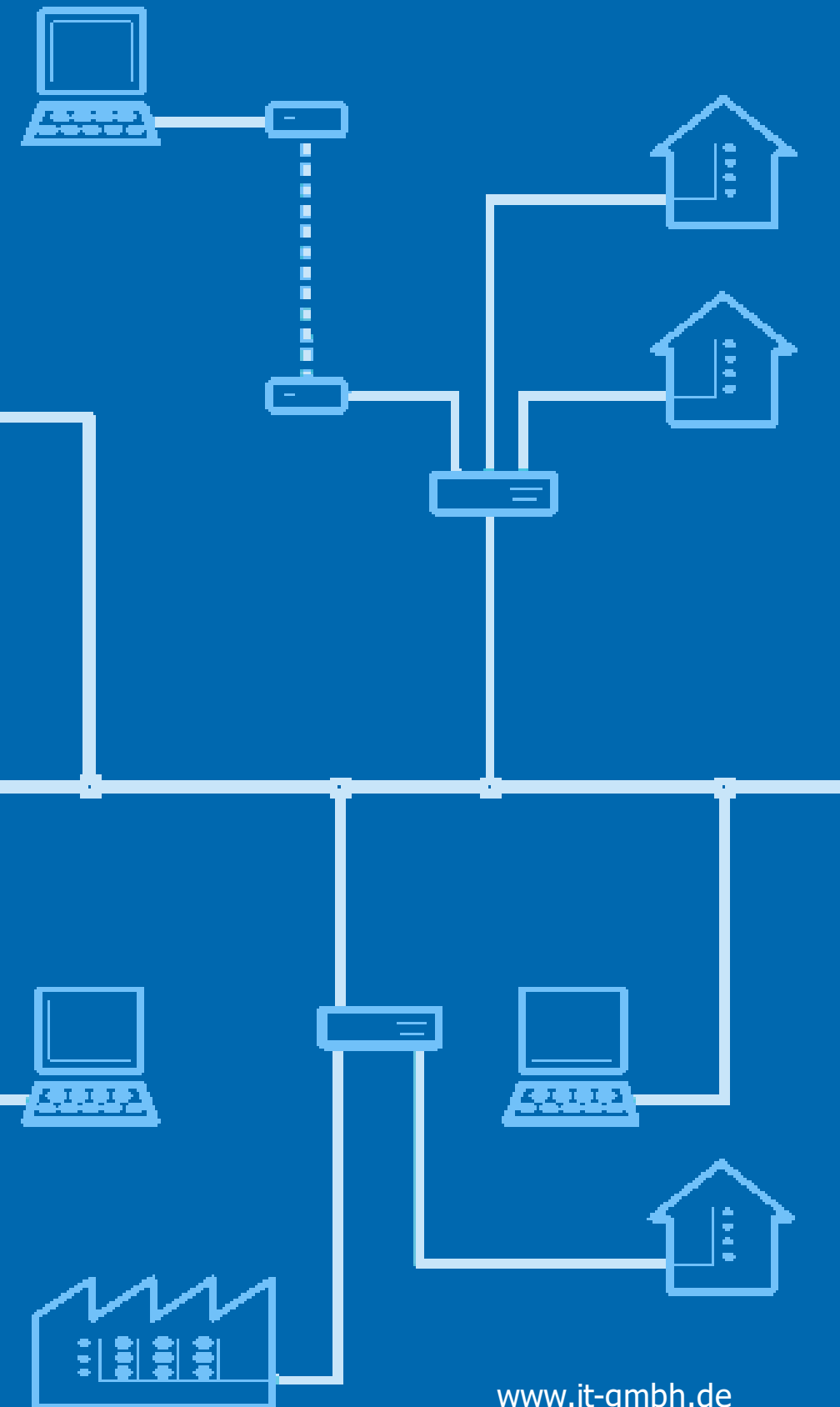




Gesellschaft für
Informationstechnik mbH



User-Manual Check and Improve

www.it-gmbh.de

Check and Improve

User-Manual

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Chapter



Welcome

1 Welcome

We congratulate to your purchase of the ETS App Check and Improve, and thank you for choosing one of our products.

The available functions in Check and Improve may be restricted by the used ETS license. In addition you find further details in the on-line help of ETS.

Knowledge of Windows and ETS is necessary for an understanding of the contents described.

[Features](#)

How to ...

- [Check spelling](#)
- [Check naming conventions](#)
- [Assign datapoint types](#)

Windows

- [App Window](#)

Additional Information

- [Contact \(Orders, Support\)](#)

1.1 Conventions

The following conventions were used for this manual:

- **Bold** print either highlights important terms, denotes a menu command or pressing a button.
- *Italic* print indicates a variable text, e.g. Project file indicates that the name of your project file is meant here.
- > and >> the symbol > in a brief description denotes an operational sequence. In front of the sequence symbol > there may be a site specification e.g. main menu or context menu.
Example: main menu > Edit > Properties properties-page > General means that in the main menu you should first select the Edit menu command and in it the Properties command, then proceed in the dialog which has opened up to the General properties page.
If a double mouse click is necessary the sequence symbol will be doubled >>. The terms left/right mouse button refer to the standard Windows setting.

Screen images and operating sequences refer to a Windows 10 operating system. If you use another operating system, your display or operation may deviate from the illustrations in this manual.

1.2 Features

Check and Improve helps you ensure and improve the formal quality of your ETS projects. This includes the verification and semi-automatic correction of spelling, configurable naming conventions, and the assignment of datapoint types.

Without much effort, the project get more clearly arranged, better maintainable and will be the perfect base for further use, e.g. for a visualization.

1.3 System requirements

- You can use this software only together with the KNX Engineering Tool Software ETS 4.1 or higher.
- All operating systems are supported where ETS 4.1 can be installed.
- The software uses less than 1MByte space on the hard disk.

Chapter



Procedures

2 Procedures

2.1 Launch the App



Check and Improve integrates itself as menu command in Extras > IT GmbH (since ETS 5.6.5 in menu Apps -> IT GmbH). If you use this ETS App regularly, you will find it useful to add it as a button in the ETS toolbar.

Click on the menu item or toolbar button to start the ETS App Check and Improve.

2.2 Check spelling

The spell check can check and correct all texts in the ETS project.

Settings

Before first use, you need to install one or more **dictionaries**. Click on "manage dictionaries" in the settings and import the desired dictionaries. The App can use e.g. the dictionaries from the following sources:

- [OpenOffice v3](#) or [OpenOffice v2](#)
- [Mozilla Firefox](#) (to download, you will have to use a Browser other than Firefox; click on the Download button - it works even if it appears disabled) or [Mozilla Thunderbird](#)

Word in capital letters or short words can be excluded from the check because these are often special designations.

You can select the texts for which the check is performed.

All settings are stored in the ETS project, so they are available again in the next session.

Check

Click on **Scan** to start the check.

For each word not found in the dictionary, a row is displayed in the window. If a word occurs more than once in the project, there will still be only one row.

A detailed list of the texts where the word occurs is displayed if you select the row.

Correct

You now have different options:

- If you accept the displayed suggestion (column **Replace**), leave everything as set
- Maybe there is more than one suggestion; click on the suggestion to display the list
- If none of the suggestions fits but you still want to correct the word, just enter the correct word.
- If the word is in fact spelled correctly but is missing in the dictionary, click in the suggestions cell and there on the "+" button. This will add the word to the dictionary.
- If you don't want to replace the word, clear the check mark in the column "Update"

Click on **Apply** to change the texts as specified.

Important Hint

Some texts may contain formatting (bold, underlined etc.). It is not guaranteed that the spelling correction keeps the formatting of the replaced words. This applies to the following texts:

- All: Comment
- Device: Installation Hints

2.3 Check naming conventions

The naming convention check can verify and correct the names of group address and devices in the ETS project against a freely configurable scheme.

Settings

You can define the naming conventions separately for group address and devices.

Select on the left the name to check. In the center the schema is displayed as tree view. Construct the schema yourself from the following building blocks:

Alternative

This defines a rule which matches if (at least) one of the child rules matches. By this, it is possible to allow multiple alternative naming schemes.

Any

This rule matches every name. This is not really useful as stand-alone rule, but e.g. as part of a Concatenation rule.

Concatenation

This rule verifies that the name is constructed as concatenation of several partial names, separated by a separator character or string. E.g. often the group address names are constructed as: "*roomname* | *instance* | *function*" (or with other separators, other sequence, ...)

Text List

This rule accepts any name from a fixed list.

Project

This rule accepts any name from a list created from project information. This can e.g. be used to verify that *roomname* in the above example is in fact the name of a room in the ETS project.


Regular Expression

Only for experts: the allowed names are defined via a "regular expression" (in the ".NET" variant). See e.g. [Wikipedia topic](#).

Pattern

Enter the allowed characters as pattern. A description of the possible elements is displayed as short help. Example: to specify that a name must begin with a "=" character, followed by a letter (A-Z) and at least one digit, enter the pattern "`= [A-Z]# +`".

As backup and for use in other projects, you can save a whole schema or parts of a schema in files and load these files again later:

- To save, select "Export to file" in the context menu (right mouse click) of the schema element in the tree view
- To load into an empty schema or add as child of a schema element of type Alternative or Concatenation, use the open symbol .

All settings are stored in the ETS project, so they are available again in the next session.

[Sample configuraton.](#)

Check

Click on **Scan** to start the check.

For each name not matching the rules, a row is displayed in the window.

Correct

You now have different options:



- If you accept the displayed suggestion (column **Replace**), leave everything as set
- Maybe there is more than one suggestion; click on the suggestion to display the list
- If none of the suggestions fits but you still want to correct the name, just enter the correct name.
- If you don't want to replace the name, clear the check mark in the column "Update"

Click on **Apply** to change the names as specified.


2.3.1 Sample configuration

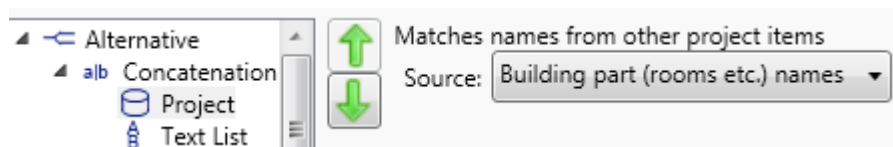
Suppose you want to check for the following naming convention for group addresses: The name is divided into two or three parts, separated by " ~ ". The first part is a room name that shall be checked against the list of all rooms in the ETS project. The middle part, if present, may be any text (if there are e.g. multiple independent lights in a room, this part identifies the individual light). The last part must be one of "SW" (for "switch"), "SWS" (for "switch state"), "RD" (for "relative dimming"), "DV" (for "dimming value") or "DVS" (for "dimming value state").

We compose the rule step by step:

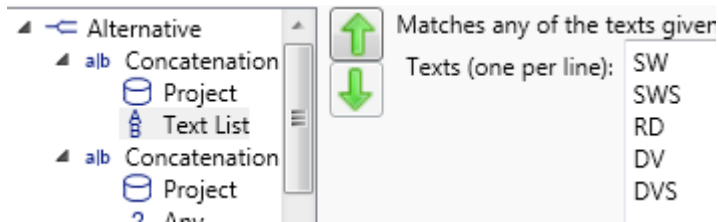
1. Because there are two options (two or three parts), the top rule is an Alternative 
2. Then add two Concatenation  rules below the alternative.
We enter the separator " ~ " in the separator field. Keep in mind leading and trailing white space.






3. The first of these concatenation rules (for the two-part option) has the following child rules:
 - a. A Project  rule configured to return all building part names



- b. A Text List  rule with the texts "SW", "SWS", "RD", "DV", "DVS"



4. The second of these concatenation rules (for the three-part option) has the following child rules:
 - a. A Project  rule configured to return all building part names (as above)
 - b. An Any  rule
 - c. A Text List  rule with the texts "SW", "SWS", "RD", "DV", "DVS" (as above)

2.4 Assign datapoint types

Assigning datapoint types gives you the following advantages:

- Documentation; the role and meaning will be clear immediately
- Diagnostics: the values of group telegrams will be displayed in clear text in the ETS group and bus monitor.
- Visualization: many visualization systems make use of the information to simplify the creation of a visualization project.

For newer products, the datapoint types are already defined by the manufacturer. Otherwise the function "datapoint types" will simplify the process.

Settings

To get the required information about application programs, the function uses an online database operated by IT GmbH. You will get best results if you

- have internet access
- active the setting "Use online information to suggest suitable datapoint types"

In order to continuously improve and extend this online database, we ask you to accept the transmission of the datapoint types selected by you. Check the option "I want to help improving the online service and allow to transmit my choices to IT GmbH" to do so. See also [Privacy Policy](#).

These settings are stored in the user profile, so they are available again in the next session (independent of the project).

Since ETS5:

With the option "Set datapoint types also for group addresses", the newly set datapoint types of the objects are also set for the linked group addresses.

If datapoint types have already been set for group objects in the project, but not for the linked group addresses, a message "Linked group addresses without any datapoint type found" appears. You can automatically add the datapoint types to the group addresses by clicking on the "Apply from object" button.

Check

Click on **Scan** to start the check.

You also may select and mark a group of devices in an ETS window (e.g. topology or building structure) and drag & drop it into the empty datapoint type window – then checking datapoint types only for these selected devices will start automatically.

For each connected group object without datapoint type, a row is displayed in the window. If a group object with same text and function occurs more than once in the project, there will still be only one row. For each selected line you can get the details (device addresses, etc.) in the properties window on the right side or in the detailed view (selecting an entry will open the detail list).

Correct

You now have different options:

- If you accept the displayed suggestion (column **Datapoint Type**), leave everything as set. Of course, you may also set the check mark only for some devices in the detailed view.
- Maybe there is more than one suggestion; click on the suggestion to display the list. The bold entries are based on information from product data, online database, or from datapoint types already set for linked objects. The remaining entries are proposals that match the length of the object. If list contains only such proposals, the set flag is not marked from the beginning.
- If you don't want to set the datapoint type, clear the check mark in the column "Update"

Click on **Apply** to set the datapoint types as specified.

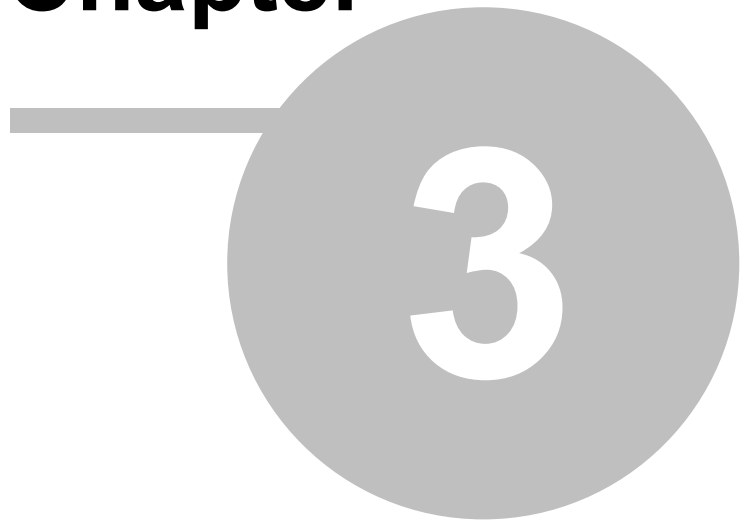
2.4.1 Privacy Policy

By checking the option "I want to help improving the online service and allow to transmit my choices to IT GmbH" on the [Datapoint types](#) page, you accept that the following information is transmitted to a server operated by IT GmbH:

- Identification of the application program
- Identification of the communication object
- Datapoint type selected by you

No personal data is processed or stored.

Chapter



Reference

3 Reference

3.1 User Interface

3.1.1 App Window

In the App window, the following information is displayed:

- At the bottom, select the check to be performed.
- Depending on the type of the check, you may choose options in the Settings area
- Clicking "Check" starts the check. The progress is shown at the lower right
- In the main area of the window, the results of the check can be viewed; correction options are available here, too.
- Clicking "Apply" performs all corrections with the check mark set

Chapter



Imprint

4 Imprint

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Chapter



Contact

5 Contact

Orders

ETS App Check and Improve is available only at KNX Onlineshop.

For information please contact our sales office:

Phone: +49 (0) 911 518349-0 (Mo-Fr 9 a.m. to 16 p.m.)

Fax: +49 (0) 911 5183688

Email: vertrieb@it-gmbh.de

Support Service

If you have questions or problems, you may contact our Hotline:

Phone: +49 (0) 911 518349-10 (Mo-Fr 9 a.m. to 4 p.m.)

Fax: +49 (0) 911 5183688

Email: support@it-gmbh.de

WEB: [problem report](#)

Newsletter

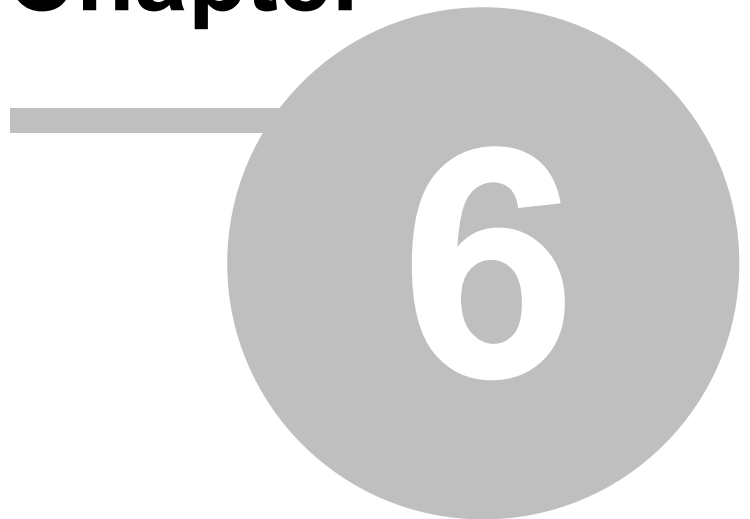
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Chapter



Feedback

6 Feedback

Please help us to improve our ETS Apps. Your feedback may influence further development so that in subsequent versions and manual editions your wishes and requirements may be taken into consideration.

We look forward to receiving your comments and wishes on the content, representation of associations as well as comprehensibility regarding the program parts or the documentation. Please also let us know if you have any improvement suggestions with regard to support, training or sales.

[Feedback via IT Website](#)

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