

Quick start guide

Synchronise the X2 clock with a PLC

SER0065 - iX script module to synchronise the real time clock



1 Function and area of use

This document explains how to add a script module for your iX application which can read PLC tags containing time and date information, and synchronise the X2's real time clock (RTC).

2 About this document

This quick start document should not be considered as a complete manual. It is an aid to be able to startup a normal application quickly and easily.

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Use the following hardware, software, drivers and utilities in order to obtain a stable application:

In this document we have used following software and hardware

- iX Developer 2.40 SP6
- X2 series devices

For further information refer to

- iX Developer Reference Manual (MAxx831)
- [Beijer Electronics knowledge database, HelpOnline](#)

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3 Table of Contents

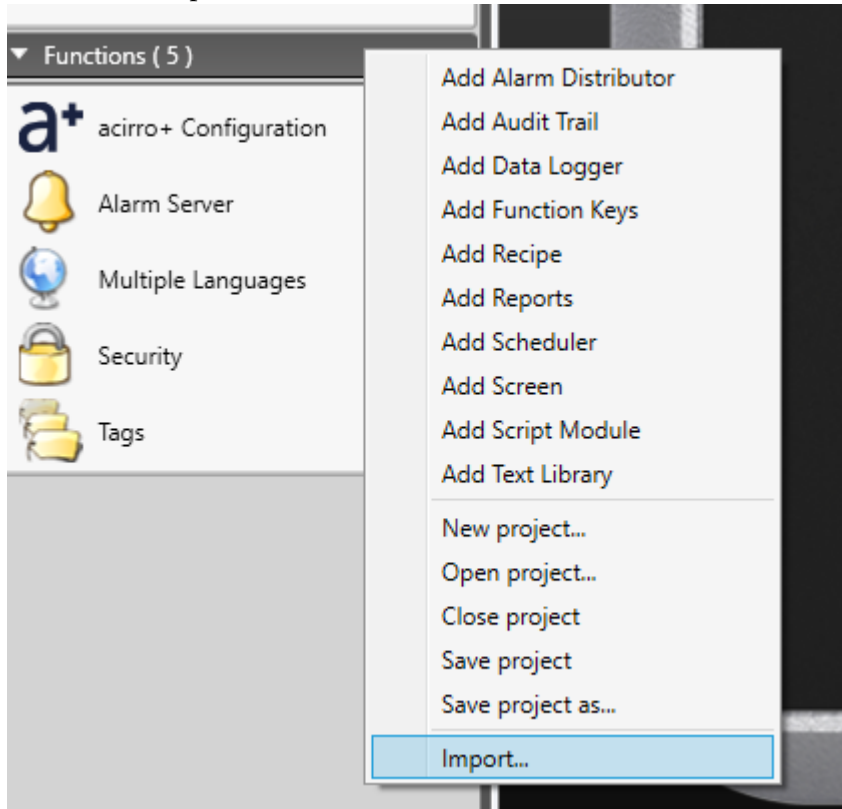
- 1 Function and area of use.....2
- 2 About this document.....2
- 3 Table of Contents.....3
- 4 How to use4
 - 4.1 *Installation of software*.....4
- 5 About Beijer Electronics6
 - 5.1 *Contact us*6

4 How to use

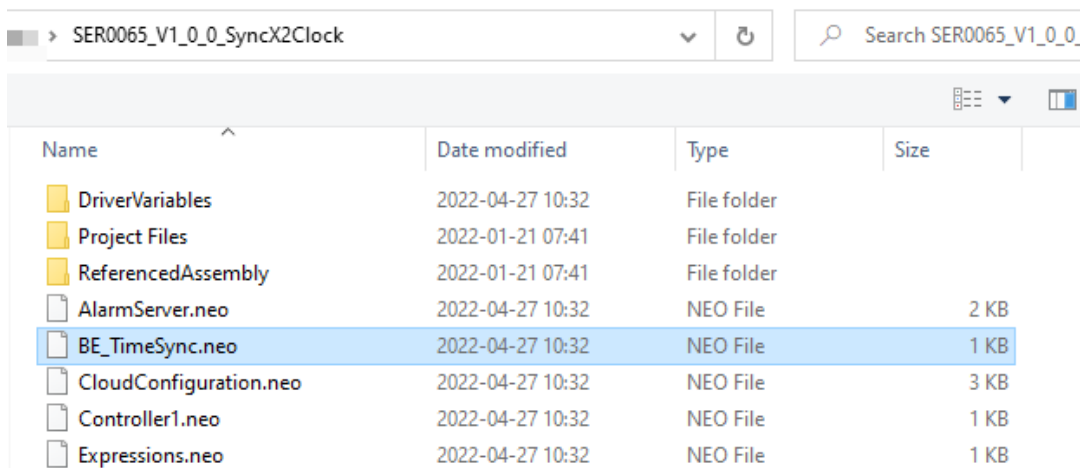
The following chapter describes the procedure for a well-functioning system.

4.1 Installation of software

1. Extract the iX-Project within the package to a folder.
There is no need to open the project, but it is a fully-functional sample.
2. From your iX-Project, choose right-click in the empty space of the Function view, then select 'Import' from the context menu



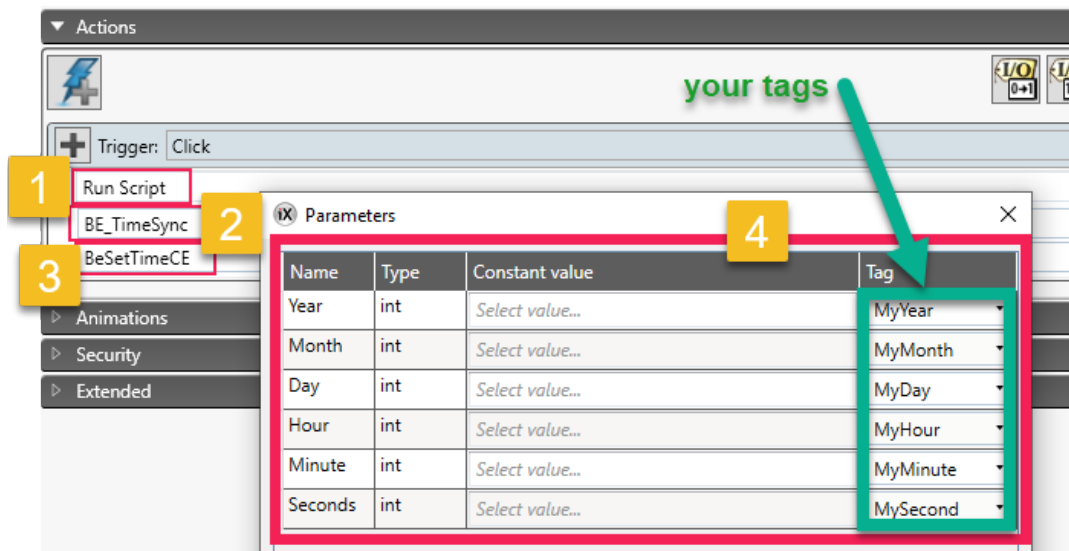
3. Navigate to where the original project was extracted, and select this file (BE_TimeSync.neo):



4. Version warnings can be safely ignored if they appear.
5. The tag list needs to contain 6 tags (INT) containing the hour, minute, second, year (2 digits), month (1-12) and day. The tags should be checked 'Always Active' if they are not visible on the screen calling the script.
 These tags need to be addressed at the PLC's time and date data.

Tag			Controllers		Others			
Name	Data Type	Access Right	Data Type	Controller 1	Description	Poll Group	Always Active	Non-volatile
MyYear	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>
MySecond	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>
MyMonth	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>
MyMinute	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>
MyHour	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>
MyDay	INT 16	ReadWrite	DEFAULT			PollGroup 1	<input type="checkbox"/>	<input type="checkbox"/>

6. We now need to create an event to run the 'Synchronise' script. This can come from a scheduled event or a button push. The source of the event isn't critical, but this interface needs to be populated with the tags we've just created:



7. Illegal dates are ignored.

5 About Beijer Electronics

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