

KI00356A 2018-01

1 Function and area of use

iX Developer has a built-in function for converting your old Information Designer/E-Designer project to an iX Developer project.

This startup document will provide help regarding what to consider when choosing a replacement HMI in the iX series and the easiest way of getting started with your converted project.

2 About the start-up document

This Start-Up document should not be considered as a complete manual. It is an aid to be able to start up a normal application quickly and easily. For further information we refer to the iX Developer reference manual and User guide.

- MAxx831x (Reference manual)
- MAxx832x (User Guide)

This document and other Start-Up documents can be downloaded from <u>www.beijerelectronics.com</u>.

Please use the address manuals@beijerelectronics.com for feedback on our Start-Up documents.

3 Selecting the right replacement

The following chapter will describe the different models to help you select the right replacement model.

3.1 General differences

EXTER/E1000 HMI's are available in both touch- and key-based HMI's.

X2 HMI's are only available with a touchscreen configuration (but it is possible to connect external physical buttons, keyboards etc.).

If your original project is for a key based EXTER/E1000 HMI, there are several points you need to take into consideration compared to if it is a touch based HMI.

For instance, key based push events are handled differently.

The navigation in a converted iX project will also behave differently compared to the navigation in a key based EXTER/E1000 HMI.

Since all navigation will need to be redesigned for the touch based iX project, more screen surface will be needed (since you will need to add touch buttons that handle the navigation).

An EXTER/E1000 HMI with touch screen will be more graphically oriented and will be more easily converted to an iX project and generally, you will be able to convert to a matching X2 HMI of the same size.

An EXTER/E1000 HMI with lots of lists, texts and less focus on the graphical interface will usually need to be converted to a larger X2 HMI to be able to better handle the lists and texts in a good way.

But with some of the newer functions available in iX or simple reorganizing, you will be able to better optimize the project.

Differences regarding conversions will be discussed in more detail later in this document.

3.2 Matching HMIs

Below is an estimation table for which X2 HMI can replace your EXTER/E1000 HMI. All suggestions have the same or larger screen size and resolution.

From EXTER	From E1000	To X2 series	Cut out - EXTER/E1000	Cut out - X2 series
EXTER K10	E1012	X2 base 5	121 x 80 mm	161 x 93 mm
EXTER K20	E1022	X2 base 5	120 x 138 mm	161 x 93 mm
EXTER K30	E1032	X2 base 7/ X2 pro 7	166 x 149 mm	186 x 136 mm/ 189 x 128 mm
EXTER K60	E1060/E1062	X2 pro 7	240 x 130 mm	189 x 128 mm
EXTER K70	E1070	X2 pro 7/ X2 pro 10	246 x 139 mm	189 x 128 mm
EXTER K100	E1100	X2 pro 12	343 x 208 mm	324 x 226 mm
EXTER T40	E1041/E1043	X2 pro 4	139 x 105 mm	130 x 89 mm
EXTER T60	E1061/E1063	X2 pro 7	180 x 130 mm	189 x 128 mm
EXTER T70	E1071	X2 pro 7	189 x 138 mm	189 x 128 mm
EXTER T100	E1101	X2 pro 12	265 x 206 mm	324 x 226 mm
EXTER T150	E1151	X2 pro 15	356 x 279 mm	394 x 270 mm
EXTER T70-bl	N/A	X2 marine 7	189 x 138 mm	189 x 128 mm
EXTER T100-bl	N/A	X2 marine 15	265 x 206 mm	394 x 270 mm
EXTER T150-bl	N/A	X2 marine 15	356 x 279 mm	394 x 270 mm
EXTER T70-sr- bl	N/A	X2 marine 7 HB	189 x 138 mm	189 x 128 mm
EXTER T100-sr- bl	N/A	X2 marine 15 HB	265 x 206 mm	394 x 270 mm
EXTER M70	N/A	N/A	N/A	N/A

Notes: Adapter plates are not offered for X2 units. EXTER/E1000 models labeled CI D2 can be replaced by X2 extreme units. Sunlight-readable models are available in the X2 marine and X2 extreme line. Cut out dimensions are listed as W x H.

3.3 Communication

All X2 HMI's support serial communication via 9-pin D-SUB.

All X2 HMI's have ethernet interface (RJ45 contact).

3.3.1 Communication drivers

Below is a list of all available drivers.

Are you missing a driver? Please contact your closest Beijer office.

Con	munication Drivers	iX iX Developer	Information Designer/E Designer
ABB ABB Comli Slave			
	ABB Comli Master		
	ABB Modbus AC500	0	
	ABB Freelance		0
	ABB TotalFlow		0
Allen-Bradley	AB ControlLogix		
	AB DF1		
	AB DH485		
	AB SLC/PLC5 Ethernet		
	AB MicroLogix Ethernet		
	AB Ethernet/IP		
Altus	Altus Alnet I		
Animatics	Animatics SmartMotor		
B&R	Bernecker+Rainer Mininet		
Baumueller	Baumueller bmaxxOS	0	
Beckhoff	Beckhoff ADS		
	Beckhoff Modbus	0	
	Beckhoff ADS Symbolic		0
Bosch Rexroth	Bosch Rexroth IndraDrive		
Cactus	Cactus ASCII		0
CAN	CANopen (Expansion module)		0
	FreeCAN (Expansion module)		0
J1939	J1939 EM	$\overline{\mathbf{\Theta}}$	
CODESYS	CODESYS ARTI		
	CODESYS Soft Control Direct Access		0
Cognex	Cognex DVT	0	
	Cognex In-Sight		\bigcirc
Control Techniques	Control Techniques Unidrive		

CIMON	CIMON	0	
СТС	CTC Serial Binary	•	•
Danfoss	VLT FC Drive	0	
Delta Tau	Delta Tau PMAC/UMAC		
Delta	Delta DVP	0	
	Delta PLC Modbus ASCII		0
Demo	DEMO		
ELMO	Elmo Maestro	0	
Emerson	EMERSON Modbus Master		
Eurotherm	Easy Serial 631		Θ
Fatek	Fatek Facon		
FESTO/BECK	FESTO/BECK FST CI	0	
	FESTO/BECK FST CI Ethernet	0	
Galil	DMC series		
GE Fanuc	GE Fanuc Ethernet		
	GE Fanuc SNPX		
Generic CAN open	Generic CAN Open	0	
Generic Profibus	Generic Profibus driver		
Giddings&Lewis	G & L Motion Control Serial		
	G & L Motion Control Ethernet		
Hitachi	Hitachi H-COMM		
IAI	XSel		
	RoboCylinder	0	
Idec	IDEC FA 1:1	0	
	IDEC FA 1:1 (expanded)	0	
	IDEC Micro		
Johnson Control	JCONTROL		
KEB	COMBIVERT		
Keyence	KEYENCE KV-Series		
Коуо	Koyo DirectNET		
	Koyo ECOM		
	Koyo K-Sequence		
Lenze	Lenze LECOM A/B		
LIYAN Electric	LIYAN EX	0	Θ
LS Industrial Systems	Glofa		
	Master-K		
Matsushita	MEWTOCOL-COM		

Mitsubishi	Alpha2		
(MELSEC)	A-Series (C24)		
	A-Series (CPU)	•	
	Freqrol FR-A PLC	•	
	FX Series Serial		
	MC Protocol		
	QnA/Qnn Profibus DP		
	FX Series ADP/BD		
	MR-J2/MR-J3-T		
	QnA/Qnn Serial (CPU)	•	
	QnA/Qnn-Series (C24)	•	
	QnA/Q-Series (E71) Ethernet	•	
	FX3U-ENET	•	0
	MELSERVO MR-J2/MR-J3-T	•	0
Modbus	Modbus Master RTU/ASCII	•	
	Modbus Master RTU/ASCII IEC	0	•
	Modbus Slave	•	$\overline{\mathbf{Q}}$
Moeller	Moeller PS4 series (SUCOM-A)	Õ	•
NMEA 0183	NMEA 0183	•	
OMRON	OMRON FINS	•	
	OMRON Host Link		
Parker	GeParker6K		
Regin	EXOline		0
SAIA	S-BUS Serial/Ethernet		
SEW	MoviLink/SMLP	0	
SIEMENS	SIMATIC S5 3964R	$\overline{}$	
	SIMATIC S7 MPI (EM)	$\overline{}$	
	SIMATIC S7 MPI (HMI Adapter)		
	SIMATIC S7 MPI (Expansion mod.)		0
	SIMATIC S5 PG/AS511		
	SIMATIC S7 3964R	0	
	SIMATIC S7 ISO over TCP/IP		
	SIMATIC S7 MPI Direct		
	SIMATIC S7 200 PPI		
	SIMATIC S7 Profibus DP	0	
	SIMATIC TI500		
Telemecanique/	TSX UNI-TELWAY		

Schneider Electric	Schneider Electric Modbus		0
Toshiba	Computer Link	0	
WAGO	WAGO Modbus TCP		
Vigor	Vigor M/VB-Series		
	Vigor VS Series		0
Yamaha	Yamaha VIP		
Yaskawa	Yaskawa Memobus Master		
	Yaskawa FSP	0	
	SMC series	0	
YET	YET XtraDrive	0	
Yokogawa	Yokogawa FA-M3		

3.4 Tags

In iX, exponents must be configured for the control the tag is bound to.

Format	Data type Information Designer/E- Designer	Data type iX Developer	Range
Bit	Bit	BIT	0 and 1
Bool	-	BOOL	Values can be "false" (0) or "true" $(1)^1$
Signed 16-bit	Signed 16-bit	INT16	-32,768 - +32,767
Unsigned 16-bit	Unsigned 16-bit	UINT16	0-+65,535
Signed 32-bit	Signed 32-bit	INT32	$-2,147,483,648 - +2,147,483,647^2$
Unsigned 32-bit	Unsigned 32-bit	UINT32	$0 - +4,294,967,295^2$
Float with exponent, 64-bit	-	DOUBLE	1.7E308 ¹
Float with exponent, 32-bit	Float with exponent	FLOAT	±3.4E381
7 x Signed 16-bit	-	DATETIME	An Analog Numeric object can present the time format ³ . See help for more information.
String	String	STRING	Storing character strings in tags. For this data type, size can be selected.
BCD Float	BCD Float	FLOAT ⁴	0 – 9999,9999
BCD 16-bit	BCD 16-bit	INT/UINT16 ⁴	0 - 9999
BCD 32-bit	BCD 32-bit	INT/UINT32 ⁴	0 - 99999999
HEX 16-bit	HEX 16-bit	INT/UINT16 ⁴	0 - FFFF
HEX 32-bit	HEX 32-bit	INT/UINT32 ⁴	0 – FFFF FFFF

1. Controller representation for this type is dependent on the driver software.

2. Regarding resolution of values in 32-bit format: both iX Developer and the operator panel can handle up to six decimal digits of an integer 32-bit value. Remaining digits will be truncated or changed into zeros.

3. yyyy = year, MM = month, dd = date, hh = hour, mm = minute, ss = second.

4. Displayed value have to be changed for the specific object, not the tag in general.

4 Import Project

4.1 Import Project to iX Developer 2.0

iX Developer supports the function of project import from Information Designer/E-Designer and H-Designer.

The following functions are supported by the import with iX Developer 2.0, up to 2.30 SP1:

- Text Library
- Tag list
- Alarm Server
- Multi Language

During the import, a log is generated where you can find which objects and functions where not successfully imported. The log file can be saved for later trouble shooting.

Note! Before you continue, make sure that:

- The EXTER/E1000 project is saved in the latest version of Information Designer (version 7.52)/E-Designer (version 1.52).
- That objects in the project are ungrouped.
- That a matching HMI has been decided.
- That you have read about the limitations in the end of this chapter.

• Start iX Developer. Select *Import Project* at the splash wizard.

iX Develope	r 2.0
Create New Project Create a New Project using the Wizard	Recent Projects Samples Demo_PC_1024x768 Demo_PC_1280x1024 Demo_OTEM 47
Open Project Open an Existing Project	Demo_T10A Demo_T12B Demo_T15B Demo_T4A
Upload from target Upload a project from a target	Demo_T7A Demo_TA100 Demo_TA150 Demo_TA150_GridMenu Demo_TA70
From Information Designer	Sample_ActionMenu Sample_Alarm Sample_Alias Sample_Diagnostic
Getting Started User's guide	Open Exit

• Press *Browse*... then navigate and select which project to import.

Choose yo	our target in the menu Choose your preferred co	ontroller Se	lect the location of your pi
DEIDW	or OPC server in the mer		une menu below
			Next >
	Import Project		
	Select a project to import		< Previous
File:		Browse	
Target Type:	iX T7B		Finish
1	Caus Draiget		Cancel
	Salve Project Select a new name and location for project		
Name	Project52	_	
ivame:			
Location:	C:\Users\EAO\Documents\IX Developer 2 Projects	Browse	

In the list *Files of type*, select which type of project you wish to import.

In this case, select Information Designer/E-Designer:

🗴 Select project file to import		
Computer ► 0	S(C:) ▶ temp ▶	✓ 4y Search temp
Organize 🔻 New folder		III 🕶 🗍 🔞
I Computer 약 Network 종 Control Panel 한 Recycle Bin	E Name	Date modified Type Size
File name:		✓ Information Designer Files (*.cp. ✓ <u>Information Designer Files (*.cpa)</u> E-Designer Files (*.mpa) ADP Files (*.a2i)

- Select your target type. Either PC or a specific X2 HMI.
- Select target folder and project name for the new converted project.

Choose yo Choose yo below	Target ur target in the menu Choose Controller Choose your preferred controller or OPC server in the menu below	Select Location Select the location of your projution in the menu below
*	Import Project Select a project to import	Next >
File:	C:\temp\IDtoiXconversion_original\ID_Project Browse	
Target Type:	IX TIOA •	Finish
	Save Project Select a new name and location for project	Cancel
Name:	T100_to_T10A_Conversion	
Location:	C:\Users\EAO\Documents\iX Developer 2 Projects Browse	

• Press *Finish* when done.

- Select matching controller. It is important that this step is made correctly for iX to be able to handle the imported device addresses from the original EXTER/E1000 project.
- In this example, the SIMATIC S7 ISOoverTCP driver is used in the EXTER/E1000 project. The matching driver will be the SIMATIC S7IsoTcp.

Select New Controller		100
Old Controller 1: BES7lso Tcp.S7lso Tcp.1 Old Controller 2:	New Controller 1: BES7IsoTcp_Pre2.S7IsoTcp_Pre2.1 New Controller 2:	Select Controller Select Controller
Choose Controller Choose your preferred controller or OPC server in the menu below		OK
Controllers Select brand SAIA Schneider Electric SIMATIC WAGO	Select protocol S7 MPI Direct S7IsoTcp S5 PG/AS511 S7 200 PPI S7 MPI (EM) S7 MPI (HMI Adapter) TISOO	
OPC Classic Server Localhost Remote Server OPC Server:	Browse Refresh	
URL:	OK Cancel	

• When you have selected your new controllers, press the OK button.

4.2 Import project to iX Developer 2.40

In iX Developer 2.40 which is released in April 2018, additional functions and minor fixes are added to further facilitate the import to iX. Please note that these added functions are only available in iX Developer 2.40 or later versions. They are not available in iX Developer 2.0.

- A new keyboard with text input field that is similar to a touch key in Information Designer/E-Designer is added to facilitate value input when working with Analog Numeric.
- Ensure pictures are the correct size after import
- Support of dynamic text conversion
- Analog Fill and Digital Fill objects are converted in iX as a rectangle/circle object
- Added an option in iX to enable notification in display when VNC is active
- Support of rectangle border dynamics whose border is connected to a signal
- Support visibility dynamics
- Improve the UI flow of the import process.
- New conversion log
- Minor fixes:
 - Correct conversion of Analog Numeric object's boarder setting
 - Correct conversion of Analog Numeric object with decimals
 - Correct conversion of Picture Enable property for picture object
 - Correct conversion of Text Enable property for text object
- Start iX Developer. Select *Import Project* at the splash wizard.

iX Develope	er 2.40
Create New Project Create a New Project using the Wizard Open Project Open an Existing Project Upload from target Upload a project from a target	Recent Projects Samples Project6 Project5 Project4 Project2 Project1
Import Project From Information Designer Getting Started User's guide	Open Exit

Choose Yo Choose yo below	Farget ur target in the menu Choose Controller Choose your preferred contro or OPC server in the menu be	ller low	ct Location t the location of your proje menu below
File:	Import Project Select a project to import	Browse	Next >
Target Type:	(iX T7B 🔹		(Finish)
	Save Project Select a new name and location for project		Cancel
Name:	Project52		
Location:	C:\Users\EAO\Documents\iX Developer 2 Projects	Browse	

• Press *Browse*... then navigate and select which project to import.

• If the Information Designer/E-Designer project to be imported to iX Developer uses color dynamics or contains a few images, it is recommended to select both import options to ensure the best result. Once the desired options are checked, press *Import* to continue the import process.

iX	Import options for iX Developer project Please select the import options that match your demands Standard options will always be imported. Choose extra options below.	×
	All options	2/2
	Import color dynamics using color map	
	Resize all images to fit the new panel	
Bac	k	Import

- Select matching controller. It is important that this step is made correctly for iX to be able to handle the imported device addresses from the original EXTER/E1000 project. Then *OK*
- In this example, the SIMATIC S7 ISOoverTCP driver is used in the EXTER/E1000 project. The matching driver will be the SIMATIC S7IsoTcp.

Old Controller 2: New Controller 2:	Select Controller
	ОК

Choose Controller Choose your preferred controller server in the menu below	r or OPC
 Controllers Select brand SAIA Schneider Electric SIMATIC 	Select protocol
© OPC Classic Server © Localhost	S7 MPI (HMI Adapter)
OPC Server:	Refresh
O OPC UA Server	
	OK Cancel

• The time it takes to import an Information Designer/E-Designer project to iX Developer depends on the size and the complexity of the project. It may take up to several minutes. During the process, a dialogue is continuously updated with the status of the import.



• When the import is finished, a dialogue is shown with the import status, including a statistic of the conversion log. The log is automatically saved in a folder. The path of the log is also displayed in the dialogue. It is possible to open the log from the dialogue as well. Click *Open log* to open the conversion log file. Click *Close* to proceed to the imported project in iX Developer.

	Cor	version co	mpleted!	×
	<mark>Ø Error</mark> 26	⁽¹⁾ Warning 148	Information 81	
C:\Users\shar	Your log	is saved in you s\iX Developer 2.4	r project folder: 0 Projects\Project3\ConversionLog\	3
	c	ose	Open log	

• Once the log is open, it displays a summary of all the messages generated during import. They are also sorted into Error, Warning and Info. Each item is assigned with an ID number to facilitate search.

Log messages			2018-1-26 13:48:39
🖵 All (255)	Ø Errors (26)	O Warnings (148)	© Info (81)
Warning 1 Conversion discarded for <5	SetupIndex>		
Warning 2 Conversion discarded for <s< td=""><th>SetupClock></th><td></td><td></td></s<>	SetupClock>		
Warning 3 Conversion discarded for <s< td=""><th>SetupCountry></th><td></td><td></td></s<>	SetupCountry>		
Warning 4 Conversion discarded for <s< td=""><th>SetupOnline></th><td></td><td></td></s<>	SetupOnline>		
Warning 5 Conversion discarded for <s< td=""><th>SetupUI></th><td></td><td></td></s<>	SetupUI>		
Warning 6 Conversion discarded for <s< td=""><th>SetupPrinter></th><td></td><td></td></s<>	SetupPrinter>		
Warning 7 Conversion discarded for <f< td=""><th>PLCPort></th><td></td><td></td></f<>	PLCPort>		
Warning 8 Conversion discarded for <n< td=""><th>NetPort></th><td></td><td></td></n<>	NetPort>		
Warning 9 Conversion discarded for <f< td=""><th>PTNPort></th><td></td><td></td></f<>	PTNPort>		

• Limitations

Certain functions, like recipes and data logging (Data Logger) work differently in iX Developer and you will need to reconfigure these functions in your converted project.

Functions to consider in your converted project:

- Text Library/Message Library Works without issues.
- **Tag list/Name List** Indexing, poll groups and poll interval must be reconfigured manually.

Gain/offset settings are now global and found in the tags editor Indexing and poll groups can be converted via manual import of the Name list.

• Alarm Server/ Alarms – Properties for Alarms must be configured manually. Acknowledge notify must be configured manually and is replaced by the Alarm acknowledge property in iX.

To Printer has been replaced with Alarm Distributor Server function in iX.

• Multi Language – Works without issues.

Controller settings are not converted and must be manually configured.

Note! Always verify that the import has been correctly made for all functions.

5 Manual import of the name list

Below follows an example of how you can manually import the name list from Information Designer/E-Designer into iX Developer.

The correct controller must be used in the iX project to be able to import the name list from the Information Designer/E-Designer project.

• Export the name list from Information Designer/E-Designer.



• Select the devices/tags belonging to the driver you wish to export. You are only able to export from one controller/driver at a time. Push Export...

Mana									
Name.	CA_P	RES							
Address:	MW4	52	up: 🚺 🔻 📖						
Comment:									
Data type:	Unsig	ned 16-bit 🛛 👻	-						
			INGEA.						
Match name li (affects Rebin	st signals w d and I/O B	ith object signals by a frowser)	ddresses only						
- Controller suster	ns								
1:S7 ISO ov	/er TCP/IP/	Update							
0 2:	2:								
🔘 Internal vari	Internal variables								
Properties &	Help	Delete							
				Export					
Name	1/0	Data type	Export						
CA_PRES	MW452	Unsigned 16-bit	=	Import					
FUR_PRES	MW502	Unsigned 16-bit	-						
Z1CACV	MW156	Unsigned 16-bit		Connect File					
Z1CAPV	MW152	Unsigned 16-bit							
Z1CASP	MW150	Unsigned 16-bit		Rebind					
Z1F0CV	MW206	Unsigned 16-bit							
Z1F0PV	MW202	Unsigned 16-bit		Undefined					
Z1F0SP	MW200	Unsigned 16-bit	-						
•	III		Þ	Exit					

- Select *Semicolon* as the separator, push *OK*.
- Save the exported tags to a file with a suitable name.

Separator	
Separator Semicolon	OK Cancel
Columns Name	ANSI file format
1	
Comment:	
Datatype	
3	
4	
Time group	
5	

- Start Excel (Excel 2003 is used in this example).
- Open the exported text file from Information Designer/E-Designer.

D 📴 🖬 🔒) 🖪 🗳 🍄 🛍	👗 🗈 🖺 • 🟈 🔊 • (* • 🧕	$\Sigma \rightarrow \stackrel{A}{Z} \downarrow \stackrel{Z}{A} \downarrow \coprod \stackrel{A}{\amalg} \stackrel{A}{ } \bigcirc \bigcirc$
Open			? 🔀
Look <u>i</u> n:	🛅 E-Designer	🖌 🕲 - 🗊 🖉	🗙 📸 🏢 🔻 Tools 🕶
My Recent Documents	Reference to ix-File	et	
Desktop			
My Documents			
My Computer			
Mu Natuork	File <u>n</u> ame:		
Places	Files of type: Tex	Files (*.prn; *.txt; *.csv)	Cancel

Text Import Wizard will be displayed automatically by Excel.

If it does not start up automatically, use Import Data and manually select your file:

📧 N	licrosoft Exc	el - Booká	2	and the second		and the second se					
	<u>F</u> ile <u>E</u> dit	<u>V</u> iew	Insert For	mat <u>T</u> ools	<u>D</u> at	a <u>W</u> indow <u>H</u> elp		_			
10	💕 🖬 l é	3 🕰 🕻	۵ 🏷 🖏	🗈 🛍 - 🥥	A ↓	<u>S</u> ort		0%	- (🛛 📮 🗄 Aria	I
: @	Snagit 🛃	Window	1			<u>F</u> ilter	+				
_	A1	-	fx.			F <u>o</u> rm					
	A	В	С	D		Su <u>b</u> totals			I	J	K
1		-				Va <u>l</u> idation					
2						Table					
4						– Text to Columns					
5						Consolidate					
6											
7						Group and Outline	•				
8 Q					î.	PivotTable and PivotChart Report					
10						Import External <u>D</u> ata	►	ě	Impo	rt <u>D</u> ata	
11						L <u>i</u> st	•	-	New	Web Query	
12					9	Refresh Data			New	 Database Ou	ierv
13									Edit (-
14									Eult C	Zuery	
16									D <u>a</u> ta	Range Prope	rties
17								" [?]	Paran	neters	

• Select *Next*.

Text Import Wizard - Step 1 of 3	
The Text Wizard has determined that your data is Delimited. If this is correct, choose Next, or choose the data type that best describes your data.	
Original data type Choose the file type that best describes your data: Delimited Characters such as commas or tabs separate each field. Fixed width Fields are aligned in columns with spaces between each field. 	
Start import at row: 1 🚔 File origin: 437 : OEM United States 💌	1
Preview of file C:\Users\EAO\Documents\Startup Documents\namelistexport.txt.	
<pre>1 // Name file exported from Information Designer 1.52 Build 344 2 // Separator ;/semicolon 3 // Name;Address;Comment;DataType;Index;IOTimegroup 4 D220 P220 P240 P = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	
4 CA_PRES;MW452;;Unsigned 16-bit;;0 5 FUR_PRES;MW502;;Unsigned 16-bit;;0	
4	
Cancel < Back <u>Next</u> > <u>Finish</u>	

• Select *Semicolon* as the *Delimiter*. A preview will be shown in the lower textbox. If it looks correct, press *Finish*.

Text Import Wizard - Step 2 of 3
[·] This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.
Delimiters Treat consecutive delimiters as one Tab Space Other: Text gualifier:
Data greview
<pre>// Name file exported from Information Designer 1.52 Build 344 // Separator // Name CA_PRES FUR_PRES MW</pre>
Cancel < <u>B</u> ack <u>N</u> ext > <u>F</u> inish

The imported file should look something like this and have the correct column separation:

	A	В	С	D	E	F
	1 // Name file exported from Information Designer 1.52 Build 344					
1	2 // Separator	/semicolon				
	3 // Name	Address	Comment	DataType	Index	IOTimegroup
4	4 CA_PRES	MW452		Unsigned 16-bit		0
1	5 FUR_PRES	MW502		Unsigned 16-bit		0

• Save the file in the Excel format ".xls".

	<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>I</u> nsert	F <u>o</u> rmat	<u>T</u> ools	<u>D</u> ata	<u>W</u> indow
: D		<u>N</u> ew						Ctrl+N
: @	2	<u>O</u> pen						Ctrl+O
		<u>C</u> lose						
		<u>S</u> ave						Ctrl+S
1		Save <u>A</u> s	5					
3	s)	Save as	Web P	age				
4		Save <u>W</u>	orkspac	ce				
5	1	File Sea	ırc <u>h</u>					
7		We <u>b</u> Pa	age Prev	/iew				
8		Page S	et <u>u</u> p					
9 10		Prin <u>t</u> A	rea					•
11	۵	Print Pr	re <u>v</u> iew					
12	4	<u>P</u> rint						Ctrl+P
14		Propert	t <u>i</u> es					



It is a good idea to export a sample of a tags list from iX to later use as a template when you want to create files to import.

In this example, we only go over the differences between the two Export/Import formats (see below). Using the template as a guide for what you need to change should help you be able to convert your name list to a file that can be imported in iX Developer.

• Start iX Developer 2.0.

Let us use the following tag as an example, *AiCurrentPump1*:

4	// Separator	/semicoion					
3	// Name	Address	Comment	DataType	Index	IOTimegroup	
4	AiCurrentPump1	D300	Analogue input	Float without exp.		0	ł

• Configure an identical tag in iX Developer 2.0.

T	ags Controllers Tr	riggers Poll (Groups Index F	Registers			
	Home Add Delete Deta Exchange Others Filter Cross Reference Show Selection Import Import						Import •
Ľ				j (J	
	Tag			Controllers		Others	
	Name 🔻	Data Type	Access Right	Data Type	Controller1	Description	Poll Group
>	AiCurrentPump1	DEFAULT	ReadWrite	FLOAT	D300	Analogue input	PollGroup1

• Export the complete tag list.

Cross Reference Show Selection 🗸	Import
	Import complete taglist
Others	Export complete taglist
Description	Import tags to [Controller1]
inalogue input	Export tags from [Controller1]

• Select to export to Excel format. Select target filename.

🔜 Export Di	ialog		
Format:			
Excel file			~
Filename:			
– Columns —			
Col	lumn separator	:	
Co	omma		~
Col	lumns:		
] Name	🔽 DataType	Size
<			>
		Export Cancel	

Select a suitable name and press Export.

• Open the file you exported in Excel.

See explanation below covering the different properties and how they match up between Information Designer/E-Designer and iX Developer.

// Name	DataType Si	PollGroupName	IndexRegisterNumber	G,	Şue	Address_1	AccessRight_1	Description //
AiCurrentPump1	FLOAT 🔾 🔾	\ PollGroup1	0	1	$\langle -$	D300	None	"Analogue input"

Informa Designer/E-	ation Designer	iX Developer		
Name		Name		
Address		Address_1		
Comment		Description		
DataType		DataType		
Index	> I1 > I2 >	IndexRegisterNumber 0 (Default) 1 2 Etc.		
IOTimegroup	0 > 1 > 2 >	PollGroupName PollGroup1 (Default) PollGroup2 PollGroup3 Etc.		

How to modify the export file from Information Designer/E-Designer:

• Remove the two top rows.

			В		
	1 //	Name file exporte	ed from Information Designer 1.52 b		
1	2 1//	Separator		/semicolon	
	8	Cu <u>t</u>		Address	Comment
	Copy]	M1980	
		2007]	M1981	
	2	<u>P</u> aste		M1982	
-		Paste <u>S</u> pecial	s[1]	R520	
		Incort	s[2]	R521	
	Insert		s[3]	R522	
F		<u>D</u> elete		R500	
1	Clear Contents		1	R501	
1				R502	

• Change names of the columns to match them with what iX Developer understands.

Information Designer/E-Designer:

1 // Name	Address	Comment	DataType	Index IOTimegroup
-----------	---------	---------	----------	-------------------

iX Developer:

1	// Name	Address 1	Description	DataType	IndexRegisterNumber	PollGroupName
				11	5	

• Replace the incorrect data types.



For example:

Find and Rep	lace	? 🗙
Find Rep	lace	
Find what:	Signed 16-bit	~
Replace with:	INT16	*
		Op <u>t</u> ions >>
Replace <u>A</u> ll	Replace Find All Eind Next	Close

Microsof	t Excel	×
(į)	Excel has completed its search and has made 702 replacements	
	ОК	

• Import your tags list in iX. Select *Excel file*.

Columns Visible Delete Scaling Data Exchange	Filter	Cross Reference	Show Selection 👻	Import 👻
🛞 Import Tags				×
Import module:	Filename:			
Excel file •				
More				
Column separator: Import start at row:				
Comma • 1				
Save mapping as import module		Refresh	Import	ncel

Save As							? ×		
Save in:	🔋 Startup D	ocuments	- 4	- 🔰 🖏	X 📷	Tools	-		
	Name	Date modified	Туре	Size					
My Recent	Inamelistexport.xls								
Documents	ameliste 🚰	xport_modified.xls							
Desktop									
My Documents									
My Computer									
My Network	File <u>n</u> ame:	namelistexport_mod	lified.xls			-	<u>S</u> ave		
Places	Save as type:	Microsoft Office Exc	el Workbook (*	.xls)		•	Cancel		

A preview is shown:

• If it looks correct like the example below, press Import.

🛚 Import Tags											
Import module:				Filename:							
Excel file 🔹				C:\Documents and Settings\JLG\Desktop\Ny Dator\iX Backsupport\E-D							
	More										
c	olumn separator:			Import start at row:							
C	omma		Ŧ	1							
	onni a										
I	mport file colum	ns preview:						^			
	Name 🗸	Address_1 🗸	Descripti	on 🗸	DataType 🗸	IndexRegisterNumber	 PollGroupName 	s			
в	ind import file co	lumns to o	olumns	in pro	oject:			3			
	Name	Address_1	Descriptio	n	DataType	IndexRegisterNumber	PollGroupName				
1	AdCardActivation[1]	M1980			Bit		0				
2	AdCardActivation[2]	M1981			Bit		0				
3	AdCardActivation[3]	M1982			Bit		0				
4	AdCardHeadAddress[1]	R520			INT16		0				
5	AdCardHeadAddress[2]	R521			INT16		0				
6	AdCardHeadAddress[3]	R522			INT16		0	~			
<				ш				>			
Sa	ive mapping as import n	nodule				Refresh	Import Ca	ancel			

Done.

	Tag			Controllers		Others	
	Name 🔺	Data Type	Access Right	Data Type	Controller1	Description	Poll Group
>	AdCardActivation_1_	DEFAULT	None	BIT	M1980		PollGroup1
	AdCardActivation_2_	DEFAULT	None	BIT	M1981		PollGroup1
	AdCardActivation_3_	DEFAULT	None	BIT	M1982		PollGroup1
	AdCardHeadAddress_1_	DEFAULT	None	INT16	R520		PollGroup1
	AdCardHeadAddress_2_	DEFAULT	None	INT16	R521		PollGroup1
	AdCardHeadAddress_3_	DEFAULT	None	INT16	R522		PollGroup1
	AdCardPlace_1_	DEFAULT	None	INT16	R500		PollGroup1
	AdCardPlace_2_	DEFAULT	None	INT16	R501		PollGroup1
	AdCardPlace_3_	DEFAULT	None	INT16	R502		PollGroup1
	AiCurrentPump1	DEFAULT	None	FLOAT	D300	Analogue input	PollGroup1

6 After the project is converted

You must locate your Gain/offset settings in your old EXTER/E1000 project manually.

It is not a global setting like in iX, it is instead configured on individual objects/controls.

Save the log file that is generated during an import. It will contain clues as to what screens/objects in your project was not converted, and that should help you learn what needs to be converted manually/redesigned in your converted project.