

- HTML Report of relationships improved with new fields available in reports
- Project Browser
- Document Generation - New fields available

### XMI

- Ecore generation links to correct URI for string types
- XMI round trip updated to map NIEM profile to values expected by other tools

XMI import:

- Now preserves bindings between ConnectionpointReference and Entrypoint and Exitpoint
- Import from other tools updated for attribute multiplicity search in additional location

### API

- New Properties and Methods Broadcast Changes:
- EA\_OnPreNewElement now provides FQStereotype using info parameter
- EA\_GetRibbonCategory – New broadcast allowing an add-in to place its menu in a specific category of the new ribbon interface

### Hybrid Scripting

- Hybrid scripting is provided to extend the capabilities of the standard scripting environment to high level languages such as Java and C#
- Hybrid scripting provides a speed advantage over conventional scripting, and also allows authors to leverage existing skills in popular programming languages

### Back End Repository Updates

Opening of repositories now informs the user of the following:

- Unsupported driver\Incorrect password\Unknown user\Lack of permissions

Reference Data Import Improvements:

- Import dialogue
- Updating of RTF and HTML templates into cloud repositories

### Improved Diagramming

- Default zoom level no longer saved with current user zoom level
- Dropped elements on a Diagram reference will now allow moving or copying the element to the target diagrams
- Element type icons can now optionally be suppressed
- Display of priority on Requirement based elements now optional

### New Project Browser Menu

New drop down menu for the Project Browser "Model Overview":

Access:

- Open Project, New Model from Pattern
- New Package, Diagram and Element
- Find in Project Browser
- Code and Documentation Generation

### Dynamic Document

Generate a document view of model elements on-the-fly, generated through customized fragment like templates, drawing out detailed element content into easily consumable pages

- Dynamic documents focus on reporting granular element information, when the element is selected
- Switch between several custom templates to highlight pertinent details according to specific audience roles
- Documents produced on the fly, meaning any edits made to model elements are reflected in an updated document within seconds
- Queue up a number of elements to show a dynamic report or reading set that can be browsed

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