

e-Con for Dynamics AX

User Manual

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Chapter 1 e-Con AX Overview

1.1 Purpose of e-Con AX Module

The purpose of the e-Con AX is:

- e-Con repository for e-Con models and configurations
- to insert, modify or delete AX database records based on the e-Con configurations
- connect the e-Con models to the business process

In fact, e-Con AX is the Back End of e-Con.

1.2 Tables – Common Forms

This section describes all the tables and forms that are used in e-Con AX.

e-Con			🚽 🚿 🥔 🏅 🕴 View 🔸	Tools 🕨 🗙
My Favorites 🔹 <	Common Forms	Reports		^
🍂 Getting Started	e-Con Studio e-Con Projects Generic Model	Generic Model Configurations		
	Offline configurations Decision Matrices	Setup		^
Places e-Con Area	Periodic ^	e-Con Setup Option Query		
	Application Server Coffline Generate Datasource Import XML Documents	Import settings Modeler XML Labels Model Table Link Context Transition Repository Metadata groups Repository Element		
		Smart set		
Solution Center				

1.2.1 e-Con Studio

This will startup e-Con studio with the environment settings used for the Dynamics AX company.

Note: Maintaining models, structure and rules, is done in e-Con Studio not in e-Con AX.

1.2.2 e-Con Project

e-Con Projects can be used to manage your models. Models and sub models can be tight together in a project.

Note: Creating and maintaining projects can be done both in e-Con AX or in e-Con Studio.

Convenient tools are available in the projects like:

• Open e-Con studio for a project to maintain the models within the project.



🕎 e-Con Projects (1 - ceu)							
<u>File E</u> dit <u>T</u> ools <u>C</u> ommand <u>H</u> elp							
🗋 🔒 🗙 🖶 🗟 🕼 🖅 🦷	6 🍞 1	🖫 🕪 📢) 🕰 凹 🕪 <	0		
e-Con projects		/1.0.0			_		
E Con projects			. 1				e-Co <u>n</u> Studio
BIKE/1	Over	rview Model ver	sion				Model version 🕨
FRONTWHEEL/1		Generic Model	Version		Interface Model		Import
IFRONTWHEEL/1				Bike			
		BIKE	1	Bike Axapta			Export
		FRONTWHEEL	1	Frontwheel			
		IFRONTWHEEL	1	Interface Frontwheel	I		
		1					
		1					
						USD	ceu bus 🗏 🗊 🎢

No.

Code of the Generic Model.

Version

The version of the Generic Model added to the project.

Description

Description of the Generic Model added to the project.

Interface Model

Indicator if the model added to the project is an interface model. Checked when the particular model is an interface model.



1.2.2.1	Fields (of the	Model	Version	Tab

Overview Model	version		
Identification		Model	
No.	BIKE	Status:	Certified
Version Code:	1	Table:	InventTable 💌
Description:	Bike Axapta	Starting Date:	
e-Con Label:	BIKE	Ending Date:	

No.

Code of the Generic Model selected within the project.

Version Code

The version of the Generic Model selected within the project.

Description

Description of the Generic Model selected within the project.

e-Con label

Label of the version of the Generic Model selected within the project.

Status

Status of the Generic Model selected within the project.

Table

Table Name of the main entity of the Generic Model selected within the project.

Starting Date

Starting date of the version of Generic Model selected within the project.

Ending Date

Ending date of the version of of the Generic Model selected within the project.



1.2.2.2 e-Con Studio Button

Start the e-Con Studio for of this Project. The e-Con studio will be activated and the project will be opened in the studio.

1.2.2.3 Model Version Button Included Models Select and opens the model view for the selected model.

e-Con Studio

Start the e-Con Studio for the selected model. The e-Con studio will be activated and the model will be opened in the studio.

1.2.2.4 Other buttons Import To import an project

Save as To export an project

1.2.3 Generic Models

e-Con configuration models are created and maintained in the e-Con studio. E-Con configuration models set up in the e-Con studio are stored in Dynamics AX and can be seen here. Some functions and set up can take place here.

	s 7 T	\$ 🏂 🛣 🍋 📢		M 🖑 🔼 🔇	2		
iew General							
No.	Interface	Description	Active Version	Generation Date	Generation Time		
BIKE	No	Bike Axapta	1	24-11-2008	17:09:15		
CHAIR	No	Items	1.0.0	24-11-2008	17:32:48		
CUSTOMERS	No	Structure	1.0.0	14-11-2008	15:26:32		
EDOOR35	No	eDoor	1	24-11-2008	14:59:35		
RONTWHEEL	No	Frontwheel	1	24-11-2008	16:10:45		
GEOMETRY	No	Geometry	1	17-11-2008	14:48:54		
ICHAIR	No	Items	1.0.0		00:00:00		
FRONTWHEEL	No	Interface Frontwheel		24-11-2008	15:29:41		
IGEOMETRY	No	IGeometry	1	17-11-2008	14:47:21		
IGEOMETRYCONTEXT	No	IGeometryContext	1	17-9-2007	16:28:45		
iew							Configure
	ption e-Co	n Label Status	Table	Root Line No	Starting Date I	Ending Date	Configured Mod
/ersion Code Descrip	xapta BIKE	Certified	InventTa	able 1			e-Con Studio
							eCon <u>3</u> .5 Model
							Import
							Export



1.2.3.1 Fields of the Overview Tab

No.

Code of the Generic Model.

Interface

Mark of a interface model. Interface models are needed when sub models are used. A sub model needs an interface to be able to interface with another model.

Description

Description of the Generic Model.

Active Version

The active version of the Generic Model. A generic model can have different versions. New versions can be created in the e-Con studio. The last version build is the active version. The active version will be used when starting e-Con from e.g. a sales order.

Generation Date

Last date of building the e-Con model.

Generation Time

Last time of building the e-Con model.

1.2.3.2 Fields of the General Tab

Overview General	
Include to Object: <u>No</u> 💌	On hold: No 💌
Online Recovery: Yes 💌	Detail level: All
Online Synchronizing: Manual	Limit:

Include to Object

When "Include to Object" is check-marked, the configured object of this generic model will be stored as a separate XML file object. This child object can be reconfigured independently of its parent object. For example, if you use the BIKE demo model to configure a Bike e-Con will generate one XML object file for both generic models (BIKE



and FRONTWHEEL), unless the "Include to Object" field is check-marked in the FRONTWHEEL model. In that case, two separate XML object files are created.

Online Recovery

To activate the "Online Recovery" for this particular model. With "Online Recovery" the user has the possibility to recover erroneous configuration. If the processing of a configuration fails the next time the user starts the e-Con model, the user is asked if he want to reopen the erroneous configuration. After reopening the configuration a reprocess can take place.

Online Synchronizing

The "online synchronizing" field has to do with the reconfiguration of an already configured object. When you reconfigure an object it will be synchronized with the active version of the base model. There are three ways of synchronizing:

- Manual: When the flag 'Synchronize' of the configuration is check marked the configuration will be synchronized.
- On Confirmation: You will be asked if you want to synchronize, no matter if the flag 'synchronize' is check marked.
- Automatically: The object is always synchronized, no matter if the flag 'synchronize' is check marked.

Microsof	ft Business Solutions-Navision
?	The version of this object differs from the current version of the model. Do you want to upgrade this object to the new version?
	Yes No



For example:

On 23/03/01, a customer orders a series of 100 customer-specific. With the help of e-Con, a customer-specific Item with its customer-specific Bill of Material and Routing will be generated. On the 12th of April the same year, the customer again orders a series of 100 bicycles which are identical to the series ordered a few weeks before, except for the color. This time the customer wants a special color. So a search for the item which had been generated a few weeks ago is done, and based on this item, a new item will be configured. If the "Online Synchronizing" field is check-marked, the already configured object will be merged with the basis model (the configuration tool model "BIKENM.xml") before the user can reconfigure the object.

When the model is merged, all the data from the object that was already configured is imported to the newest version of "BIKENM.xml" and saved. Now all changes made to the base model are available in the reconfigured object.

Onhold

Offline configurations of the model will get the status on hold when received and not be processed. A separate function is available to process the on hold configurations.

Detail level

A setting to determine the level of detail to be shown in the Axpata infolog after processing this model into Axapta.

There are four possibilities:

- All: All the info is shown in the infolog;
- Errors and warnings: Only errors and warnings are shown in the infolog;
- Errors only: Only errors are shown in the infolog;
- None: Nothing is shown in the infolog.

Limit

The maximum number of messages to be shown in the infolog.

1.2.3.3 Overview on version

Version Code	Description	e-Con Label	Status	Table	Root Line No.	Starting Date	Ending Date	
1	Bike Axapta	BIKE	Certified	InventTable	1			

Version Code Code of the version..

Description Description of the version.



e-Con Label

This label is the name of the model. The XML document of the model will have a name according to this label.

Status

Status of the active version. There are four different statuses:

- *New:* Whenever a new version is created, the default status is "New".
- *Under Development:* During maintenance of a model in the e-Con studio the status will be change to 'Under Development'.
- *Certified:* Only when the status is "Certified" the model can be used in the business process. This means when the Key Value of the Root Entity is selected in the Sales Order, the Front End is started, but only if the status is "Certified".
- *Closed:* This status is selected when a version has to be blocked for use. Use this status for obsolete models.

Table

The main Entity to which this e-Con model is linked. The rest of the model is linked/refer to this Entity. For example, when a new generic item is created, with Bom version, Routing and Bills of Materials (BOM), the Root Entity will be the InventTable, Item. Once configuration is complete, a new item is inserted in the Item table.

Root Line No.

Just a sequence number to make the entity unique.

Starting Date

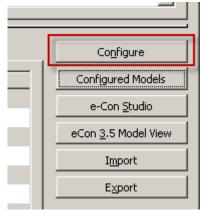
The starting date of the period in which the version is valid.

Ending Date

The ending date of the period in which the version is valid. A version can only be used for configuration while it is valid.



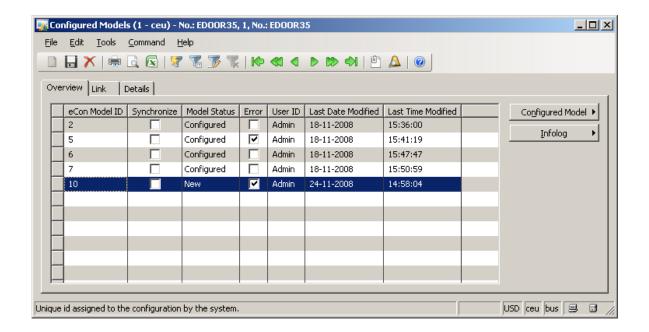
1.2.3.4 Configure Button (only available when the version is "certified")



Start the Front End for the active version of this Generic Model. Use this function to view the layout of the Model in the Front End, or to test the model. Once the Front End is saved or "Cancel" clicked, e-Con returns to the Generic Model Card. However, if the Front End is started from the sales order line, the system returns to the sales order line.

1.2.3.5 Configured Models Button

	Co <u>n</u> figure
-	Configured Models
ч	e-Con <u>S</u> tudio
	eCon <u>3</u> .5 Model View
	Import
	Export
- 11	





1.2.3.6 Fields of the Overview Tab

e-Con Model ID

e-Con will automatically create this value. It is a serial number.

Synchronize

If set to Yes before Configure the model will be synchronized during reconfiguration.

Model Status

The status of the model: new, configured, etc.

Error

This field contains an error code if there's a problem with a configuration.

User ID

User ID of the user who configured the object.

Last Date Modified

The last processing date of the configured object.

Last Time Modified

The last processing time of the configured object.

1.2.3.7 Fields of the Link Tab

🗾 Co	nfigured Mod	lels (1 - ceu) - No.: EDOOR35, 1, No.	EDOOR35							
Eile	<u>Eile Edit Tools Command H</u> elp									
🗋 🔜 🗡 🖶 🗟 🐨 🐨 🐨 🐺 🅪 🐟 4 🖉 🐷 🐨 🙆 🖉										
Ove	Overview Link Details									
	Table Name	Record ID			Go to record					
	InventTa	Item number: edoor, edoor								
	SalesLine	Sales order: 12, edoor								
Unique	Unique name of table.									

Table Name



The table linked to the configured model. This table is populated by this XML configuration

Record Id

The link to the actual record of the table

Button "Go to record'.

Clicking this button will jump to the table and record selected

1.2.3.8 Fields of the Details Tab

🐺 Configured Models (1	- ceu) - No.: EDOOR35, 1, No.: EDOOR35	
<u> Eile E</u> dit <u>T</u> ools <u>C</u> or	mmand <u>H</u> elp	
🗋 🖬 🗙 🖶 🗟	I S I S I S I S I S I S I S I S I S I S	0
Overview Link Deta	ails	
Operations	Statistics	
Records inserted:	Records processe 0	
Records updated:	Processing time [s	
Records replaced:	Blocks per second 0.00	
Records deleted:	Records buffered 0	
Records kept: 0	Records failed: 0	
Records skipped: 0		
Number of records.		ceu bus 🗐 🗍 🏒

Information about number of records inserted, updated, delete etc. are displayed here. Performance indicators like processing time is here available as well.

1.2.3.9 Configured Model Buttons

Process
Configure
Key values
Included objects
Report



Process

An erroneous configuration can be reprocessed. Only enabled when the error flag is set for the particular configuration.

Configure

This activates the "Configure" option for the selected model.

Configure (1)	
Configure Update current configu Copy to new configurat	
	Cancel

Key values

Shows the Key Value(s) of the configured object.

Included Object

Displays the included objects of this configured object. Inlcuded objects does only exist when sub models are used in the configuration model and when the flag 'include to objects' is set for the particular sub model. If so, a separate configured object (xml file) is created for the sub model part of the configuration.

Report

To print an e-Con report (both html or MS Word) from the selected configurations. Shows a list of reports available for the model. After selecting the report the document is printed.

1.2.3.10 Key Values



1	Key value	s (1 -	ceu) - eCon M	Model ID: 7,	edoor, eCo	on Model	ID: 7		_	. D × D
Ei	le <u>E</u> dit	<u>T</u> ools	⊆ommand	Help						
	187	< 🖷	ı 🗟 💽 !	7 🏹 🍞	🖫 🍋			4 🖻) 🚨 🤇	0
Г	eCon Ma	idel ID	Table	Field name	Key Value					
	7		InventTable	ItemId	edoor					
		_								- 1
	1									
Uniq	ue id assig	ned to I	the configurati			USD ceu	bus 🗐	8 //		

e-Con Model ID

E-Con will automatically create this value. It is a serial number.

Table

The table name where the configured object is stored.

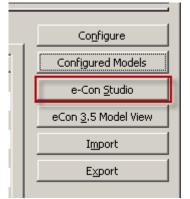
Field Name

Field name of the key field that is used.

Key Value

Key Value of the configured object.

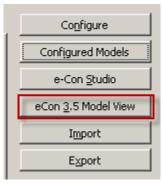
1.2.3.11 e-Con Studio Button



Start the e-Con Studio for the active version of this Generic Model. The e-Con studio will be activated and the model will be opened.



1.2.3.12 e-Con 3.5 Model View Button



Opens the e-Con designer from AX. Nowadays this designer is only read-only and only allows the user to view the model in the old e-Con 3.5 format. From of version e-Con 4.0 the set up and maintenance of the e-Con models takes place in the e-Con studio instead of the AX Designer.



Configure
Configured Models
e-Con <u>S</u> tudio
eCon <u>3</u> .5 Model View
Import
Export

With this function an export e-Con model file can be imported in the MS Dynamics AX application. Importing a model from here will also import the domains and entities used in the model.

🌉 Import da	ata (1)	
File name:	C:\Documents and Settings\Administrator\	
Duplicates:	Replace	•
Validation:	No	•
	<u>K</u> Ca	ancel

File Name

The file name of the e-Con export model file can be selected here.

Duplicates



Set up how to handle with duplicates found during import. Typical e-Con labels and e-Con queries could already exist.

Validation

Set up how the AX record validation should be performed at the import of the e-Con model.

1.2.3.14	Export
Co <u>n</u> fi	igure
Configure	d Models
e-Con	<u>S</u> tudio
eCon <u>3</u> .5 M	Model View
Imp	ort
Exp	ort

With this function an export file for the selected model version can be made to be imported in another MS Dynamics AX company or database. Exporting a model from here will also export the domains and entities used in the model.

Save As		? ×
Savejn:	🕒 My Documents 💽 🕓 📂 🖽 -	
My Recent Documents Oesktop	È SnagIt È SQL Server Management Studio È Visual Studio 2005	
My Documents		
My Computer		
My Network Places		<u>à</u> ave ancel

1.2.4 Decision Matrices

A Decision Matrix is used to set up interdependencies between member options. You can find Decision Matrices in the e-Con menu, by going to the "Decision Matrices".



It is possible to determine more then one decision matrix and every decision matrix can have one or more versions.

1.2.4.1 Overview Tab

遲 Decision Matrices (1 - ceu) - Decision Matrix: BIKE, 1, Decision Matrix: BIKE												
Eile	<u>E</u> dit <u>T</u> ool	ls 🤉	ommand	<u>H</u> elp								
			3 🐼 🤋	7 7 7	5 T.	k> 📢	<		4 🖻	0		
Ove	rview Decis	ion M	atrix Versi	on Lines								1
	Decision Ma	atrix	Description			Active Ve	rsion					
	BIKE		Decision Ma	atrix Bike v	ersion 1	1						
	Chair		Chair decisi	ion matrix		1						
	eDoor		eDoor decis	sion matrix		1						
1												
Ver	rsions											
	Version	Des	cription		Sta	rting Date	Endir	ig Date			Decision Matrix	Link
	1 Decision Matrix Bike version 1											
											Copy Matrix Ver	rsion
											Import	
Decisio	n Matrix to be	e usec	J.								USD ceu bus	

Decision Matrix

Unique alpha-numeric code for the decision matrix.

Description

Description of the decision matrix.

Active version

One of the determined versions is the active version of the decision matrix.

1.2.4.2 Version lines

Ver	sior	าร				
		Version	Description	Starting Date	Ending Date	
		1	Decision Matrix Bike version 1			

Add versions to the decision matrix.



Version

Code of the version. You can enter a maximum of 20 characters, alphanumeric.

Description

Description of the version. You can enter a maximum of 50 characters, alphanumeric.

Starting Date

The starting date of the period in which the version is valid.

Ending Date

The ending date of the period in which the version is valid. A version can only be used for the decision matrix while it is valid.

1.2.4.3 Decision Matrix Tab

Overview Decision Matrix Version Lines	
Decision Matrix: BIKE	Generate Datasource
Active Version: 1	
Description: Decision Matrix Bike version 1	
Use XML Datasource: Yes 💌	
Generation Date:	
Generation Time: 00:00:00	

Decision Matrix Id of the decision matrix

Active Version The version that is active.

Description Description of the decision matrix



Use XML Datasource

Field for whether this decision matrix is available in XML as well.

Generation Data

Date of generation of the XML file of the decision matrix. (Only filled up when the decision matrix is available in XML format)

Generation Time

Date of generation from XML file from the decision matrix. (Only filled up when the decision matrix is available in XML format)

Button Generate Datasource

This function is used to export the selected decision matrix to a XML file. The XML file generated is stored in the folder Datasources in the eCon data folder.

1.2.4.4 Version Lines Tab

iew Decisio	n Matrix	Version Line	
e-Con Label	Table	Query ID	Generate Options
CATEGORY		CATEGORY	
MODEL		BIKEMODEL	Decision Matrix Optic
			Decision <u>M</u> atrix Link
			Check Options

In the version lines the queries used in the decision matrix are determined, per version.

e-Con Label

Label of the version line (option set).

Table

Table linked to the query that will deliver the option set. Empty if the query is not based on an Axapta table.

Query ID

Select the query that will deliver the options.



1.2.4.5 Functions Button

Ge <u>n</u> erate Options
Decision Matrix Option
Decision <u>M</u> atrix Link
Chec <u>k</u> Options

Generate Options

Generates the options for the version line, based on the Query linked to the version line.

Decision Matrix Option

Options that are generated are shown.

Option	Option Description	Hide in Matrix	
Citybike	City Bike	No	
Mountainbike	Mountain Bike	No	
Sportbike	Sports Bike	No	
Tourbike	Tour Bike	No	
1			
1			

Options can be added manually.

With "Hide in Matrix" options can be left out the decision matrix.

Decision Matrix Link

The form were the relation between the options can be entered is opened.



e-Con Options							
e-Con Label	Opt	ion	Option	n Description			
CATEGORY	City	bike	City B	Bike			
MODEL	Mou	Intainbik	æ Mounl	tain Bike			
	Spo	rtbike	Sport	s Bike			
	Tou	rbike	Tour E	Bike			
	000.0	_		_			
Related Options for CATEGORY: Mountainbike							
e-Con Label	Link		k Values			· · ·	
e-Con Label CATEGORY	_	Lin	k Values			· · · · · ·	
	_			Option	Option Description		
CATEGORY	_	Link	< Values) Default	Option bahia	Bahia		
CATEGORY	_	Lin	< Values Default	Option bahia extreme	Bahia Extreme		
CATEGORY	_	Link	< Values Default ✓	Option bahia extreme golfo	Bahia Extreme Golfo		
CATEGORY	_	Link	Values	Option bahia extreme golfo instinct	Bahia Extreme Golfo Instinct		
CATEGORY	_	Link	Values	Option bahia extreme golfo instinct medeo	Bahia Extreme Golfo Instinct Medeo		
CATEGORY	_	Link	Values	Option bahia extreme golfo instinct medeo playa	Bahia Extreme Golfo Instinct Medeo Playa		
CATEGORY	_		< Values Default	Option bahia extreme golfo instinct medeo playa popular	Bahia Extreme Golfo Instinct Medeo Playa Popular		
CATEGORY	_	Link	Values	Option bahia extreme golfo instinct medeo playa popular torrente	Bahia Extreme Golfo Instinct Medeo Playa Popular Torrente		
CATEGORY	_		< Values) Default ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Option bahia extreme golfo instinct medeo playa popular torrente tranza	Bahia Extreme Golfo Instinct Medeo Playa Popular Torrente Tranza		
CATEGORY	_		Values	Option bahia extreme golfo instinct medeo playa popular torrente	Bahia Extreme Golfo Instinct Medeo Playa Popular Torrente		
CATEGORY	_		< Values) Default ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Option bahia extreme golfo instinct medeo playa popular torrente tranza	Bahia Extreme Golfo Instinct Medeo Playa Popular Torrente Tranza		

1.2.4.6 Link Tab

Link

The valid option for the upper part selection can be set here. (In this case popular and tranze are valid options for the Category Citybike)

Default

The default option for the upper part selection can be set here. (In this case popular is the default option for the Category Citybike)



1.2.4.7 Link Values

Related Options for DOORM	ODEL: 70061	
e-Con Label	Link Link Values	
LENGTH	e-Con Label Style Value DEFAULTNRHINGES 2	Link Values 🕨
WIDTH		

e-Con label

The label, identifier, of the linked value. This value is linked to the option checked at the link tab.

Style Value

Linked value itself.

1.2.4.8 Link Values button - Defaults

🐺 Decision Matrix Link Additional Data Defaults (1 - ceu) 📃 🛛 🗙
<u>Eile E</u> dit <u>T</u> ools <u>C</u> ommand <u>H</u> elp	
🗋 🔒 🗡 🖶 🗟 🕼 🖅 🌋 🍞 🏹 1	🕪 📢 🌢 🕨 🕪 🔄 🗎 🙆 🖉
Overview	
	[
e-Con Label Style Value	
DEFAULTNRHINGES	
	USD ceu bus 🗐 🗐

©To-Increase B.V.



Default label and value can be set up here. These labels and values will be defaulted in for every checked option of the decision matrix.

e-Con Label: The default label, identifier, of the linked value

Style Value: Default value itself.

DOORMODEL	LENGTH		Style Value	
70061	1950	DEFAULTNRHINGES	2	
70061	2000	DEFAULTNRHINGES	3	
70061	2050	DEFAULTNRHINGES	3	
70062	2100	DEFAULTNRHINGES	2	
70062	2150	DEFAULTNRHINGES	2	
70062	2200	DEFAULTNRHINGES	3	
70062	2250	DEFAULTNRHINGES	4	
70063	1900	DEFAULTNRHINGES	2	
70063	2050	DEFAULTNRHINGES	3	
70063	2200	DEFAULTNRHINGES	5	
70064	2100	DEFAULTNRHINGES	3	
70064	2150	DEFAULTNRHINGES	3	

1.2.4.9 Link Values button - Overview

An overview of all linked values added in the decision matrix.

1.3 Tables – Periodic Forms



1.3.1 Application Server

Application server can be found in the Periodic menu. The application server is the server that handles the request of e-Con for the real time data access to MS Dynamics AX.



1.3.1.1 Overview tab

Elle Edit Iools Command Help
🗋 🔜 🗡 📾 🗟 1 🗺 🌋 🖉 🕷 I 🕪 📣 0 🕨 🕪 🗳 🖉 1
Overview General Start server
Application Server Private queue path Status Run as Stop Last Date Modified Last Time Modified Stop server eConServer VPC-ECON4-AX2001private\$\navisionreguest4 Started Client 25-11-2008 09:47:00
eConServer VPC-ECON4-AX200\private\$\navisionrequest4 Started Client 📃 25-11-2008 09:47:00
USD ceu bus 🗐 🗊

Application Server

Name of the application server. Default name is eCon. Any name is allowed here.

Private queue path

The request queue to be used by this application server is selected here from the Environment settings.

Status

Shows the status of the Appication Server, the correct status is only displayed if you use the buttons (Start Server and Stop Server) to start and stop the Application Server. There are 4 statuses:

- Stopping The Application Server is stopping. After status started the status changes to stopping after clicking the button Stop Server. Only when the Application Server is stopped correctly the status changed to stopped
- Stopped The Application Server is not running (or not correct)
- Starting The Application Server is starting. Clicking the Start Server button will first change the status to starting. After the correct start up of the server the status becomes started.
- Started The Application Server is running in the right way

Run as

This field has two options start-up command and client.

- Client: The client is used as an Application Server. Clicking the start button runs the current client as the e-Con application server
- Start up command: An AX batch process running as a service runs as the e-Con application server



Stop

Indicator when the Application Server must stop. This field is checked after activation of the Stop Server function.

Last Date modified

The last date of stopping or starting the application server

Last Time modified

The last time of stopping or starting the application server

Start Server – button

To start the selected application server

Stop Server – button

To stop the selected application server

1.3.1.2 General tab

Overview General		<u>S</u> tart server
General	State	Stop se <u>r</u> ver
Application Server:	eConServer Stop: No 💌	
Run as:	Client 🔹 Status: Started 💌	
Custom Reader Class:	Last Date Modified: 25-11-2008	
Private queue path:	VPC-ECON4-AX200\private\$\na\ V	
Windows Service name:	Dynamics AX Service WinService	
Queue timeout (ms):	0 Trace: No 🗾 😂	
Timer interval (ms):	0 Directory: c:\temp\	
	Long queries: 0	

Application Server

Name of the application server. Default name is eCon Server and eCop Server. Any name is allowed here.

Run as

This field has two options batch and client.

- Client: The client is used as an Application Server. Clicking the start button runs the current client as the e-Con application server
- Start up command: An Axapta batch process running as a service runs as the e-Con application server

Custom Reader Class

When custom classes are executed with the e-Con Data Function 'CallFunction()' the class containing these custom class definitions must be specified here. Read more about this in the 'SDK AX integration'



Private queue path

The request queue to be used by this application server is selected here from the Environment settings.

Windows Service Name

The name of the corresponding windows service

Queue Timeout (ms)

Used when the application server is used in 'Run On Client' mode !

It will determine how long the client is running to execute requests from the request queue and create responses in the response queue. When the Queue Timeout (ms) is ended it will wait a certain time (Timer Interval (ms)) before it will execute again. This will give the user the opportunity to do other activities in AX with this client for instance startup e-Con studio. The client is not for 100% dedicated to e-Con communication. Typical value is 50. When it stays on 0 a default value is used.

Timer Interval (ms)

Used when the the application server is used in 'Run On Client' mode ! It determines the wait time for the client between the communications to the queues. Typical value is 500. When it stays on 0 a default value is used.

Stop

Indicator when the Application Server must stop. This field is checked after activation of the Stop Server function.

Status

Shows the status of the Appication Server, the correct status is only displayed if you use the buttons (Start Server and Stop Server) to start and stop the Application Server

Last Date modified

The last date of stopping or starting the application server

Last Time modified

The last time of stopping or starting the application server

Trace

With this setting the trace functionality can be activated. Activating trace will log all communication between e-Con and Axapta. All the XML messages send via the message queues are logged and stored in the folder as indicated in the field 'Directory'.

Directory

Location where the trace function stores the trace files.



Long Queries

A special function for performance analyses. All queries with a duration longer then specified in this field are gathered.

1.3.2 Import XML Documents

Offline created e-Con configurations (XML – files) can be imported and processed within this menu.

The tab Batch is the standard Batch functionality of Axapta and enabled the possibility to attach a batch process to the XML documents processing.

Select off-line XML document directory (1)	
General Batch	Current options Default Printer: Microsoft XPS Docume Print medium: Screen
File path and name.	<u>Q</u> K Cancel

Directory:

Directory containing the XML configuration files to be processed. All files within this location will be processed and deleted from this location. After processing a document will be generated with information about status, created records and more

Printer Selected printer.

Print medium Selected output medium

Default Button:

Clicking this button will change the printer and print medium to the defaults.

Options Button:

With this button printer and print medium can be set up and selected



1.4 Tables – Setup Forms

🛄 Setup	^
e-Con Setup	
Option Query	
Import settings	
Modeler	
XML Labels	
Model Table Link	
Context Transition	
Repository	
Metadata groups	
Repository Element	
Smart set	

1.4.1 e-Con Setup

Before we can use e-Con, the setup data has to be entered. The location of files and user preferences are stored in the Setup form.

eCon Server Modeler Configure Repository MD Filter	
e-Con Server: localhost	Edit environment
Environment: default	Show License
	Data Folders

1.4.1.1 Fields of the eCon Server Tab

e-Con Server

Enter the name of the server on which e-Con is running.

Environment

The environment used. Per e-Con environment a set with settings are available.



1.4.1.2 Fields of the Modeler Tab

eCon Server Modeler Configure Repository MD Filter
Default Model:
Maximum Number of Levels: 20
Sequence Interval: 10
Option Description Delimiter: ;

Default Model

This setting is obsolete.

Maximum Number of Levels

To limit a loop in the model, you can define a maximum number of levels. When Axapta generates a data structure, it will stop if the number of levels in the document exceeds this value, and then it will generate an error.

Sequence Interval

This setting is obsolte

Option Description Delimiter

Options are linked to the additional properties of Entities, via queries. The symbol entered here is used as a separator.

An additional property can have multiple options. For example, the "Color" additional property has the options "Red", "Blue" and "Yellow". These options are stored in a query (see section 3.3). In the "Option" field, the value displayed before the Option Description Delimiter is chosen, whereas the value after the Option Description Delimiter is shown in the Front End. Example: the Option Description Delimiter is a semicolon ";"

1;blue

2;red

3;yellow

Now the end user has the choice between "Blue", "Red" and "Yellow", but in a rule you can say: "If option is 1, then price is 10".



1.4.1.3 Fields of the Configure Tab

eCon Server Modeler Configure Repository MD Filter
Multi Language: 🚺 💌
User Language: Default
Context Driven: No 💌
Trace settings
Trace: No 💌
Directory:

Multi Language

To activate the multilingual functionality. When "yes" is selected, the label translations of the e-Con labels, will be added to the model during the XML file generation.

User Language

Setting concerning the language selection for an e-Con model. There are four options:

- Default: The default model language is always the model language;
- Client: The MS Dynamics AX client language is the model language;
- Document: The language of the customer of for example the quote or order e-Con is started from, is the language of the model;
- Selected: The model language is manual selected each time the model is started.

Context Driven

To activate the context driven functionality.

Trace

To activate the e-Con tracing. Activating this will save the so called 'full XML document' and change XML document to the file system. The 'full XML document' is the XML document as how it is processed in MS Dynamics AX. The changes XML document are changes update in the e-Con XML document after processing of the document in AX.

Directory

Location of the trace file.



1.4.1.4 Fields of the Repository Tab

eCon Server Modeler Config	gure Repository MD Filter
Repository	
Metadata domain model:	
Metadata model:	MDMODEL
External Repository:	

In the e-Con studio all models and related elements are maintained like entities to be used in the model structure or for queries and domains with options used in the models. These elements should be stored in AX, because AX is the repository for e-Con by default.

Metadata Model

This field contains the model that will have all the custom created entities. By default this is the MDMODEL model. This model is not visible in the generic model card!

Metadata Domain Model

This field contains the model that will have all the domains created in e-Con studio. By default this is the MDDOMAIN model. This model is not visible in the generic model card!

External Repository

Acticvate Webservices for external repository via environment settings

1.4.1.5 Fields of the MD Filter Tab

eCon Server Modeler Configure Repository MD Filter
Include table groups: ;;Group;Main;;;;
Include relation types: ;Refers to;Contains;Has;Part of;
Tables in MD Groups:

Metadata is used in the e-Con studio. Here some filters can be determined to filter the metadata as shown in the e-Con studio.

Include table groups:

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Select the table groups which tables should be shown in the e-Con studio metadata.

Include relation types:

Select the metadata relation types to be shown in the e-Con studio metadata.

1.4.1.6 Button

E <u>d</u> it environment
<u>S</u> how License
Data Fo <u>l</u> ders
Data Folders

Edit Environment

To open and edit the environment settings. The environment specified at the field "Environment" will be opened.

Show license

The XML license is shown. The XML license is available in the ...\e-Con\Web folder.

Data folders

To create the sub folder structure as required for e-Con in the data store as set up in the environment settings.

1.4.2 Option Query

Option queries are typically created in e-Con studio via domains and if based on AX tables a query entity. But it is still possible to create a query in AX and then with the Copy to domain function create the domain for it.

In the form that pops up, a query can be created. Queries are used to select information from AX tables or are just a list of options. The end user will then be able to choose from the values selected at the Front End. There are several types of queries:

- "Query" (static), this query is executed upon generating the data structure
- "Option Query", this query is used to display options for additional properties that are not included in the AX table.
- "Dynamic Query", this query is activated during configuration by an 'add query' rule in the e-Con Studio.

It's also possible to store the outcome of queries in a separate XML data source. This can offers advantages for offline use and increase of query performance.

For example, several items can be selected in a BOM line. The following query selects items from the Item table. Only items that start with the number "19" and with a description that starts with "Frame" can be selected. Here, the end user chooses from among the descriptions. The item 1900 is shown by default.



1.4.2.1 Query tree

💀 Option Query (1 - ceu)						
<u>File Edit T</u> ools <u>C</u> ommand <u>H</u> elp						
🗋 🔒 🗙 🖶 🗟 🕼 ኛ 🌋 🦻 🤆	«	• • • • • •	🔔 💿			
e-Con Query	ACC	ESSORIES				
ACCESSORIES	Line	is				
AllItems		Field name Option	e-Con Label	Default value		
ArmRestQuery		ItemId 111001	1930 ItemId			
BackQuery		ItemName	ItemName			
BACKWHEEL		SalesPrice	PRICE			
BIKEMODEL		InventP	COSTS			
		NameAlias	NameAlias			
Properties Datasource Description						
Table: InventTable						
Dynamic Query: No						
Order by Option: No						
Option Field: ItemName						
Unique ID Field: ItemId						
Field Type: Text						
					USD ceu	u bus 🗐 🗐 🏿

Tree displaying all queries.

New – Item Creates a new query.

New -SubiItem

Creates a sub item for the selected item. Useful for grouping queries in the tree.

1.4.2.2 Properties tab of Query details

InventTable
No
No
ItemName
ItemId 🗾
Text 💌



Table

Name of the table to which the query refers. If you want to make a selection based on, for example, the items, select InventTable here. If options does not exist in any Axapta table just leaf this field empty.

Dynamic Query

When this box is check-marked, the records that fit the result of the query will not be added to the XML document. The values are taken from the database only by means of rules.

Order by Option

Only applicable for queries based on AX tables. When this box is check-marked, the order of the option list as shown in the drop-down box of the Front -end is based on the Option Field No. Without this box check-marked the order of the option list is based on the primary key of the table.

Option Field

This field is added to the XML document. It is used in the drop-down boxes of the Front End. In general, it is easier for the end user to choose between various descriptions than to make a selection from among item codes. The name entered here refers to the table field of the Table indicated after "Table Name"

Unique ID Field

This field indicates which field from the primary key acts as the key to generation the option. This field makes only sense for queries applied to table with a primary key that exists of multiple fields.

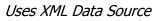
Field Type

The type of field for the result of the query

1.4.2.3 Datasource tab of Query details



AC	CES	SORIES d	letails		
	Pr	operties	Datasource	Description	
		Configu	IL Datasource urations of Mo ition Date:	. 189	• •
		Genera	ition Time:	00:00:00)



Indicator if a XML Data Source is available from the query.

Configurations of Model

This field has to be filled up when a Data Source has to be build from former made configurations. Based on this model and the table name, a data source in XML format is build up. That data source is populated with the object id's and key values of the configurations of that particular model. Furthermore the data of the fields added in the option query lines are added as well.

Generation Date

Last generation date of the data source

Generation Time

Last generation time of the data source

1.4.2.4 Description tab of Query details

CCESSORIES details Properties Datasource	Description
Bike Accessories	

Description



Description of the query.

1.4.2.5 Option Query Line Tab

es			
Field nam	e Option	e-Con Label	Default value
	Chair	ItemGrou	
ItemNam	e 🛛 Desk chair back*	ItemName	
ItemId		ItemId	
InventP.		InventPrice	
SalesPric	e	SalesPrice	

Field Name

Name op the field out of the table the query is based on were a filter (option) must be set for to determine the outcome of the query.

Option

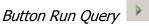
This is the actual query. You can use the standard Axapta filter signs, like 7*, 12..34 etc. to filter the record entered in the Filter Field. A query can consist of more than one line.

e-Con label

This field is only used for queries which are not applied to an Axapta table. In that case the description of the label selected here is used as the description of the option.

Default Value

If you want to propose a default value at the Front End, you can enter that default value here. In the case of a query based on a table: add a line where you type in the value and mark this value as default.



Clicking this button runs the query and will display the outcome of the query. Useful function for testing a query.

Button Generate Datasource 🖄

it is also possible to store the outcome of a query in an external XML Data Source. It's even possible to generate an XML Data Source containing the configured objects of a Generic Model with user defined features. That makes it possible to check if a certain configuration already exists. Activating this button will create such an XML Data Source.



1.4.1 Import settings

🌃 Import d	ata (1)		<u> </u>
File name: Duplicates:	 Update		
Validation:	· · · · · · · · · · · · · · · · · · ·		•
		 <u>о</u> к	Cancel

Data and/or settings can be imported here.

1.4.2 XML Labels

In the e-Con studio ID's and labels are determined for the Properties and Entities. These ID's and labels are stored in this part of AX. If needed manual labels can be added for use in Decision Tables.



XML Labels (1 - ceu) - (_ 🗆
ile <u>E</u> dit <u>T</u> ools <u>⊂</u> omr					
🗅 🔒 🗙 🖶 🗟 (🛐 🖅 🏆 🌠	K 📢		刘 🖺	
Code	Description		 		
	Customers		 		
ABCContributionMargin	ABC-code margin				
ABCRevenue	ABC-code revenue				
ABCTieUp	ABC-code carrying cost				
ABCValue	ABC-code value				
Accessories	Accessories				
ACCESSORY	Accessory				
ACCESSORYFILTER	Accessory filter				
ACCESSORYITEM	Accessory item				
AccountNum	Customer account				
Active	Active				
Address	Address				•
<u> </u>	·		 		
Language Description			 		

Code

The ID of a label. This Code is used as an identification code (ID) when applying the rules in the e-Con Studio.

Description

Description of the label. In e-Con studio this is the label. This Description is shown at the Front End. Use a meaningful name that will make sense to the end user.

Language

Obsolete. (Translations are added in the e-Con studio)

Description

Obsolete. (Translations are added in the e-Con studio)



1.4.3 Model Table Link

The following functionality can be set up here:

- Table environment: Information of the Axapta Context can be passed to e-Con by means of arguments. These arguments can be read in e-Con with the function GetArg. The Axapta Context can for example be the Sales Line. The field custaccount can for example be passed to e-Con and known in e-Con by using the GetArg function to read this argument.
- Table link: Additional information can be populated in the Axapta Context after e-Con has returned to Axapta. The Axapta Context can for example be the sales line. Fields like quantity and config id can be populated by the e-Con model after e-Con returns at the sales line

1.4.3.1 Table Context Tab:

eneric Model	Version	Table	
DOOR35	1	SalesLine	
DOOR35	1	SalesQuotationLine	

Generic Model

Select the Generic e-Con model where table link information must be added.

Version

Select the version of the generic e-Con model where table link information must be added.

Table

Select the table(s) where table link and table environment information must be added. Typically tables in this areas are 'SalesLine', 'SalesQuotationLine'.



1.4.3.2 Table Environment Tab:

Field name	Environment Variable	
SalesId	OrderId	

Field name

The field of the table which must be passed over to e-Con.

Environment Variable

The name of the variable (argument) used to store the value of the field. This variable can be read in e-Con with the GetArg() function. GetArg(Customer) will deliver the customer account of the sales line where e-Con is started.

1.4.3.3 Table Link Tab

Field name	XML Path	
ItemBOMId	BOMVersion.BOMId	
SalesPrice	PRICE	



Field Name

The field of the AX context (sales line in this case) to be populated by e-Con after processing of the e-Con model.

XML Path

The property or property path of the model which value must be stored in the field specified in 'Field Name'. The value of property 'COSTS' will be stored in the Dynamics AX field 'CostPrice' of the Sales line.

1.4.4 Context Transition

A context is a business process context in Dynamics AX. Two contexts are supported yet:

- Quote: Context when e-Con is launched from a sales quote
- Sales order: Context when e-Con is launched from a sales order

With the context tranisition it is possible to launch e-Con in the back ground when a transition takes place from one to another context.

An example: When the context is quote the e-Con model will not create a Bill of Material and Routing. However, when the contex is sales order the Bill of Material and Routing are created. By setting up a context transition from quote to sales order, the e-Con model is recalculated in the back ground when the CRM Quote is converted into a sales order. During this recalculation e-Con will notice a change of context from quote to sales order and will create the Bill of Material and Routing.

🛐 Ca	ntext Transitio	on (1 - ceu)					
Eile	<u>E</u> dit <u>T</u> ools	⊆ommand	Help				
	🖯 🗙 🗎	🗟 💽 Ş	7 🎖 🏂	╦│┡ �� � ₽	> 🗈 🌖 🖺 🖉		
Ove	erview						
	Context From	Context To	Description	Automatic Processing			
	Quote	Sales Or	Quote t				
	-						
	-						
	-						
Ĺ							
Should	I the context be s	witched autor	natically.			USD ceu bus	

Context From The original context

Context To The new context



Description

A description of the context transition

Automatic Processing

This box must be check-marked if you want to recalculater your e-Con model automatically during the context transition.

1.4.5 Metadata group

Metadata groups are shown and used in the e-Con studio. Metadata groups set up in the studio are available in AX as well.

🏹 Metadata groups (1 - ceu)			_ _ _ _ _
<u> Eile E</u> dit <u>T</u> ools <u>C</u> ommand <u>H</u> elp			
🗋 🔒 🗙 🖷 🗟 🐼 🖅 🏹	🄊 🏹 KÞ 📢 🍕 I	🔊 🕰 🖞 🕪 <	
Metadata groups	CRM		
AX_MD_Group	Elements		
PRODUCT	Table	Title	▲ 🔏
PROJECT	AppTable	Address table	
SALES	AppTable	ContactPerson table	
	AppTable	Currency table	
	AppTable	CustGroup table	
	AppTable	CustTable table	
	AppTable	Dimensions table	
	AppTable	EmplTable table	
	AppTable	InventBuyerGroup table	
Details	AppTable	InventColor table	
Description	AppTable	InventDimCombination	
	AppTable	InventDimGroup table	
CRM Configuration	AppTable	InventItemBarcode table	
	AppTable	InventItemGroup table	
	AppTable	InventItemLocation table	
	AppTable	InventLocation table	
	AppTable	ToventModelGroup table	_
			USD ceu bus 💷 🗊 🎵

Table

Table name being part of the metadata group.

Title

Description of the table being part of the metadata group



Button – Import e-Con 3.5 metadata groups 适

Import a set of default metadata groups. The XML file to be used can be found at the product CD.

1.4.6 Repository Element

All e-Con model related data can be stored in AX. This is by default the case. In that case AX is called the repository for e-Con.

Models, configurations, projects, templates, etcetera are stored. If AX is the repository a backup of the database will contain all applicable e-Con data. Except from images or other data sources like SQL or Excel (xml) which are not available in AX.

epository Eleme	ent (1 - ceu) - Elemer	it Type: (Generic Model, BIKE					
<u>E</u> dit <u>T</u> ools	<u>C</u> ommand <u>H</u> elp							
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Overview General Content								
Element Type	Name	Version	Name					
Generic Model	BIKE	1	ECONDEMO\Administrator					
Generic Model	Chair	1.0.0	ECONDEMO\Administrator					
Generic Model	Customers	1.0.0	ECONDEMO\Administrator					
Generic Model	eDoor4	1	ECONDEMO\Administrator					
Generic Model	FRONTWHEEL	1	ECONDEMO\Administrator					
Generic Model	GEOMETRY	1	ECONDEMO\Administrator					
Generic Model	GEOMETRYCONTEXT	1	ECONDEMO\Administrator					
Generic Model	IChair	1.0.0	VPC-ECON4-AX40\Administrator					
Generic Model	IFRONTWHEEL	1	ECONDEMO\Administrator					
Generic Model	IGEOMETRY	1	ECONDEMO\Administrator					
Generic Model	IGEOMETRYCONTEXT	1	ECONDEMO\Administrator					
Generic Model	Item	1.0.0	ECONDEMO\Administrator					
Generic Model	SalesOrder	1.0.0	ECONDEMO\Administrator					
Generic Model	TITest	1.0.0	ECONDEMO\Administrator					
Configuration			ECONDEMO\Administrator					
Configuration			ECONDEMO\Administrator		ŀ			
/pe of the elemen	t as defined in the e-Con	Studio.		USD ceu bus				

Element Type

The type of data stored in this repository record.

Name Name or Id of the stored data.

Version

©To-Increase B.V.



Version of the model, report, project or translation.

Name

User creating the repository input.

Overview General Content	
Element	Info
Element Type: Generic Model	Modified date and time: 24-11-2008 17:06:05
Name: BIKE	Modified By: Admin
Version: 1	Created date and time: 17-11-2008 13:40:12
Model name:	Created by: Admin
Model version:	
Name: ECONDEMO\Administrator	

1.4.6.2 Repository Element Tab General

Element Type

The type of data stored in this repository record.

Name

Name or Id of the stored data.

Version Version of the model, report, project or translation.

Model Name ID of the model used for the configuration. Only applicable for configurations.

Model Version Version of the model used for the configuration. Only applicable for configurations.

Name User creating the repository input.



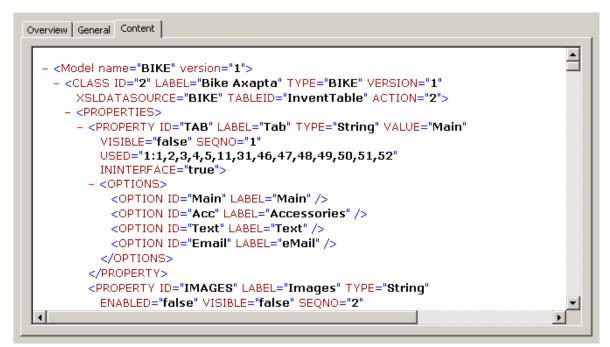
Modified date and time Date and time of latest modification.

Modified by User of last modification

Created date and time Date and time of creation

Created by User created the element

1.4.6.3 Repository Element Tab Content



Shows content of the selected repository element

1.4.7 Smart Sets (for future use)



Chapter 2 How to

2.1 How to set up recovery

Configurations with errors can be recovered. Meaning that erroneous configurations are shown to the user when recovering is activated. The user get always his erroneous configurations displayed when he wants to use the particular model. Selecting one of the erroneous configuration will open them. The normal process can take place afterwards. Recovery can be activated per model.

- Select the generic model from where the recovery must be activated.
- Select the tab page 'General' and check the field 'Online recovery'.

Overview General	
Include to Object: 🚺 👻 On hold: 🛛 💌	
Online Recovery: Yes 💌 Detail level: 📶 💌	
Online Synchronizing: Manual 💌 Limit:	

What to do to recover a configuration:

• When for a certain model and users configurations exist with the error flag turned on the erroneous configuration is shown the next time the user starts the model. (The error flag is turned on by a sudden system break down as well, since the flag is set by the start of the model and reset when the configuration succeeded)

🛒 Ca	nfigured Mode	el for Recovery (1	- ceu)							
Eile	<u>E</u> dit <u>T</u> ools	<u>C</u> ommand <u>H</u> elp								
	_ □ 🔚 🗡 🖶 🗟 🦅 🌋 😿 🠺 Ю 🔍 < 🕨 🖄 🖄 🛕 ⑧									
Оv:	erview					-	Co <u>n</u> figure			
	eCon Mode	el ID Generic Model	Version	Last Date Modified	Last Time Modified					
	10	EDOOR35	1	24-11-2008	14:58:04		Ignore			
	Ц									
	H									
	H									
	H									
	H									
Unique	e id assigned to t	he configuration by t	he system			USD ceu	bus 🖳 🖬 🎢			

• Clicking the OK button will open the erroneous configuration.



- The remove will remove the erroneous configuration and open a new configuration.
- Ignore will just open a new configuration

2.2 How to change the set up for e-Con

By going to "e-Con Setup", you can alter or check the default installation settings. Note : see e-Con 4.1 - MS Dynamics AX Integration - Installation Manual for details on the initial set up of e-Con in Dynamics AX.

• Go to and select "e-Con Setup"

e-Con Setup Option Cuere Import Set up parameters for e-Con. Import Seturgs Modeler XML Labels Model Table Link Context Transition Repository Metadata groups Repository Element Smart set		Setup	^
	_	e-Con Setup Option Set up parameters for e-Con. Import Seturings Modeler XML Labels Model Table Link Context Transition Repository Metadata groups Repository Element	



The following form will open:

🙀 e-Con Setup (1 - ceu)	
<u>File Edit I</u> ools <u>C</u> ommand <u>H</u> elp	
🗋 🖶 🗡 🖶 🗟 🚳 🎢 🖫 🐺 🅪 🔇 🔹 🕨	> 🔄 🕑 🔔 🛛
eCon Server Modeler Configure Repository MD Filter	
e-Con Server: localhost	Edit environment
Environment: default	Show License
	Data Folders
	USD ceu bus 🗐 🗊

- When a new environment is needed just type in a new e-Con Environment and open the Functions Edit Environment. More information regarding setting up a new environment can be found in "e-Con 4.1 MS Dynamics AX Integration Installation Manual"
- Activate the "Create Folder Structure" option to generate the folders as required for e-Con. These folders are generated on the file system for the data store as set up in the selected environment.
- Activate the "Edit Environment" option to show all the e-Con settings for the environment as selected in the field e-Con Environment. Make the changes needed, data store, default buttons etc. (Read more about al the environment settings in the "Settings" document).

2.3 How to Set Up the e-Con Application Server

See e-Con 4.1 - MS Dynamics AX Integration - Installation Manual

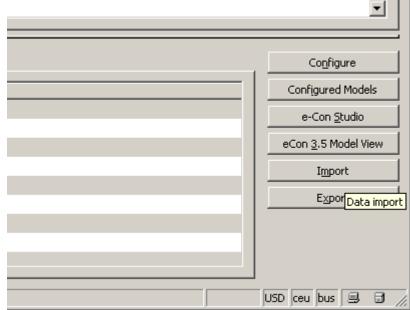
2.4 How to Import or Export Models

With e-Con, you can import and export models. Most commonly this is done via e-Con studio, but it is also possible to do it via AX.

2.4.1 Model Import To import a model:



• On the Generic Models form, click Import.



• On the Import data form, select the to-be-imported model's xml file, the duplicate action, and click OK.

🋐 Import da	ata (1) 📃 📕	
File name:	C:\Documents and Settings\Administrator\	_
Duplicates:	Replace	•
Validation:	No	•
	<u>O</u> K Ca	ncel

2.4.2 Model Export

To export a model:

- In the Generic Model form, select a model.
- Select a version of the model.



• Click Save as.

No. Interface Description Active Version Generation Date Generation Time BIKE No Bike Axapta 1 24-11-2008 17:09:15 CHAIR No Items 1.0.0 24-11-2008 17:32:148 CUSTOMERS No Structure 1.0.0 14-11-2008 15:26:32 ENOOR35 No eboor 1 24-11-2008 16:10:45 GEOMERTRY No Geometry 1 24-11-2008 16:10:45 GEOMERTRY No Geometry 1 17:11-2008 14:48:54 ICHAIR No Iterface Frontwheel 1 24-11-2008 15:29:41 IGEOMETRY No Isecmetry 1 17:11-2008 14:48:54 IGEOMETRY No Isecmetry 1 17:11-2008 14:48:54 IGEOMETRY No Isecmetry 1 17:11-2008 14:48:54 IGEOMETRY No Isecmetry 1 17:11-2008 14:47:21 IGEOME	
Bike No Bike Axapta 1 24-11-2008 17:09:15 CHAR No Items 1.0.0 24-11-2008 17:32:48 CUSTOMERS No Structure 1.0.0 14-11-2008 17:32:48 CUSTOMERS No eboor 1 24-11-2008 15:26:32 FRONTWHEEL No eboor 1 24-11-2008 16:10:45 GEOMETRY No Geometry 1 17:11-2008 16:10:45 ICHAIR No Items 1.0.0 00:00:00 IFRONTWHEEL No Items 1.0.0 00:00:00 IFRONTWHEEL No Items 1.0.0 00:00:00 IFRONTWHEEL No Items/ace Frontwheel 1 24-11-2008 15:29:41 IGEOMETRY No IGeometry 1 17:11-2008 11:47:21 IGEOMETRYCONTEXT No Identify context 1 17:9-2007 16:28:45	
CHAIR No Items 1.0.0 24-11-2008 17:32:48 CUSTOMERS No Structure 1.0.0 14-11-2008 15:26:32 FNOCR3S No Edoor I 24-11-2008 14:59:35 FRONTWHELL No Frontwheel I 24-11-2008 16:10:45 GEOMETRY No Geometry I 7-11-2008 16:10:45 ICHAIR No Items 1.0.0 14:49:30 14:49:34 ICHAIR No Items 1.0.0 00:00:00 14:49:21 ISECOMETRY No IGeometry I 17:11-2008 15:29:41 IGEOMETRYCONTEX No IGeometry I 17:11-2008 15:29:41 IGEOMETRYCONTEX No IGeometryContext I 17:19:2008 16:49:45	
CUSTOMERS No Structure 1.0.0 14-11-2008 15:26:32 ENDOR3S eDoor 1 24-11-2008 14:59:35 FRONTWHEEL No Frontwheel 1 24-11-2008 16:10:45 GEOMETRY No Geometry 1 7-11-2008 16:41:54 ICHAIR No Items 1.0.0 0:00:00 IFRONTWHEEL No Interface Frontwheel 2-4-11-2008 15:29:41 IGEOMETRY No I Geometry 1 7-19-2007 14:49:52 IGEOMETRY No I Geometry 1 7-19-2008 15:29:41 IGEOMETRY No I Geometry 1 7-19-2007 16:28:45	
ENOOR3S No eDoor 1 24-11-2008 14:59:35 FRONTWHEEL No Frontwheel 1 24-11-2008 16:10:45 GEOMETRY No Geometry 1 17-11-2008 14:49:54 ICHAIR No Items 1.0.0 00:00:00 IFRONTWHEEL No Interface Frontwheel 1 24-11-2008 IGEOMETRY No Interface Frontwheel 1 24-11-2008 IGEOMETRY No IGeometry 1 17-11-2008 14:47:21 IGEOMETRY No IGeometry 1 17-9-2007 16:28:45	
FRONTWHEEL No Frontwheel 1 24-11-2008 16:10:45 GEOMETRY No Geometry 1 17-11-2008 14:49:54 ICHAIR No Items 1.0.0 00:00:00 IFRONTWHEEL No Items 1.0.0 15:29:41 IGEOMETRY No IGeometry 1 17-11-2008 14:47:21 IGEOMETRY No IGeometry 1 17-9:2007 16:28:45	
GEOMETRY No Geometry 1 7-11-2008 14:48:54 ICHAIR No Items 1.0.0 00:00:00 IFRONTWHEEL No Infrace Frontweel 2 24-11-2008 15:29:40 IGEOMETRY No Geometry 1 7-11-2008 14:47:21 IGEOMETRYCONTEX No GeometryContext 1 7-9-2007 16:81:45	
ICHAIR No Items 1.0.0 00:00:00 IFRONTWHEEL No Interface Frontwheel 1 24:11:2008 15:29:41 IGEOMETRY No IGeometry 1 7:11:2008 14:47:21 IGEOMETRYCONTEXT No IGeometryContext 1 7:9-2007 16:28:45	
IFRONTWHEEL No Interface Frontwheel 1 24-11-2008 15:29:41 IGEOMETRY No IGeometry 1 7-11-2008 14:47:21 IGEOMETRYCONTEXT No IGeometryContext 1 7-9-2007 16:28:45	
IGEOMETRY No IGeometry 1 17-11-2008 14:47:21 IGEOMETRYCONTEXT No IGeometryContext 1 17-9-2007 16:28:45	
IGEOMETRYCONTEXT No IGeometryContext 1 17-9-2007 16:28:45	
TTEM No. Shuther 1.0.0 04.11.0000 10.50.01	
ITEM No Structure 1.0.0 24-11-2008 12:59:21	
SALESORDER No Structure 1.0.0 18-11-2008 15:26:02	
rview	Configure
	Configured Mo
eDoor eDoor4 Certified InventTable 1	
	e-Con <u>S</u> tudi
	eCon <u>S</u> tudi
	eCon <u>3</u> .5 Model I <u>m</u> port
	eCon <u>3</u> .5 Model

- Specify the folder in which you want to store the model export file.
- Enter the file name.
- Click Save.

Save As		<u>?</u> ×
Savejn:	🕒 My Documents 💽 🕝 🤌 📂 🛄 -	
My Recent Documents Desktop My Documents My Computer	SQL Server Management Studio SQL Server Management Studio Visual Studio 2005	
My Network	File <u>n</u> ame: No. EDOOR351.xml	<u>S</u> ave
Places	Save as type: XML Files (*.xml)	ancel



2.5 How to View Your Configurations

You can view the configurations generated using e-Con.

• Select an e-Con generic model, go to the "Functions" button and activate "Configurations".



The following form will open:

🌉 Con	figured Model	s (1 - ceu) - N	No.: EDOOR35,	1, No.:	EDOOR3	5			
Eile	<u>E</u> dit <u>T</u> ools								
	🔒 🗡 🖷								
Over	Overview Link Details								
	eCon Model ID	Synchronize	Model Status	Error	User ID	Last Date Modified	Last Time Modified		Configured Model 🕨
	2		Configured		Admin	18-11-2008	15:36:00		
	5		Configured	~	Admin	18-11-2008	15:41:19		Infolog 🕨
	6		Configured		Admin	18-11-2008	15:47:47		
	7		Configured		Admin	18-11-2008	15:50:59		
	10		New		Admin	24-11-2008	14:58:04		
		-			· · · · ·				
Inique i	id assigned to the	e configuration	by the system.						USD ceu bus 💷 🗃 🎵

2.6 How to Start Up Your Model

• Select the desired model in the Generic Model menu



No.	Int	Description	Active Version	Generation D.	Genera						
BIKE	No	Bike Axapta	1	24-11-2008	17:09:15						
CHAIR	No	Items	1.0.0	24-11-2008	17:32:48						
CUSTOMERS	No	Structure	1.0.0	14-11-2008	15:26:32						
EDOOR35	No	eDoor	1	24-11-2008	14:59:35						
FRONTWHEEL	No	Frontwheel	1	24-11-2008	16:10:45						
GEOMETRY	No	Geometry	1	17-11-2008	14:48:54						
ICHAIR	No	Items	1.0.0		00:00:00						
IFRONTWHEEL	No	Interface Frontwheel	1	24-11-2008	15:29:41						
				17-11-2008	14:47:21						
IGEOMETRY	No	IGeometry	1	17-11-2008	14:47:21						
IGEOMETRY IGEOMETRYCONTE		IGeometry IGeometryContext	1	17-11-2008	16:28:45						
	XT No	IGeometryContext		17-9-2007		Table		Starting D	Ending Date		Configure
	Scription	IGeometryContext	n Label	17-9-2007	16:28:45	Table InventTable	Root	Starting D	Ending Date	_	Configured Mo
IGEOMETRYCONTE	Scription	IGeometryContext	n Label	17-9-2007	16:28:45		Root 1	Starting D	Ending Date	-	
IGEOMETRYCONTE	Scription	IGeometryContext	n Label	17-9-2007	16:28:45		Root 1	Starting D	Ending Date		Configured Mo
IGEOMETRYCONTE	Scription	IGeometryContext	n Label	17-9-2007	16:28:45		Root	Starting D	Ending Date		Configured Mo

• Click the "Configure" button. Or simply press the F8 key on your keyboard.

The e-Con model UI will be opened.

🐺 e-Con Frontend (1)				
<u> E</u> dit <u>T</u> ools <u>⊂</u> ommand <u>H</u> elp				
	🐺 144 🚳 🔹 🕨 🕬 🖹 🛕	0		
				You are logged on as user Admin
Door Accessories Operations Spe	cifications Drawing			
Questions	Answers	Margin	Price	
Configuration	D-000023	% 67.23	\$ 199.00	
Door model	Model Belgium 💌 🔇		\$ 180.00	
Sizes	Standard C Special			
Length	2200 mm 🔽			
Width	1150 mm 🔻			
Standard Colors	White 💌			0
Parities Uisses	⊙ Left			
Position Hinges	O Right			
Drint Quatation de constat				
Print Quotation document				
		🗙 🛛 🥥 Sł	now Costs	
				bus 🗐 🗐 🎢

2.7 How to Start Up the e-Con Studio

With the Studio, you can alter the data structure and add rules, among other things.

• Select the desired model in the Generic Model menu.

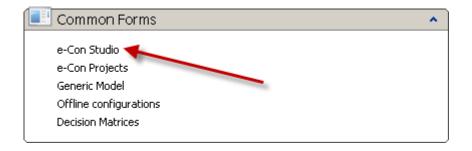


No.	Int	Description	Active Version	Generation D	Genera						
BIKE	No	Bike Axapta	1	24-11-2008	17:09:15						
CHAIR	No	Items	1.0.0	24-11-2008	17:32:48						
CUSTOMERS	No	Structure	1.0.0	14-11-2008	15:26:32						
EDOOR35	No	eDoor	1	24-11-2008	14:59:35						
FRONTWHEEL	No	Frontwheel	1	24-11-2008	16:10:45						
GEOMETRY	No	Geometry	1	17-11-2008	14:48:54						
ICHAIR	No	Items	1.0.0		00:00:00						
IFRONTWHEEL	No	Interface Frontwheel	1	24-11-2008	15:29:41						
IGEOMETRY	No	IGeometry	1	17-11-2008	14:47:21						
IGEOMETRYCONTEXT	No	IGeometryContext	1	17-9-2007	16:28:45						
				11 9 2007	10.20.45						
view						Table	Boot	Starting D	Ending Date		Configure
			n Label	5	itatus	Table InventTable	Root	Starting D	Ending Date		Configured Mod
view		 e-Cc	n Label	5	itatus			Starting D	Ending Date		
view		 e-Cc	n Label	5	itatus			Starting D	Ending Date		Configured Mod
view		 e-Cc	n Label	5	itatus			Starting D	Ending Date		Configured Moo e-Con Studio eCon 3.5 Model
view		 e-Cc	n Label	5	itatus			Starting D	Ending Date		Configured Mod

- Click the "e-Con Studio" button.
- E-Con studio will be opened with the generic model in the view

😶 e-Con Studio						<u>- 0 ×</u>
<u>File Edit View Tools H</u> elp						
: 🗅 📂 🛍 🐸 🗖 💕 🖬 🐰 😘 🙈 🗡 🗛 🥲	si 📑 🕮 🥔 i 🏙 i 🕾 📴 📜 🕴 👘 i i	■×≤ ■ ®	e -			
Toolbox 👻 🕂 🗙	eDoor4,1*			×	Properties	→ 쿠 X
		Element Property Property Reference Property Property	Label Images Item number Configuration table Costs Price Tab Connection to XML source First free number MARGIN Default number of hinges Show Costs order id Sales Contact Person Sales Contact Name Answers (Columns) Draving Inventory texts RomVersion	×	Action Default Entity Entity Version Id Label TableId	Update False
						_
						-
<u>ৰ</u>						Þ
Output Source						
localhost default						//

Or select the e-Con Studio from the e-Con Common Forms





• E-Con studio will be opened empty. Next in the e-Con studio the model should be selected.

😌 e-Con Studio	
Eile Edit View Tools Help	
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Toolbox 🗸 🕈 🗙	Properties 👻 🕂 🗙
Object Explorer	
Contract Con	
🖏 Libraries	
📀 Domains	
🚘 AX Metadata Group	
CRM Configuration	
Carl Product Configuration	
Carl Project Configuration	
Configuration	
» T	Properties ExpressionBuilder
Output	• # X
	• • •
	-
3	
Dutput Source	
localhost default	,

2.8 How to Set Up Decision Matrices

This section describes the Decision Matrix functionality. An overview of this functionality is given, followed by instructions for setting up the matrix, and an explanation of the business rules needed.

2.8.1 Overview

You can use Decision Matrices to indicate an interdependency between member options in your model. In many cases, certain options are not possible for a given Model. "Options" in this case may mean other Options (like Color or Type) as well as Items.

It's also possible to lay out such interdependencies in the business rules. However, these interdependencies may change frequently, and changing your business rules frequently is not ideal. In addition, it is often Sales Representatives, Assortment Control staff or Product Control employees who need to make these changes, and they are usually not authorized to alter the business rules.

So instead, e-Con makes use of easy-to-use Decision Matrices. By check-marking fields in these Matrices, employees can easily make the necessary changes in interdependencies among Entity members. And they need only make use of a few existing business rules to consult the matrix.

2.8.2 Setting up the Matrix

This section covers setting up a Decision Matrix in MS Dynamics AX.



A decision matrix consists of two or more "Option sets" of which the options are dependent of each other. The Option sets are based on existing queries. These queries can be based on Dynamics AX tables or not.

Setting up a Decision Matrix.

- First select "Decision Matrices" in the e-Con Common Forms.
- The Decision Matrix form for setting up the Decision Matrices and Versions appears. Different Decision Matrices with version can be determined. Every Decision Matrix has an Active Version. The "Option sets" are determined as Version Lines per version.

T 🛐	ecision Matrices	(1 - ceu) - Decision Matrix: I	BIKE, 1, Decisio	on Matrix: BIKE			
Eil	e <u>E</u> dit <u>T</u> ools	<u>C</u> ommand <u>H</u> elp					
) 🔒 🗙 🖷	🗟 💽 ኛ 🌋 🏂 🏹	K> <\$\$ <	Þ 🗈 🔄 🖺 ,	▲ 💿		
0	verview Decision N	Natrix Version Lines					1
	Decision Matrix	Description	Active Version				
	BIKE	Decision Matrix Bike version 1	1				
	Chair	Chair decision matrix	1				
	eDoor	eDoor decision matrix	1				
ľ							
Decis	sion Matrix to be use	ed.			USI	D ceu bus	9 8 //

• Add a new line on the Overview tab with CTRL-N and fill a unique code for the Decision Matrix and a Description.



Decision Matrix	Description	Active Version	
BIKE	Decision Matrix Bike version 1	1	
Chair	Chair decision matrix	1	
eDoor	eDoor decision matrix	1	
MyBike	My Bike Decision Matrix		
	1	1	
sions			
	scription Starting Date Endir	ig Date	
	scription Starting Date Endin	ig Date	
Version De	scription Starting Date Endir	ig Date	Copy Matrix Version
Version De	scription Starting Date Endir	ig Date	

• Go to the Versions and add a new version.

Versions

Y 61 31					
	Version	Description	Starting Date	Ending Date	Decision Matrix Link
*	• 1	4y First Vers			Carry Makein Hausian
					Copy Matrix Version
					Import
					Export

• Select the new version as "Active Version" for the Decision Matrix.

Overview Decision Matrix Version Lines

_					
	Decision Matrix	Description	Active Ve	rsion	
	BIKE	Decision Matrix Bike version 1	1		
	Chair	Chair decision matrix	1		
	eDoor	eDoor decision matrix	1		
	MyBike	My Bike Decision Matrix		-	
			Version	Description	
			1	My First Version	
1	1		-		

• Go to the Version Lines tab and add the Option sets. Add a new line with CTRL-N. Select the e-Con Label, Table Name (if the query is based on a Dynamics AX table) and Query ID.



e-Con Label	Table Query ID	Ge <u>n</u> erate Options
CATEGORY	GORY -	Decision Matrix Option
		Decision <u>M</u> atrix Link
		Chec <u>k</u> Options
-		

• Generate the options with the "Generate Options" button and view the options.



• Add a second option set e.g. MODEL. Generate the options and check them with View Options.

Ονε	erview Decision Matrix Version Line	s		
	e-Con Label	Table	Query ID	Generate Options
	CATEGORY		CATE	Decision Matrix Option
*	Model		model 🚽	
				Decision <u>M</u> atrix Link
⊢	-			Chec <u>k</u> Options
\vdash				

• Go with "Decision Matrix Link" to the form were the dependency between the options are set. With check-mark in the Boolean fields the relation between the options can be set. For instance Only models "popular" and "tranza" are possible for "Citybike".



e-Con Options						
e-Con Label		Option	Optio	n Description		
CATEGORY		Iitybike	City B	like		
Model	P I	1ountainbik	e Moun	tain Bike		
	<u> </u>	iportbike	Sport	s Bike		
	ד 📃	ourbike	Tour E	Bike		
	\square					
Related Options for CATEGO			.e : Values			
Model		Link	Default	Option	Option Description	
				bahia	Bahia	
				extreme	Extreme	
				golfo	Golfo	
				instinct	Instinct	
				medeo	Medeo	
				playa	Playa	
				popular	Popular	
				torrente	Torrente	
				tranza	Tranza	
				ultimate	Ultimate	

• Fill the Decision Matrix for all the Categories.

2.8.3 Checking the default option in the matrix.

In the Decision Matrix valid options can be checked. Besides that the default option for a particular row can be checked as well.

Two steps are required to add this default behavior to the matrix functionality.

Select the matrix link and check for each row the default option. In this example model 'popular' is check marked as the default option for Category 'Citybike'.



e-Con Options						
e-Con Label		Option	Optio	n Description		
CATEGORY		Citybike	City B	iike		
Model		Mountainbik	e Moun	tain Bike		
		Sportbike	Sport	s Bike		
		Tourbike	Tourl	Bike		
			_			
Related Options for CATEC	URI	r: Gitybik	.e	_	_	¥
e-Con Label		Link Lin	(Values			
CATEGORY			Defeat	0-11	Delles Deserver	
Model		Link	Default	Option bahia	Option Description Bahia	
		[] []		extreme	Extreme	
				golfo	Golfo	
				instinct	Instinct	
				medeo	Medeo	
		HH		playa	Playa	
				popular	Popular	
				torrente	Torrente	
				tranza	Tranza	
		HE		ultimate	Ultimate	
				aiciniace	okinaco	
				1	1	

Add a new style to the property representing the Models. In this case the property model. The style to be added is: 'selectdefault' with value 'true'.

Style	selectdefault:true	

2.8.4 Adding Additional Data to a Selected Check Box in the Matrix

In this section we describe how additional data can be added to a checked field in the decision matrix. This functionality offers you the possibility to add data to options available in the decision matrix. As an example: It's possible to add the prices for all the monitors in combination with the computer model for. That means that the price for monitor vary depending on the computer model the monitor belongs to.



• Select the Decision Matrix as set up in the former step. And select the Matrix form as shown below.

Decision Matrix (1 - ceu) - Decis	n Matrix: MyBike, 1, Decision Matrix: MyBike	
i <mark>le E</mark> dit <u>T</u> ools <u>C</u> ommand <u>H</u> e		
	3 🌃 🐺 KÞ 🔇 🗶 🗩 🕅 🖺 🔔 🎯	
-Con Options		
e-Con Label	Option Option Description	
CATEGORY	Citybike City Bike	
Model	Mountainbike Mountain Bike	
	Sportbike Sports Bike	
	Tourbike Tour Bike	
Related Options for CAT	ORY: Citybike	5
e-Con Label	Link Link Values	
CATEGORY	Link Default Option Option Description	
Model	- Dahia Bahia	
	extreme Extreme	
	- Golfo	
	instinct	
	Popular Popular	
	torrente	
	Tranza	

- Select a link for which a check box is selected.
- Open the Link Values tab.
- On the link values tab, enter a label and a value. This data is unique linked to the checked field in the matrix. The label of the value is important because that label is used in the business rules to get this value in eCon.

Re	Related Options for CATEGORY: Citybike 🎇 🎇									
	e-Con Label		Link	Link Value	s					
	CATEGORY									
	Model			e-Con Label	Style Value			Link Values 🕨		
			*	PRICE	500					
H										

Tips & Tricks:

To assure that always the same labels are used for the additional data in a decision matrix, use the Link Values Defaults. The Defaults function can be found under the "Link Values" button on the Link Values tab of the e-Con Decision Matrix form. When additional data is entered, those defaults always appear.



There is an overview form available where additional data can be very easily entered. To open this form, on the Link values tab, click Link Values, Overview.

🚾 Decision Matrix Link Additional Data (1 - ceu)	
<u>File Edit I</u> ools <u>C</u> ommand <u>H</u> elp	
🗋 🔒 🗡 🖶 🗟 🖅 🌃 🍞 🏋 🅪 📣 🔺 🕨 🖄 🖄 🔔 🎯	
Overview	
CATEGORY Model e-Con Label Style Value	
Citybike popular PRICE 500	
USD ceu	bus 🗐 🕄

2.8.5 Add the Relevant Business Rules

Now that you've set up the Decision Matrix in MS Dynamics AX, you will need to add the necessary business rules. These rules ensure that the options are retrieved from the MS Dynamics AX database for those members that require it.

To set up the business rules, you will use the "@options" attribute and the following functions from the eCon.Data.Functions Library:

- GetMatrixColumns(<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>)
- GetMatrixRows(<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<ex
- GetMatrixCell(<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr>;<expr;;<expr>;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<expr;;<ex

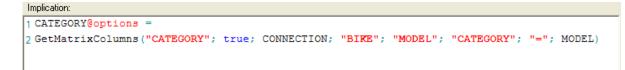
The "GetMatrixRows" and "GetMatrixColumns" functions are both used for consulting the decision matrix to retrieve options.

The GetMatrixCell function is used to retrieve the additional data linked to a certain cell in the decision matrix.

- The "GetMatrixRows" function is used for retrieving options that are located in a row of the matrix. The variable value is then located along the x-axis of the Decision Matrix.
- The "GetMatrixColumns" function is used for retrieving options that are located in a row of the matrix. The variable value is then located along the y-axis of the Decision Matrix.

Below are two examples how to use those functions:





This rule establishes that when the end user selects a Model, the various Category options associated with that Model are retrieved from the Decision Matrix.

```
Implication:
1 MODEL@options =
2 GetMatrixRows("MODEL"; false; CONNECTION; "BIKE"; "MODEL"; "CATEGORY"; "="; CATEGORY)
```

This rule established just the opposite. When the end user selects a Category, the associated Models are retrieved from the Decision Matrix.

• The GetMatrixCell function is used to get information linked to a certain cell of the decision matrix, the so called additional data.

Below you will find an example how to use this function:

```
Implication:
1 WEIGHT =
2 GetStringMatrixCell(CONNECTION; "BIKE"; "Weight"; "CATEGORY"; "="; CATEGORY; "MODEL"; "="; MODEL);
1
```

In this rule the weight is retrieved from the Decision Matrix "Bike". Based on the chosen Category and Model the right cell is consulted.

For more detailed information about these functions, see the document "Data Functions - Library Descriptions ".

Tips & Tricks:

Use the 'Data Wizard' in the e-Con studio to easily add these functions to your model.

2.9 How to synchronise my configurations against the latest model

During the life cycle of a model many changes, upgrades and extensions of a model take place. Sometimes it's required to update existing configurations with these latest model changes, sometimes it's not. Such an update is called "Synchronization" in e-Con terms. There are different ways how synchronisation can take place. The section explains the different possibilities in this area.

A controlled synchronisation can only take place when changes are done in a controlled way via versions. Changes made to a model without adding a new version are **always** synchronized during reconfiguration. In other words, changes made to the active version are always applied to an existing configuration during the reconfigure process.

When changes are done via a versioning procedure, each change or set of changes is a new model version, a certain set up of synchronization can be done. This set up can primarily be done on the generic model card. At the tab page "XML" a field "online synchronization" exists. This field determines how the model will act when the version of the configuration differ from the active version of the model.



🕎 Generic Model (1 - ceu) - No.: BIKE, Bike Axapta, MDSystem: No	
Eile Edit Tools Command Help	
🗋 🖬 🗡 📾 🗟 💯 🌋 🖉 🦹 🅪 📣 🕨 🕨 📣 🖱 🔔 🎯	
Overview General	
Include to Object: No 💌 On hold: No 💌	
Online Recovery: Yes Detail level: All	
Online Synchronizing: Manual 💌 Limit:	
Manual	
Confirmation Automatically	

Three possibilities exists here:

 Manual: The configuration is only synchronized with the active version of the model when the field "Synchronize" for that particular configuration is true. This "Synchronize" field is located in the "Configured Models" table. This table can be displayed by the clicking the button "Configurations" at the "Generic Model" menu.



• The field "Synchronize" can be checked here for each configuration needed to update.



Con <u>F</u> ile	i <mark>figured Model</mark> : <u>E</u> dit <u>T</u> ools		No.: EDOOR35, <u>l</u> elp	1, No.:	EDOOR3	5		
	🖶 🗙 🖶	🗟 💽 🖅	7 🐨 🐺	🍋	≪ ∢	D D 🔿 🖱	Δ	0
Over	view Link C	Details						
П	eCon Model ID	•	Model Status	Error	User ID	Last Date Modified	Lasl	Configured Model 🕨
	2		Configured		Admin	18-11-2008	15:	Infolog •
Н	5		Configured Configured		Admin Admin	18-11-2008 18-11-2008	15: 15:	
	7		Configured		Admin	18-11-2008	15:	
Н	10		New		Admin	24-11-2008	14:!	
H								
Н								
Н								
orce th	nis configuration (to be synchron	ized.					USD ceu bus 🗐 🗊

- On Confirmation: Each time, when e-Con detects a difference between the configuration version and active version of the model, is asked if the configuration must be synchronized with the active version of the model. The field "Synchronize" does not play any role in this case.
- Automatically: When e-Con detects a difference between the configuration version and active version of the model synchronization takes automatically place without any user interaction. The field "Synchronize" does not play any role in this case.

2.10 How to save my model without leaving the UI (posting)

The general task to save and process a configuration in MS Dynamics AX is the process task. (represented by a 'B' in the Button set up). However another possibility exists as well to save and process a configuration: the so called 'Post' action. Posting a configuration means that the XML document is posted in the request queue and via the Application Service processed in MS Dynamics AX. The UI is still open after this action (leave without exit). This can be especially useful when multiple configurations must be made with almost the same specifications. After posting a configuration the change can be done, posting, changing, posting etc.

To set up the post functionality few actions must take place:

- Adding a post button to the UI.
- Adding the Env datastructure to the model with BeforePost property.
- Adding a few rules to control the assignment of the right object id's.

Adding a Post button to the UI.

• Select the 'e-Con Setup' menu options from the 'Set Up' menu from e-Con.



🗾 Setup	^
e-Con Setup Option Query Import settings Modeler XML Labels Model Table Link	
Context Transition	
Repository	
Metadata groups	
Repository Element	
Smart set	

• Select 'Edit Environment' from the 'functions' button.

🙀 e-Con Setup (1 - ceu)	
<u>File Edit I</u> ools <u>C</u> ommand <u>H</u> elp	
🗋 🖶 🗡 📾 🗟 🚳 ኛ 🎏 🏂 🦷 🕪 🝕 🗸	D 🕪 📣 🖺 🛕 🞯
eCon Server Modeler Configure Repository MD Filter	
e-Con Server: localhost	E <u>d</u> it environment
Environment: default	Show License
	Data Fo <u>l</u> ders
	USD ceu bus 🗐 🗊

• Add the letter 'Q' or 'X' to the buttons field. Every character here represents a button. The 'Q' represents the Post button the 'X' represents the Post and Exit button.

UI Settings	
Buttons	?+-PBREQ

Adding Env.BeforePost structure element to the model

Environment
🛄 📕 BeforePos



Adding rules to control the object ID.

The object ID is the number which the configuration and XML file becomes after the save or post action. There are some special functions to control the number (object id) to assign to the posted configuration.

Furthermore two environment variable exist 'Env.BeforePost' and 'Env.AfterPost'. The 'BeforePost' becomes true just before the post action, the 'AfterPost' becomes true after the post action. These environment variables allows to trigger and execute rules just before and or after the posting from a configuration.

- Enter a rule to retrieve an new object number. This can be done with the function CallStringFunction(CONNECTION;"GetObjectId")
- Enter a rule to assign this Object number to the document to be saved. This can be done with the function SetArg("saveas"; OBJECTID)

Example from the Sales Order Demo model.

ld:	Get New Object ID after post action								
Label:	Get New Object ID after post action								
Condition:									
1 Env.Bef	orePost								
Implication:									
<pre>1 OBJECTID = CallStringFunction(CONNECTION; "GetObjectId");</pre>									
<pre>2 Env.BeforePost = not(SetArg("saveas"; OBJECTID))</pre>									



Chapter 3 Troubleshooting

This chapter explains how to address error messages. First, we discuss the quickest ways to address commonly occurring error messages, like "There are errors in the rules." Unfortunately, sometimes other sorts of errors also occur, like "Loop detected" or simply a model not performing as you expected. In the second section of this chapter, we will outline a procedure for addressing these other types of errors.

3.1 Common Procedure for Resolving Errors

In this section, we will outline a procedure for addressing errors. Sometimes the error message "Loop detected" appears or a model simply does not perform as you expected. It's often difficult to determine what's causing the problem, especially when you're dealing with a large or detailed model.

Tips & Tricks:

The error message "Loop detected" occurs when e-Con finds a loop in the rules. For example: The implication "A = A + 1" will cause this error message to appear. The rules engine is declarative, which means that every time "A" is changed, this rule will be executed. But executing this rule causes A to be changed, causing the rule to be executed, causing a change in A...and so on. e-Con detects this loop in the rules and provides the error message "Loop detected".

There is a helpful function to understand what happens in the model. Sometimes your model does not give an expected outcome or behavior. With the aid of the "?" button (How and Why) in the Front-end you can check how a certain value is calculated. You can also understand which rule(s) the member takes its value from.

How it works:



When the "?" button is clicked the cursor changed to a hand. This hand can be moved to a field in the front end.

A right mouse click at the field in the UI offers you the next screen:



	e-Con 4.0 Explanation Facility								
Engine context	eDoor4		Member context	eDoor4					
Member	Door.Length		Label	Length					
Value	2200		Туре	Double					
Length	0		Index	-1					
Default	2200		Previous	0					
Filter			Fieldfilter						
Attributes	P-*ERSV		Style	selectdefault: true					
Table ID			Field ID						
Rules	1:8,37,41,42,43,5	1:8,37,41,42,43,50							
Active Rule	Member set by us	er							
Condition									
Implication									
Rule context									
Select member	Door.Length					Go			
Context	© Member	O Rule O	Engine						
Expression					A	Evaluate			
					-	Clear			
Result									

In this screen the next fields are available: *Engine Context:* The parent model running.

Member Context:

The (sub)model the member is located.

Member

The member of the model the How & Why function is applied to. Actually the member from the UI field selected.

Label

The label from the selected member.

Value

The value from the selected member

Type Type from the selected member



Length

Length from the selected member

Index

Index from the selected member. Actually this only make sense when the member is part of an array (so called repeatable entity). When the member is not part of an array the value is always '-1'.

Default

The default value from the selected member. When there is no default value set for the member this field is empty.

Previous

The previous value from the selected member .

Filter The Filter applied to the member.

Attributes The attributes applied to the member.

Style The styles applied to the selected member.

Table id

The table id from the related table from AXision (Only applicable for field properties)

Field Id The eventually field id from the related field from AXision (Only applicable for field properties)

Rules

Where used from the member. The where used are the rule numbers where the member is used in.

Active Rule

The rule(s) description involved in the calculation from this field



Condition The condition from the active rule

Implication The implication from the active rule

Rule Context The (sub) model in which the rule is executed.

Select member

The member analyzed. It's possible to key in a member from the model to be analyzed as well.

Context

Three possibilities to select from:

- Member:
- Rule:
- Engine:

Expression

A rule expression can be entered here.

Result

The result from the above typed expression. This is calculated after clicking the activate button

Button 'Go'

To analyze the member entered in the 'Select Member' field.

Button 'Evaluate'

To calculate the expression as keyed in the 'Expression' field

Button 'Clear'

To clear the 'how and why content'. All fields will be blanked.

Member Model Path:

The path in the data structure to the selected member.



Rule Model Path:

The location of the rule where the value derives from. This is especially useful when there are sub models. This path locate in which model the rule is available.

Condition:

The condition of the rule where the value derives from.

Implication:

The implication of the rule where the value derives from.

3.2 How to restore erroneous lines.

It could happen that the processing of the configuration (xml object) in MS Dynamics AX fails. The configuration is saved as an xml file at the file system, however processing in Dynamics AX fails for some reason. This is of course indicated by a warning message but besides that the "error" field is checked for that particular configuration. By selecting the "Configured Models" button ftom the e-Con Generic model menu for a particular e-Con model an overview is displayed from all configurations. One of the columns shown here is the "error" field. That field is checked for configurations that are not right processed in the back end.

T Co	nfigured Model	s (1 - ceu) - M	No.: EDOOR35,	1, No.:	EDOOR3	5		_O×	
Eile	<u>Eile E</u> dit <u>T</u> ools <u>C</u> ommand <u>H</u> elp								
	🗈 🔒 🗡 🖶 🗟 💯 🌃 豚 🥋 🅪 📣 🔹 🕨 🖘 🖹 🛕 🎯								
Ove	Overview Link Details								
	1							1	
	eCon Model ID	Synchronize	Model Status	Error	User ID	Last Date Modified	Last Tir	Configured Model 🕨	
	2		Configured		Admin	18-11-2008	15:36:0	Infolog	
	5		Configured	◄	Admin	18-11-2008	15:41:		
	6		Configured		Admin	18-11-2008	15:47:		
	7		Configured		Admin	18-11-2008	15:50:		
	10		New	~	Admin	24-11-2008	14:58:0		
	1								
	1								
•									
Cartin	wating status								
Conrig	uration status							USD ceu bus 🗐 🗇 🎵	

In the "Configured Model" menu from this table a special function "Process" is available. With this function a configuration with an error, that isn't stored in Dynamics AX, can be reprocessed. This means actually, that the linked xml document is reprocessed in Dynamics AX. This functions allows you to process the configuration again after the solving the problem. Information isn't gone it can just be reprocessed with this function.



Process
Configure
Key values
Included objects
Report

3.3 Tracing of XML

3.3.1 Tracing of request and response messages

In the e-Con Application XML input / output logging can be activated for the Application Server. All requests and responses running through the Application Server to Dynamics AX are logged. Both for e-Con model queries and e-Con studio queries.

Go the 'Application Server' in the 'Periodic' menu.

🞑 Periodic	^
Application Server	

Select the 'General' Tab.

👿 e-Con Application Serve	er (1 - ceu)	
<u>File E</u> dit <u>T</u> ools <u>C</u> omm	and <u>H</u> elp	
🗋 🔒 🗡 🖷 🗟 🖟	। 🖅 🏗 🍞 🏋 । 🕸 🔹 🕨 🔊 । 🖄 । 🕲	
Overview General		<u>S</u> tart server
General	State	Stop server
Application Server:	aConServer Stop: No 💌	
Run as:	Client Status: Started 💌	
Custom Reader Class:	Last Date Modified: 25-11-2008	
Private queue path:	VPC-ECON4-AX200\private\$\nav Last Time Modified: 17:02:04	
Windows Service name:	Dynamics AX Service WinService	
Queue timeout (ms):	0 Trace: No 🔽 😂	
Timer interval (ms):	Directory: c:\temp\	
	Long queries: 0	
Application server to be used.		USD ceu bus 🗐 🗐

Activate the trace by changing the 'Trace' setting from 'No' to 'Yes'. Select a folder as trace output as well. This can be done in the 'Directory' setting.

3.3.2 Tracing of configuration XML

It is possible to log the XML file that is created during configuration and processed in MS Dynamics AX. This is called the full XML that will be processed by Dynamics AX to create the records in Dynamics AX.

Go to the e-Con setup in the Setup.



e-Con Setup Option Query Import settings Modeler XML Labels Model Table Link	^
Import settings Modeler XML Labels	
Modeler XML Labels	
XML Labels	
Model Table Link	
Context Transition	
Repository	
Metadata groups	
Repository Element	
Smart set	

Select the 'Configure' tab page.

🕎 e-Con Setup (1 - ceu)	- 🗆 🗵
<u>Eile Edit T</u> ools <u>C</u> ommand <u>H</u> elp	
□ 🔒 🗙 🖶 🗟 🖅 🖫 🐺 📡 🅪 < ♦ 🕨 🔶 🖄	<u>\</u> 🖉
eCon Server Modeler Configure Repository MD Filter	
Multi Language: 🔟 💌	
User Language: Default	
Context Driven: No	
Trace settings	
Trace: No 💌	
Directory:	
Multi language features on/off. USD ceu bus	9 8

Activate this tracing by changing the 'Trace' to 'Yes'. Specify the trace location by selecting a folder in the field 'Directory'.

Now when a model is used to configure some XML files are created.

- Arguments file
- Change document
- Full xml

3.4 List with most common syntax errors

The most common error descriptions that may appear during compilation of the e-Con rules are listed in the table below. Possible causes are also provided.

	Error Description	Possible Cause
--	-------------------	----------------



Implication expected	You added an unnecessary semicolon ";" after the last implication in the rule.
Variable expected	You forgot to enter a variable in, for example, an assignment.
"(" expected	You forgot an open parenthesis "(".
")" expected	You forgot a closed parenthesis ")".
";" expected	You forgot to add a semicolon ";" after an implication, in spite of the fact that there is another implication in the rule.
Undefined member (the member concerned is noted instead of the dots):	You made a typo in the member name, or the member has been changed, or the member is no longer available in the data structure.
Undefined attribute (the attribute concerned is noted instead of the dots):	You made a typo in the attribute name.
Member of attribute is undefined (the attribute concerned is noted instead of the dots):	You made a typp in the member of the relevant attribute or the member is changed or no longer available in the data structure.
Undefined function (the function concerned is noted instead of the dots):	You made a type mistake in the function.
Unexpected symbol:	You made a typo in the rule.
"else" expected:	The if-then-else structure isn't set up correctly; you most likely forgot the "else" statement.
"then" expected:	The if-then-else structure isn't set up correctly; you most likely forgot the "then" statement.
"end" expected:	The if-then-else structure isn't set up correctly; you most likely forgot the "end if" at the end.
"if" expected:	The if-then-else structure isn't set up correctly; you most likely forgot the "end if" at the end.
"#" expected:	You forgot the number sign "#" in the declaration of the array.
Index variable "#" not declared (the variable concerned is noted instead of the dots):.	You used an array in an implication, but forgot to define this array in the implication concerned.
Attribute is read-only (the attribute concerned is noted instead of the dots):	Some attributes are read-only. In a rule, an assignment is applied to a member with a read-only attribute.



3.5 List with most common .Net compile errors

The most common error descriptions that may appear during compilation of the e-Con model to the .Net run time assembly are listed in the table below. Possible causes are also provided.

Compile Error Description	Possible Cause
Cannot implicitly convert type 'int' to 'string'	A type mismatch between two properties. Probably a comparison or assignment is done between properties from an unequal type.
	(This error can, of course, also happen for other data types)
Type of conditional expression can't be determined because there is no implicit conversion between 'int' and 'bool'	A type mismatch between a function and property or value. Mostly this error occurs when the MsgBox(<string>) function is used. MsgBox("String") <> 1 instead from only MsgBox("String") will solve this error.</string>
Cannot implicitly convert type 'eCon.Base.EConCollection' to 'string'	A type mismatch between two properties, a string value can not be assigned are compared with a property used to store options. (<member>@options = "string" or <member> = {} both will generated this compiler error)</member></member>
The best overloaded method match for 'eCon.Data.Functions.GetOptions(eCon.In terfaces.IEConClass, string, bool, string, string, params object[])' has some invalid arguments	The data type from one of the arguments of the function isn't correct. The number of the argument is shown in the next compile error.
Argument '3': cannot convert from 'string' to 'bool'	This message follows always the former messages. This error indicates that the data type from the argument from the function is not valid.
Operator '>' cannot be applied to operands of type 'string' and 'string'	Operators can not be applied to a string value. Convert the string first to a double or long before comparing can take place.
Unreachable code detected	It's just a warning and it can be ignored.
Could not write to output file '' The process cannot access the file because it is being used by another process. '	This mainly happens when the interface model or a sub model is generated. The dll from the interface is still used after ending the configuration process. Close and reopen the Attain client to solve this problem.
'Interface0' does not contain a	The " <property>" as specified in the</property>



definition for ' <property>'</property>	error message, is a property from a sub model and used in the current model. This property is missing in the interface
	for that particular model.