ENTERPRISE DYNAMICS® 9 WHAT'S NEW

Enterprise Dynamics® version 9 offers you new state-of-the-art simulation features to assist you in becoming more successful.

NEW FEATURES

- New graphical user interface
- Help system
- Packages
- Graphs
- Visualization
- CAD Support
- CityGML
- SAP
- ArcGIS
- Human Resources
- many more...

INTRODUCTION

INCONTROL is proud to release Enterprise Dynamics® 9.

With the development of Enterprise Dynamics® 9 we have focused on:

- User friendliness
- Control and flexibility for application developers
- Integration with other software

It doesn't matter if you are a simulation modeler or developer, Enterprise Dynamics® 9 is developed with the user in mind.
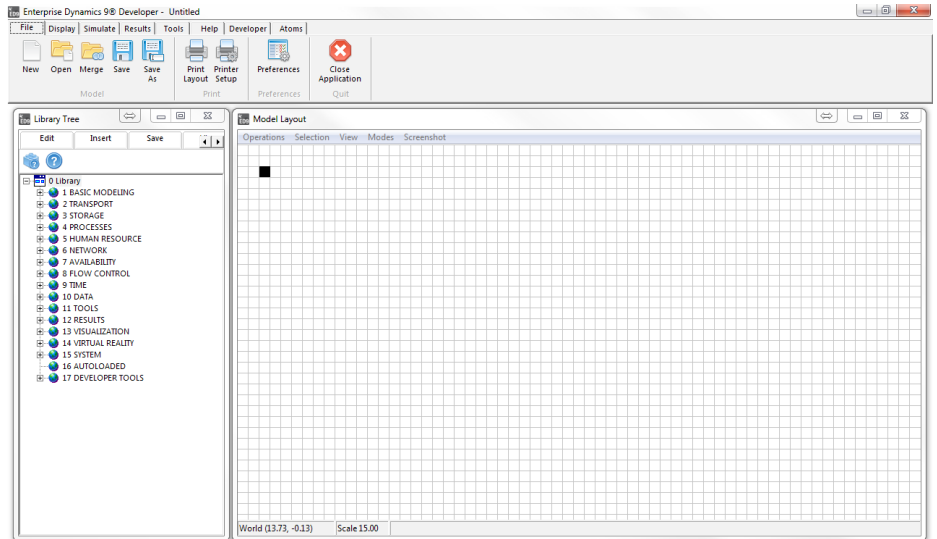
With every feature we have added or changed we have investigated how you would like to use this feature in your model or application.

A complete list of all new features and enhancements can be found in the help.
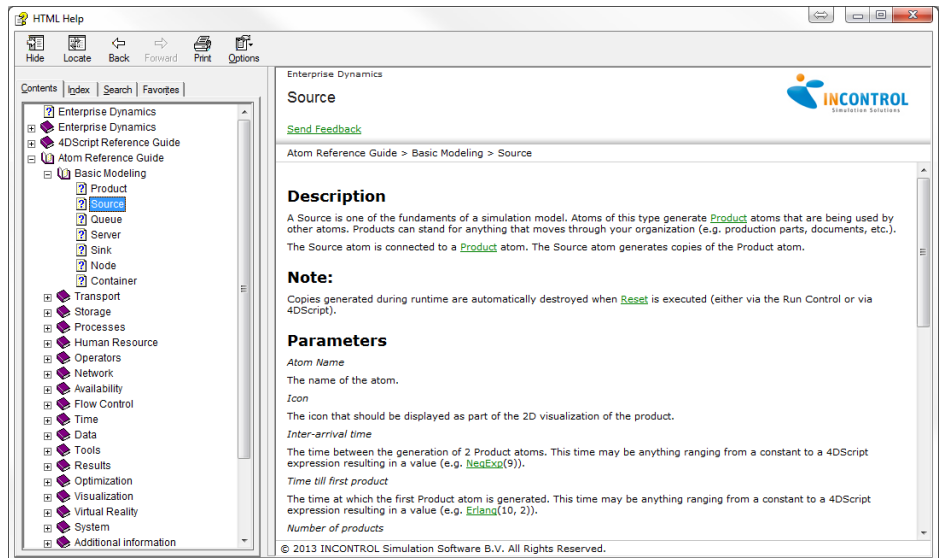
NEW GRAPHICAL USER INTERFACE

With the new release of Enterprise Dynamics® the first thing you will notice is the new user–interface. The user–interface has been updated to modern standards making it much easier for you, the user, to find your way within all the features Enterprise Dynamics® has to offer.

New Enterprise Dynamics® 9 user–interface

NEW HELP SYSTEM

The help system has been upgraded to Html–help. This makes it compliant with modern operating systems and makes it easier to add information to the help system.

New HTML Help menu

PACKAGES

It has now become easier than before to expand your Enterprise Dynamics® with additional simulation objects and features.

With Enterprise Dynamics® 9 we introduce the package concept. Packages can contain simulation objects, media files, or additional programs to expand Enterprise Dynamics® with specific simulation objects or new functionalities.

Depending on your license packages are available for you to download from the INCONTROL website. Most of these packages will be free−of−charge.

On the release date the following packages are available:
- Advanced Robots
- ASRS
- TransferCar
- OPC Client
- Developer Tools
- DLL
- SAP (on request)

Another advantage of packages is that it is much easier to transfer your own models to a different computer. The Developer Tools package assists you in structuring all the atoms and media files you use in your model(s). This structure will make it very easy to collect all files required and ensures an easy installation on a second computer.

For consultants and specialists Enterprise Dynamics® delivers a platform in which you can express your know−how in offering packages to a world−wide user base.
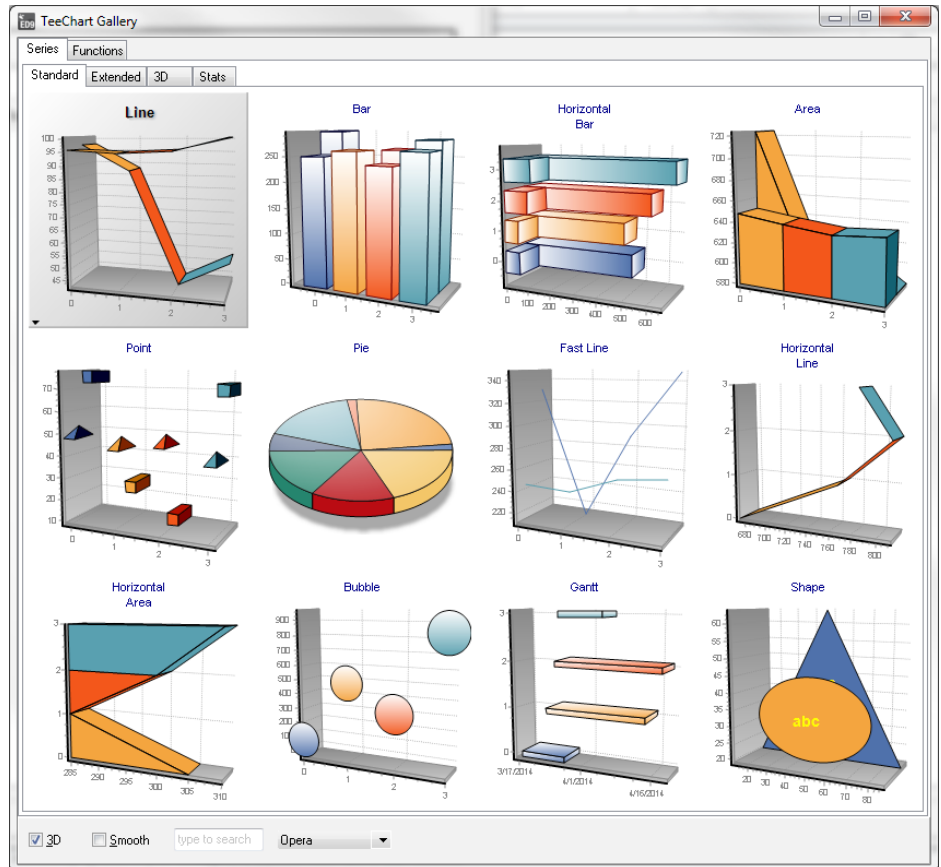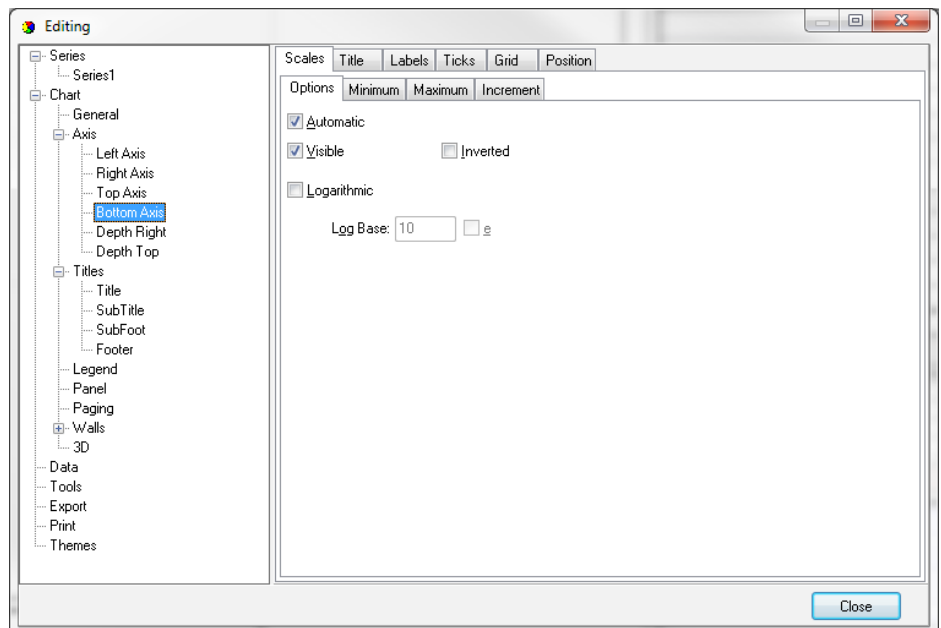

Manage your own packages

GRAPHS

Enterprise Dynamics® 9 comes with a completely updated graph system. All used graphs are updated and packed with new features.

For developers we have added even more options.

You have many types of graphs you can choose from (2D and 3D graphs) and you have access to virtually every property these graph components have to offer. We have added numerous new 4DScript functions allowing you to have complete control on how you want to visualize your data.

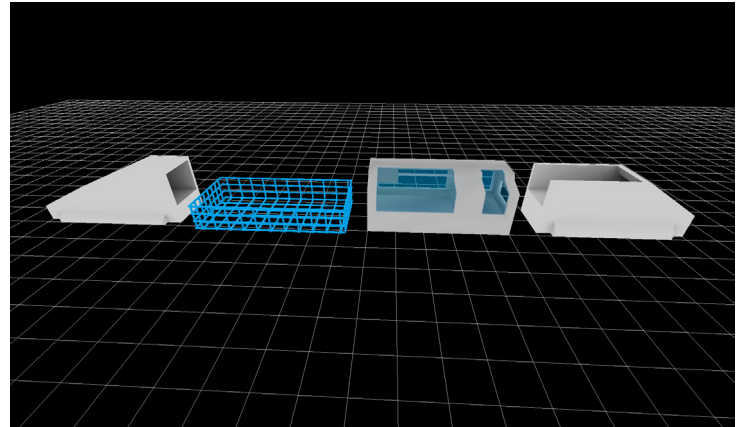Overview of available graph types
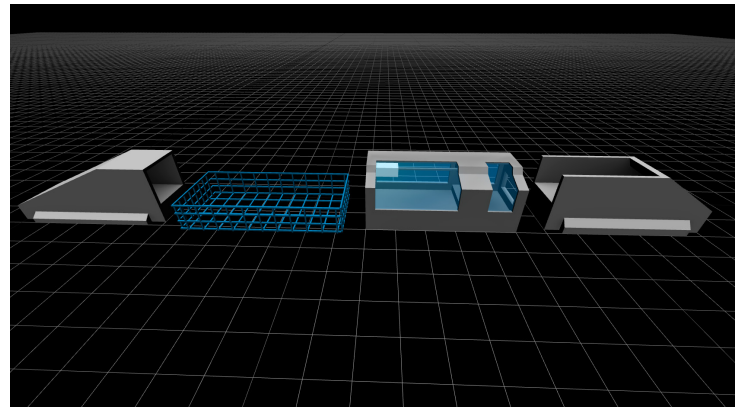

Graph editing window

VISUALIZATION

Visualization is an important part of any modern simulation model (2D & 3D). For Enterprise Dynamics® 9 we have added many improvements to the visualization environment:

- Improved lighting
- 3D grid scaling
- The ability to add weather to your visualization (e.g. fog, rain)
- Supporting newer versions of OpenGL
- Improved 4DScript functions to reflect visualization updates
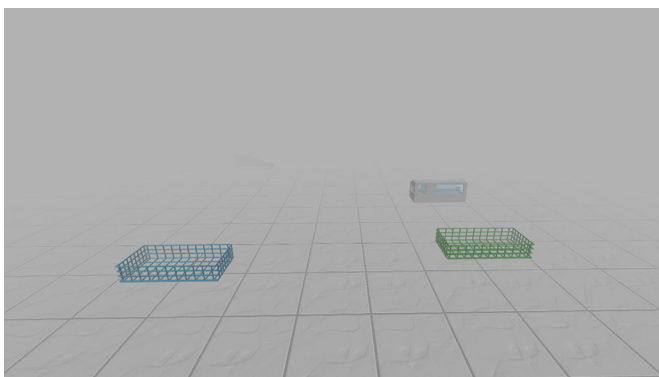- Performance improvements by using capabilities of modern video cards

This has resulted in a clearer visualization of your model. As an example view the difference of the same model visualized in Enterprise Dynamics® 8.2.5 and Enterprise Dynamics® 9.
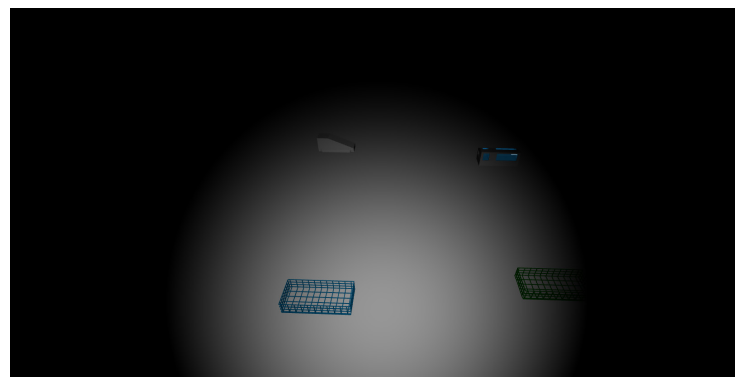

Visualization Enterprise Dynamics® 8.2.5

Visualization Enterprise Dynamics® 9

Visualize fog in Enterprise Dynamics® 9

Visualize a spotlight in Enterprise Dynamics® 9

CAD SUPPORT

Enterprise Dynamics® comes with an upgraded support for CAD. The CAD functionalities of
Enterprise Dynamics® 9 are completely redeveloped allowing Enterprise Dynamics® use more CAD formats and versions:

AutoCAD
• DWG
• DXF
• DWT
• DWF
• DXT

Hewlett−Packard HPGL
• HPGL
• HPGL2

Scalable Vector Graphics
• SVG

Complex Formats
• Computer Graphics Metafile

It is even possible to select which layers in the CAD drawing should be visible or not. This information is also saved into your model so you don't have to make this selection every time you open the model.

CITYGML

Enterprise Dynamics® supports the CityGML standard. This standard is used to visualize parts of a city or business area. Originated in the GIS world it is becoming the standard for the visualization of landscapes and infrastructures.
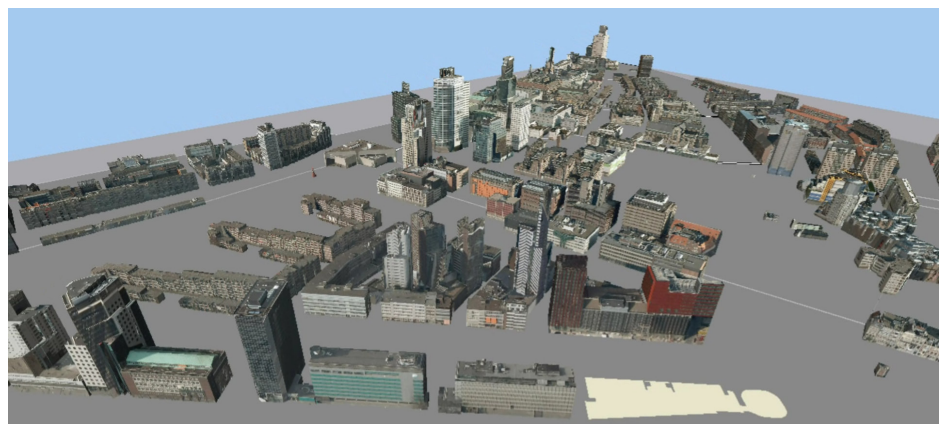
SAP

The ability to import and export data to external databases and systems is one of the strong points of
Enterprise Dynamics®.
Enterprise Dynamics® 9 adds a new link: SAP.

By adding a number of Gui Builder components to communicate with SAP and corresponding new 4DScript functions it is possible to read and write directly with your SAP system.

ARCGIS

ESRI ArcGIS is one of the world leaders in map technology.
Enterprise Dynamics® 9 comes with the ability to view and use these maps within the Enterprise Dynamics® environment. In order to do so Enterprise Dynamics® 9 introduces 3 new Gui Builder components:
• MapControl – to visualize the map
• TocControl – to visualize a table of contents of the map
• ToolbarControl – to visualize an ArcGIS toolbar

CityGML

NEW HUMAN RESOURCE OBJECT

A completely new set of atoms for the modeling and simulation of human resources specifically targeted at manufacturing environments. The Human Resources replaces the existing Operators.

With the Human Resources it is very easy to configure the teams you want to model and give them the required skill sets (on individual basis if you want). Next to the already existing resource and task selection rules we have added new enhanced strategies:
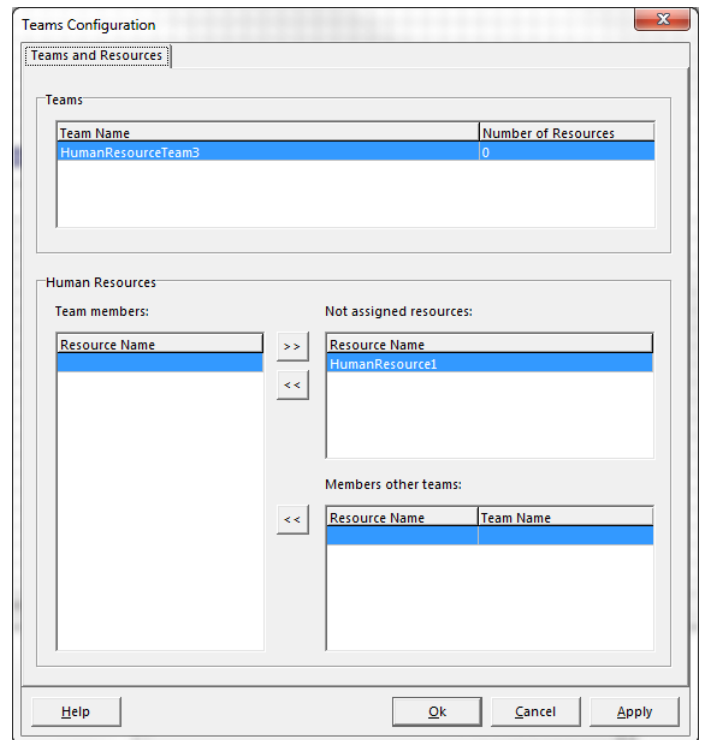
- Task sorting
- Resource selection rule (e.g. nearest in network)
- New task selection rule (e.g. from biggest queue)
- Task interruption for high priority tasks

The Human Resources also offer an easy way of configuring the schedules. A human resource can now be part of multiple schedules and/or multiple mtbf–mttrs.
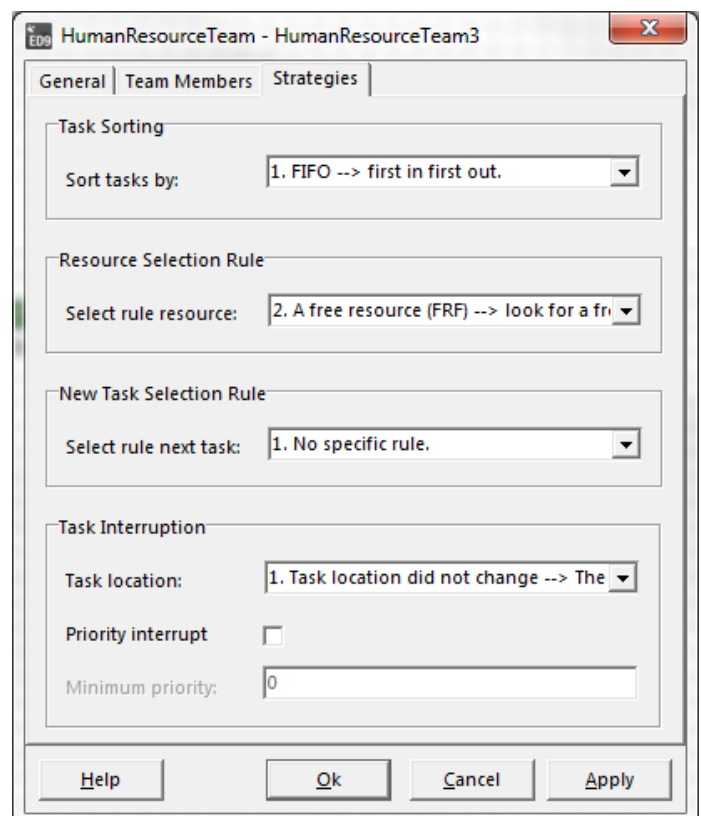
OTHER ATOMS

We have added many features (and fixed many others) to the existing atom libraries:

- Cut–off times for various atoms (e.g. Assembler, Transporter)
- Unload queue discipline for the Elevator
- Parking position for transporting atoms (e.g. cranes, robots)
- Load adjustment for the Advanced Transporter
- New Movie Director atom
- New Background atom

Human resource team configuration

Human resource task strategies