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SINAMICS G/S: Integrating Warning and Error Messages into STEP 7 V5.x or WinCC flexible

SINAMICS G/S

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1 Task

Application example description

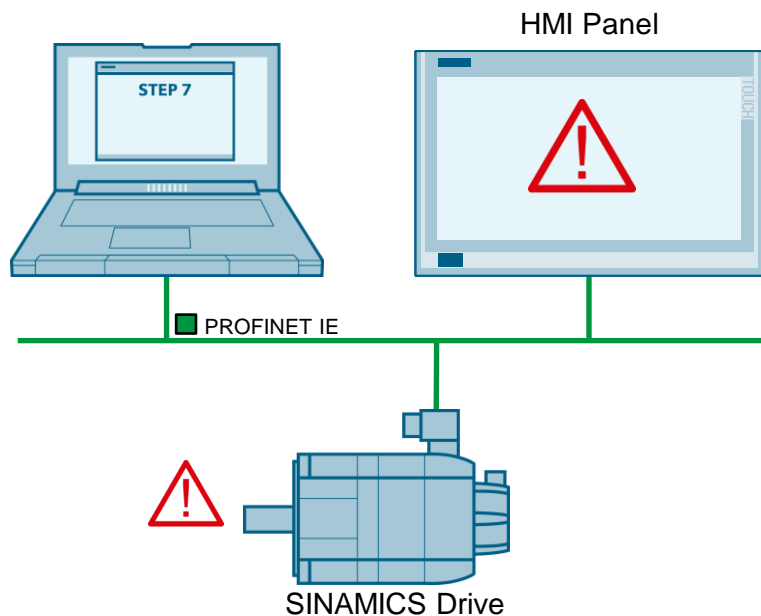
Warning and error messages are usually displayed on the drive as hexadecimal error codes or passed on to the higher-level controller. However, this format makes it difficult for the user to interpret warning and error messages.

The objective of the application example is to import / integrate the warning and error messages of a drive of the SINAMICS family into the higher-level controller or the operator panel (HMI) as text and display them on the operator panel in plain text.

Application example overview

The following figure provides an overview of the application example.

Figure 1-1

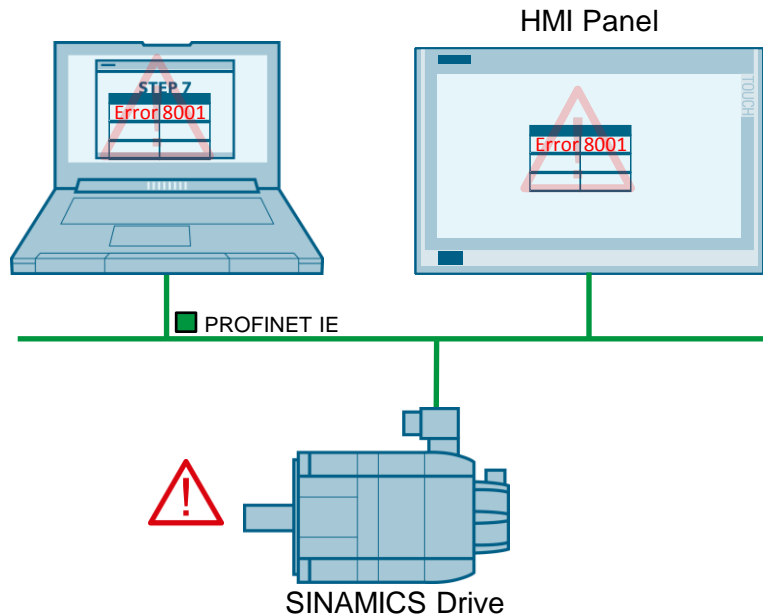


2 Solution

2.1 Overview

The diagrammatic representation below shows the components involved in developing the solution.

Figure 2-1



2.2 Hardware and software components

The following components were used for the application example:

Table 2-1 Hardware and software components

Component	No.	Order no.	Note
SIMATIC S7 STEP 7 Version V5.5	1	6ES7810-4CC10-0YA5	Example: Integrating the warning and error texts into a STEP 7 text library.
WinCC flexible		6AV661.-.....-3	Example: Integrating the warning and error texts into a WinCC flexible text list.
Microsoft Excel 2010	1	---	Example: Editing the texts in the CSV file.

Note

To run the "SINAMICS XML Parser", .NET Framework V3.5 SP1 or higher must be installed on your PG/PC.
If you have SIMATIC STEP 7 installed on your PG/PC, the required .NET Framework is already included in this installation.

3 Mode of Operation

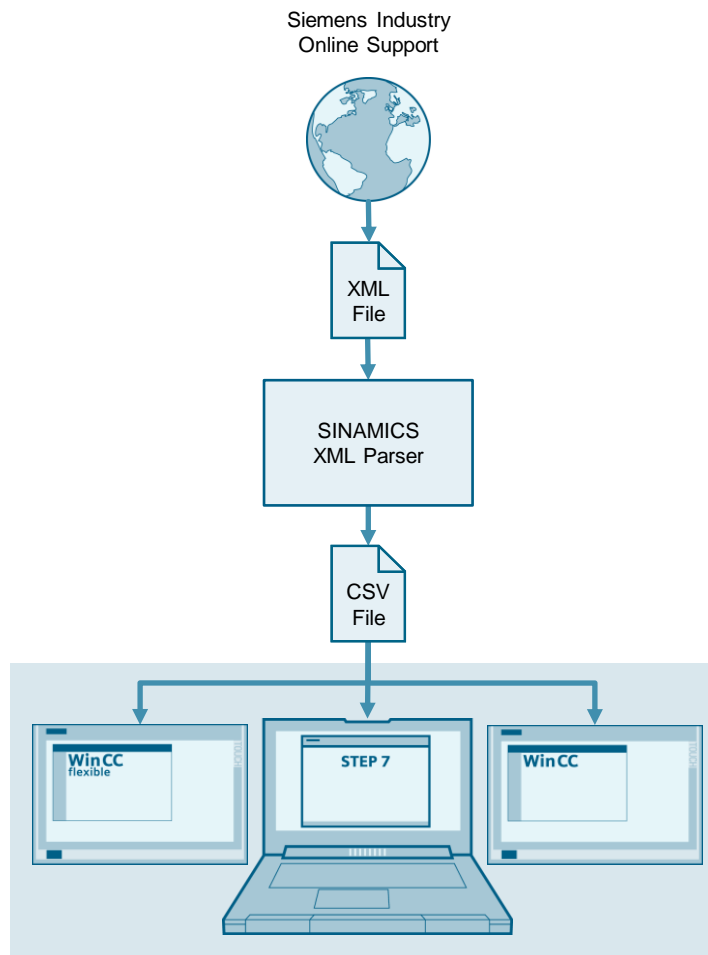
3.1 Providing warning and error messages

The warning and error messages for your drive component and firmware are available as an XML file in Siemens Industry Online Support.
<https://support.industry.siemens.com>.

Download the XML file from Siemens Industry Online Support and start the "SINAMICS XML Parser" software. With the aid of the "SINAMICS XML Parser" software, the XML file can be converted to CSV format.
For more information about the SINAMICS XML Parser, please refer to the same application example in the "SINAMICS XML Parser" documentation.

Then you can import / integrate the warning and error messages into your STEP 7 text library or the HMI project as text.

Figure 3-1



4 Importing / Integrating the Texts into the STEP 7 Text Library

4.1 Requirements for importing the texts

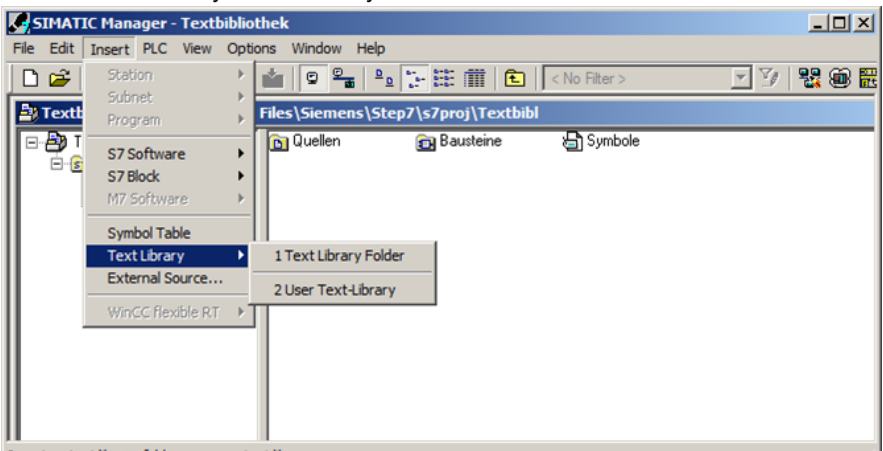
The error codes and error texts can only be copied to the STEP 7 text library quickly and easily if the following requirements are met:

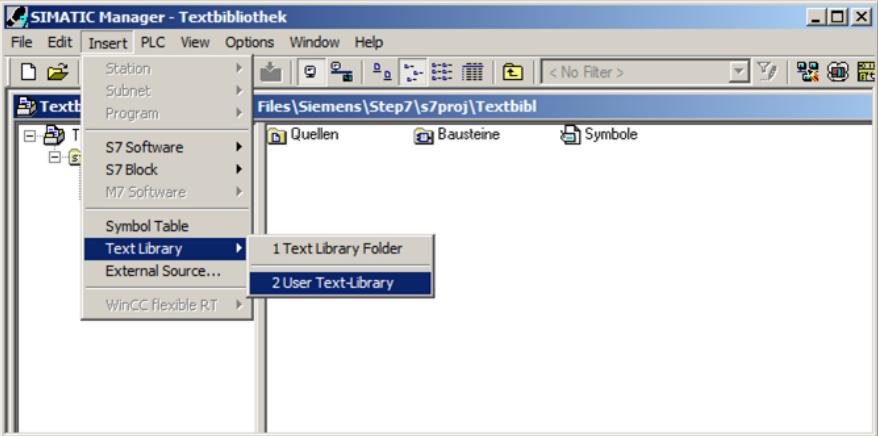
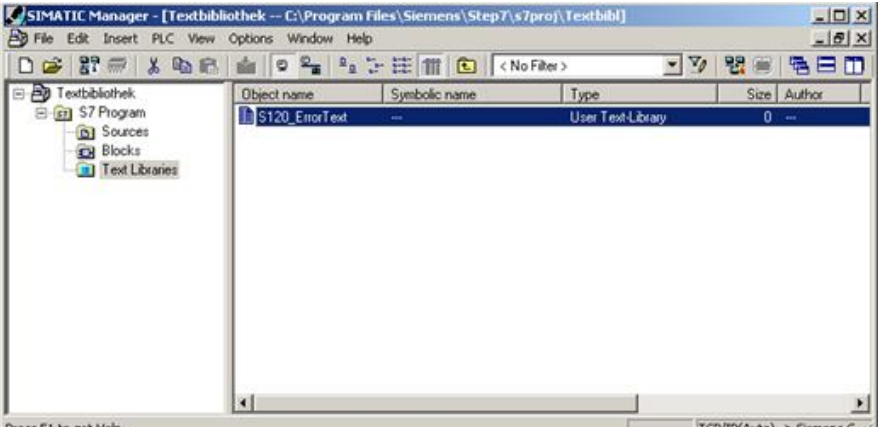
- Each error code must exist only once in the spreadsheet
- The spreadsheet entries should be made up of pure text
- The error texts should not include special characters (line break, ...).

4.2 Creating the STEP 7 text library in the STEP 7 project

In order to integrate the error codes and error texts into a STEP 7 project, first create a text library in the project.

Table 4-1

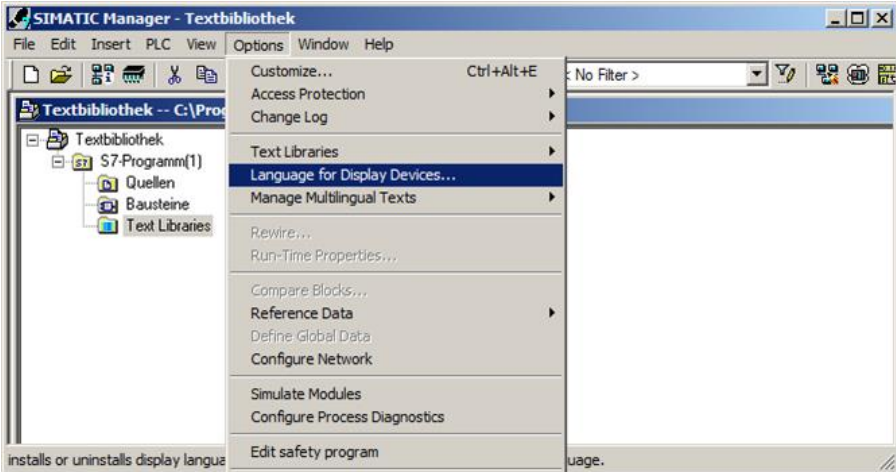
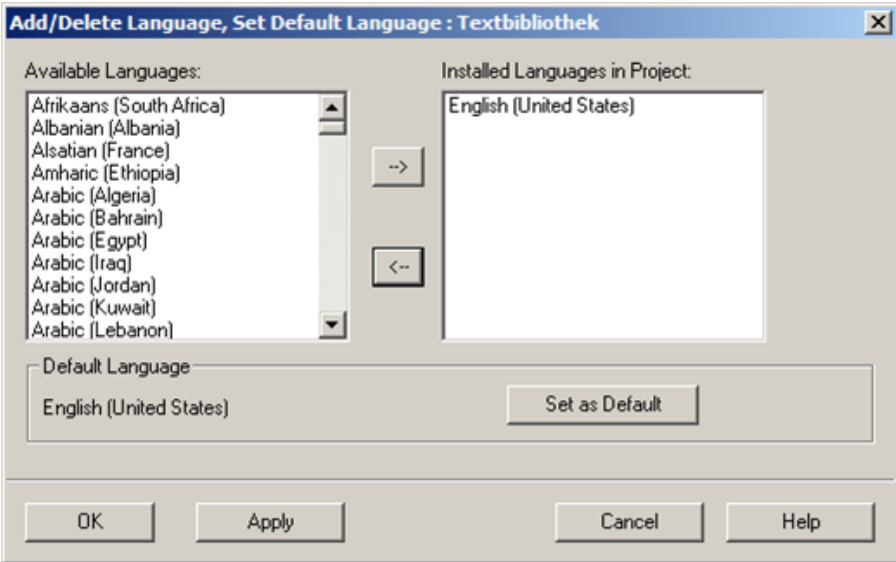
No.	Action
1.	<p>Select the desired S7 program into which you want to insert the text library and use "Insert > Text Library > Text Library Folder" to create a folder for the text libraries.</p>  <p>The screenshot shows the SIMATIC Manager interface. The 'Insert' menu is open, and the path 'Text Library > Text Library Folder' is selected. The file explorer on the right shows the path 'Files \Siemens \Step7 \s7proj \Textbibl' with subfolders 'Quellen', 'Bausteine', and 'Symbole'. A status bar at the bottom of the window reads 'Inserts a text library folder or a user text library'.</p>

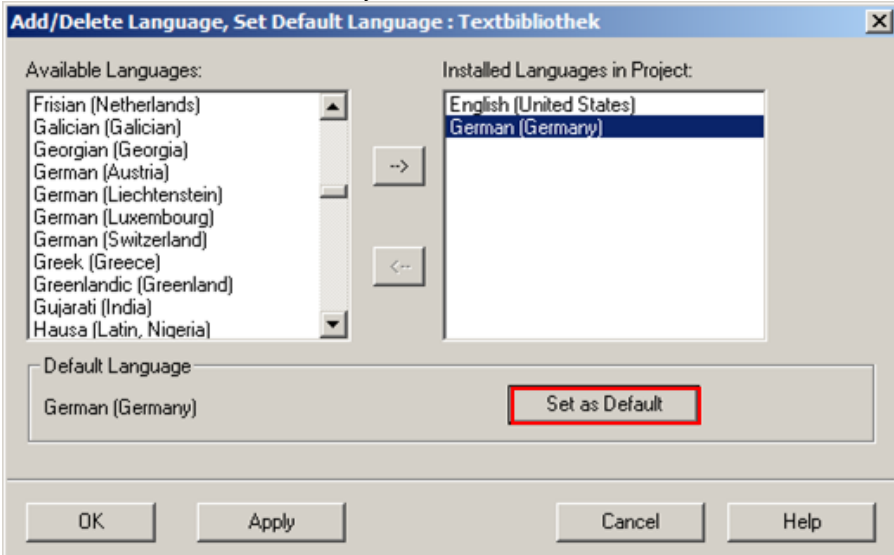
No.	Action										
2.	<p>Select the newly added folder and use "Insert > Text Library > User Text-Library" to insert a text library.</p>  <p>Inserts User Text-Library at the cursor position.</p>										
3.	<p>Assign the desired name to the newly created text library. Make sure that the text library name refers to the message output using the ALARM_S function.</p> <p>Note: For the error codes and error texts of the SINAMICS S drive system, choose the name "S120_ErrorText" for the text library in the "Drive Error Messages" technology template.</p>  <table border="1" data-bbox="703 1151 1342 1464"> <thead> <tr> <th>Object name</th> <th>Symbolic name</th> <th>Type</th> <th>Size</th> <th>Author</th> </tr> </thead> <tbody> <tr> <td>S120_ErrorText</td> <td>-</td> <td>User Text-Library</td> <td>0</td> <td>-</td> </tr> </tbody> </table>	Object name	Symbolic name	Type	Size	Author	S120_ErrorText	-	User Text-Library	0	-
Object name	Symbolic name	Type	Size	Author							
S120_ErrorText	-	User Text-Library	0	-							

4.3 Defining available languages

When you have created the text library, additionally define the language versions available in this library.

Table 4-2

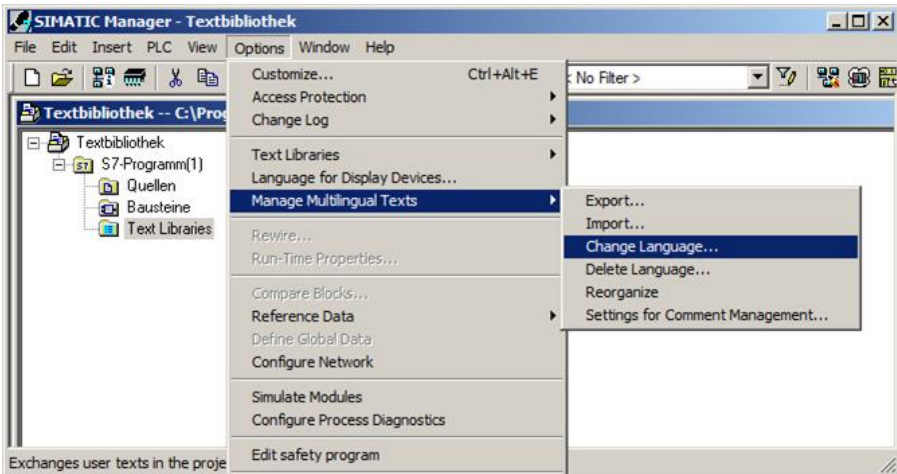
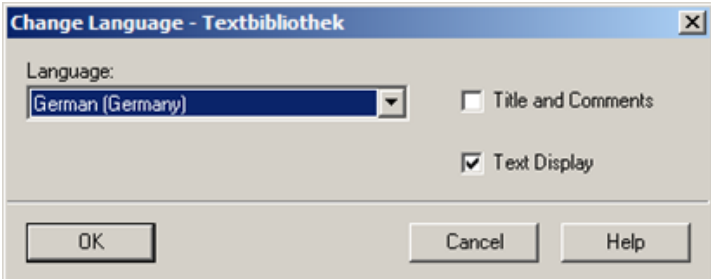
No.	Action
1.	<p>Select the text library and use "Options > Language for Display Devices..." to open the selection window for the available language versions.</p> 
2.	<p>The right-hand pane of the selection window displays the language versions that are already available in the text library. In the left-hand pane, you can select additional language versions and use the appropriate arrow button to add them to the available language versions.</p>  <p>Note: For the "Drive Error Messages" technology template, select the following language versions:</p> <ul style="list-style-type: none"> • German (Germany) • English (United States)

No.	Action
3.	<p>Then select the desired default language in the pane that displays the language versions available in the text library and use the "Set as Default" button to set it.</p> 

4.4 Selecting the text library language

Before inserting the error codes and error texts: In the text library, select the first language version to be applied to the text library.

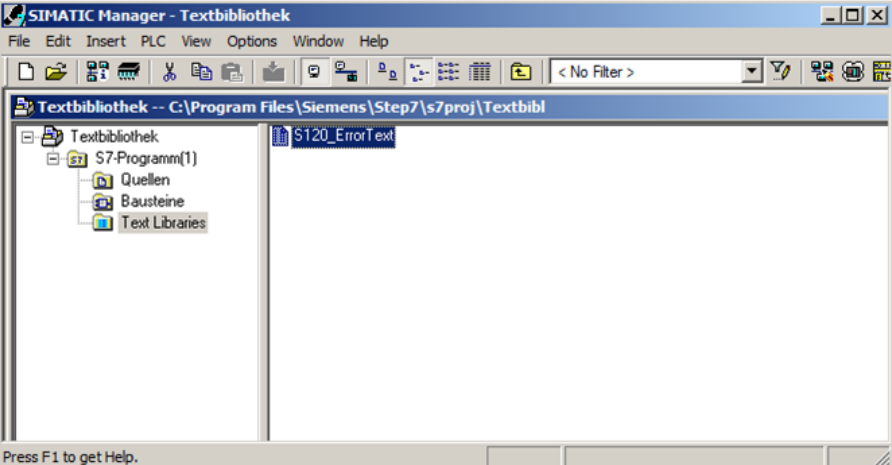
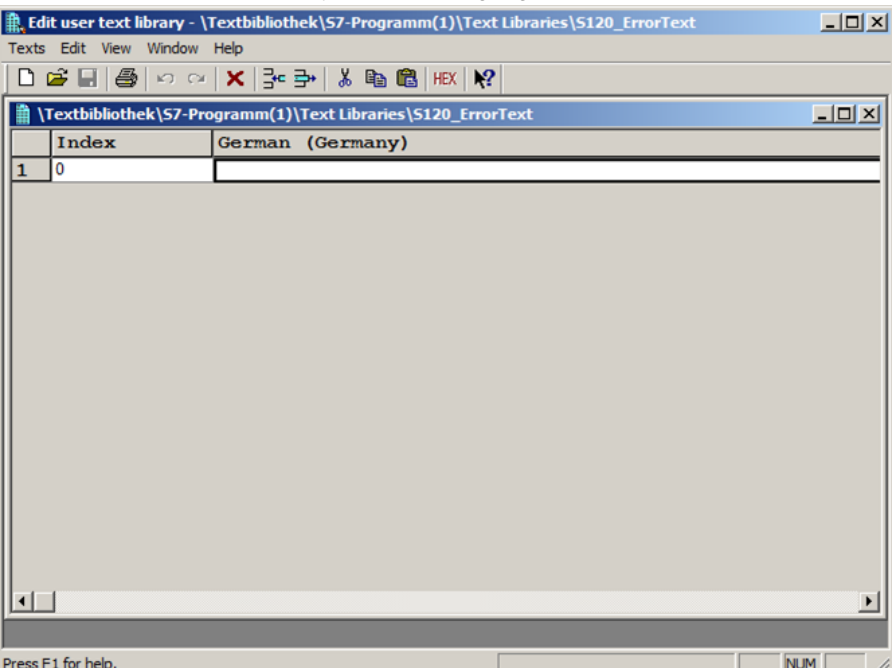
Table 4-3

No.	Action
1.	<p>Select the "Options > Manage Multilingual Texts > Change Language" menu items to open the Change Language settings window.</p> 
2.	<p>Then select the desired language. The text library will then open in the editor in the language selected here, which allows you to first apply the language selected here to the text library.</p> 

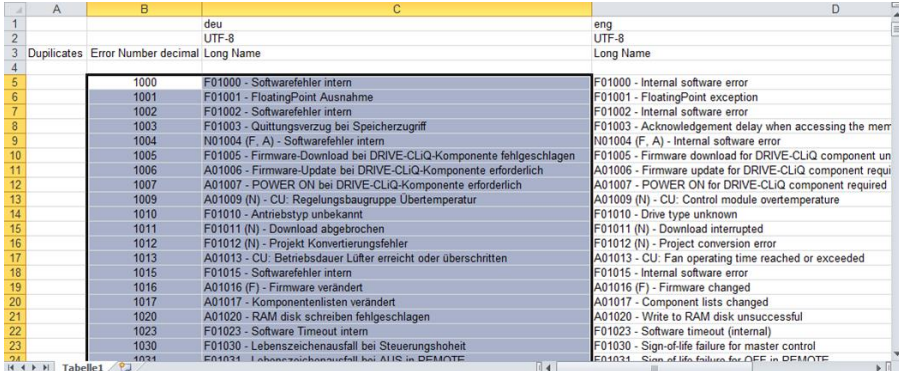
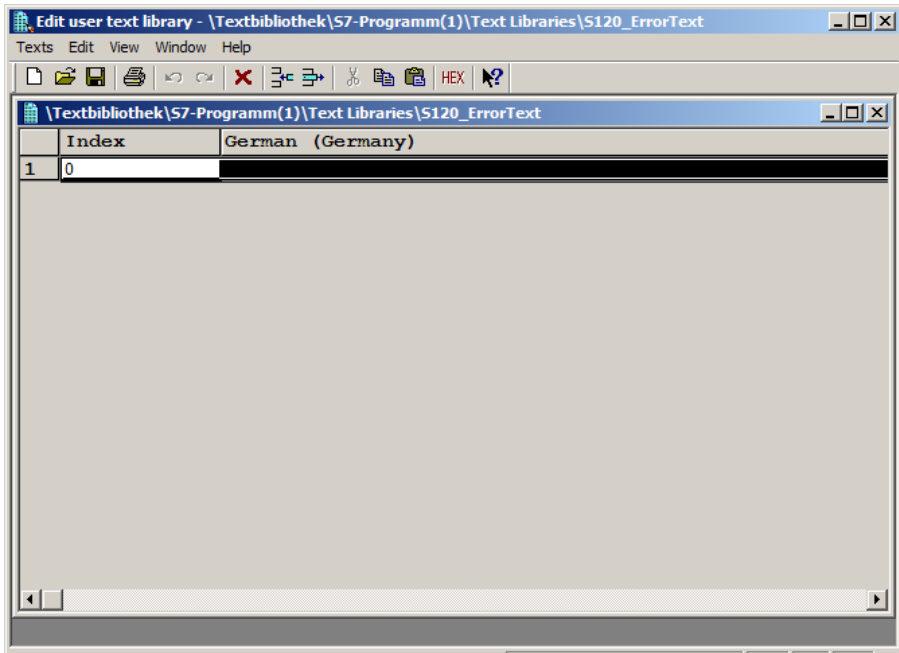
4.5 Copying error codes and error texts to the STEP 7 text library

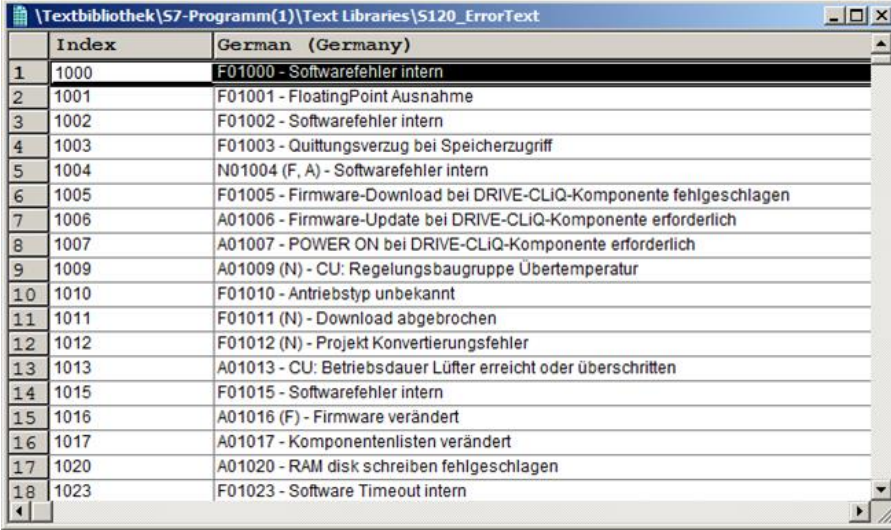
Now you can copy the error codes and error texts to the text library in the selected language.

Table 4-4

No.	Action						
1.	<p>Double-click the text library to open the text library editor.</p>  <p>The screenshot shows the SIMATIC Manager interface. The title bar reads 'SIMATIC Manager - Textbibliothek'. The menu bar includes 'File', 'Edit', 'Insert', 'PLC', 'View', 'Options', 'Window', and 'Help'. The toolbar contains various icons for file operations and editing. The main window displays a tree view of the project structure: 'Textbibliothek' (root), 'S7-Programm(1)' (sub-project), 'Quellen' (Sources), 'Bausteine' (Components), and 'Text Libraries'. The 'S120_ErrorText' file is selected and highlighted in blue.</p>						
	<p>The editor opens the text library in the set language.</p>  <p>The screenshot shows the 'Edit user text library' dialog box. The title bar reads 'Edit user text library - \Textbibliothek\S7-Programm(1)\Text Libraries\S120_ErrorText'. The menu bar includes 'Texts', 'Edit', 'View', 'Window', and 'Help'. The toolbar contains icons for text editing and a 'HEX' button. The main area displays a table with the following content:</p> <table border="1" data-bbox="486 1243 1359 1332"> <thead> <tr> <th data-bbox="486 1243 518 1265"></th> <th data-bbox="518 1243 686 1265">Index</th> <th data-bbox="686 1243 1359 1265">German (Germany)</th> </tr> </thead> <tbody> <tr> <td data-bbox="486 1265 518 1288">1</td> <td data-bbox="518 1265 686 1288">0</td> <td data-bbox="686 1265 1359 1288"></td> </tr> </tbody> </table> <p>The status bar at the bottom of the dialog reads 'Press F1 for help.' and includes a 'NUM' indicator.</p>		Index	German (Germany)	1	0	
	Index	German (Germany)					
1	0						

4 Importing / Integrating the Texts into the STEP 7 Text Library


No.	Action
2.	<p>In the Microsoft Excel spreadsheet, select all error codes and error texts and copy the data to the clipboard.</p> 
3.	<p>In the text library editor, select the index and the error text column.</p> 

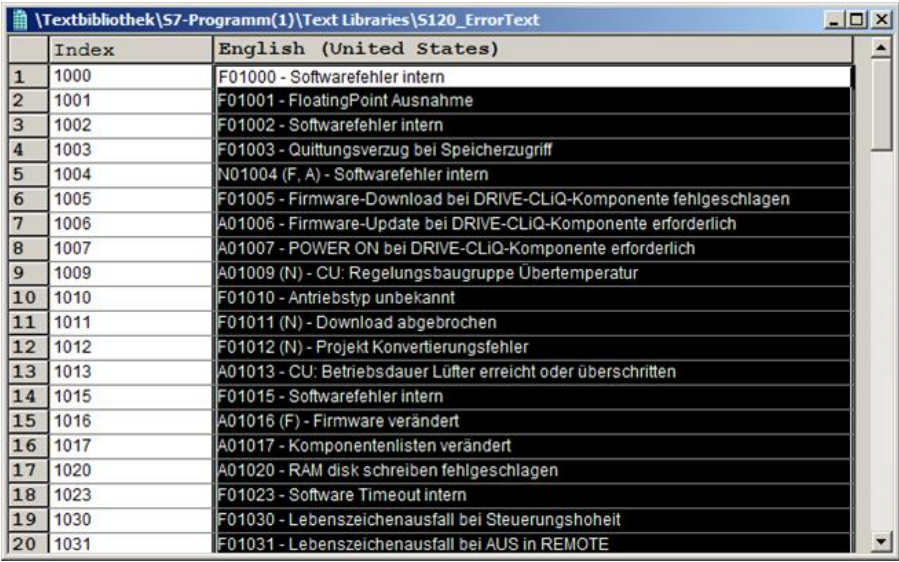
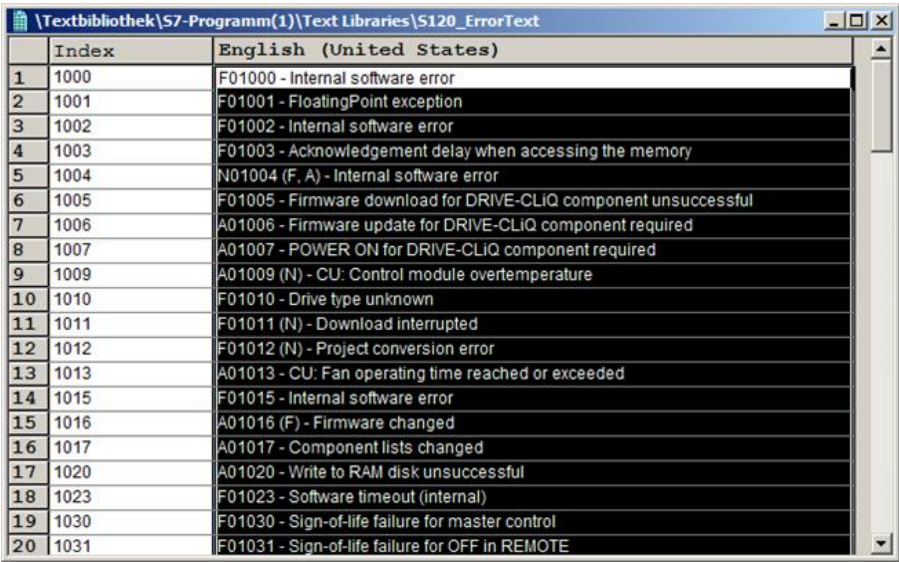
No.	Action
4.	<p>Use, for example, the <Ctrl>+<V> keyboard shortcut to paste the error codes and error texts from the clipboard.</p> 
5.	Save and close the text library.

4.6 Adding additional language versions

To add the additional language versions to the text library, first select the appropriate language as shown in Chapter 4.4.

Table 4-5

No.	Action
1.	<p>Double-click the text library to open the text library editor.</p> <p>If error texts are not yet available in the selected language, the spreadsheet displays the error texts of the default language.</p>
2.	<p>In Excel, select only the error texts of the desired language version and copy them to the clipboard.</p> 

No.	Action																																																														
3.	<p>In the editor, select only the error text column.</p>  <table border="1"> <thead> <tr> <th>Index</th> <th>English (United States)</th> </tr> </thead> <tbody> <tr><td>1</td><td>1000</td><td>F01000 - Softwarefehler intern</td></tr> <tr><td>2</td><td>1001</td><td>F01001 - FloatingPoint Ausnahme</td></tr> <tr><td>3</td><td>1002</td><td>F01002 - Softwarefehler intern</td></tr> <tr><td>4</td><td>1003</td><td>F01003 - Quittungsverzug bei Speicherzugriff</td></tr> <tr><td>5</td><td>1004</td><td>N01004 (F, A) - Softwarefehler intern</td></tr> <tr><td>6</td><td>1005</td><td>F01005 - Firmware-Download bei DRIVE-CLiQ-Komponente fehlgeschlagen</td></tr> <tr><td>7</td><td>1006</td><td>A01006 - Firmware-Update bei DRIVE-CLiQ-Komponente erforderlich</td></tr> <tr><td>8</td><td>1007</td><td>A01007 - POWER ON bei DRIVE-CLiQ-Komponente erforderlich</td></tr> <tr><td>9</td><td>1009</td><td>A01009 (N) - CU: Regelungsbaugruppe Übertemperatur</td></tr> <tr><td>10</td><td>1010</td><td>F01010 - Antriebstyp unbekannt</td></tr> <tr><td>11</td><td>1011</td><td>F01011 (N) - Download abgebrochen</td></tr> <tr><td>12</td><td>1012</td><td>F01012 (N) - Projekt Konvertierungsfehler</td></tr> <tr><td>13</td><td>1013</td><td>A01013 - CU: Betriebsdauer Lüfter erreicht oder überschritten</td></tr> <tr><td>14</td><td>1015</td><td>F01015 - Softwarefehler intern</td></tr> <tr><td>15</td><td>1016</td><td>A01016 (F) - Firmware verändert</td></tr> <tr><td>16</td><td>1017</td><td>A01017 - Komponentenlisten verändert</td></tr> <tr><td>17</td><td>1020</td><td>A01020 - RAM disk schreiben fehlgeschlagen</td></tr> <tr><td>18</td><td>1023</td><td>F01023 - Software Timeout intern</td></tr> <tr><td>19</td><td>1030</td><td>F01030 - Lebenszeichenausfall bei Steuerungshoheit</td></tr> <tr><td>20</td><td>1031</td><td>F01031 - Lebenszeichenausfall bei AUS in REMOTE</td></tr> </tbody> </table>	Index	English (United States)	1	1000	F01000 - Softwarefehler intern	2	1001	F01001 - FloatingPoint Ausnahme	3	1002	F01002 - Softwarefehler intern	4	1003	F01003 - Quittungsverzug bei Speicherzugriff	5	1004	N01004 (F, A) - Softwarefehler intern	6	1005	F01005 - Firmware-Download bei DRIVE-CLiQ-Komponente fehlgeschlagen	7	1006	A01006 - Firmware-Update bei DRIVE-CLiQ-Komponente erforderlich	8	1007	A01007 - POWER ON bei DRIVE-CLiQ-Komponente erforderlich	9	1009	A01009 (N) - CU: Regelungsbaugruppe Übertemperatur	10	1010	F01010 - Antriebstyp unbekannt	11	1011	F01011 (N) - Download abgebrochen	12	1012	F01012 (N) - Projekt Konvertierungsfehler	13	1013	A01013 - CU: Betriebsdauer Lüfter erreicht oder überschritten	14	1015	F01015 - Softwarefehler intern	15	1016	A01016 (F) - Firmware verändert	16	1017	A01017 - Komponentenlisten verändert	17	1020	A01020 - RAM disk schreiben fehlgeschlagen	18	1023	F01023 - Software Timeout intern	19	1030	F01030 - Lebenszeichenausfall bei Steuerungshoheit	20	1031	F01031 - Lebenszeichenausfall bei AUS in REMOTE
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Note

When copying, make sure that the error texts are arranged consistently with the error codes.

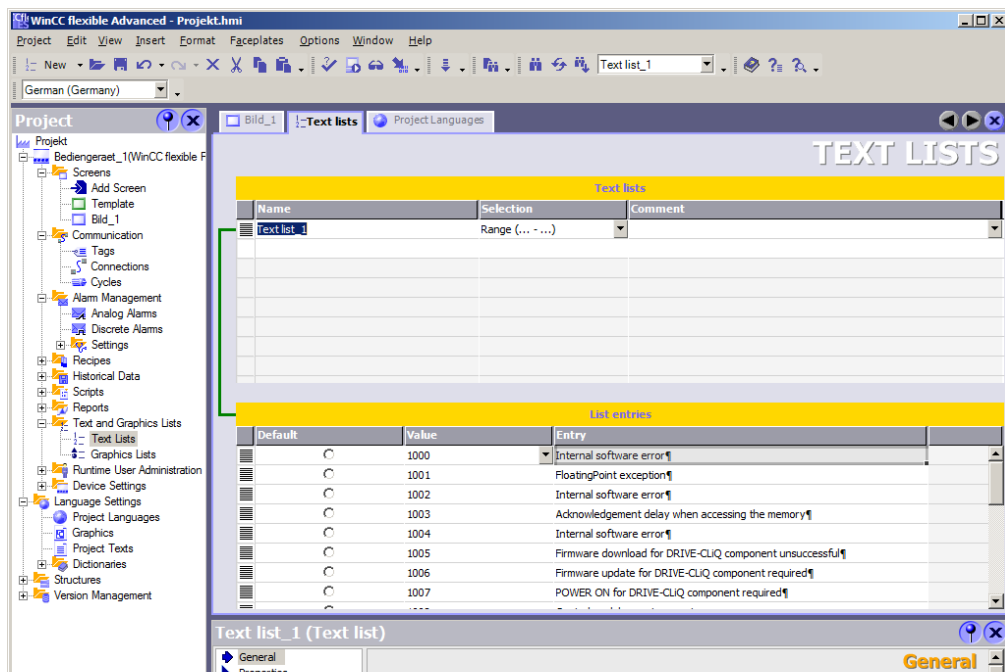
If the error texts and the error codes are arranged correctly in the Excel spreadsheet row by row in all languages, transferring the texts will not cause any problems, even without copying the error codes.

5 Integrating the Texts into the WinCC flexible HMI Project

5.1 Requirements for integrating the texts into the HMI

The texts are integrated into the HMI project as a text list. The error number in the text list is the reference for the error text. Based on the error number, the error texts can then also be used in the HMI.

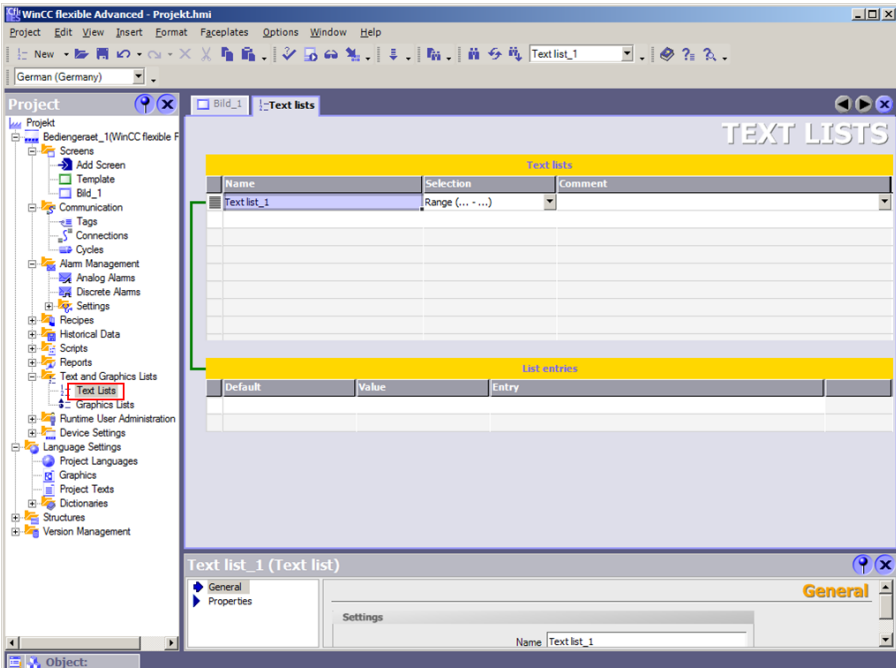
Figure 5-1 Integrating the warning and error messages into a text list

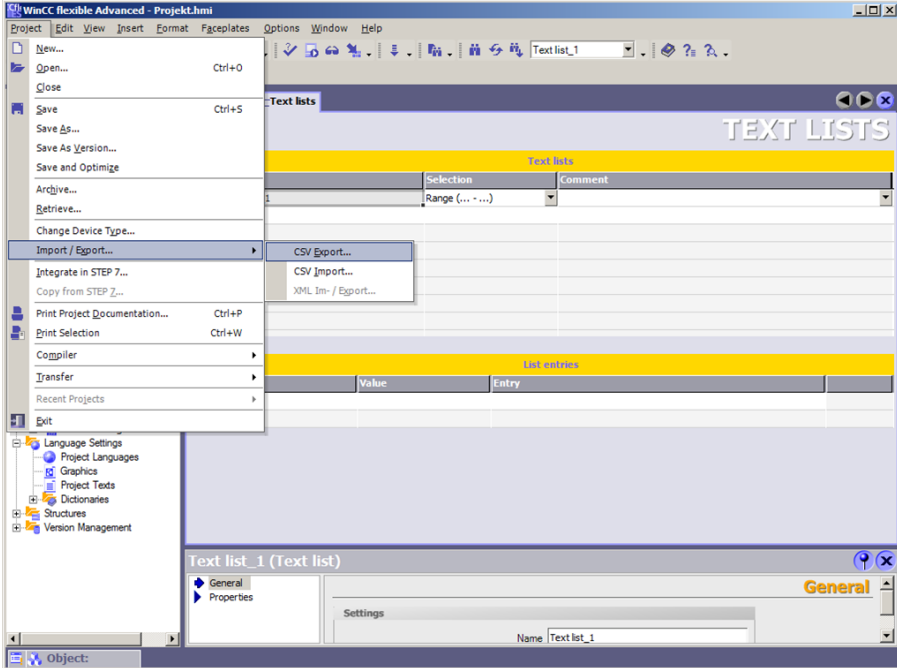
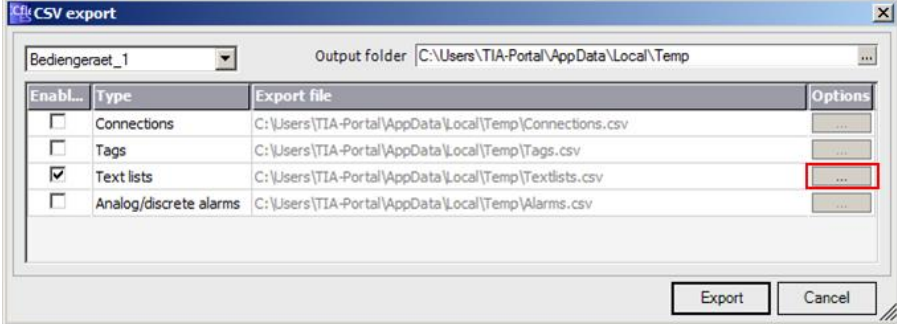


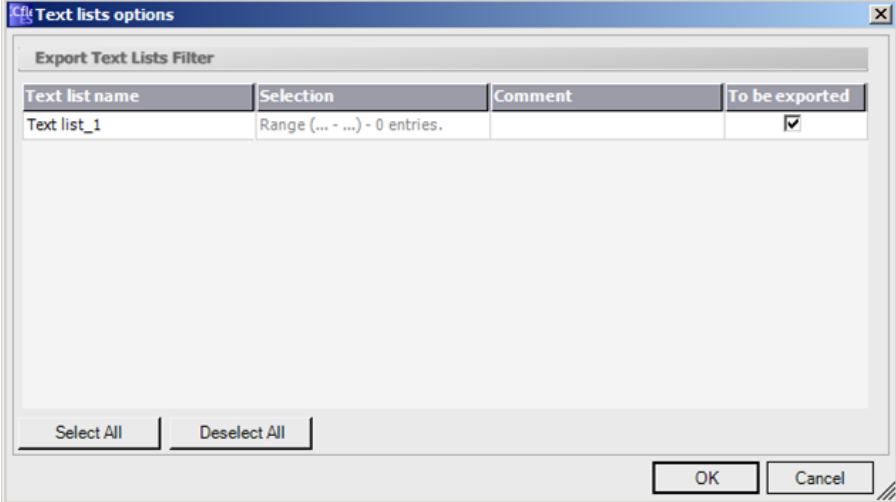
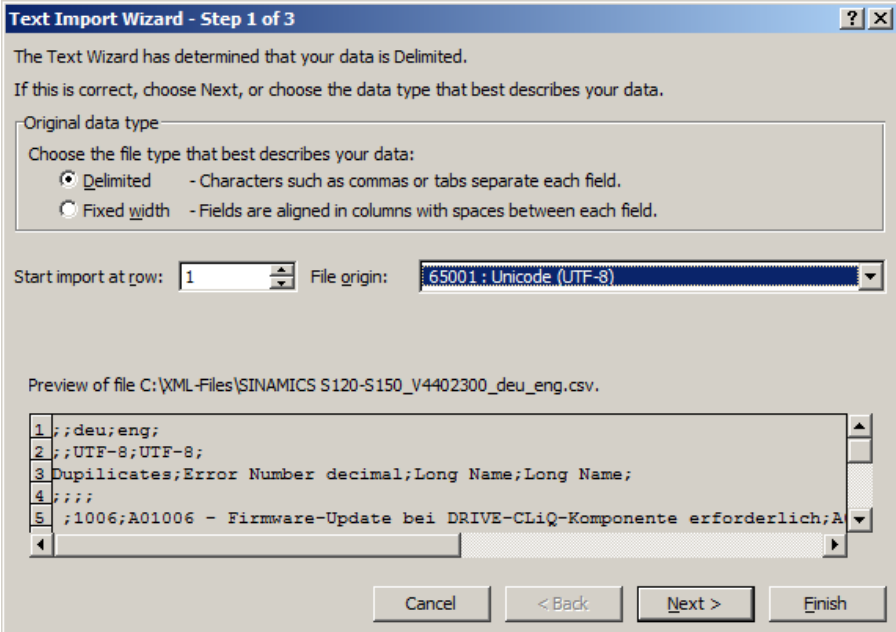
5.2 Integrating the texts into an HMI project

To integrate the texts into an HMI project, create a text list in WinCC flexible by following the below description and insert the warning and error messages into this text list.

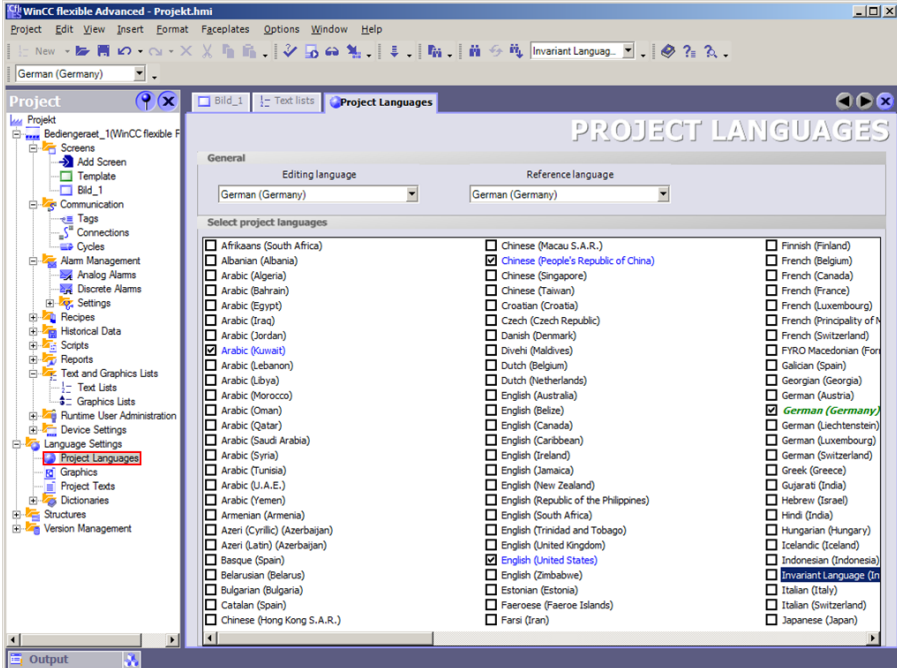

Table 5-1

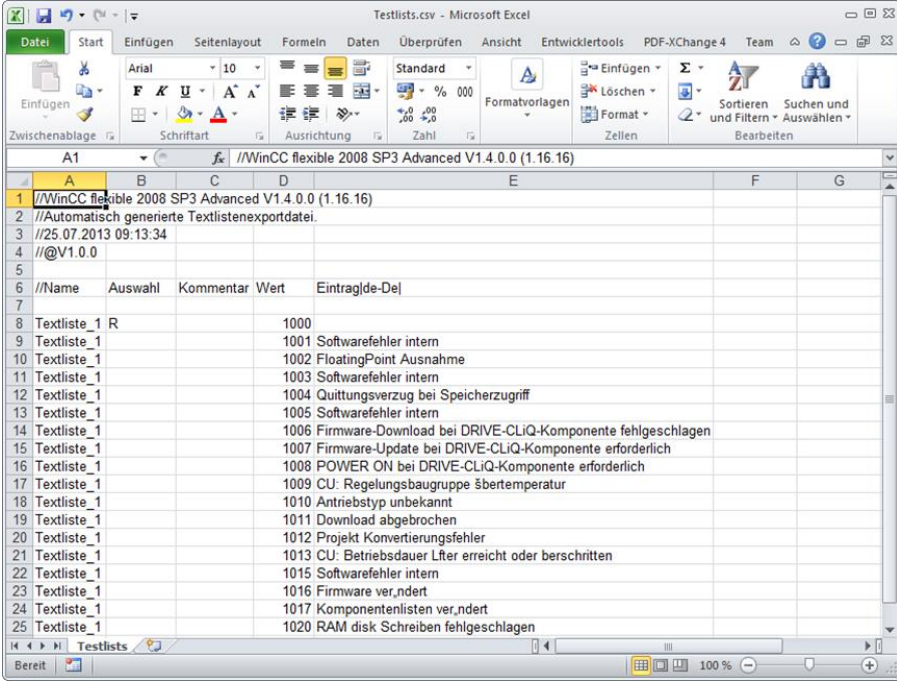
No.	Action
1.	<p>Below the HMI device in the "Texts and Graphic lists" menu item, select the "Text lists" tab and insert a new text list.</p> 

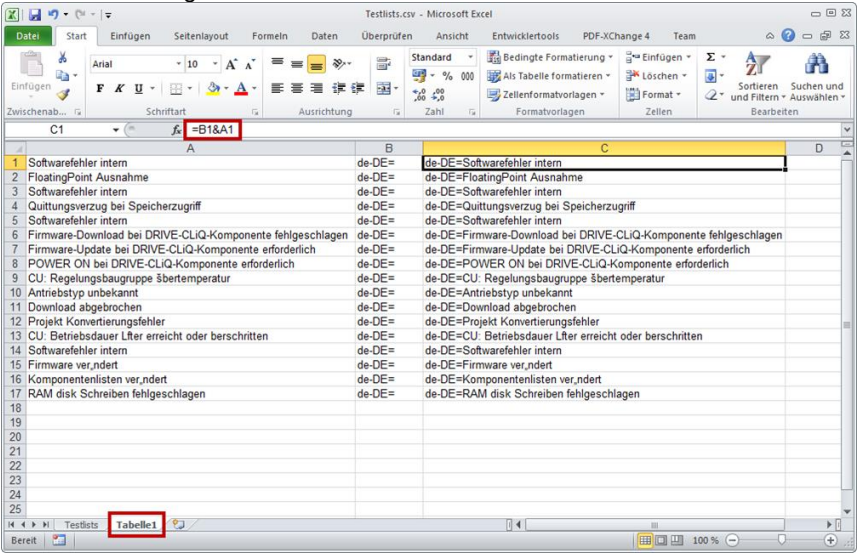
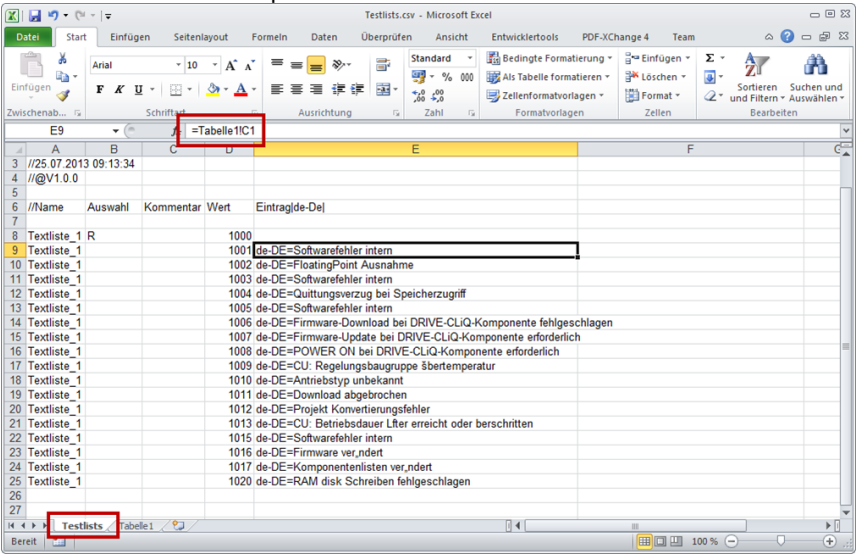
No.	Action
2.	<p>Select "Project > Import / Export... > CSV Export..." to export the newly created text list.</p> 
3.	<p>In the following menu, check the Text lists type and select your desired storage location. The exported CSV file is saved as "Textlists.csv".</p>  <p>If your project already contains multiple text lists, the "..." button allows you to open the menu for selecting the text lists to be exported.</p>


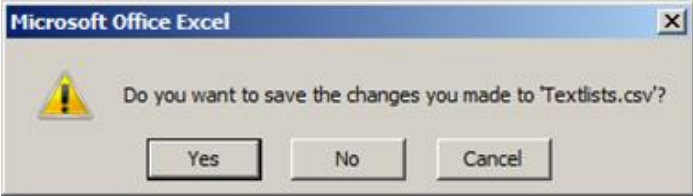
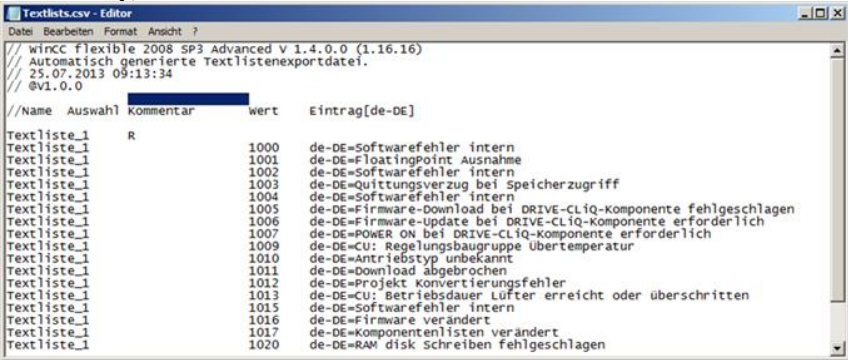
No.	Action
4.	<p>In this menu, check the text list to be exported into which you want to insert the warning and error messages. Select "OK" to confirm. Use the "Export" button to complete the export process.</p> 
5.	<p>In Microsoft Excel, open the CSV file with the warning and error messages by opening a blank Excel spreadsheet and importing the data of the CSV file into the blank spreadsheet using the wizard.</p> 

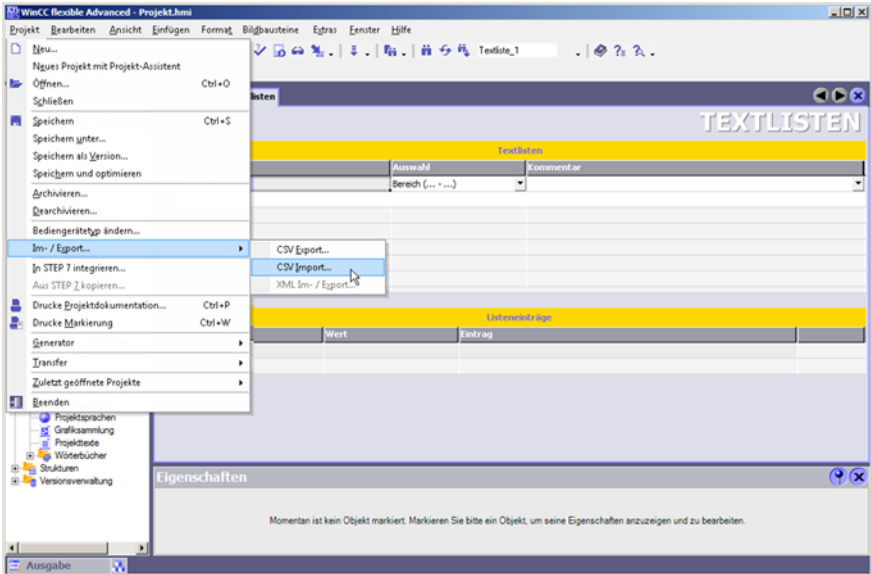
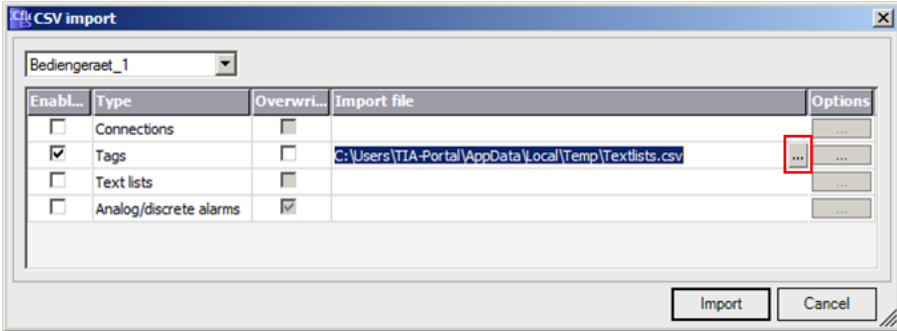
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6.	<p>Check the CSV file entries for duplicate error numbers. To import the warning and error messages into the HMI project, each error number must exist only once in the list. In the "Duplicates" column of the CSV file, duplicates are marked by an "X". Merge any duplicate entries into one row or delete duplicate error numbers or entries.</p> <table border="1" data-bbox="464 483 1366 846"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr><td>1</td><td>deu</td><td></td><td>eng</td></tr> <tr><td>2</td><td>UTF-8</td><td></td><td>UTF-8</td></tr> <tr><td>3</td><td>Duplicates</td><td>Error Number decimal Long Name</td><td>Long Name</td></tr> <tr><td>5</td><td></td><td>1006 Firmware-Update bei DRIVE-CLIQ-Komponente erforderlich</td><td>Firmware update for DRIVE-CLIQ component required</td></tr> <tr><td>6</td><td></td><td>1007 POWER ON bei DRIVE-CLIQ-Komponente erforderlich</td><td>POWER ON for DRIVE-CLIQ component required</td></tr> <tr><td>7</td><td></td><td>1009 CU-Regelungsbaugruppe Übertemperatur</td><td>CU Control module overtemperature</td></tr> <tr><td>8</td><td></td><td>1016 Firmware verändert</td><td>Firmware changed</td></tr> <tr><td>9</td><td>X</td><td>1017 Komponentenlisten 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No.	Action
9.	<p>If necessary, select additional languages in the HMI project. The warning and error messages can then be displayed at HMI runtime by changing the language.</p>  <p>Note: Only warning and error messages in languages that have already been created as project languages in the HMI project can be integrated into the HMI project.</p>
10.	<p>In WinCC flexible, below the HMI device, go to "Language Settings", "Project Languages" and set the selected error text language as the "editing language".</p> 

No.	Action
11.	<p>Proceed as follows to insert the copied cells into the exported spreadsheet.</p>  <p>Note: Make sure to expand down the "Name" column using the Copy function. Do not make any other changes to the spreadsheet format. After the last inserted row, there must be no other rows with blank cells. Delete them if necessary.</p>

No.	Action
12.	<p>The texts must be prefixed with "en-US=". Here is a short example of how to avoid having to add it manually in each row:</p> <ol style="list-style-type: none"> Open a second spreadsheet in your Excel workbook and copy the warning and error messages to the first column. In the second column, enter the prefix "en-US=" for English. If you want to import messages in other languages, the instructions are the same; only change the prefix of the respective language. Select the first cell of column C and combine the two texts of columns B and A into one text using the "=B1&A1" function.
	
	<ol style="list-style-type: none"> Use this function with the Copy function for the remaining cells. Return to the "Textlists" spreadsheet and select the first cell of column E.
	
	<ol style="list-style-type: none"> Use the "=Table1!C1" function to copy the contents of spreadsheet 1 and cell C1 to the selected cell. Use this function with the Copy function for the remaining cells.

No.	Action
13.	<p>Then save the Excel workbook. Stay in the "Textlists" spreadsheet. A prompt appears, asking whether you want to keep the format. Select "Yes" to confirm this message.</p> 
14.	<p>Now close the edited Excel workbook. Select "No" to confirm the following message.</p> 
15.	<p>To import additional languages for warning and error messages that exist in the CSV file into the HMI project, repeat the copy process described above for the other project languages.</p>
16.	<p>It is possible that Microsoft Excel inserts blank cells with tabs when saving. This may cause problems when subsequently importing into WinCC flexible. To check this, proceed as follows:</p> <ol style="list-style-type: none"> 1. Use the editor to open the CSV file and check whether there are tabs in rows 5 and 7. 2. If necessary, delete them and insert a line break instead. 
17.	<p>Save and close the file.</p>

No.	Action
18.	<p>Select "Project > Import / Export... > CSV Import..." to reimport the CSV file you have edited into WinCC flexible.</p> 
19.	<p>In the following menu, use the "... " button to select the file with the warning and error messages. Select "Import" to confirm.</p> 

Note In WinCC flexible, only texts with a maximum of 320 characters can be imported into a text list or displayed in an I/O field. Therefore, make sure that the length of the texts to be imported is less than this maximum length.

6 Links & Literature

Table 6-1

	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/77467239
\3\	Technology CPUs: "Error Messages" Technology Template https://support.industry.siemens.com/cs/ww/en/view/21402122

7 History

Table 7-1

Version	Date	Modifications
V1.1	07/2019	First version