

Industry Online Support

NEWS

SINAMICS G/S: Integrating Warning and Error Messages into a WinCC TIA Portal Project

# SINAMICS G/S

https://support.industry.siemens.com/cs/ww/en/view/77467239

Siemens Industry Online Support



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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  |
|--|-----|--------------------|---|
| STEP 7 Professional<br>V12               | 1   | 6ES7822-1AA02-0YA5 |   |
| SIMATIC<br>WinCC Advanced<br>Version V12 | 1   | 6AV2102-0AA02-0AA5 | Example:<br>Integrating the warning<br>and error texts into a<br>WinCC TIA Portal text<br>list. |
| Microsoft<br>Excel 2010                  | 1   |                    | Example:<br>Editing the texts in the<br>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. <u>https://support.industry.siemens.com</u>.

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.





## 4 Integrating the Texts into the WinCC TIA Portal HMI Project

### 4.1 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.

| inCC               | ► HM       | I_1 (TP1200   | Comfort] > Text and        | graphic lists                                    |        |         |  |  |             |
|--------------------|------------|---------------|----------------------------|--|--------|---------|--|--|-------------|
|                    |            |               |                            |  |        |         |  |  | 🔡 Text list |
| •                  | •          |               |                            |  |        |         |  |  |             |
| Te                 | xt lists   |               |                            |  |        |         |  |  |             |
|                    | Name 🖌     |               |                            | Selection  |        | Comment |  |  |             |
| 1-2-               | SINAMIC    | S_ErrorWarnin | gs                         | Value/Range                                      | -      |         |  |  |             |
| <add new=""></add> |            |               |                            |  |        |         |  |  |             |
| To                 | et liet o  | ntrios        |                            |  |        | • • • • |  |  |             |
| Te:                | xt list e  | nuties        |                            |  |        |         |  |  |             |
| 1.                 | Default    | value 🔺       | lext                       | -  |        |         |  |  |             |
| 1                  | 0          | 1000          | Internal software erro     |  |        |         |  |  |             |
| 1                  | 0          | 1001          | Internal software erro     |  |        |         |  |  |             |
| 1                  | 0          | 1002          | Acknowledgement de         | lavwhan accession                                | the ~  | am      |  |  |             |
| 1.                 | 0          | 1003          | Internal software erro     | ay when accessing                                | uie ii | iem -   |  |  |             |
| 1                  | 0          | 1004          | Firmware download fr       | n DBIVE-CLiO compo                               | nent   | 107     |  |  |             |
| 1                  | 0          | 1005          | Firmware update for f      | Firmware download for DRIVE-CLIQ component uns   |        |         |  |  |             |
| 1                  | 8          | 1005          | POWER ON for DRIVE-C       | FIRMWARE Update for DRIVE-CLIQ component require |        |         |  |  |             |
| 1                  | 0          | 1009          | CU: Control module or      | CII: Control module overtemperature              |        |         |  |  |             |
| 1                  | ő          | 1010          | Drive type unknown         | Co. Control module overtemperature               |        |         |  |  |             |
| 1.                 | ŏ          | 1011          | Download interrupted       | Download interrupted                             |        |         |  |  |             |
| 1                  | ŏ          | 1012          | Project conversion err     | Project conversion error                         |        |         |  |  |             |
| 1.                 | ŏ          | 1013          | CU: Fan operating tim      | e reached or exceed                              | ed     |         |  |  |             |
| 1.                 | ŏ          | 1015          | Internal software erro     | r  |        |         |  |  |             |
| 1                  | ŏ          | 1016          | Firmware changed           |  |        |         |  |  |             |
| 1.                 | Õ          | 1017          | Component lists char       | aed  |        |         |  |  |             |
| 1.                 | õ          | 1020          | Writing to RAM disk un     | successful                                       |        |         |  |  |             |
| 1                  | Õ          | 1023          | Software timeout (inte     | ernal)   |        |         |  |  |             |
| 1.                 | Ó          | 1030          | Sign-of-life failure for r | naster control                                   |        |         |  |  |             |
| 1.                 | Ō          | 1031          | Sign-of-life failure for ( | OFF in REMOTE                                    |        |         |  |  |             |
| 1.                 | 0          | 1032          | ACX: all parameters n      | ACX: all parameters must be saved                |        |         |  |  |             |
| 1                  | $\bigcirc$ | 1033          | Units changeover: Ret      | erence parameter va                              | alue i | nva     |  |  |             |
| 1                  | 0          | 1034          | Units changeover: Ca       | culation parameter                               | value  | s af    |  |  |             |
| 1                  | $\bigcirc$ | 1035          | ACX: Parameter back-       | up file corrupted                                |        |         |  |  |             |
| 1                  | $\bigcirc$ | 1036          | ACX: Parameter back-       | up file missing                                  |        |         |  |  |             |
| 1                  | 0          | 1038          | ACX: Loading the para      | meter back-up file u                             | nsuco  | :ess    |  |  |             |
| 1                  | $\bigcirc$ | 1039          | ACX: Writing to the pa     | rameter back-up file                             | was u  | insi    |  |  |             |
| 1.                 |            | 1041          | Parameter save nece        | san  |        |         |  |  |             |

Figure 4-1 Integrating the warning and error messages into a text list

### 4.2 Integrating the texts into an HMI project

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

| • | Action   |            |   |                   |           |                       |             |                      |
|---|--|------------|---|-------------------|-----------|-----------------------|-------------|----------------------|
|   | Below the HMI device in the "Texts and Graphic lists" menu item, select the "Text lists" tab and insert a new text list. |            |   |                   |           |                       |             |                      |
|   | Project tree  U  WinCC  HM_1 [TP1200 Comfort]  Text and graphic lists  |            |   |                   |           |                       |             |                      |
|   | Devices  |            |   |                   |           |                       |             | 🗄 Text lists 🖹 Grapi |
|   | 1 O O  | <b></b>    |   |                   |           |                       |             |                      |
|   | - WinCC  |            | Name 🔺  |                   |           | Selection Comment     |             |                      |
|   | Add new device     Bevices & networks     HIL1 [TP1200 Comfort]     Device configuration     Option disconting           |            | SINAMICS_ErrorW<br><add new=""></add>                                       | larnings          |           | Value/Range           |             |                      |
|   | Runtime settings   |            | Text list entries   | Test              |           |                       |             |                      |
|   | Greens     Green management  |            | <add ne<="" td=""><td>nw&gt;</td><td></td><td></td><td></td><td></td></add> | nw>               |           |                       |             |                      |
|   | HMI tags   |            |   |                   |           |                       |             |                      |
|   | HMI alarms   |            |   |                   |           |                       |             |                      |
|   | Historical data  |            |   |                   |           |                       |             |                      |
|   | Scripts     Scheduled tasks  |            |   |                   | _         |                       |             |                      |
|   | Cycles   |            | SINAMICS_ErrorWarr  | nings [Text_list] | _         |                       | Q Propertie | es Linfo Diagnostics |
|   | Text and graphic lists   |            | General   | Ganari            |           |                       |             |                      |
|   | Common data  |            | General   | Settings          | _         |                       |             |                      |
|   | Languages & resources  |            |   | Nam               | e: S      | INAMICS_ErrorWarnings |             |                      |
|   | Card Reader/USB memory   |            |   | Selectio          | in: V     | 'alue/Range 💌         | ]           |                      |
|   |  |            |   | Comment           |           |                       |             |                      |
|   |  |            |   |                   |           |                       |             | <u>^</u>             |
|   | In the newly cre   | eate<br>an | d text list,<br>d freely se   | create tw         | O I<br>ex | new entries wit       | h a freely  | / selectable "val    |
|   |  | Comf       | wtl N Toxt and (  |                   | U/        | t, e.g. a blarite     | ona y.      |                      |
|   | Wince / Hwi_1[I11200   | conn       | ing v rexcand ç   | graphic lists     |           |                       |             | Toxt lists Craphic   |
|   |  |            |   |                   |           |                       |             |                      |
|   | Text lists   |            |   |                   |           |                       |             |                      |
|   | Name 🔺   |            |   | Selection         |           | Comment               |             |                      |
|   | SINAMICS_ErrorWarning  | s          |   | Value/Range       | •         |                       |             |                      |
|   | <add new=""></add>   |            |   |                   |           |                       |             |                      |
|   |  |            |   |                   |           |                       |             |                      |
|   | Text list entries  |            |   |                   |           |                       |             |                      |
|   | Default Value  | Te         | t   |                   |           |                       |             |                      |
|   |  | <b>T</b>   |   |                   |           |                       |             |                      |
|   | <add new=""></add>   |            |   |                   |           |                       |             |                      |
|   |  |            |   |                   |           |                       |             |                      |

| No. |  | Action  |  |   |  |  |  |  |  |  |
|-----|--|---|--|---|--|--|--|--|--|--|
| 3.  | 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. |   |  |   |  |  |  |  |  |  |
|     | 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   | e the file type th  | nat best describes your data:  |   |  |  |  |  |  |  |
|     |  | Delimited -   | Characters such as commas or tabs separate each  | field.  |  |  |  |  |  |  |
|     |  | C Fixed width - Fields are aligned in columns with spaces between each field. |  |   |  |  |  |  |  |  |
|     | Start imp  | ort at <u>r</u> ow: 1   | File <u>o</u> rigin: 65001 : Unicode (UT   | F-8)  |  |  |  |  |  |  |
| 4.  | Preview  | the CSV file<br>ont the warr<br>dist only ond<br>tes are mar                  | Files\SINAMICS S120-S150_V4402300_deu_eng.cs<br>;<br>rror Number decimal;Long Name;Long N<br>- Firmware-Update bei DRIVE-CLiQ-Ko<br>Cancel <bad<br>e entries for duplicate error numbers.<br/>hing and error messages into the HM<br/>ce in the list. In the "Duplicates" colur<br/>ked by an "X".<br/>te entries into one row or delete dupl</bad<br> | v.<br>Name;<br>Imponente erforderlich; A<br>Next > Enish<br>I project, each error number<br>mn of the CSV file,<br>icate error numbers or |  |  |  |  |  |  |
|     | A A  | В   | с  | D   |  |  |  |  |  |  |
|     | 2<br>3 Dupilicates   | Error Number decimal  | OPU<br>UTF-8<br>Long Name  | eng UTF-8   |  |  |  |  |  |  |
|     | 4<br>5   | 1006  | A01006 - Firmware-Undate bei DRIVE-CLiQ-Komponente erforderlich  | A01006 - Eirmware update for DRIVE-CLiQ component requi   |  |  |  |  |  |  |
|     | 6  | 1007  | A01007 - POWER ON bei DRIVE-CLiQ-Komponente erforderlich<br>A01009 (N) - CU: Regelungsbaugruppe Übertemperatur   | A01007 - POWER ON for DRIVE-CLiQ component required<br>A01009 (N) - CU: Control module overtemperature                                    |  |  |  |  |  |  |
|     | 8  | 1013  | A01013 - CU: Betriebsdauer Lüfter erreicht oder überschritten<br>A01016 (E) - Eirmware verändert   | A01013 - CU: Fan operating time reached or exceeded   |  |  |  |  |  |  |
|     | 10   | 1017  | A01010 (1) - I initiale verändert<br>A01017 - Komponentenlisten verändert  | A01017 - Component lists changed  |  |  |  |  |  |  |
|     | 11<br>12 X   | 1020  | A01020 - RAM disk schreiben fehlgeschlagen<br>A01035 (E) - ACX: Hochlauf erfolgt aus Backup-Parametersicherungsdateien   | A01020 - Write to RAM disk unsuccessful<br>A01035 (E) - ACX: Boot from the back-up parameter back-up                                      |  |  |  |  |  |  |
|     | 13 X   | 1035  | A01035 (F) - ACX: Hochlauf erfolgt aus Backup-Parametersicherungsdateien   | A01035 (F) - ACX: Boot from the back-up parameter back-up   |  |  |  |  |  |  |
|     | 14   | 1045  | A01045 - CU: Projektierungsdaten ungültig<br>A01049 - CU: Schreiben in Datei nicht möglich   | A01045 - CU: Configuring data invalid<br>A01049 - CU: It is not possible to write to file   |  |  |  |  |  |  |
|     | 16   | 1064  | A01064 (F) - CU: Interner Fehler (CRC)   | A01064 (F) - CU: Internal error (CRC)   |  |  |  |  |  |  |
|     | 17   | 1069  | A01069 - Parametersicherung und Gerät inkompatibel   | A01069 - Parameter backup and device incompatible   |  |  |  |  |  |  |
|     | 19   | 1100  | A01009 - Tolefanzienster der Onizensynchronisation verlassen<br>A01100 - CU: Speicherkarte gezogen   | A01099 - Tolerance window of time synchronization exited<br>A01100 - CU: Memory card withdrawn  |  |  |  |  |  |  |
|     | 20 X   | 1223  | A01223 - CU: Abtastzeit inkonsistent   | A01223 - CU: Sampling time inconsistent   |  |  |  |  |  |  |
|     | 21 X   | 1223  | AU1223 - CU: Abtastzeit inkonsistent<br>A01224 - CU: Pulsfrequenz inkonsistent   | A01223 - CU: Sampling time inconsistent<br>A01224 - CU: Pulse frequency inconsistent  |  |  |  |  |  |  |
|     | 23   | 1251  | A01251 - CU: CU-EEPROM Read-Write-Daten fehlerhaft   | A01251 - CU: CU-EEPROM incorrect read-write data  |  |  |  |  |  |  |
|     | A A P M Tabe   | alle1   | A01266 CU: Option Roard EEDPOM Road Write Datas fableshaft   | A01266 CU: Ontion Roard EEPPOM road write data error  |  |  |  |  |  |  |



No. Action 8. Select the "Value" and "Text" columns of the two entries newly created in the text list (2 rows) and paste the copied error numbers and error texts from the clipboard. WinCC + HMI\_1 [TP1200 Comfort] + Text and graphic lists \_∎∎× 🗄 Text lists 🖹 Graphic lists ₽ ₽ Text lists Selection Name 
SINAMICS\_ErrorWarnings -Value/Range <Add news Text list entries Default Value 
O
1 -Add ne 9. Confirm the dialog for inserting the texts into the text list by selecting the "Overwrite Text list entry attributes" option. Raste x What do you want to do? Overwrite Text list entry attributes Insert Text list entries OK Cancel The warning and error messages of the SINAMICS drive have now been imported into a text list of the HMI project. WinCC 
HMI\_1 [TP1200 Comfort] 
Text and graphic li \_ 7 = X 🗄 Text lists 🖹 Graphic lists 🖻 🛃 Text lists Name 
SINAMICS\_ErrorWarnings Selection Comment -Value/Range <Add new> Text list entries Default Value 1000 F01000 - Softwarefehler intern 1001 F01001 - FloatingPoint Ausnahme 1002 F01002 - Softwarefehler intern F01003 - Quittungsverzug bei Speicherzugriff 1003 1004 N01004 (F, A) - Softwarefehler intern F01005 - Firmware-Download bei DRIVE-CLiQ-Komp A01006 - Firmware-Update bei DRIVE-CLiQ-Kompon 1005 1006 1007 A01007 - POWER ON bei DRIVE-CLiQ-Komponente ei A01009 (N) - CU: Regelungsbaugruppe Übertemper 1009 1010 F01010 - Antriebstyp unbekannt F01011 (N) - Download abgebrochen F01012 (N) - Projekt Konvertierungsfehler 1011 1012 1013 A01013 - CU: Betriebsdauer Lüfter erreicht oder übe 1015 F01015 - Softwarefehler intern 1016 A01016 (F) - Firmware verändert

#### Note

In WinCC TIA Portal, 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.

Texts that exceed 320 characters are marked in red when importing or inserting into the text list and need to be edited manually.

### 4.3 Adding additional language versions

If you want to import additional languages for warning and error messages that exist in the CSV file into the HMI project, repeat the import process described above for the other project languages.

No. Action 1. In WinCC TIA Portal, go to "Tasks", "Languages & resources" and set the language to be newly inserted as the "editing language". WinCC 

Languages & resources 

Project languages General Editing language: English (United States) 2. In the CSV file, select only the column with the error texts in the selected language and copy it to the clipboard. deu UTF-8 Error Number decimal Long Name eng UTF-8 Long Name Long Name
F01000 - Internal software error
F01001 - FloatingPoint exception
F01002 - Internal software error
F01003 - Acknowledgement delay when accessing the memory
F01005 - Firmware download for DRIVE-CLiQ component unsuccessful
A01006 - Firmware update for DRIVE-CLiQ component unsuccessful
A01007 - POWER ON for DRIVE-CLiQ component required
A01007 - POWER ON for DRIVE-CLiQ component required
F01010 - Drive type unknown
F01011 (N) - Download interrupted
F01012 (N) - Project conversion error
A01013 - CU: Fan operating time reached or exceeded
F01015 - Internal software error
A01016 (F) - Firmware changed
A01020 - Virtue to RAM disk unsuccessful
F01023 - Stoware timeout (internal)
F01013 - Stoware firmeout (internal)
F01013 - Stoware firmeou F0100 - Softwarefehler intern F01000 - FloatingPoint Ausnahme F01002 - Softwarefehler intern F01003 - Quitungsvezzug bei Speicherzugriff N01004 (F. A) - Softwarefehler intern F01005 - Firmware-Dydate bei DRVE-CLIQ-Komponente efroderlich A01006 - Firmware-Dydate bei DRVE-CLIQ-Komponente efroderlich A01006 - DVER-QN bei DRVE-CLIQ-Komponente efroderlich A01009 (N) - CU: Regelungsbaugruppe Übertemperatur F01010 - Antribestyp unbekannt F01011 (N) - Powielk Konvertierungsfehler F01012 (N) - Poriekt Konvertierungsfehler A01013 - CU: Betriebsdauer Lüfter erreicht oder überschritten F01015 - Softwarefehler intern 1000 1001 1002 1003 1004 1005 1006 1007 1009 1010 1011 1012 1013 1015 1016 1017 1020 1023 1030 A01013 - CU: Betnebsdauer Lüfter erreicht oder übers F01015 - Softwarfehler intem A01016 (F) - Firmware verändert A01017 - Komponentenlisten verändert A01020 - RAM disk schreiben Fehlgeschlagen F01023 - Software Timeout intem F01030 - Lebenszeichenausfall bei Steuerungshoheit E01031 - Lebenszeichenausfall bei Steuerungshoheit 3. In WinCC TIA Portal, in the text list, select all rows in the "Text" column for which an error number is specified in the "Value" column. WinCC > HMI\_1 [TP1200 Comfort] > Text and graphic lists \_∎■× 🗄 Text lists 🖹 Graphic lists 🖻 🛃 Text lists Name 
SINAMICS\_ErrorWarnings Selection Comment Value/Range -<Add new> Text list entries Default Value Text 1000 -1001 1002 1003 1004 1005 1006 1007 1009 1010 1011 1012 1013 1015 1016 1017 1020 1023

Table 4-2

| No. | Action   |                                  |  |   |  |  |  |  |  |  |  |
|-----|--|----------------------------------|--|---|--|--|--|--|--|--|--|
| 4.  | Paste the copied error texts from the clipboard to the text list.          |                                  |  |   |  |  |  |  |  |  |  |
|     | WinCC → HM_1 [TP1200 Comfort] → Text and graphic lists                     |                                  |  |   |  |  |  |  |  |  |  |
|     | /  | Go offline                       |  | Taxt lists S Graphic lists                              |  |  |  |  |  |  |  |
|     |  |                                  |  |   |  |  |  |  |  |  |  |
|     | Toxt lists   |                                  |  | -4  |  |  |  |  |  |  |  |
|     | Name   | Selection                        | Comment  |   |  |  |  |  |  |  |  |
|     | E SINAMICS_ErrorWarnings   | Value/Range                      | Image: A the second |   |  |  |  |  |  |  |  |
|     | <add new=""></add>   |                                  |  |   |  |  |  |  |  |  |  |
|     |  |                                  |  |   |  |  |  |  |  |  |  |
|     | Text list entries  |                                  |  |   |  |  |  |  |  |  |  |
|     | Default Value  |                                  | Text   |   |  |  |  |  |  |  |  |
|     | 1000   |                                  | F01000 - Internal software error   |   |  |  |  |  |  |  |  |
|     | 1002   |                                  | F01002 - Internal software error   |   |  |  |  |  |  |  |  |
|     | 1003   |                                  | F01003 - Acknowledgement delay when  | accessing the me  |  |  |  |  |  |  |  |
|     | 1004   |                                  | N01004 (F, A) - Internal software error  |   |  |  |  |  |  |  |  |
|     | 1005   |                                  | F01005 - Firmware download for DRIVE-  | CLiQ component ur                                       |  |  |  |  |  |  |  |
|     | 1006   |                                  | A01006 - Firmware update for DRIVE-CL  | Q component requ  |  |  |  |  |  |  |  |
|     | 1007   |                                  | A01007 - POWER ON for DRIVE-CLIQ com   | ponent required   |  |  |  |  |  |  |  |
|     |  |                                  | A01009 (N) - CU: Control module overte   | mperature   |  |  |  |  |  |  |  |
|     |  |                                  | F01010 - Drive type unknown  |   |  |  |  |  |  |  |  |
|     | 1017   |                                  | F01012 (N) - Project conversion error  |   |  |  |  |  |  |  |  |
|     | 1013   |                                  | A01013 - CU: Fan operating time reach  | ed or exceeded  |  |  |  |  |  |  |  |
|     | 1015   |                                  | F01015 - Internal software error   |   |  |  |  |  |  |  |  |
|     | 1016   |                                  | A01016 (F) - Firmware changed  |   |  |  |  |  |  |  |  |
|     | 1017   |                                  | A01017 - Component lists changed   |   |  |  |  |  |  |  |  |
|     | 1020   |                                  | A01020 - Write to RAM disk unsuccessfu   | 1   |  |  |  |  |  |  |  |
|     | 1023   |                                  | F01023 - Software timeout (internal)   |   |  |  |  |  |  |  |  |
|     | This makes the warning in the HMI project.                                 | g and error me                   | essages of this lang   | juage version available also                            |  |  |  |  |  |  |  |
| 5.  | Repeat the process des<br>CSV file or the ones yo<br>as project languages. | scribed here fo<br>u want to use | or all other languag<br>in the HMI project a   | es that are available in the and that have been created |  |  |  |  |  |  |  |

### 4.4 Calling the texts in the HMI

At runtime of the HMI project, the warning and error messages can, for example, be output using a symbolic I/O field. In this field, the entries of the text list can be made depending on a tag that represents the error number.

In the below figure, the "Process" section transfers the error number to the symbolic I/O field of the runtime using the HMI-internal tag "ErrorID". The text list is connected in "Contents"; the field length was customized to the output of warning and error messages. In the "Type" section, the "Output" setting should usually be preferred for outputting warning and error messages.

| Symbolic I/O field_1 [S | ymbolic I/O field]               | 🖻 Properties 🚺 Info 🗳 Diagnostics 📑 📼 🔻 |
|-------------------------|----------------------------------|---|
| Properties Anim         | ations Events Texts              |   |
| 🖻 Property list         | General                          |   |
| General                 | Process                          | Contents                                |
| Appearance              | 1100033                          | contents                                |
| Layout                  | Tag: ErrorID                     | Text list: SINAMICS_Erre 🔳 🗡            |
| Text format             | PLC tag: <undefined></undefined> | Field length: 150 🖨                     |
| Flashing                | Address: Int                     | Visible entries: 3                      |
| Limits                  | •                                |   |
| Miscellaneous           | Bit number: 0                    |   |
| Security                |                                  |   |
|                         | Туре                             |   |
|                         | Mode: Output                     |   |

Figure 4-2 Properties of the symbolic I/O field

## 5 Links & Literature

| Table 5 | 5-1  |
|---------|--|
|         | Торіс  |
| \1\     | Siemens Industry Online Support<br>https://support.industry.siemens.com  |
| \2\     | Download page of the entry<br>https://support.industry.siemens.com/cs/ww/en/view/77467239                            |
| 3       | Technology CPUs: "Error Messages" Technology Template<br>https://support.industry.siemens.com/cs/ww/en/view/21402122 |

# 6 History

Table 6-1

| Version | Date    | Modifications |
|---------|---------|---------------|
| V1.1    | 07/2019 | First version |
|         |         |               |