



# ***APS Administrator.GS***

*Graphic program for APS systems visualization*

*(APS Administrator extending module)*

*Installation and user's guide*



# ***techfass®***

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## 2 Product description, installation

### 2.1 Product description

*APS Administrator.GS* program module extends the program package of *APS Administrator* (see <http://www.techfass.com/>) offering an option of visualizing APS system modules status on a background map. The product is able to handle multilayer map data and is compatible with both APS mini Plus and APS 400 systems. The product is (as well as APS Administrator) designed for multiuser usage in LAN environments.

### 2.2 HW and SW requirements

Server and client computers HW requirements are dependent on the total load of the system. We recommend consulting the choice of the equipment with your local distributor. Recommended OS is *Windows 10* and requires *.NET Framework 4.6.1* installed.

### 2.3 Installing SW, data security, backups

The software is installed using its *msi* installation package. It is bound to the APS Administrator program package; therefore it must be installed after the *APS Administrator* and *APS Server* programs. Required version of APS Administrator database is 80.

Using *APS Administrator.GS* program module does not affect using any other *APS Administrator* extending program module at the same time.

Due to the integration of *APS Administrator.GS* software extension into the basic APS Administrator database, same rules for security and backups are applied. More information about this concern can be found in *APS Administrator* User's guide.

It is meaningful to run the program only as an *online application*. Therefore *both communication and database services must be running permanently*.

## 3 Initial setting

### 3.1 Before program first start

The first run and configuration of the program should be performed *after finishing all steps for standard installation and configuration of the system*. First set up the communication in the *APS Server* program, transfer the structure of all connected systems to the *APS400nAdministrator* database, set up the access rights, create users, etc.

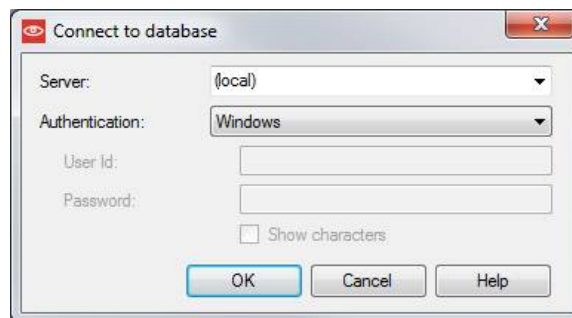
If you intend to run the *APS Administrator.GS* program on a different computer than the one running the communication service, run the *APS Administrator* program and select: *Configuration > System*, then at the *Connection* tab in the *Communication with systems* area fill in the *IP address of the APS Server* value to the *real value* of the communication server *IP address* (if you leave the value *127.0.0.1* the program will be able to operate only locally).

Furthermore it is appropriate to define the *access levels for working with the APS Administrator.GS module* to the relevant operators. The description of the access levels is described in chapter 3.4.

### 3.2 Running the APS Administrator.GS for the first time

When starting the program for the first time it is necessary to *set up the connection to the SQL Server*.

Fill in the SQL Server name in the *Server* field in the configuration dialog (pic. 1), and choose the *Authentication type*.



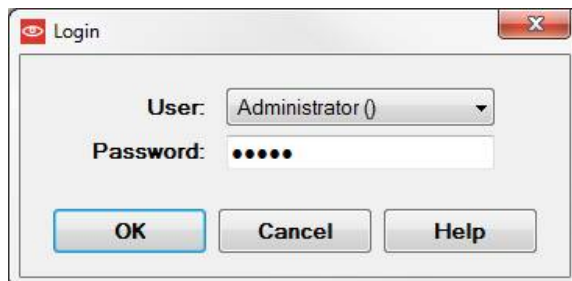
Pic. 1: Connection to SQL Server

If required, fill in the *User Id* and *Password* fields. The parameters for connection to the *SQL Server* are identical for both *APS Administrator* and *APS Administrator.GS* programs.

The dialog can be later raised by selecting *Setting – Change SQL Server*.

### 3.3 Logging in the program

The dialog for *logging in to the program* (pic. 2) is displayed after connecting to the SQL Server.



Pic. 2: User login

For login *select a user* from authorized users' list, fill in appropriate *password* and press the *OK* button.

The name of the logged user is displayed under the buttons of the upper toolbar.

For latter raise of the dialog press the *Login* button at the top toolbar.

To logout press the *Logout* button at the top toolbar.

### 3.4 Authentication levels for working with APS Administrator.GS module

The authentication level for working with the *APS Administrator.GS* module can be defined in the *APS Administrator* program.

For the definition *select the relevant personal list* of the operator and select the *Edit* option from the context menu. The program will display the user's personal list, select the *Login and Authorization* tab and fill in the *Login* field and *Set Password*. After that set the required access rights from the *Authorization list*.

The authorization level defines the options for working with *APS Administrator.GS* module:

- *User with no authorization level* – cannot perform any actions, cannot see any information.
- *Online status monitoring* – such user is able to monitor the online statuses of the modules on the background maps as they are defined in the APS Administrator.GS module.
- *Events archive* – such user is furthermore able to see the system events read from the database.
- *Activate system functions* – such user is furthermore able to run the Remote door open command at appropriate APS mini / Plus reader modules and run system User events at relevant APS 400 network reader modules.
- *Administrator* – full access to the program including the configuration part (Design mode)

## 4 Program configuration

The program configuration can be performed only by a *user with Administrator privilege*. After such user is logged in, he can perform following actions.

### 4.1 Setting

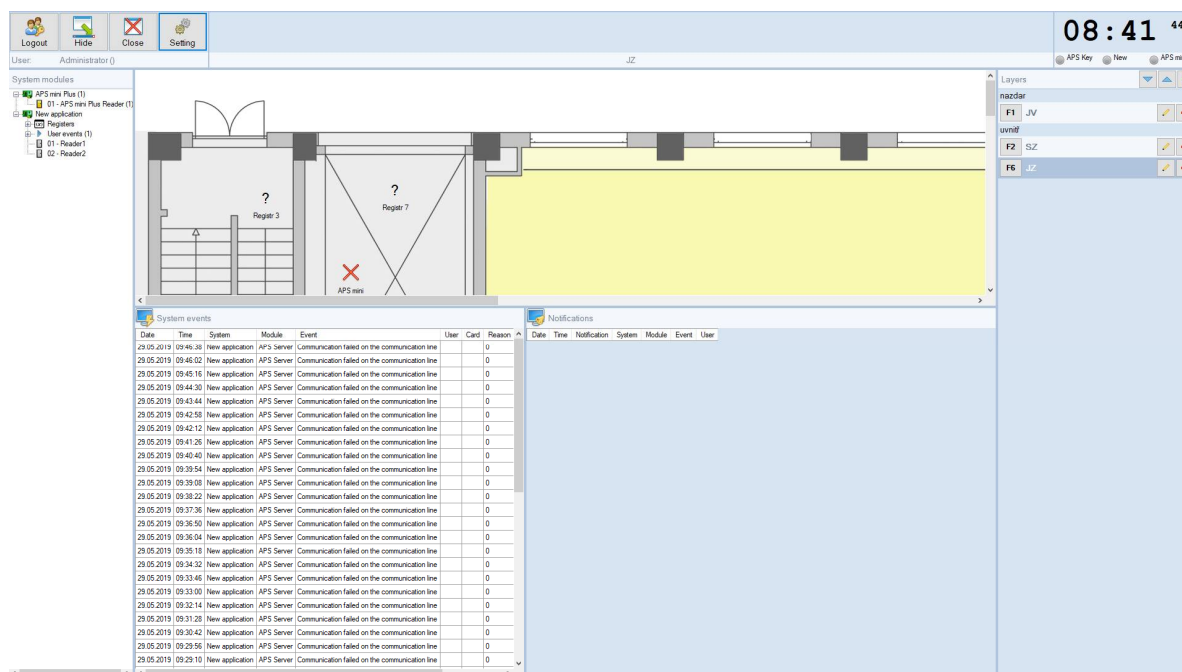
The *program setting menu* located at the top toolbar contains options to open the *Design mode*, where it is possible to define all visual and functional options of the program. Other options of the Setting menu can be used for changing the *Environment* options (selecting different language version) and defining new *SQL Server connection*.

The change of the program language can be done in a dialog raised by *Setting – Environment* (top toolbar). After selecting preferred language, save the setting by pressing the *OK* button.

If there is a need to define new connection to the database server, choose the option in the menu *Setting – Change SQL server*.

### 4.2 Design mode

The *design mode* (pic. 3) enables to define *all visual and functional options* of the *APS Administrator.GS* program. This option is only enabled to *users with Administrator privilege*. The design mode can be switched on and off by selecting *Setting – Design mode* option.



Pic. 3: Design mode

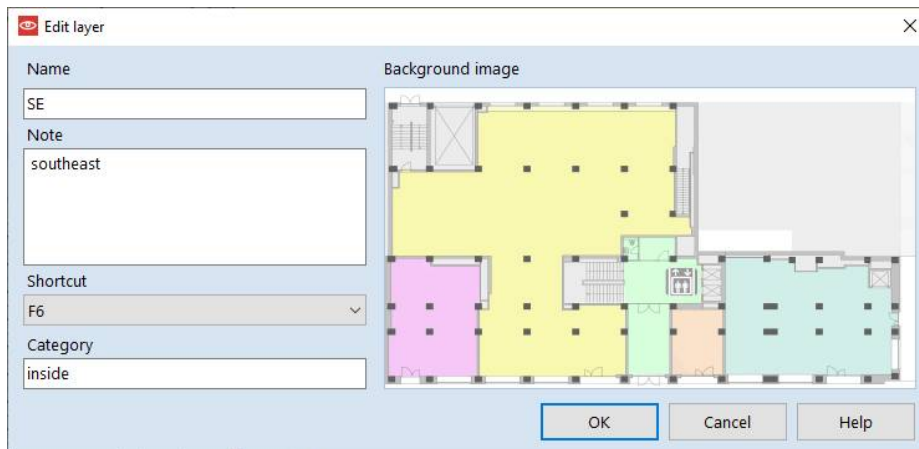
In the left part of the program window there is a *tree of systems and modules* as it is saved in the database. In the middle part there is a *background image* of the *selected layer* with *placed symbols*. In the right part there is a *list of layers* and resources for its editing. In the lower part there are *system events online read from the database* and *notifications* – these are important events with relevant flag and setting done in APS Administrator.

### 4.2.1 Layers management

The *layers list* is displayed in the *right part* of the program window.

For *adding a new layer* press the *+* (*plus*) button. For *deleting* selected layer press the *–* (*minus*) button. To *change the order of layers* in the layers list, *select the layer* and use the arrows *Move layer up* and *Move layer down*. To *change the settings* of the selected layer select the *Edit layer* option (*pencil icon*).

When *creating* or *changing* a *layer* (pic. 4), fill in the name of the layer in the *Name* field and a text description in the *Note* field.



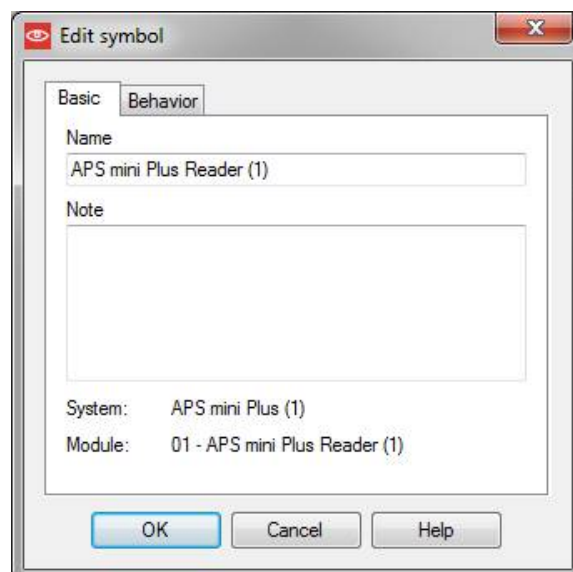
Pic. 4: Layer editing

Optionally select a *keyboard shortcut*, which can be used for selecting given layer in the runtime mode. Furthermore, it is possible to set up the *Category* field – individual plans are sorted by the category in the main program window then; the categories are sorted alphabetically. In the right part there can be raised a *context menu* with the *Open* option. Any *jpeg*, *png* or *bmp* formatted image can be selected as the layer background. Press *OK* to save the setting or *Cancel* to disregard it.

#### 4.2.2 Symbols management

The *symbols management* is performed by *moving the symbols with mouse*. To *insert a new symbol* select it in the *System modules area*, then *drag it* with mouse from there and *drop it* in the layer image background area. The symbol can be moved afterwards. *More options* can be set after selecting the *Properties command* from the *symbol context menu*. Symbol can be *deleted* by selecting the *Delete command* from the *symbol context menu*.

The *basic features* of the symbol (pic. 5) are available at the *Basic* tab.

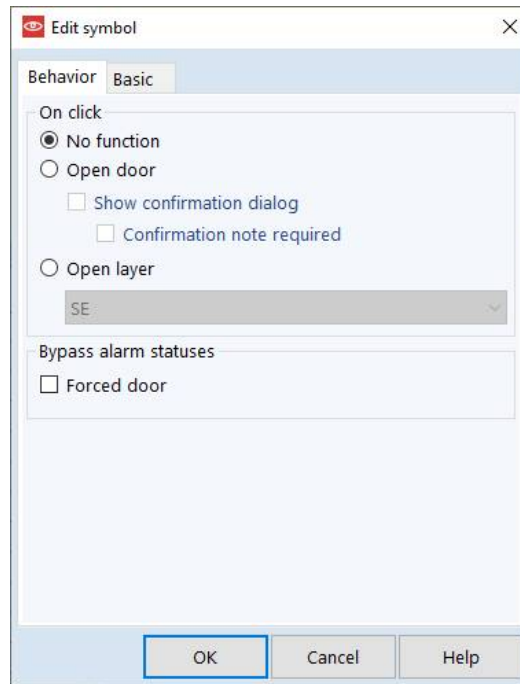


Pic. 5: Editing symbol properties - basic



The **Name** field is a text description visible at the layer background image in the runtime mode. The **Note** field should contain additional information, which is displayed as a tooltip text when mouse hovers over the symbol. In the lower part there is information about the reader **module membership** in the system and its unique identification with HW address and description in the database.

When going to the **Behavior** tab of a symbol representing an **APS mini Plus** reader module (pic. 6), **Remote door open command** can set as a reaction to clicking on the symbol in runtime mode.



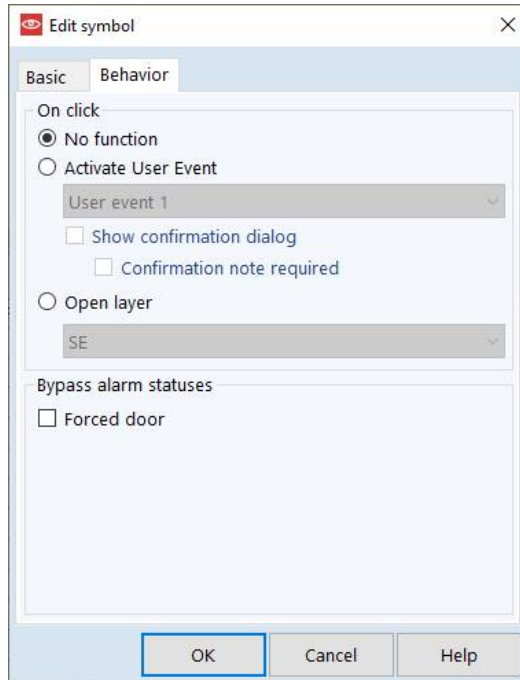
Pic. 6: APS mini Plus reader module behavior

Such option is set by selecting the **Open door** option. If a confirmation question is required before activating the function, also select the **Show confirmation dialog** option. When opening the door, if there is a requirement for inserting a text note (e.g. to get the reason for door opening), select the **Confirmation note required** option.

Another option is to change the map layer by clicking at the symbol. To do so, select the **Open layer** option and select the appropriate map layer.

If the **Bypass alarm statuses – Forced door** option is used, the “forced door” alarm visualization is ignored and the module is displayed as opened door only.

When going to the *Behavior* tab of a symbol representing an *APS 400 network reader module* (pic. 7), running an *APS 400 system User function* can set as a reaction to clicking on the symbol in runtime mode.



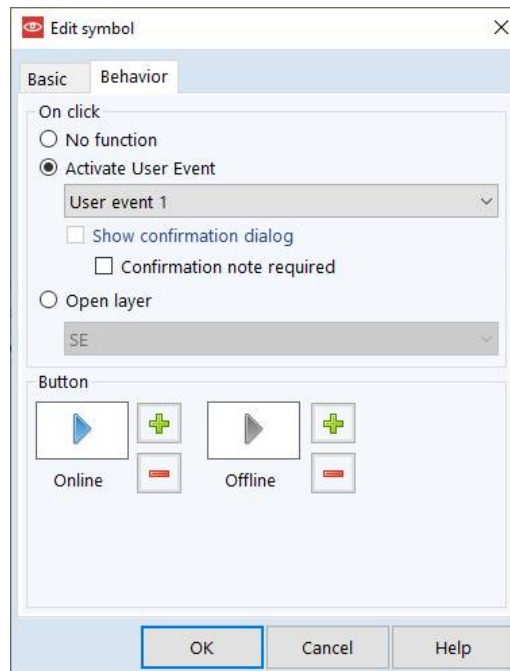
Pic. 7: APS 400 network reader module behavior

Such option is set by selecting the *Activate user function* option and *selecting the appropriate user function* from the list. If a confirmation question is required before activating the function, also select the *Show confirmation dialog* option. When activating the user function, if there is a requirement for inserting a text note (e.g. to get the reason for user function activation), select the *Confirmation note required* option.

Another option is to change the map layer by clicking at the symbol. To do so, select the *Open layer* option and select the appropriate map layer.

If the *Bypass alarm statuses – Forced door* option is used, the “forced door” alarm visualization is ignored and the module is displayed as opened door only.

Next symbol type is a *User function* (APS 400) (pic. 8).

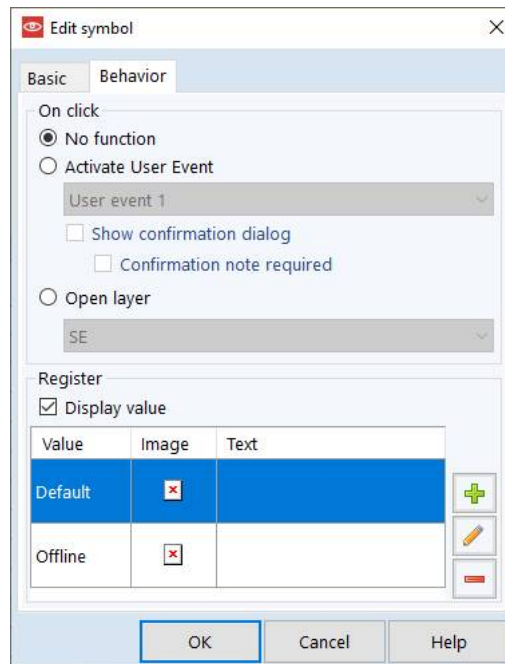


*Pic. 8: User function behavior*

The behavior definition is same as the behavior of APS 400 system module, it differs only in the visualization part.

For this symbol you can select a picture, which will be displayed in Online and Offline status. After pressing the *plus* button, you can select the picture; after pressing the *minus* button, the picture is removed.

Next symbol type is a *Register* (APS 400) (pic. 9).



*Pic. 9: Register behavior*

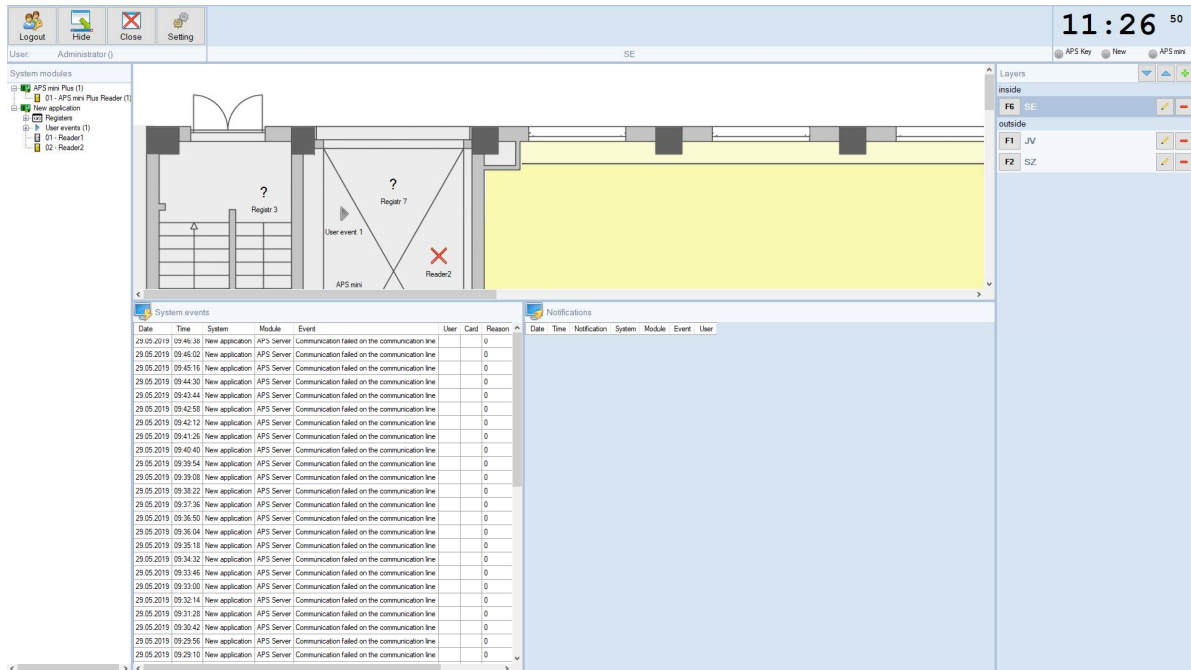
The behavior definition is same as the behavior of APS 400 system module, it differs only in the visualization part.

For this symbol you can select the option Display value – in such case the program displays not only the picture, but also a text attached to the status value.

The register can contain value from 1-255. In the table in the lower part of the dialog there is an option to set up a picture and a text belonging to each value. These features are displayed in the program, when the register gains specific value then.

## 5 Program operation

Standardly the program runs in the *Runtime mode* (pic. 10). That is the status, when the program runs in a *full-screen mode* and is *online connected* to the *communication* and *database server*.



Pic. 10: Standard program operation (runtime mode)

### 5.1 Connection status

The *connection status* is indicated in the *upper right part of the program* window. If the connection to the database server is established, the *clock is running*, otherwise there is a static *ERROR* sign displayed.

If the *connection to the communication server cannot be established*, the *grey communication icon* is displayed next to every defined system.

When the *program is connecting* to the server, the *icon* color is *orange*. As soon as the *connection is established*, the *icon* goes *green*. If there are *problems* in communication *between the server and communication line*, relevant system *icon* is displayed in *red*.

If the connection between the *communication server* and the *reader modules* fails, all modules not responding are *displayed in grey*.

### 5.2 Program control

When the program is standardly running, *actual statuses of all symbols defined in the design mode are displayed*. You can *switch to another layer* by using the *key shortcuts* (F1-F12 defined in the design mode) or by selecting the layer *with mouse*. *User with sufficient rights* is able to perform the *Remote door open command* or activating relevant *User event* on the defined symbols by clicking at them or selecting relevant command from the context

menu. In the lower part of the system there is a *list of system events being online read from the database*. *Priority events* are displayed with *colored background*.

To move around the map background, you can use the side scrollbars and also a *hand tool*. The *hand tool* is automatically activated when pressing and holding the left mouse button at the map background outside the active icons.

For *minimizing the program* in the system tray are use the *Hide* button located at the top toolbar. To *close the program*, use the *Close* button.

The minimized program can be *maximized* again by *clicking the application symbol* in the system tray area.

The program is *automatically maximized* in case a *priority event* (an event with any warning level set) *is read* from the events archive in the database.

The *online reading of the events* from the database *can be paused and resumed again* by *pressing the button* located at the right top part of the System events area.

In the *Notifications* area there are priority events displayed, which can require confirmation by program operator. The notifications setting is done in APS Administrator program.