

APPLICATION NOTE

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Product Family: C-more Number:

Subject: How to import Control/CompactLogix

Date Issued: AN-EA-001

Pre Defined Data Types Revision: Original

Introduction

There are very many Pre Defined data types in this Allen Bradley ControlLogix and CompactLogix PLCs. A Pre Defined data type is a data type that is already created in the RS Logix 5000 software when starting a new project. Some common Pre Defined data types are TIMER and COUNTER.

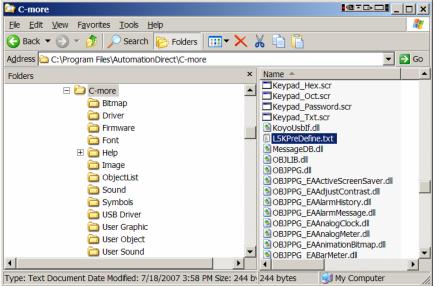
The complication of importing Pre Defined data type is that there are very, very many Pre Defined data types in the RS Logix 5000 software and within many of these data types, there are many different data type members. Many/most of these members of these Pre Defined data types, while useful in the PLC application, will not be needed in the C-more project. So the complication is to decide which Pre Defined data types should be imported and which members of these data types should or shouldn't be imported.

Solution

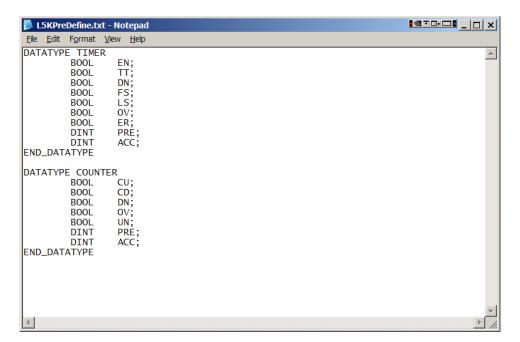
There is a file located inside of the root directory of the C-more programming software that can be modified to determine which data types and their members should be imported into the C-more project. The image below shows where the C-more programming software is installed by default. The location of your C-more programming software may be different, depending upon how the software was installed.



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The name of this file (as shown above) is L5KPreDefine.txt and by default looks like the image below:



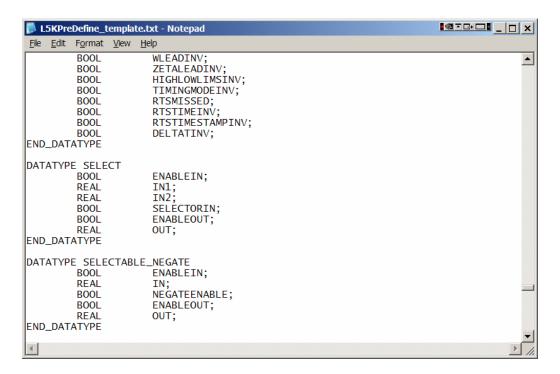
So, by default, the C-more programming software will import the TIMER and COUNTER Pre Defined data types.

To add more Pre Defined data types, you can type them in using the format shown above or you can open up a master template file called: L5KPreDefine_template.txt. This file can be downloaded from Automationdirect.com on the Free Software, Upgrades section of the tech support page. It will be listed under the Tools and Utilities section. This file can also be found in the Help Folder from the downloaded Install zip file or on the C-more Programming Software CD.



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Here is an example of how to add the SELECT data type to the list of the Pre Defines that will be imported. Open up the L5KPreDefine_template.txt file and scroll down to the DATATYPE SELECT heading as shown below:



Use the cursor and highlight the entire section for the SELECT data type beginning at DATATYPE and ending at END_DATATYPE.



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```
L5KPreDefine_template.txt - Notepad
<u>File Edit Format View Help</u>
         BOOL
                       WLEADINV;
                                                                                          •
         BOOL
                       ZETALEADINV;
         BOOL
                      HIGHLOWLIMSÍNV;
         BOOL
                       TIMINGMODEINV;
                      RTSMISSED;
         BOOL
         BOOL
                      RTSTIMEINV;
         BOOL
                      RTSTIMESTAMPINV;
         BOOL
                      DELTATINV;
END_DATATYPE
DATATYPE SELECT
                       ENABLEIN;
         BOOL
                      IN1;
IN2;
SELECTORIN;
ENABLEOUT;
         REAL
         REAL
         BOOL
         REAL
                      OUT;
END_DATATYPE
DATATYPE SELECTABLE_NEGATE
         BOOL
                      ENABLEIN;
         REAL
                       TN:
                      NEGATEENABLE;
         BOOL
         BOOL
                      ENABLEOUT;
         REAL
                      OUT;
END_DATATYPE
```

Click on Edit and Copy to copy the highlighted area. Then click over in the L5KPreDefine.txt file and go to the bottom and click on Edit and Paste to make the L5KPreDefine file look like below:

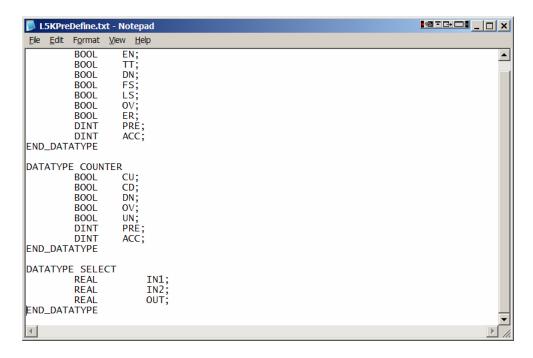
```
L5KPreDefine.txt - Notepad
<u>File Edit Format View Help</u>
        BOOL
                 LS;
        BOOL
        BOOL
                 οv;
        BOOL
        DINT
                 PRÉ
        DINT
END_DATATYPE
DATATYPE COUNTER
                 CU;
        ROOL
        BOOL
                 CD;
        BOOL
                 DN;
        BOOL
                 ov;
        BOOL
                 UN;
        DINT
        DINT
                 ACC;
END_DATATYPE
DATATYPE SELECT
                      ENABLEIN:
        BOOL
                     ĪN1;
        REAL
        REAL
                      IN2
                      SELECTORIN;
        BOOL
                      ENABLEOUT;
        BOOL
        REAL
                     OUT;
END_DATATYPE
```

If you wish to import all the members of the SELECT data type shown above then all that needs to be done is to save and close the L5KPreDefine.txt file and re start the C-more programming software.



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You can also remove the members of the data type that are needed in the C-more project as shown below:



It is important to remember the format required in the L5KPreDefine.txt file:

DATATYPE Desired data type name as shown in RS Logix 5000

Memory type (IE BOOL, DINT, etc...) member name (as shown in RS Logix);

END_DATATYPE

The semi colon is necessary after each member name of the data type.