

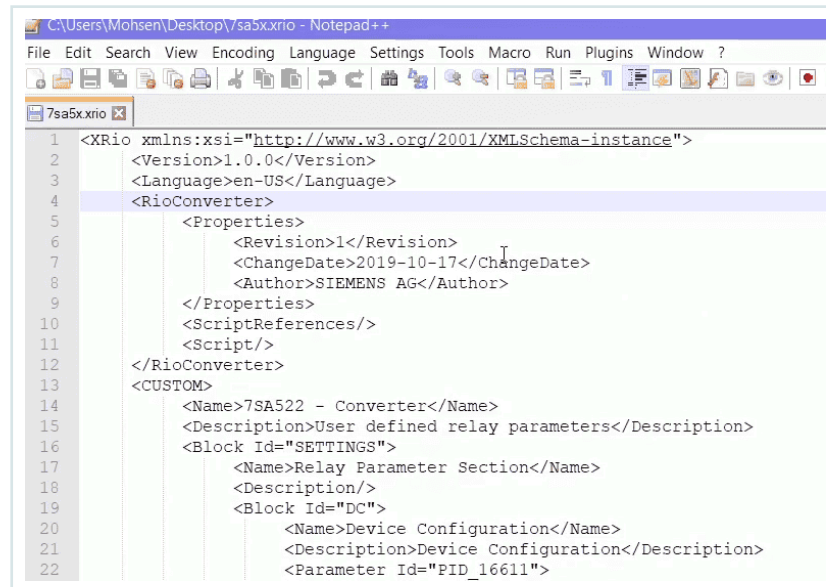


VEBKO ONLINE HELP

XRIO & Relay Setting in the Software

Category	tester
Section	Modules Toolbar and Statusbar
Language	English
Generated	2026-10-18

After getting familiar with “XRio” file that is provided by the relay as an output, it is necessary to get familiar with other sections of this file. First, open the “XRio” file of the “7SA522” Siemens relay with “notepad++”. In this file, the relay provides the user with the information regarding the “Setting” as well as the values that are “Set” to the relay. As it has been said before, in this file, unlike “XRio Converter”, there are no “Script References” functions in “Rio Converter” tag.



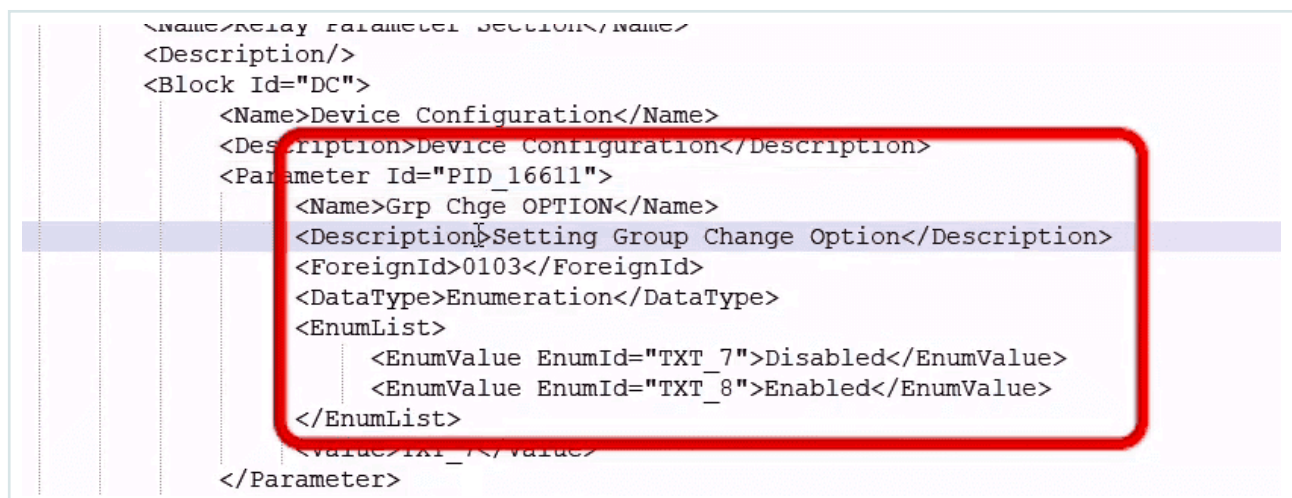
```

1 <XRio xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
2   <Version>1.0.0</Version>
3   <Language>en-US</Language>
4   <RioConverter>
5     <Properties>
6       <Revision>1</Revision>
7       <ChangeDate>2019-10-17</ChangeDate>
8       <Author>SIEMENS AG</Author>
9     </Properties>
10    <ScriptReferences/>
11    <Script/>
12  </RioConverter>
13  <CUSTOM>
14    <Name>7SA522 - Converter</Name>
15    <Description>User defined relay parameters</Description>
16    <Block Id="SETTINGS">
17      <Name>Relay Parameter Section</Name>
18      <Description/>
19      <Block Id="DC">
20        <Name>Device Configuration</Name>
21        <Description>Device Configuration</Description>
22        <Parameter Id="PID_16611">

```

Figure 1

The information related to “Relay Parameter Section” block with “ID=Setting” can be found in the “Custom” tag while the relay parameter information is available in its subcategories. For example, you can find “ID=PID_16611”, “Description=Setting Group Change Option”, “Foreign ID= 0103”, “Data Type= Enumeration” and “Enum List” in the parameter with “Name= Grp Chge OPTION”. Moreover, the information regarding “Device” block is mentioned in the “Rio” section.



```

<Name>Relay Parameter Section</Name>
<Description/>
<Block Id="DC">
  <Name>Device Configuration</Name>
  <Description>Device Configuration</Description>
  <Parameter Id="PID_16611">
    <Name>Grp Chge OPTION</Name>
    <Description>Setting Group Change Option</Description>
    <ForeignId>0103</ForeignId>
    <DataType>Enumeration</DataType>
    <EnumList>
      <EnumValue EnumId="TXT_7">Disabled</EnumValue>
      <EnumValue EnumId="TXT_8">Enabled</EnumValue>
    </EnumList>
  </Parameter>

```

Figure 2

Entering relay information in the software: Before loading the "7SA522" relay settings in "Vebko AMvPro Test" software, it is necessary, the "XRio Converter" file related to "7SA522" Siemens relay, which is available in the "Vebko AMPro Test" software, to be loaded. By clicking on "Import from list" icon, the "Load XRio and Rio file from list" page opens. On this page, in "XRio" mode, the model of "7SA522" relay is entered in the "Search" field. Then, its "XRio Converter" should be selected. After this file is loaded, the "XRio" file of the relay should be entered. To do this, click on "File" menu, then select "Load Relay Setting". After that, select "XRio" relay output format from "Relay Config Type" field.

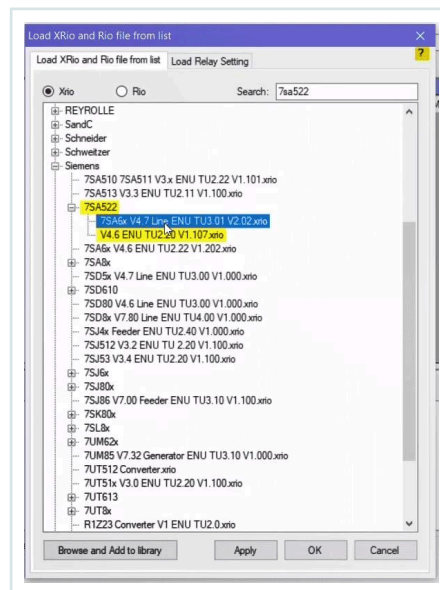


Figure 3

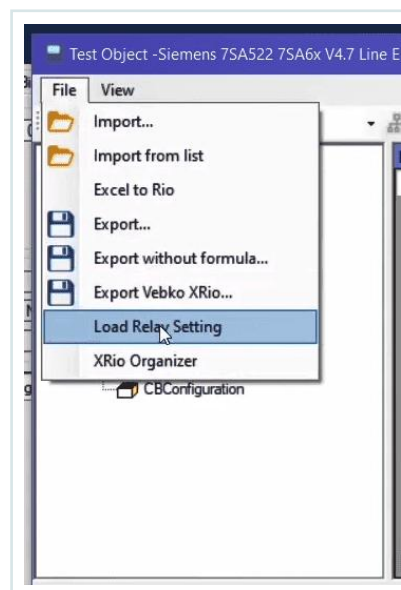


Figure 4

In the "Config file path" the path to the "XRio" file is determined and the "XRio" file is selected. In the

“Matching Algorithm” section, the user needs to specify the type of information that is to be loaded from the “XRio” file to the “XRio Converter”. If “Equal ID” option is checked and the other options are unchecked, then, only those parameters of the relay whose “ID” is the same in the “XRio” and “XRio Converter” files are loaded in the software. By clicking on “OK”, a message is displayed. In this message, the phrase “Parameter Values Imported” shows the number of parameters that are loaded in the software and their “ID” is the same as the “XRio Converter”.

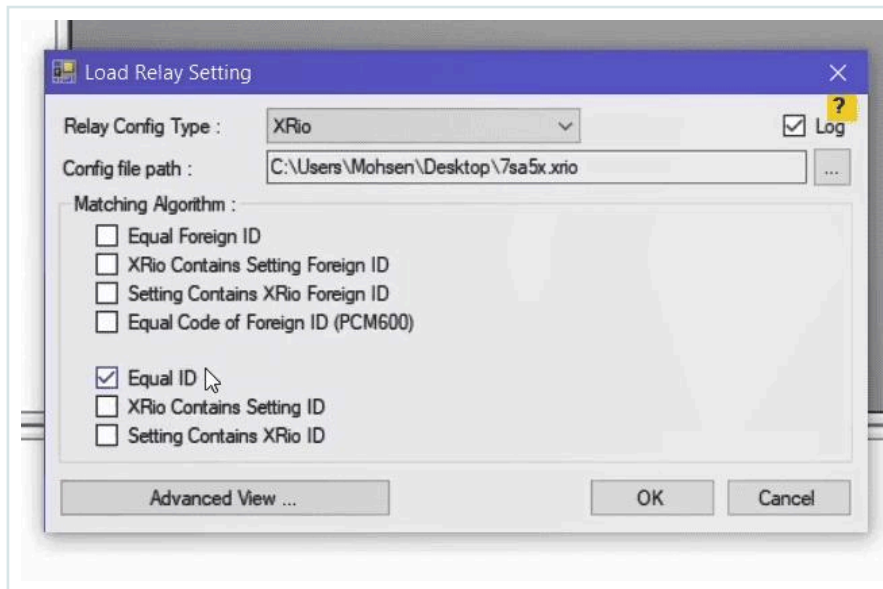


Figure 5

Also, the “Different Names” phrase shows the number of loaded parameters that have the same “ID” but whose “Name” is not the same in “XRio” and “XRio Converter” files. The phrase “Corrected Names” shows the number of parameters whose “Name”, being different, is corrected by the software in accordance with the “XRio Converter”. The phrase “Errors” shows the number of erred parameters. The error can have various reasons; for example, the “Type” of a “Text” parameter can be specified as “String” in the “XRio Converter”. The phrase “Corrected Errors” shows the number of parameters whose error is corrected according to the “XRio Converter”. The phrase “Duplicate IDs” shows the number of parameters that have the same “ID” or “Foreign ID” in “XRio Converter” or “XRio” file. In such a case, Vebko software does not load the values of these parameters.

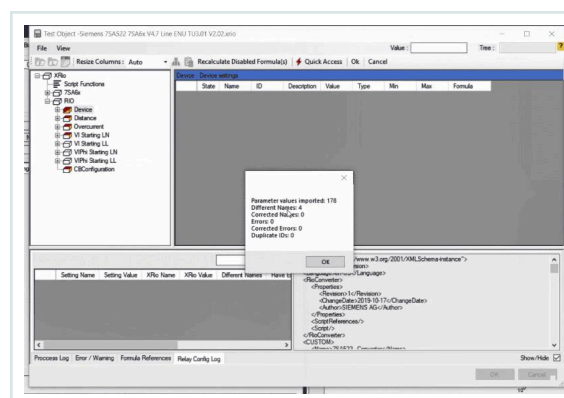


Figure 6

After clicking on "OK", the relay information is loaded in the "XRio Converter". After the relay information is loaded, the parameters entered on the left side are displayed in "Relay Config Log" field at the bottom of "Test Object" page while "xml" format of the "XRio" file is displayed on the right side. For example, the "Grp Chge OPTION" parameter is loaded in the software with no problem or the name of "RG/RL(>Z1)" parameter in "XRio" file is different from its name in "Xrio Converter" file.

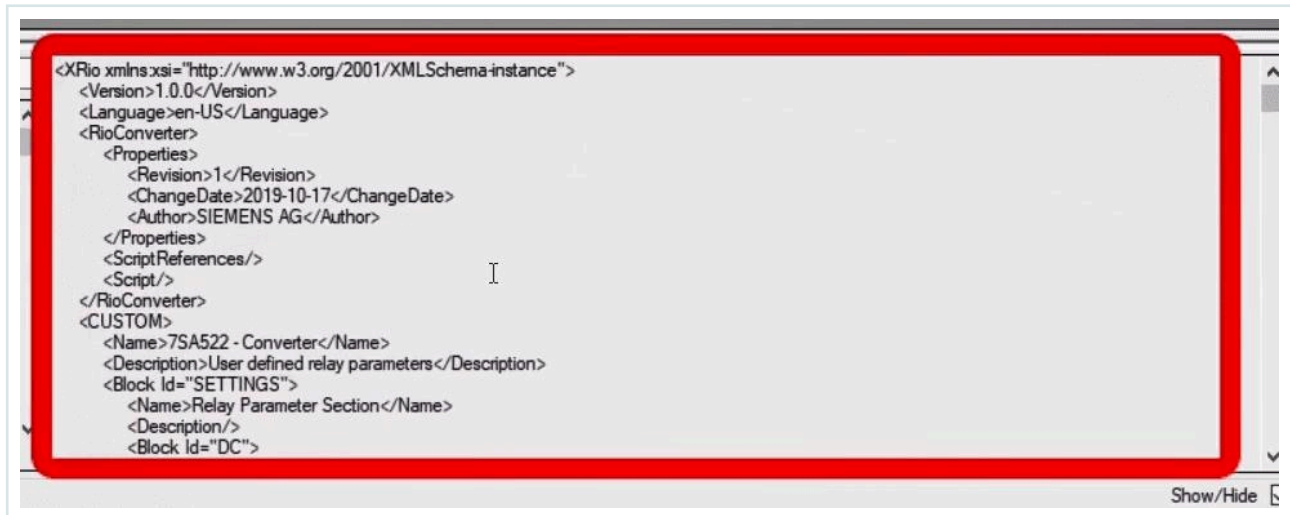
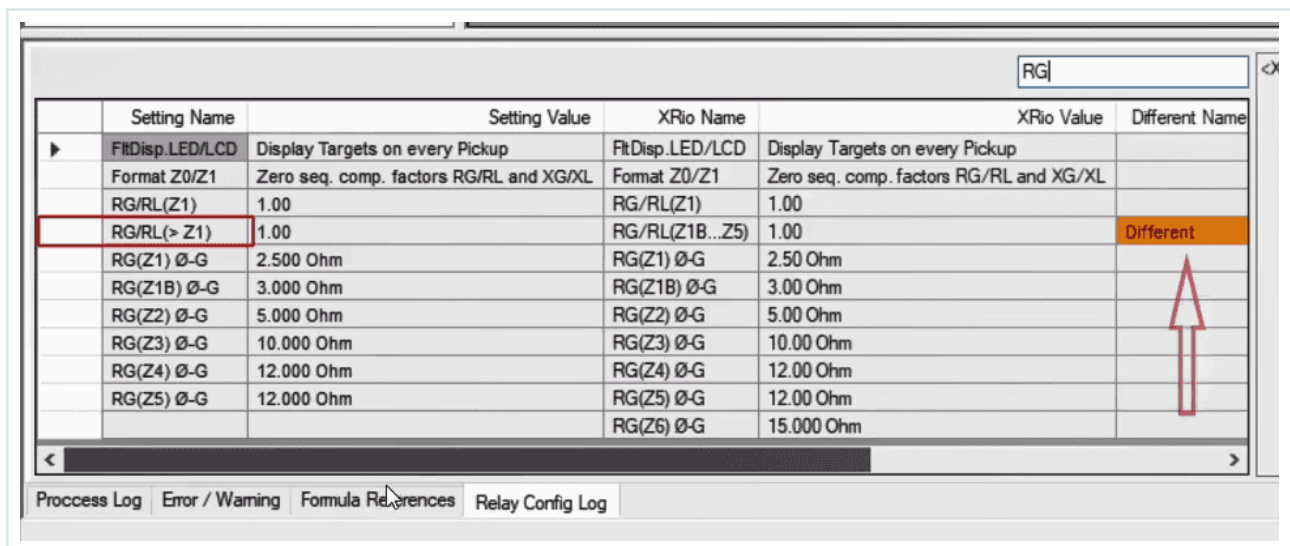


Figure 7



Setting Name	Setting Value	XRio Name	XRio Value	Different Name
FitDisp.LED/LCD	Display Targets on every Pickup	FitDisp.LED/LCD	Display Targets on every Pickup	
Format Z0/Z1	Zero seq. comp. factors RG/RL and XG/XL	Format Z0/Z1	Zero seq. comp. factors RG/RL and XG/XL	
RG/RL(Z1)	1.00	RG/RL(Z1)	1.00	
RG/RL(> Z1)	1.00	RG/RL(Z1B...Z5)	1.00	Different
RG(Z1) Ø-G	2.500 Ohm	RG(Z1) Ø-G	2.50 Ohm	
RG(Z1B) Ø-G	3.000 Ohm	RG(Z1B) Ø-G	3.00 Ohm	
RG(Z2) Ø-G	5.000 Ohm	RG(Z2) Ø-G	5.00 Ohm	
RG(Z3) Ø-G	10.000 Ohm	RG(Z3) Ø-G	10.00 Ohm	
RG(Z4) Ø-G	12.000 Ohm	RG(Z4) Ø-G	12.00 Ohm	
RG(Z5) Ø-G	12.000 Ohm	RG(Z5) Ø-G	12.00 Ohm	
		RG(Z6) Ø-G	15.000 Ohm	

Figure 8

Load Relay Setting Page: By reopening "Load Relay Setting" window, after determining the format of the relay file and selecting the path of "XRio" file, by clicking on "Advanced View" option, a window with the same name opens. Tree diagrams and the "xml" format of these two files are located at the top and bottom of this page, respectively, in a way that the "XRio" file of the relay can be seen on the right while the "XRio Converter" file can be seen on the left. If "Show XML documents" option is

checked, these two files are, also, displayed as “xml”. For example, in the “XRio” file of the relay in “CUSTOM” block, the “Grp Chge OPTION” has “ID=PID_16611”. This parameter has the same “ID” in “CUSTOM” block in the “Xrio Converter” file of the software. As another example, a parameter in “XRio” file with “Id=PDI_25555” is named “50(N) – B1 instBl” while in “Xrio Converter” file the same “ID” is named “50(N)-B1 Pil/Bl”. This is why this parameter is placed in “Different Names” category.

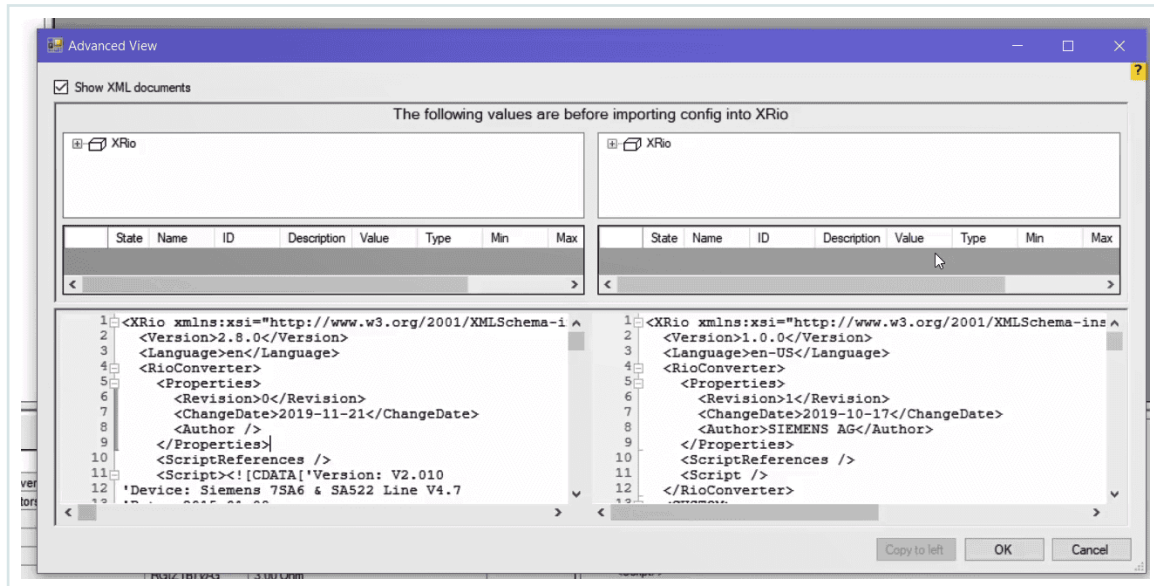


Figure 9



Figure 10

In “Matching Algorithm” part of the “Load Relay Setting” window, if the “Equal Foreign ID” option is checked, the parameters whose “Foreign ID” is the same in both “XRio” and “Xrio Converter” files of the relay, are loaded. If the “XRio Contains Setting Foreign ID” and “Setting Contains XRio Foreign ID” options are checked, the parameters whose “Foreign ID” in “XRio” file includes some additional parameters, such as a letter or a half-space, are loaded and vice versa. For example, a parameter’s “Foreign ID= 109A” in XRio file while the same parameter’s “Foreign ID= 109A-B” in “Xrio Converter” file. If the “XRio Contains Setting Foreign ID” option is checked, this parameter is loaded in the software and vice versa.

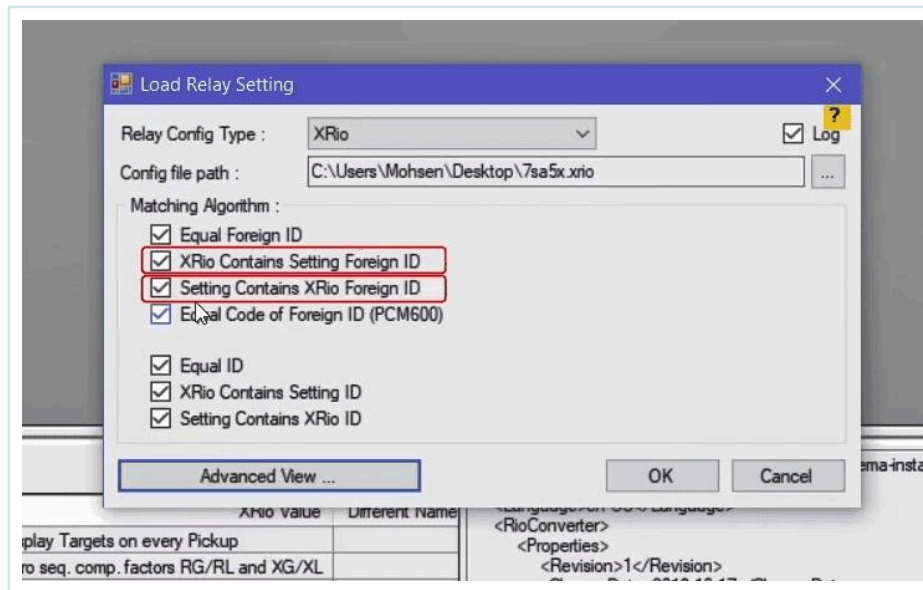


Figure 11

The “Equal Code of Foreign ID (PCM600)” option is for “ABB” relays. There is no connection between the “Foreign ID” of relay’s “XRio” and “XRio Converter” file in “XRio” file of these relays but in some conditions, the “Foreign”s in the “XRio” file of the relay and “XRio Converter” file are connected. For example, on the “Test Object” page, by clicking on “Import from file”, first, an “XRio Converter” related to the “ABB REL 65f0” is loaded; then, by clicking on “File” menu and selecting “Load Relay Setting” option, the “XRio” file related to this relay is selected. Also, in the “Matching Algorithm” tab, only the “Equal Code of Foreign ID (PCM600)” option is checked. By opening the “Advanced View” page, both files are displayed as “xml”.

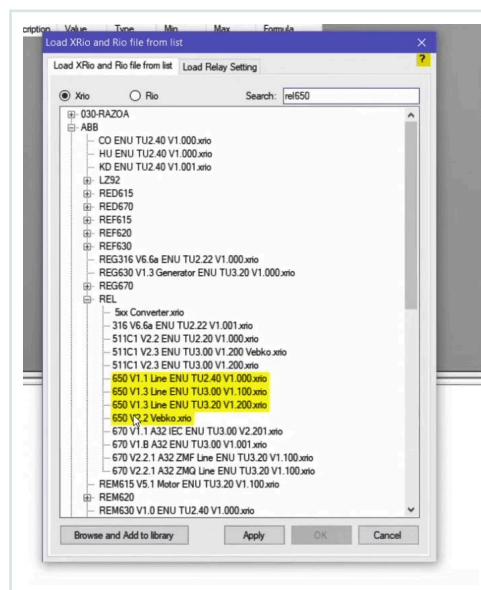


Figure 12

As an example, a parameter named “BIM_3” with a specific “Foreign ID” is selected in the “XRio

Converter" file while this parameter has a different "Foreign ID" in the "XRio" file of the relay. But it is seen that a part of the "Foreign ID" is the same in both files which means that the eight first characters and then the four second, third and fourth characters and the twelve fifth characters should be the same in the "Foreign ID" of both files so that this parameter is loaded in the "XRio Converter". Then, by clicking on "OK", it is seen that "2179" parameters are loaded in the "XRio Converter".

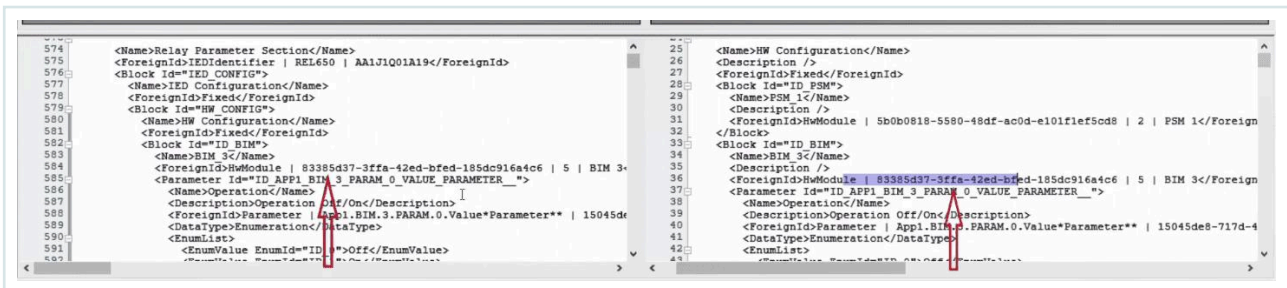


Figure 13

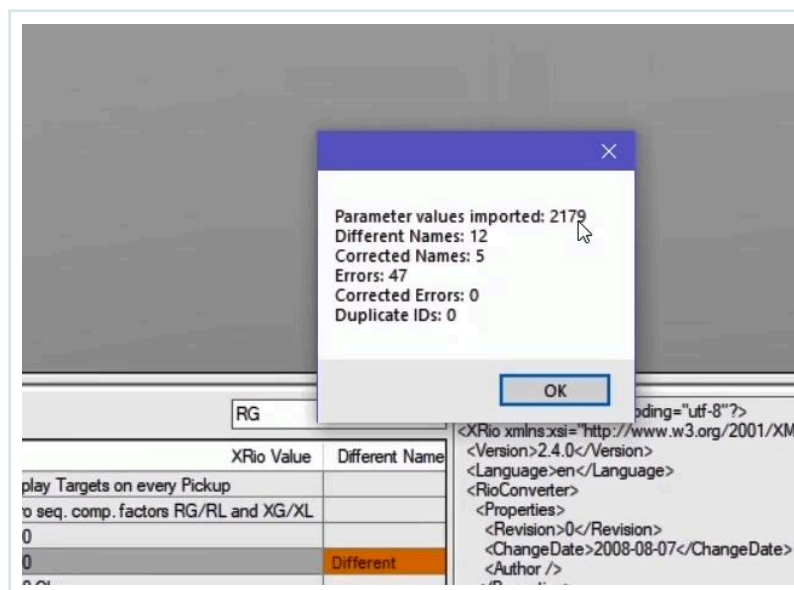


Figure 14

[ig1]XRio_and_Relay_setting_in_the_software