

Elvis Viewer *direct* (Evd)

Short instructions

Requirements

The Evd enables the control and visualization of KNX and IoT systems. The connection between the Evd and the system is made via a KNX-IP interface as offered to numerous companies.

The app is available for Android devices as of version 4.4 and for devices with iOS operating system version 9.1 or later.

This manual is aimed at technically savvy users with basic KNX and IoT skills. It should be emphasized that the Evd can only be operated in conjunction with a KNX system or IoT devices that have already been put into operation and communicate via the MQTT protocol. In addition, a visualization project is required. The creation of such a project and, how this project reaches your mobile device, are described in the following sections.

A computer with Windows 7 SP1 or higher is required for the development. The mobile device must be connected to the same network as the KNX-IP interface or the IoT devices, usually via W-LAN. Optionally, MQTT Broker and Client can be activated in the Elvis Viewer direct.

Creation of a visualization project

There are powerful tools for creating a visualization project:

- Elvis Express and
- Elvis Designer

Both tools are available for free download on our [website](#). They are available after installing Elvis 3.

Elvis Express

With Elvis Express, a visualization project can be created with a few mouse clicks. For this purpose, you need the project file that you created by means of the [ETS](#). The project file has the extension “.knxproj”. You can get it via the export function of the ETS. For enabling Elvis Express to convert the contents of a *.knxproj file into corresponding operating pages, some points must be taken into account when developing with the ETS. Please read the corresponding notes at the end of this document! If these prerequisites are fulfilled:

- Start Elvis Express and create a new project.
- Import your *.knxproj
- Under Client Options, select the client types, on which the project should run. The type "Tablet" must be selected for the Evd. You can, however, also select other types.

After the last step, additional tabs are displayed for each selected client type, under which you can already see the operating pages. A test with or without a connection to the KNX system is now also possible. The setting for this distinction can be found under the Burger menu (right corner above). The simulation is switched off by default. So, if you like to test at first without a system, activate the "Simulation" option!

You're starting the test with the "Start" button. Depending on, which client types you selected, different windows will be opened now. Among others, you should find the window "FtpServer for Elvis Viewer direct ". Place the focus on this window and press the spacebar, to open the QR code for the settings of the mobile device! If this window was not opened, you did not select the tablet in the third step above.

At least by now, you should download the Evd app from the store onto your mobile device and start it. Choose the "scan" option, when it appears! The Evd tries to find a KNX-IP interface after a successful scan. Select "offline" mode, if no KNX system should be present!

From now on, your KNX system is fully operable via the loaded visualization project. For trying out the procedure described here, you can download a sample project [here](#).

Elvis Designer

The Elvis Designer is a professional tool for creating individual visualization projects. Whether it's about a single family house with some 100 datapoints or an airport or the power supply of whole districts with some 100.000 datapoints, you have the right tool in your hands with the Elvis Designer. Regarding the Evd you can use the Elvis Designer, to create the visualization project either from scratch on yourself, or keep on editing the above project, created with Elvis Express. An example project for the Elvis Viewer direct can be found [here](#).

To go into all possibilities of Elvis Designer, is beyond the scope of this documentation. In this context, however, reference should be made to our [training facilities](#), which are available to you for different country and language regions.

Instructions for developing with the ETS

Functions

As of ETS 5.5, it is possible to create so-called "functions" directly in the building structure. These are typed summaries of associated group addresses (possible types are e.g. "dimming" or "heating"). If you're using this ETS feature, Elvis Express will then directly create the corresponding Elvis functions.

Name scheme

If no ETS functions are defined, Elvis Express will attempt to derive the Elvis functions from the group address names (including the main and middle group names). The naming convention used is relatively free, but must be consequently maintained throughout the whole project.

Data types

It is also important to assign the data type correctly to the group addresses or to the communication objects. In the case of current devices, the data type is used to be set correctly already by the manufacturer; in the case of older devices, it may happen, that this information is to be added.

For example, the following structure is possible:

- Main group: trade (lighting, shading and heating ...)
- Middle group: floor
- Subgroup: room, possibly place in room and role within the function (for example, switching, feedback, dimming, ...). The individual parts are best separated with a special separator (e.g., | or *).