DIVUS®
Show it. Control it.

DIVUS IQ LAUNCHER

Version 1.0 – rev. 47

GENERAL INFORMATION

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The manual has been conceived and written for users who are experienced in the use of PCs and automation technology.

This version of the manual is based on the following version(s):

- KNX IQ image R4.16
- DIVUS IQ LAUNCHER v. 1.0 rev. 47

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CONVENTIONS

[KEYS]	Keys that are to be pressed by the user are given in square brackets, e.g. [CTRL] or [DEL]
COURIER	On-screen messages are given in the Courier font, e.g. `C:\>`
COURIER BOLD	Keyboard input to be made by the user are given in Courier bold, e.g. **`C:\>DIR).`**
„…“	Names of buttons to be pressed, menus or other onscreen elements and product names are given within double quotes. (e.g. “Configuration”).
PICTOGRAMS	In this manual the following symbolic are used to indicate particular text blocs.
	Caution! A dangerous situation may arise that may cause damage to material.
	Hint Hints and additional notes
	New New features

The terms “DIVUS KNX IQ” and “DIVUS KIQ” or simply “KIQ” all point out the same product.

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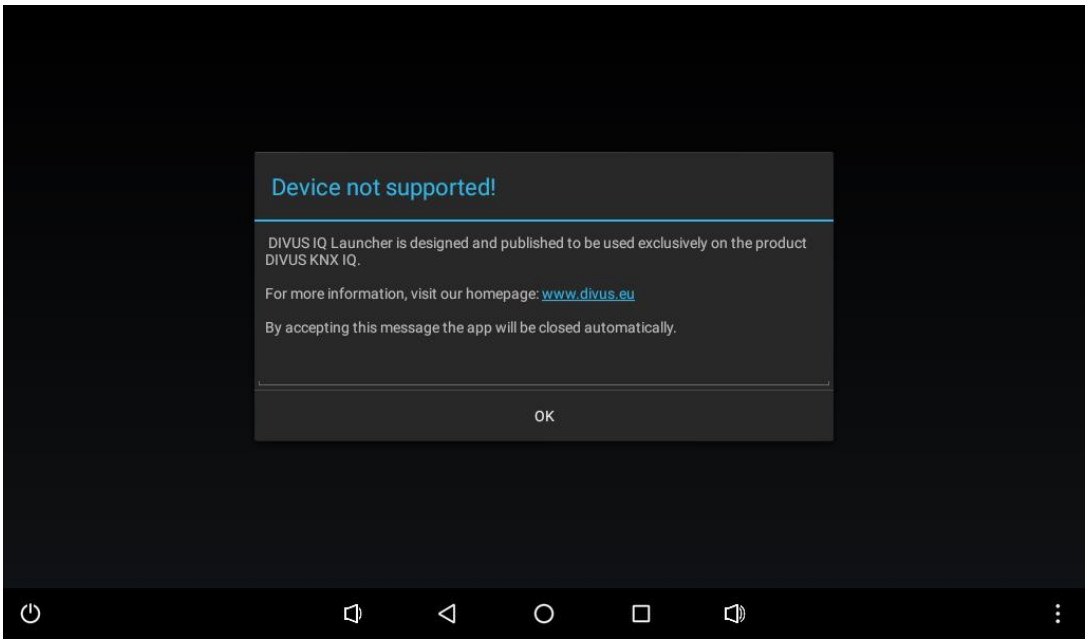
1 Introduction

The DIVUS IQ LAUNCHER app is the main app of DIVUS KNX IQ, which acts as the entry point of the device. The app provides access to the other functionalities and settings of the devices, and in its main screen it's possible to link to the pre-installed DIVUS applications. The overall look and feel can be customized and adapted to the required needs. DIVUS IQ LAUNCHER is the heart and soul of DIVUS KNX IQ.

In Android there are so-called "launcher applications", which usually define a start screen and are the main entry point to all the other functionality of the device. Only one such app can be active at a time and the launcher app is usually started by default when the device has booted, or when the HOME button of the device is pressed. DIVUS IQ LAUNCHER is exactly such a launcher application.

1.1 PREREQUISITES

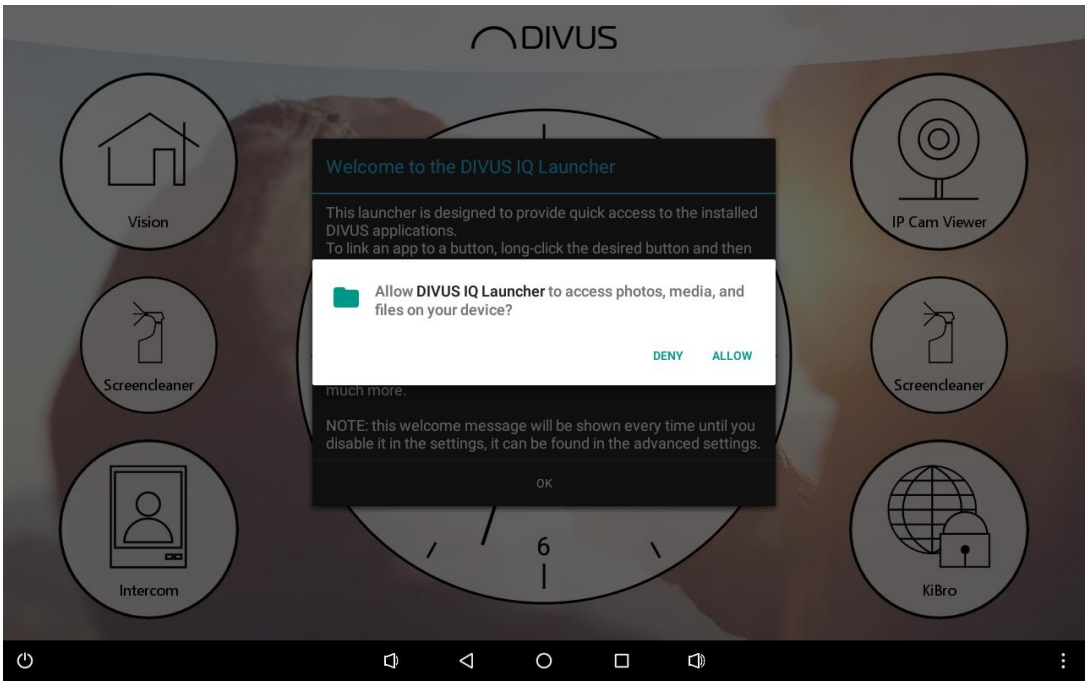
DIVUS IQ LAUNCHER requires Android 6.0 (API 23) or higher to run, the app will be unable to install on devices running a lower Android version. Additionally, DIVUS IQ LAUNCHER is designed to be used exclusively on the DIVUS KNX IQ running Android 6 – on other devices (which still satisfy the minimum required Android version) the app will still be able to install, but when launched it will show the following warning:



When a new launcher app is installed, the Android system should ask you which app should be used as default launcher application. If you are not sure if your device supports DIVUS IQ LAUNCHER, as a test it is strongly recommended to select "only this time" when selecting DIVUS IQ LAUNCHER.

1.2 FIRST START

If your device supports DIVUS IQ LAUNCHER, when launching the app, on some versions of Android some runtime permissions are asked and have to be manually allowed: DIVUS IQ LAUNCHER asks to access media on the device, this is required e.g. to change the background of the launcher.



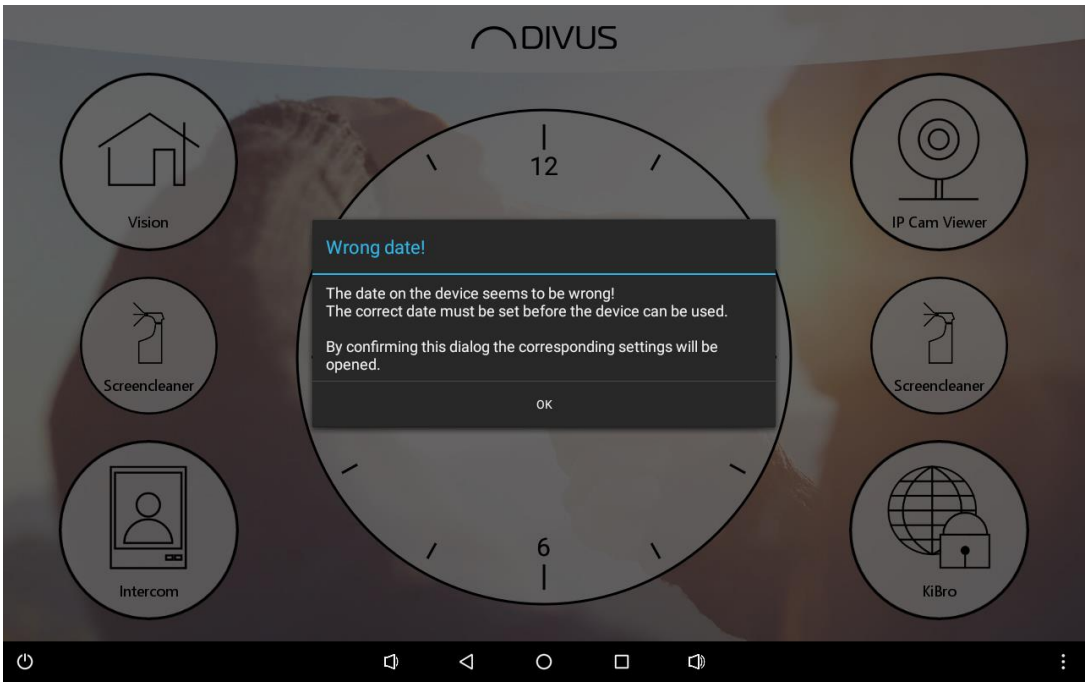
As long as some permissions are not granted, these missing permissions are asked at every start of the main view of the launcher until granted or denied permanently. When these permissions are not granted some functions of the app may not work! If the user decides to permanently deny these permissions then this dialog should not show up anymore. These permissions can also be granted/revoked manually in the settings on the application management page of DIVUS IQ LAUNCHER.

After the prompt for the permissions you will be greeted with the following screen, containing some limited/basic information on how to use the app:

This message will be shown every time DIVUS IQ LAUNCHER is launched, until it will be disabled in the settings. Detailed information on how to disable this message will be provided later in the manual.

1.3 DATE ADJUSTMENT

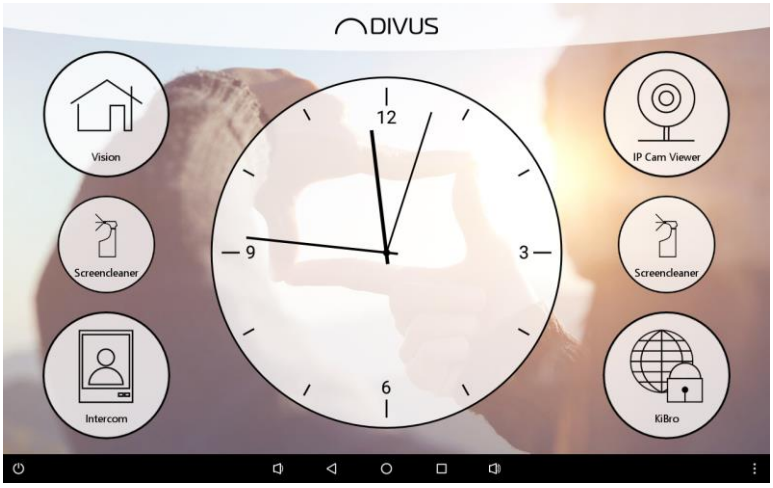
When a device is powered off for a long time it may happen that the date is reset to a default value. DIVUS KNX IQ and DIVUS VISION require a correct date in order to function correctly, thus when DIVUS IQ LAUNCHER is started a basic check for the current date is performed. If the date appears to be wrong, a corresponding prompt is shown, forcing the user to manually adjust the date.

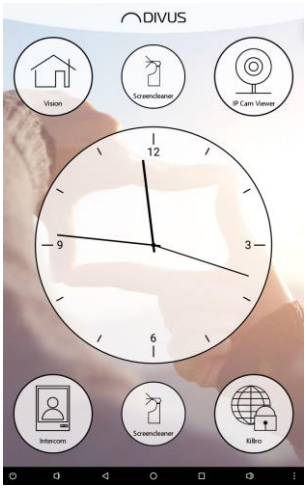


This prompt blocks any other use of the device and is shown every time until the date has been adjusted.

2 Main view

The main view of DIVUS IQ LAUNCHER consists of 2 components: “central element” and “app area”. As the name suggests, the central element will always be displayed at the center of the screen, whereas the app area depends on the used orientation and will appear either left/right or top/bottom.

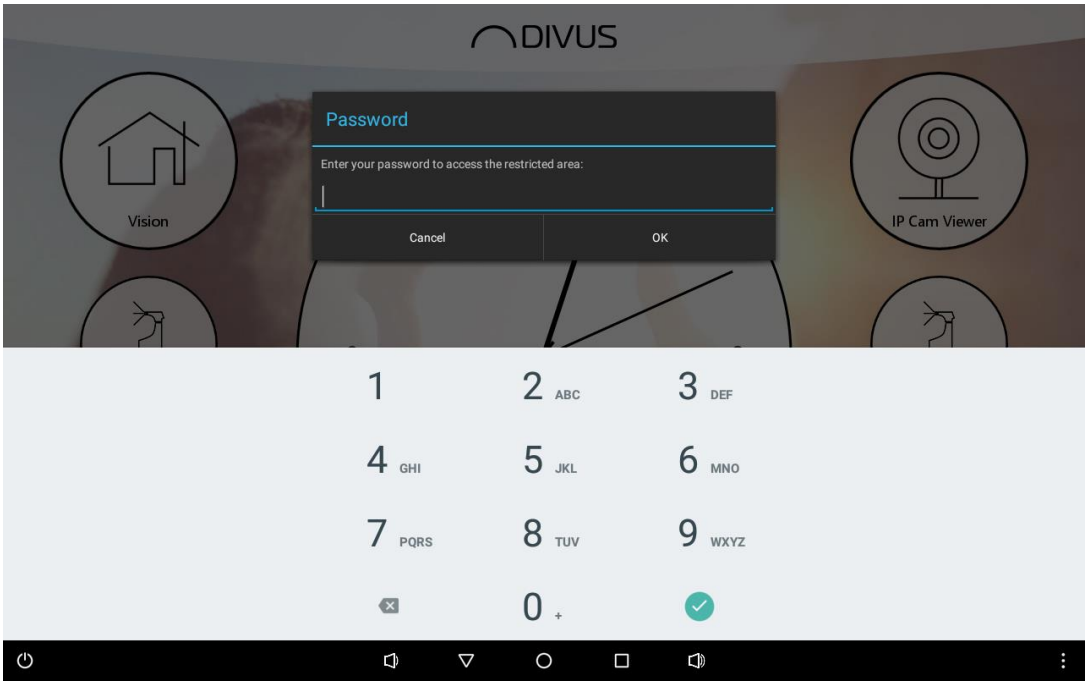




The central element is intended to show some basic non-interactable information to the user, whereas in the app area apps can be assigned for quick access. By default, the central elment is configured to show the current time with an analogue clock (in seconds-precision). The app area by default is editable and all possible assignments are pre-assigned.

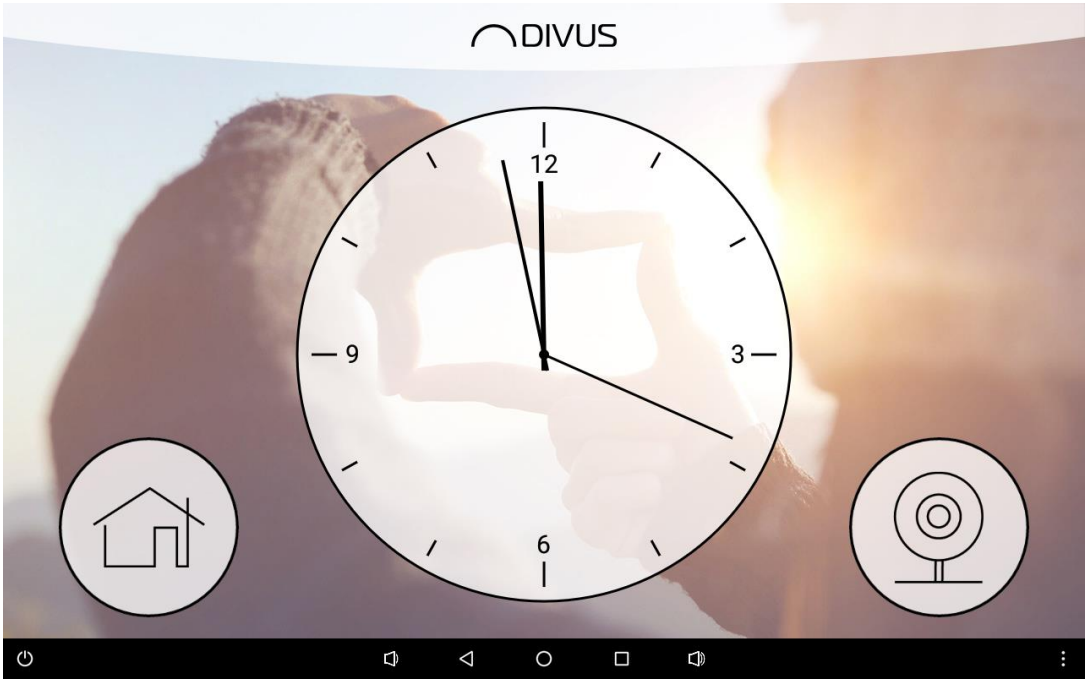
Look & feel as well as functionality of both central element and app area can be customized. The various settings will be discussed in detail later in the manual.

Through the top DIVUS logo it's possible to access the settings the of DIVUS IQ LAUNCHER, alternatively also possible to be accessed through the menu if the device provides a physical/virtual menu button. Before being able to access the settings a password prompt is shown, the default system password is "0000" and the default user password is "1111", both can be edited in the settings. Access to the settings is only possible if a correct password is given.



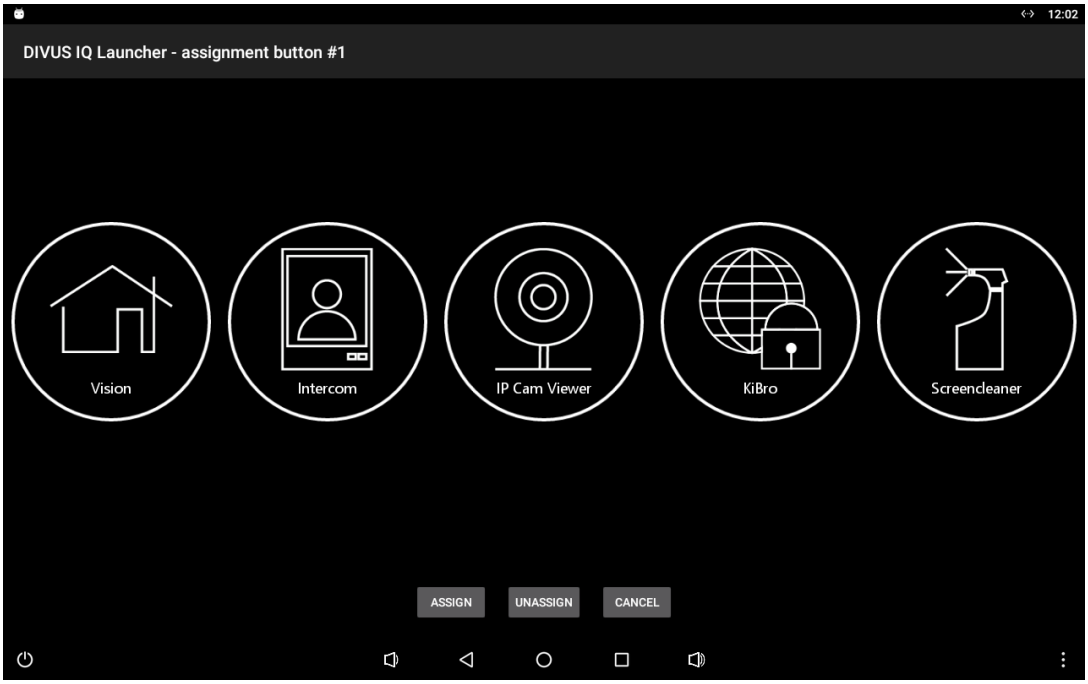
2.1 APP AREA

The app area consists of a grid of buttons over a single page intended to give quick access to installed DIVUS applications only. By default there is grid of 6 buttons which are assigned and editable. With a long-click on a button it's possible to assign/unassign it. In the settings the number of buttons can be edited and the buttons can also be configured e.g. to be locked. Below is an example of a customized app area.



2.1.1 APP ASSIGNMENT

To assign a button in the app area it's enough to long-click it and a selection of the pre-installed DIVUS applications is visible, as can be seen in the next screenshot.



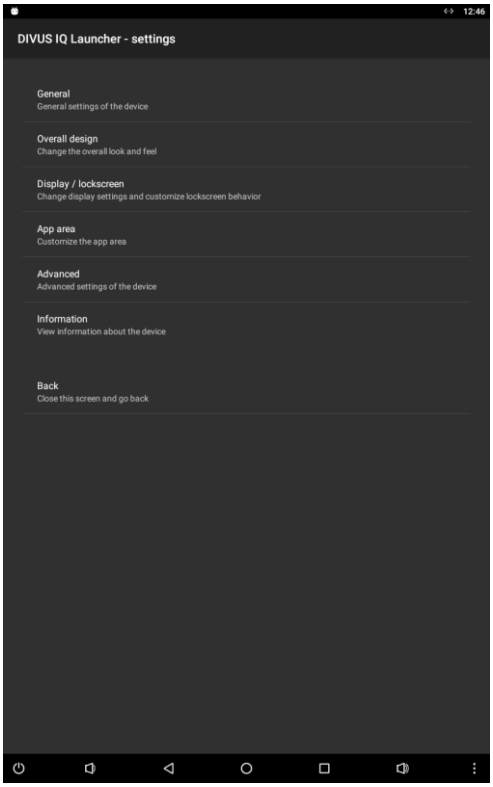
A list of all pre-installed DIVUS apps is visible and with a click the desired app can be selected, which will then be highlighted. On the bottom there are 3 buttons: "assign" will assign the app to the button, "unassign" will unassign the button, "cancel" will leave the button unaltered as-is.

2.2 CENTRAL ELEMENT

The central element by default shows an analogue clock with seconds-hand visible, however it is also possible to hide the seconds-hand. Instead of a clock it's also possible to show a customized image, below is an example of the central element with an image instead of the clock.

3 Settings

The settings, accessible from the main view of DIVUS IQ LAUNCHER through the DIVUS logo or the menu, are divided in various categories which should provide an easier overview. The following screenshot shows the available main categories of settings:



- General
- Overall design
- Display / lockscreen
- App area
- Advanced
- Information
- Back

When clicking the last entry, the settings page will close and the main view of DIVUS IQ LAUNCHER is shown again.

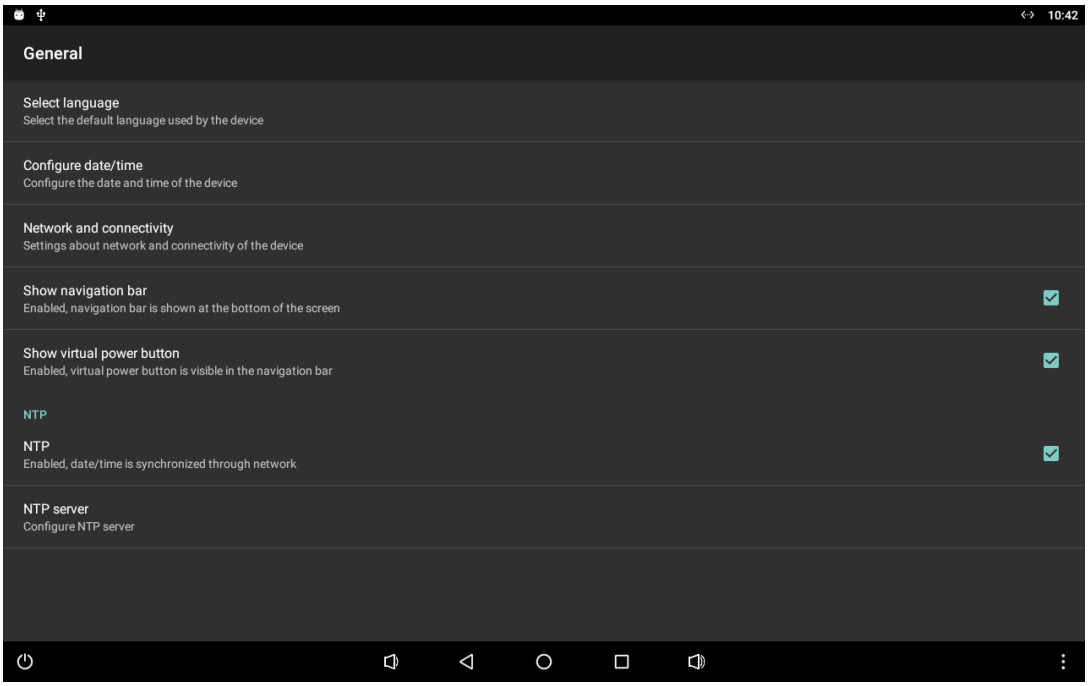
The various settings are discussed in detail in the next pages.

There are 2 access levels for the settings, each with its own password: system and user. Depending with which level you access some settings may be disabled or not. System access level is intended for system integrators and other technical people and provides full access to all settings. User access level provides restricted access to only “safe”/non-critical settings and is considered safe for end-users with no in-depth knowledge of the device.

The various settings can change depending on the device DIVUS IQ LAUNCHER is installed on. This manual will consider the app is installed on DIVUS KNX IQ with Android 6.

3.1 GENERAL

This category holds general settings which are mostly valid globally for the whole device, not only for DIVUS IQ LAUNCHER.



The first 2 entries redirect to Android settings and allow to change the language of the device and access date/time settings of the device.

DIVUS IQ LAUNCHER has as default language English and contains translations for German and Italian, but the Android system offers many more languages. Should a language be selected which is not supported then DIVUS IQ LAUNCHER will be using English, but other apps or system components may be able to display the selected language.

The next entry opens a sub-menu to configure various network related settings.

The first checkbox sets the visibility of the navigation bar, which by default is visible. Should this be unchecked then the bottom navigation bar will no more be visible and its functions inaccessible.

The option to show/hide the navigation bar is only available when installed on DIVUS KNX IQ.

The last checkbox is used to configure the visibility of the virtual power button in the navigation bar, which by default is visible. Should this be unchecked then the virtual power button in the navigation bar will no more be visible and its functions inaccessible.

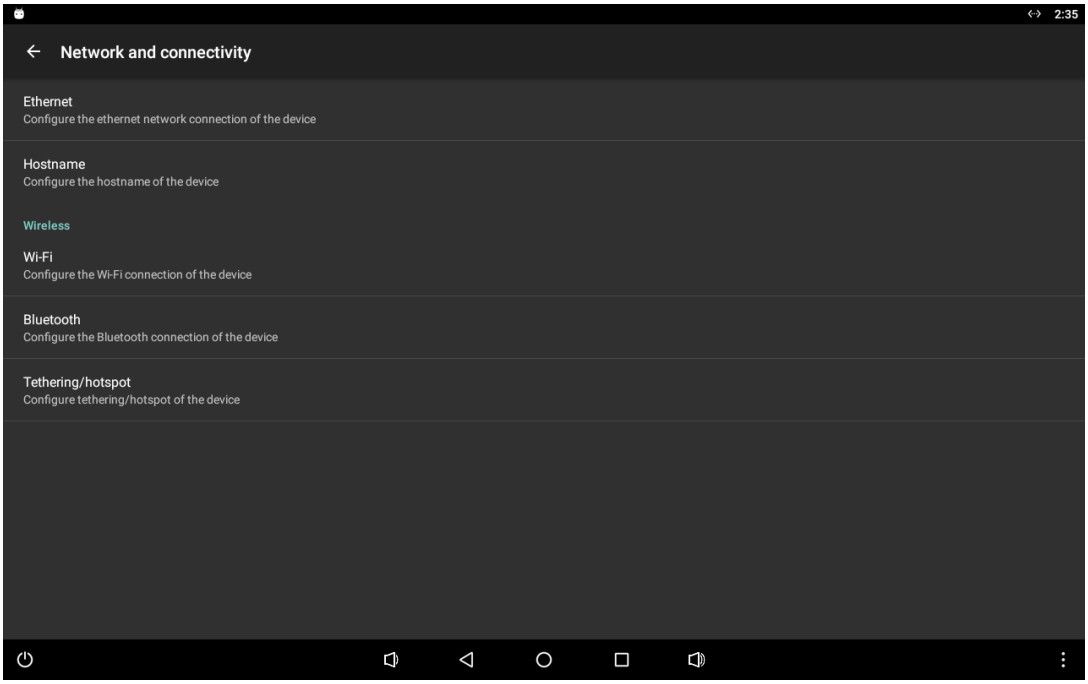
The option to show/hide the virtual power button is only available when installed on DIVUS KNX IQ.

The last settings configure the usage of the network time protocol (NTP), enabled by default. Besides enabling/disabling this function, it's also possible to configure a customer NTP server to contact for time synchronization.

Enabling/disabling NTP here will also change the value in the date/time settings, and vice-versa.

3.1.1 NETWORK AND CONNECTIVITY

The “network and connectivity” setting opens a sub-menu with network and connectivity settings for the device, which provide settings for ethernet and hostname of the device.



The first entry will open an Android window where it is possible to see the MAC address of the ethernet port, see the current configuration and change it, or disable the ethernet port altogether. It is possible to operate the ethernet interface in both DHCP or static, for the static IP the corresponding data has to be provided.

The other setting allows change the hostname of the device. When the hostname is changed, a reboot of the device is required before the new hostname is used. Setting an empty hostname will rewert back to the default value.

Access to Ethernet settings is only possible on devices which support it, like DIVUS KNX IQ.

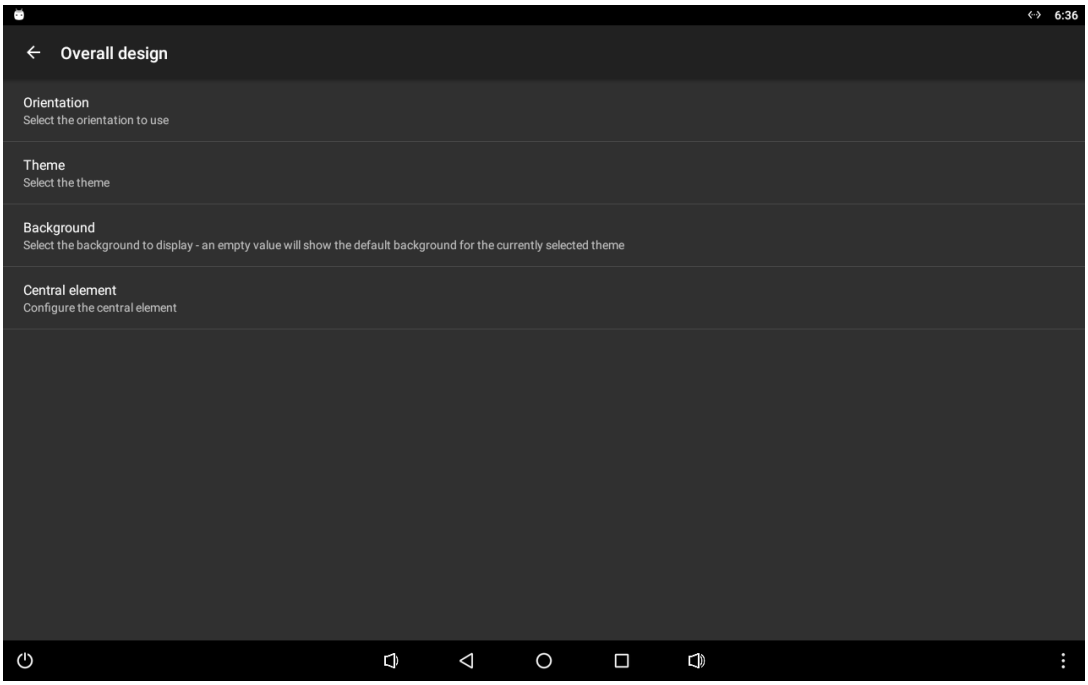
Various restrictions apply to the hostname: it can’t exceed 16 characters and can contain only letters, digits and “-“. An invalid hostname can cause that the device may not be able to access the network properly.

The next settings give access to the wireless functions of the device, namely Wi-Fi, Bluetooth and tethering/hotspot. Through them it’s able to connect to a wireless network, interface with a Bluetooth device or create a Wi-Fi hotspot.

Access to the wirelss functions may not be present on all devices and is configures during the production process. If these function are required there must be requested at purchase!

3.2 OVERALL DESIGN

The category "overall design" contains some general settings which allow to change the overall design of the launcher.



The first setting allows to change the orientation of the launcher. The possible values are as follows:

- Sensor
- Vertical
- Horizontal
- Reverse vertical
- Reverse horizontal

Depending on the sensors present on the device, the default value is either sensor (if corresponding sensors are present) or vertical (if no sensors are present). Should no sensors be present, then the option sensor will not be present at all. DIVUS IQ LAUNCHER supports both landscape and portrait orientations, with the value sensor the launcher will rotate automatically depending on the sensor value. The other values will rotate the launcher in a fixed orientation, depending on the hardware orientation/settings of the device.

The selected orientation is mainly used in the main view of DIVUS IQ LAUNCHER and is not applied to other apps.

On some devices the reverse orientations may not be supported correctly and thus the regular orientation is used.

The next options allows to change the general theme of the launcher, the available values are: white (default), gray and black. This value mostly changes the background overlay of the central element and app area, and also the colors used in them. Below is an example for each theme, from left to right: white, gray, black:

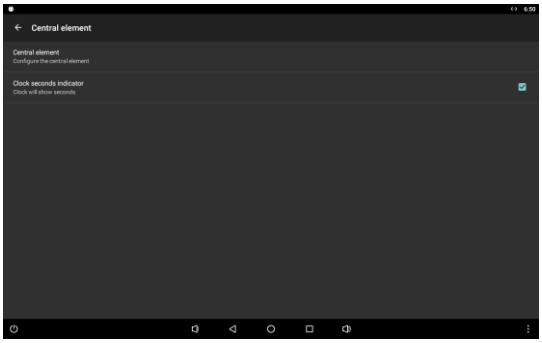
The next setting allows to change the background image used in the launcher. When clicking this setting automatically the gallery will show up through which you can select one of the images found on the device. If you abort the image selection or just go back before selecting an image, then a dialog is shown where you can also manually enter the full path to the image to use. If you leave this field empty, or if the image is not able to load, then the default image for the selected theme is used.

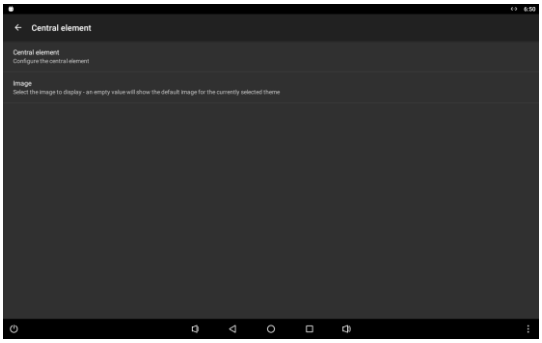
If you add/download a new image to the device it's possible that the new image will not show up in the gallery as the media framework of Android may hasn't registered that image yet. In that case reboot the device and the image should now be present.

The last setting in this category allows to configure the central element.

3.2.1 CENTRAL ELEMENT

The “central element” setting opens a sub-menu which provides various settings to configure the central element of the main view of the DIVUS IQ LAUNCHER.



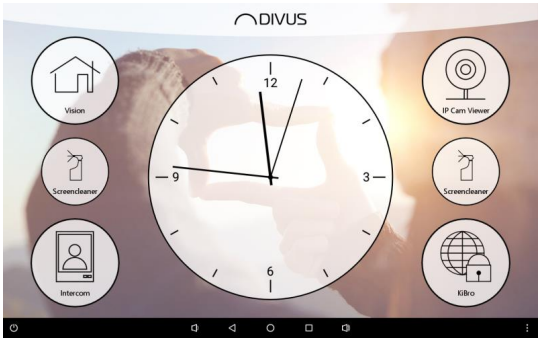


The first setting allows to select which type of central element to use. The possible values are as follows:

- Analog clock
- Image

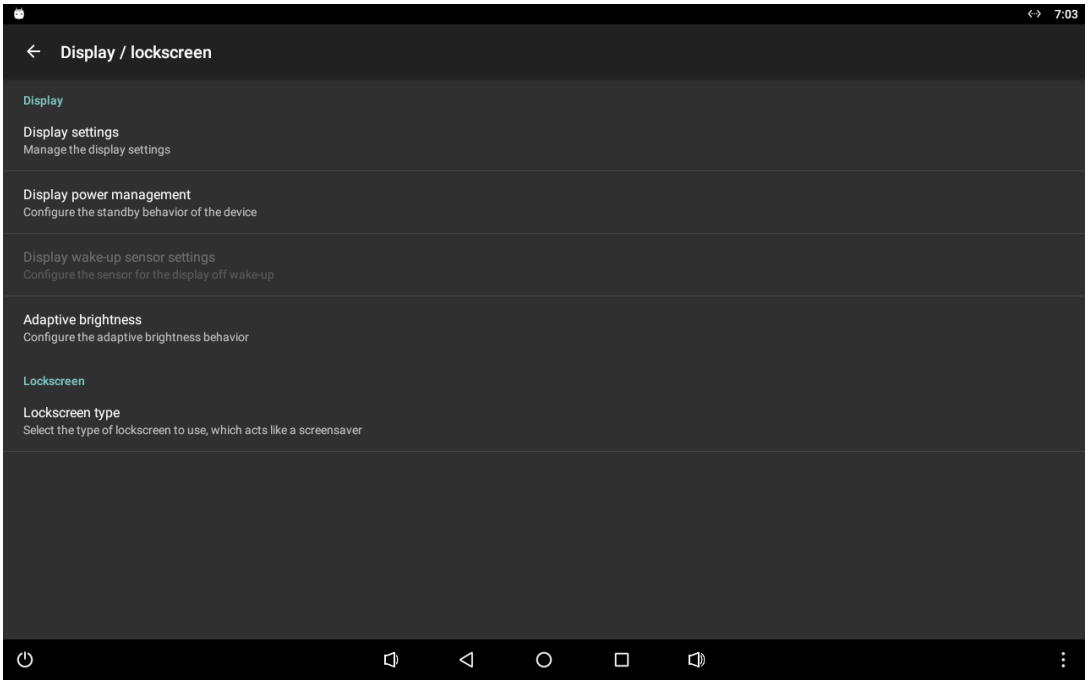
When selecting the analog clock as central element, then it will be also possible to select through a checkbox if to show the seconds-hand of the clock or not. When selecting instead an image as central element, then an additional setting will become visible through which it will be possible to browse the gallery to select an image, if no image is selected then a default image is used. By default the central element is configured to show the analog clock with seconds-hand visibile.

Below are examples of analog clock (left) and image (right) as central element.

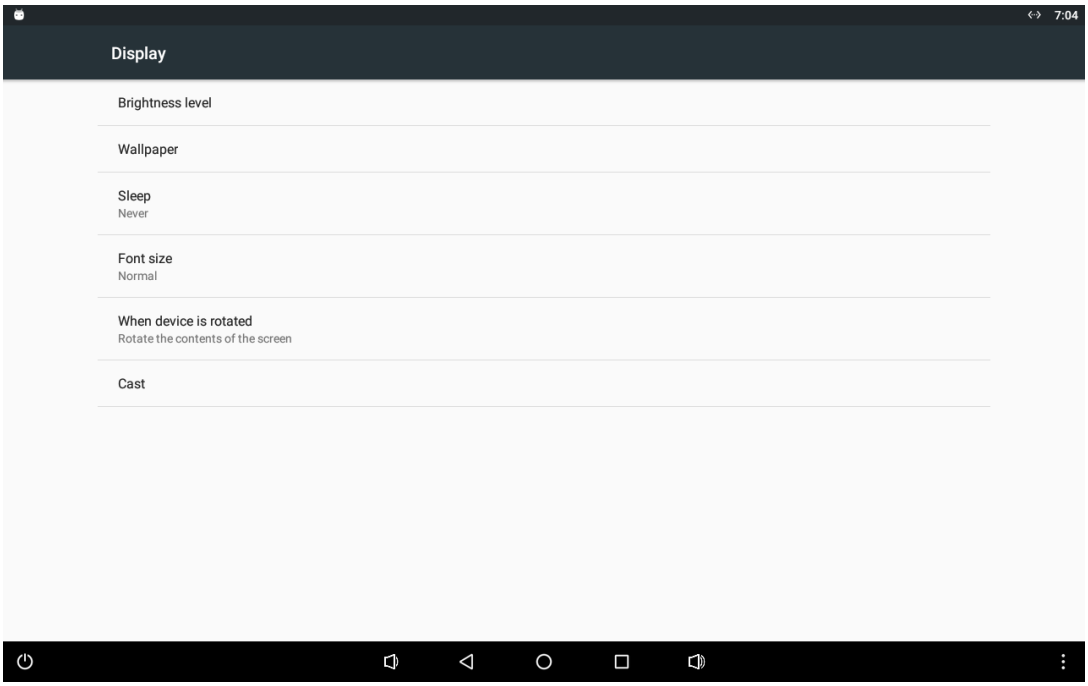


3.3 DISPLAY / LOCKSCREEN

The category “display / lockscreen” provides various settings related to display and lockscreen, and is divided in 2 corresponding sections.



The first settings opens up an Android menu with various display settings.



- Brightness:

  Here it's possible to configure the brightness of the display. On most devices it's also possible to pull down the status bar and find there a slider to change it too.

- Wallpaper:

  Allows to change the default wallpaper which is shown, e.g. as background in the recents window.

- Sleep:

  Defines the display-off timeout of the device, which by default is disabled.

- Font size

  Allows to change the font size used on the device, making the font smaller or bigger.

- When device is rotated

  Allows to change how the device should behave when rotated.

- Cast

  Allows to cast your screen on other devices which support it.

The next entry allows to change the display power management which defines how the devices should behave in standby, the possible values are:

- Keep display on

  The display will never time out and will always remain on with the set brightness level.

- Dim display

  When going into standby the display will dim to minimum brightness, at wake up (e.g. when screen is touched by the user) the display will again brighten up to the previous brightness.

- Turn display off

  When going into standby the display will turn off and can only be woken up through the physical home button.

- Turn display off (wake up with sensor)

  When going into standby the display will turn off and can only be woken up through the physical home button or through the proximity sensor. If the devices does not have a proximity sensor then this value is not visible.

In order for the display dim/off behaviour to work correctly a sleep timeout has to be selected in the display settings. If the device is set to never sleep, then the display will always remain on, regardless of the selected display power management value.

Even if configured to turn the display off, some apps may prevent the display from turning off while they are in foreground.

The settings “display wake-up sensor settings“ unlock if the display power management is set to “turn display off (wake up with sensor)” and works only in combination with that. If no proximity sensor is present on the device, then this option is not visible. Details on this function are provided in a separate chapter.

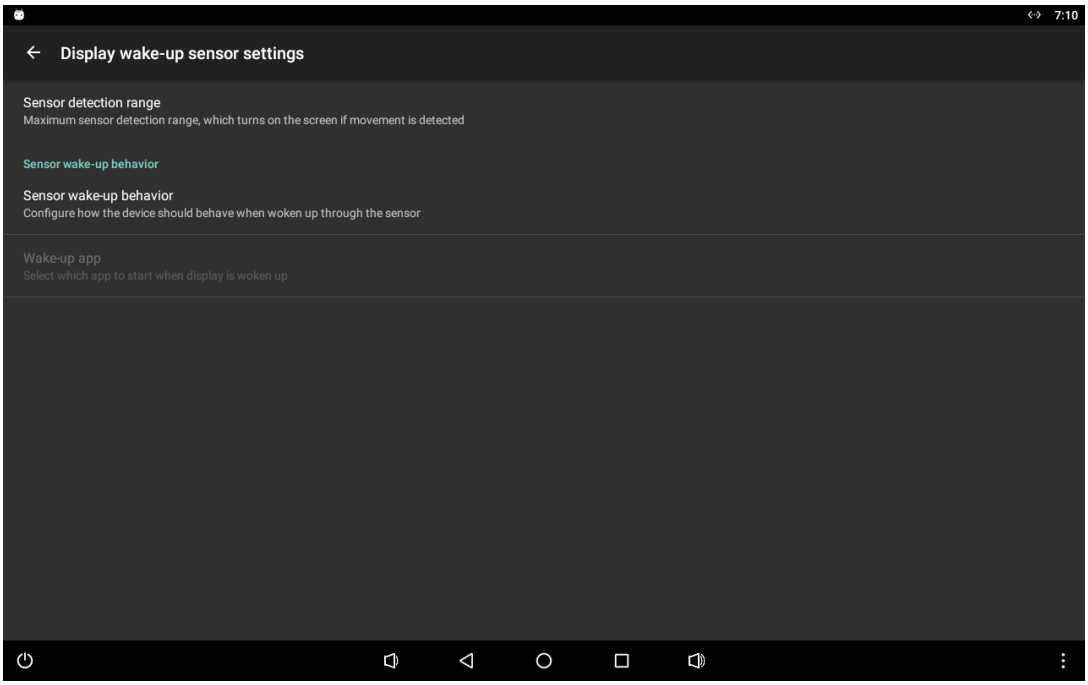
The next setting allows to configure the adaptive brightness, which allows to automatically set the display brightness depending on the surrounding brightness. Details on this function are provided in a separate chapter.

Adaptive brightness is only available when installed on DIVUS KNX IQ running Android 6.

The last set of settings allows to configure a lockscreen, which will be discussed in more detail later in the manual.

3.3.1 DISPLAY-OFF WAKE-UP THROUGH SENSOR

When DIVUS IQ LAUNCHER is installed on device with proximity sensor it's possible to wake-up the device from sleep through the proximity sensor, and customize the wake-up behavior. This is possible in the "display wake-up sensor settings", which become available if the display power management is set to "turn display off (wake up with sensor". Below is an overview of the possible settings:



The first option allows to set the sensor detection range: if movement is detected within this range, then the configured display wake-up routine is executed if the display is currently turned off. If the display is already on while movement is detected, then the sleep timeout is reset and the device will be stopped from going to sleep. The possible values are as follows:

- Near (corresponds to roughly up to 50cm).
- Close-by (corresponds to roughly up to 1m).
- Far (default value, corresponds to roughly up to 2m).

Proximity sensor precision can change depending on the device.

The next settings allows to configure the sensor wake-up behavior in case movement is detected, with the following scenarios:

- Default behavior

  This option just turns the display on again, the same as if the physical home button is pressed. Whenever possible the previously open app is shown. This value is selected by default.

- Show launcher

  This option turns the display on again, but instead of showing the previously open app the main view of DIVUS IQ LAUNCHER is shown.

- Start lockscreen

  This option turns the display on again, but instead of showing the previously open app the configured lockscreen is started. Closing the lockscreen will then show the main view of DIVUS IQ LAUNCHER. This option is only available when a lockscreen is configured.

- Start app

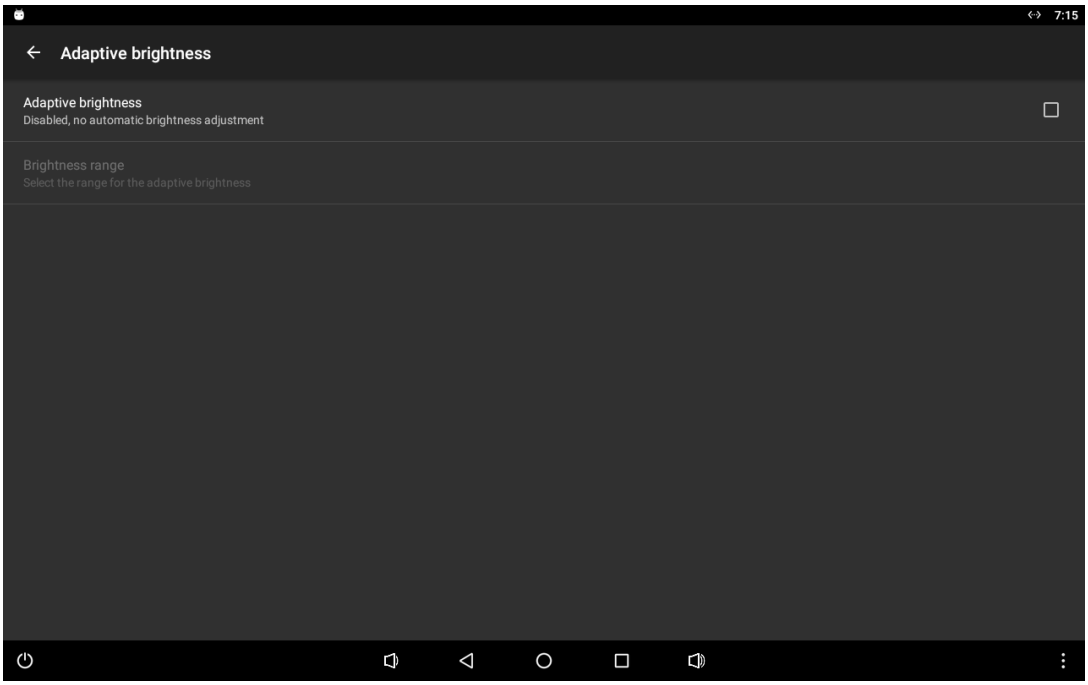
  This option turns the display on again, but instead of showing the previously open app the configured app is started. When this is selected, then an additional setting becomes available through which the app to start can be selected.

In order to avoid false-positives, the wake-up from display-off through sensor will not react on single movements: a fast movement like waving will not trigger this function. Instead a series of last known values will be considered and analysed and reaction will be based on that. Because of this this function does not trigger instantly on movement, but can be delayed by a few seconds.

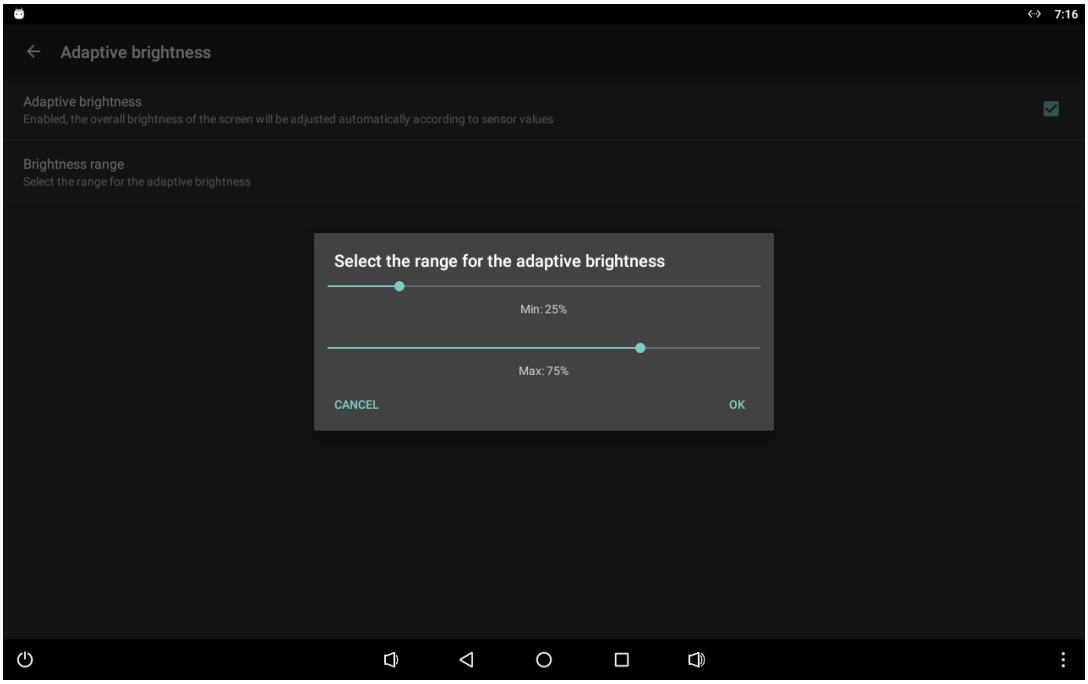
Before using this function on DIVUS KNX IQ consult the manual of DIVUS KNX IQ first.

3.3.2 ADAPTIVE BRIGHTNESS

If DIVUS IQ LAUNCHER is installed on DIVUS KNX IQ running Android 6 it is possible to automatically adjust the display brightness depending on the surrounding brightness in the room, as registered through the light sensor. This is possible in the "apative brightness" settings, which look as shown below.



The first option allows to enable the adaptive brightness function, which by default is disabled. By enabling the function the next setting becomes available, clicking on it will open the following dialog.



This dialog allows to set the range in which the adaptive brightness can operate: the display brightness will never be set below minimum value and will never exceed the maximum value. The minimum value (25% by default) can't be lower than 10% or higher than the maximum value, whereas the maximum values (75% by default) can't be lower than the minimum value and higher than 100%. Changing one of these sliders in the dialog will temporarily dim the display to the selected value, as a preview.

When the adaptive brightness is triggered the display brightness of the devices is automatically changed to match the surrounding brightness in the room. Based on registered sensor values the screen brightness will be set to a matching value between the configured minimum/maximum brightness range.

The minimum and maximum value correspond to the overall display brightness capabilities of the device and are independent from the currently set display brightness

The adaptive brightness function does not react on single changes in brightness, but instead a series of last know values will be considered and analysed. The display brightness is then changed in fixed intervals of 10s depending on the known sensor values and configured minimum/maximum brightness range.

When adaptive brightness is enabled it is still possible to change the display brightness manually, however this value will be overwritten the next time adaptive brightness is triggered.

Light sensor precision can change depending on the device.

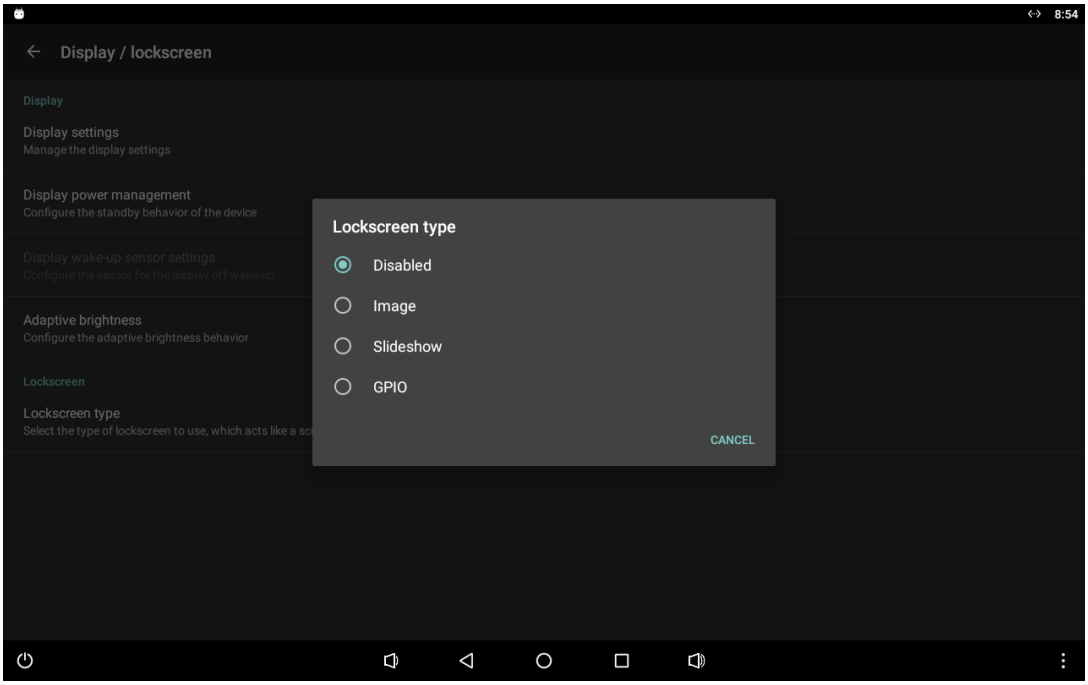
When using the adaptive brightness it is advised to disable the display dim power management, as display dim will override the adaptive brightness function.

Adaptive brightness is only available when installed on DIVUS KNX IQ running Android 6.

Before using this function on DIVUS KNX IQ consult the manual of DIVUS KNX IQ first.

3.3.3 LOCKSCREEN

DIVUS IQ LAUNCHER offers a wide variety of lockscreen, which act like a screensaver and start after a set time of inactivity is detected. By default the lockscreen is disabled, but the following type of lockscreen are possible:



DIVUS IQ LAUNCHER will register user input on the screen and the lockscreen can be configured to start after a given amount of inactivity. Additionally it's possible to configure a password, which is required to provide before being able to close the lockscreen, else the lockscreen remains open.

Depending on the device, before using the lockscreen it may be necessary to unlock it first, as the user has to give special permission which allows the lockscreen to draw on top of other apps.

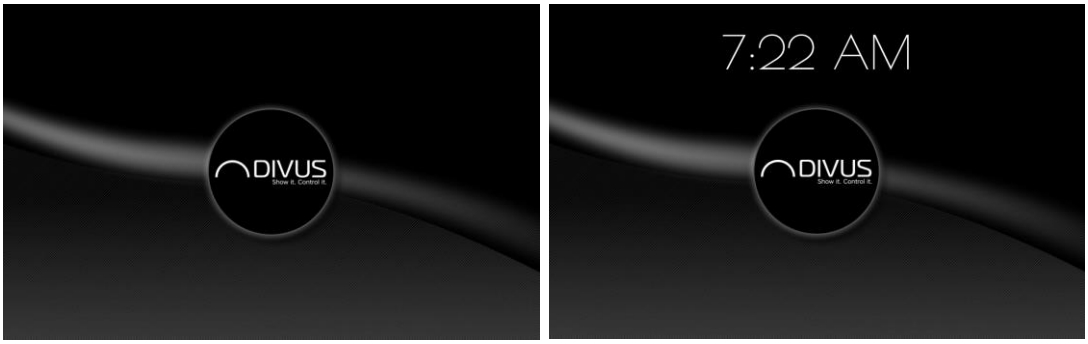
When the lockscreen is closed DIVUS IQ LAUNCHER tries to open the previously open app, after a short delay. It can't be guaranteed that this succeeds or the exact same window as before opens.

The lockscreen is only able to detect touches on the screen in order to calculate its timeout, thus it can happen that the lockscreen starts while the device is in (passive) use. Because of this it is advised to choose a generous timeout.

When using the lockscreen it is advised to disable the simple display off power management. The display off and wake-up through sensor however is safe to use.

3.3.3.1 IMAGE

This lockscreen allows to show a single image, and possibly also a digital clock showing the time.



There are just 2 options for this type of lockscreen, the image to display and if the clock should be shown or not. Similar as for the background image, also here when setting the image the gallery will open through which the image can be selected. If no image is set, or the set image can no more be found, then a default image is used. The clock uses automatically the time of the device and the format as configured for the device.

This lockscreen can be closed with a swipe or a touch on the screen.

3.3.3.2 SLIDESHOW

With the slideshow lockscreen it's possible to show a slideshow of many images, and possibly again also the current time.

Graphically it looks nearly the same like the image lockscreen, but instead of specifying a single image a folder is selected: the images contained in that folder are then displayed as slideshow. If the folder does not contain any images or can no more be found, then a default set of images is used. As additional setting also the time between switching from one picture to the next has to be defined. The clock works again the same as in the image lockscreen: can be shown or hidden, and uses the time format set for the device.

This lockscreen can be closed with a swipe or a touch on the screen.

3.3.3.3 GPIO

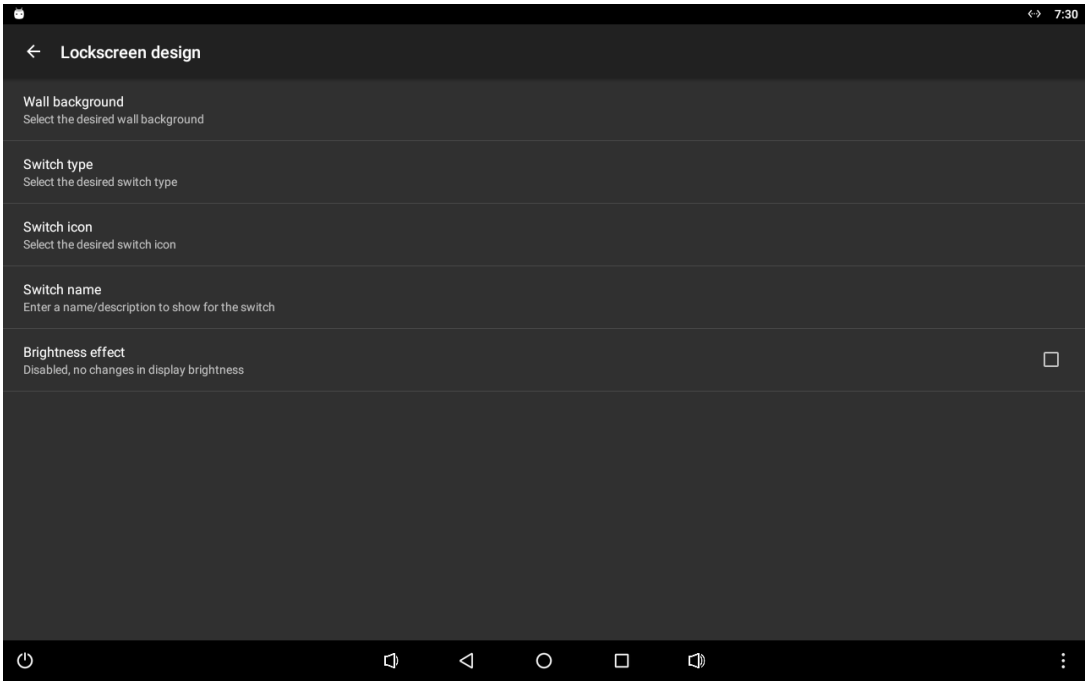
This lockscreen allows to directly control the digital output of DIVUS KNX IQ to trigger external elements. Here again it can be configured if to show a digital clock which uses the devices time format. Also the design of the lockscreen can be customized (will be explained in another chapter).

This lockscreen can be closed with a swipe on the screen.

This lockscreen is available only on DIVUS KNX IQ.

3.3.3.4 LOCKSCREEN DESIGN

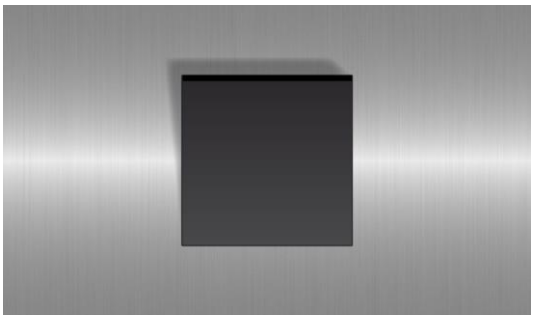
As discussed before, the lockscreen GPIO can have its own lockscreen design, the settings look as follows:



The first setting allows to select from a list of offered templates which kind of wall background to use. Similarly, the next option allows to select the type of switch to use. The next setting gives the option to select an icon to display inside the switch. Next, there is also the possibility to give the switch a name which is shown.

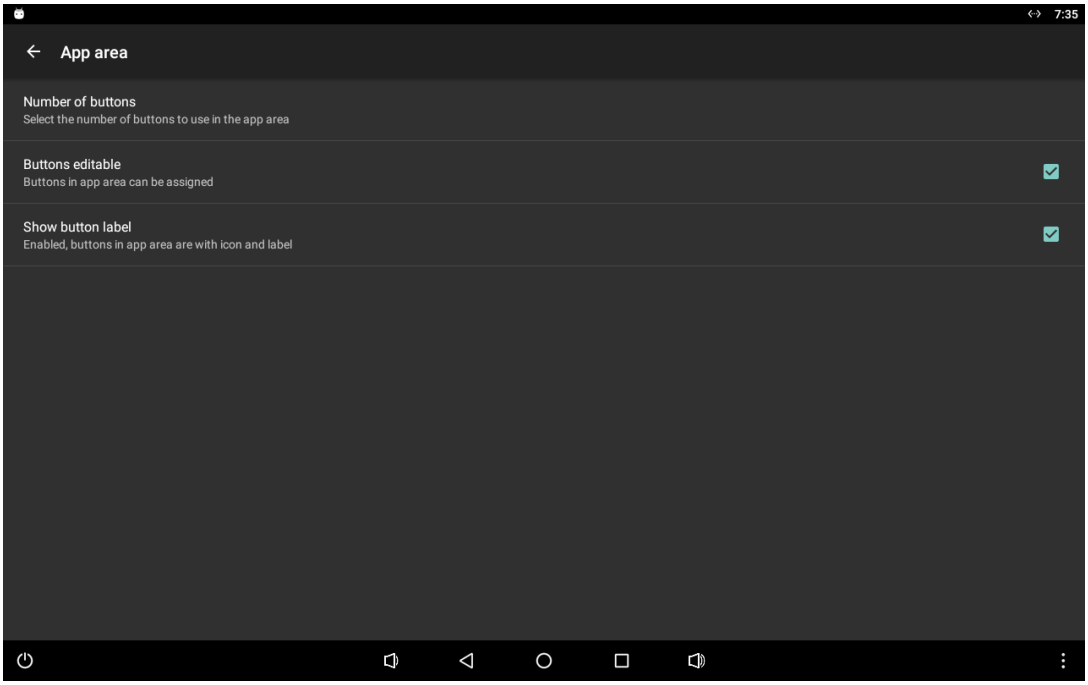
The last setting when enabled gives a brightness feedback on the state of the switch: if when pressing the switch turns something on then the display turns briefly brighter, if when pressing the switch turns something off then the display turns briefly darker, during standby the display remains at medium brightness.

Below are some examples for various designs, to the left the defaul one and to the right a custom one.



3.4 APP AREA

This category of settings is all about the customization of the app area. The settings look as follows:



The first settings allow to change the overall structure of the app area by changing the amount of buttons, by default there are 6 buttons. Below is an example with only 2 buttons, in both landscape and portrait.

The next settings allows to enabled/disable the assignement of the buttons. By default this button is enabled and buttons in the app area can be assigned by doing a long-click on them. When this option is disabled, then long-clicking on a button will no more open the dialog to assign/unassign the button, the button remains locked in its current configuration.

The last setting configures if the buttons should display their label or not. By default the label of the button is shown, when disabling this setting then only the icon of the assigned app is shown.

3.5 ADVANCED

In this section all the advanced settings of the DIVUS IQ LAUNCHER are present, which are divided into advanced settings and simple access to other Android settings.

3.5.1 ADVANCED

3.5.1.1 SYSTEM/USER PASSWORD

As mentioned before, access to the settings of DIVUS IQ LAUNCHER is protected by password: the default system password is "0000", the default user password is "1111". System access has access over all settings present in the DIVUS IQ LAUNCHER, user access has only limited access to those settings which don't alter the behaviour of the device or DIVUS IQ LAUNCHER, and are thus deemed "safe" for regular user with no/little technical knowledge.

Those passwords can be configured, when changing them it is required to provide the current current password, and type the new password twice.

Should both passwords match then the access to the settings is always at system level, user access is thus nullified until the passwords are different.

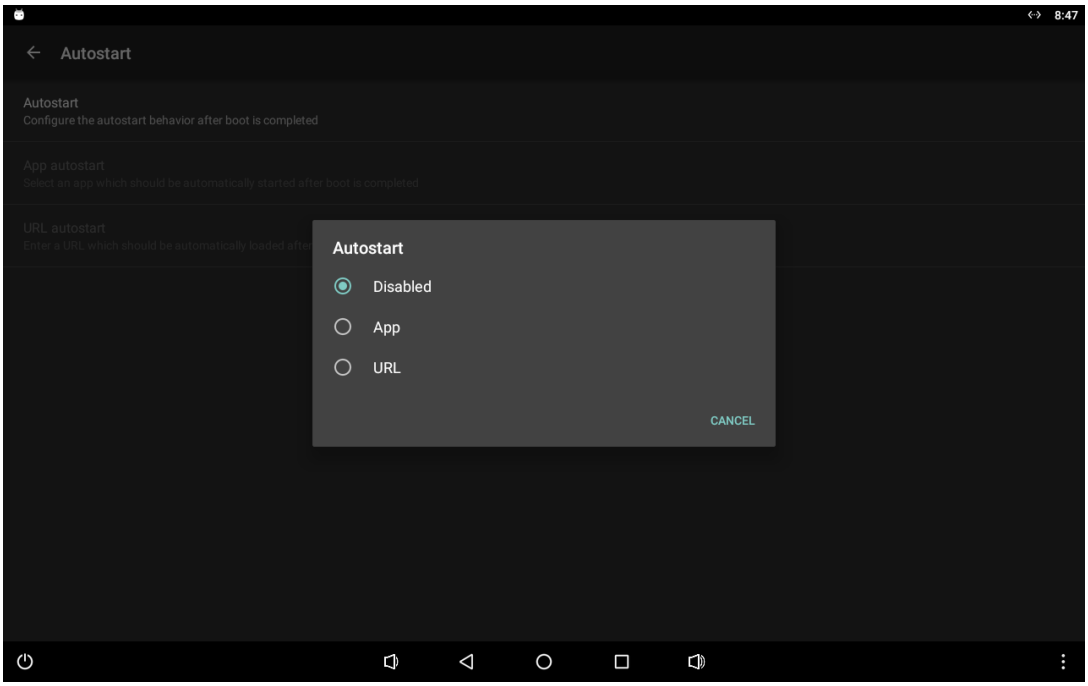
Passwords should always be kept private and not shared with unauthorized personnel.

3.5.1.2 WELCOME MESSAGE

By default at every start of DIVUS IQ LAUNCHER the welcome message is displayed. This option can be disabled here and the message will no more display.

3.5.1.3 AUTOSTART

In this submenu it's possible to configure the autostart behaviour for the device.

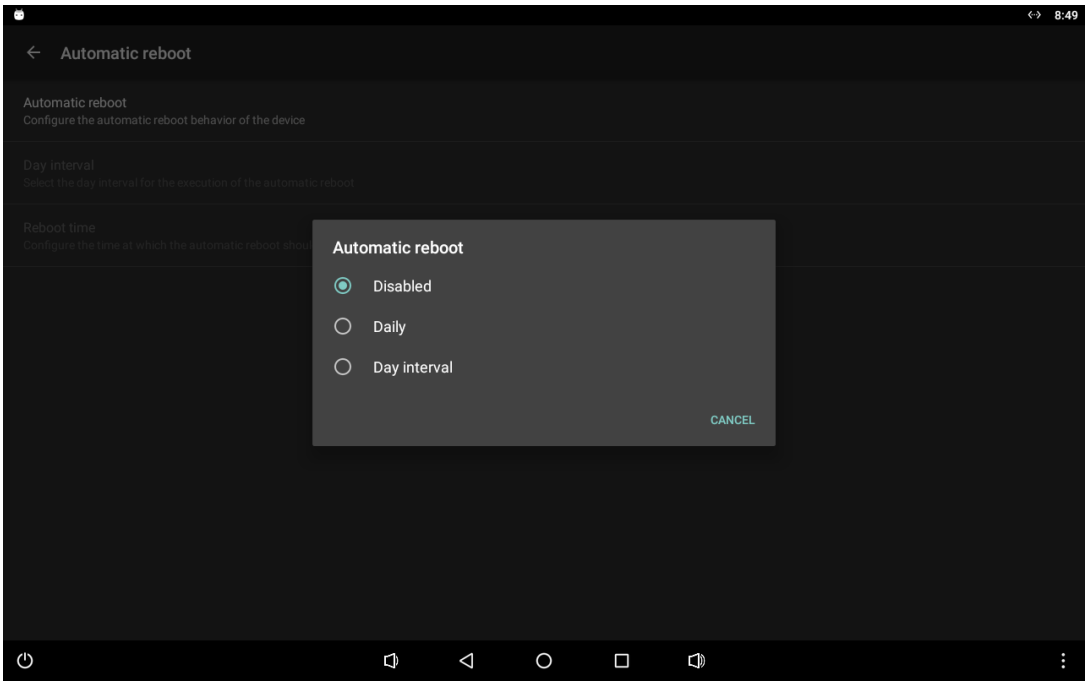


By default it is disabled, but it's possible to configure either an app or URL as autostart. When selecting one of those option either an app from the list of installed apps has to be selected, or the full URL to open has to be provided. Once this setting is enabled at the start of device the desired app/URL is started.

This autostart is executed with a short delay, in order to guarantee that other services and components which may be relied on by the app/URL are running.

3.5.1.4 AUTOMATIC REBOOT

This function allows the device to perform automatic reboots in periodic intervalls.



By default it is disabled, however it's possible to select either daily reboots or reboots with day interval. In both cases the time at which the reboot has to be performed has to be set, only with the day interval also day interval itself has to be selected. During operation whenever the condition is satisfied, the device will perform a reboot.

Automatic reboot is possible only for DIVUS KNX IQ running Android 6.

3.5.1.5 VISION OPERATING MODE

This option configures the operating mode of Vision, by default set to "server". When set to "server" the device operates in stand-alone mode with the connected bus and allows connection from other clients, whereas when set to "client" it is required to pair to another DIVUS KIQ which acts as server.

This setting requires image version 4.15 or higher.

3.5.1.6 DIVUS SUPPORT ACCESS

This option allows DIVUS personnel to remotely access the device, disabled by default. This is useful in case of technical support and may be required by DIVUS personnel in order to analyse current activity of the device.

This function is realized through the OpenVPN app, when first used this application has to be trusted by the user. Subsequently to enable this function the corresponding action has to be confirmed by the user. Once enabled the connection status is shown in the summary of the setting.

DIVUS support access requires a networking connection in order to be used.

Use this function only when requested by authorized DIVUS personnel!

3.5.1.7 DIVUS SYNCHRONIZER ACCESS

This Option is used to allow/deny DIVUS SYNCHRONIZER access to the device, disabled by default. DIVUS SYNCHRONIZER won't be able to access the device as long as this setting is disabled. It's possible to allow access to the device only for a limited time only, or unlimited.

For additional information consult the DIVUS SYNCHRONIZER manual.

3.5.2 ANDROID SYSTEM

The last set of advanced settings simply provides access to other Android system settings and features:

- Overview of installed applications, with the possibility to delete them. Additional information like used space for each app is also visible.
- Access to volume control and related settings.
- Management of storage, overview of used storage and statistics.
- Access to the TeamViewer QuickSupport app, mostly used by DIVUS employees to provide technical assistance.
- Access to the System Update app, used to reset the device to factory settings or to perform a system update.

Full access to all Android system setting is reserved for DIVUS employees only.

3.6 INFORMATION

This section of the settings holds some general information about DIVUS IQ LAUNCHER and the device. In the first part there are general information like app version, copyright info and a link to DIVUS privacy policy. The next part holds information about the device, like Android version, image version and serial number of the device. The last section holds contact information on how to contact DIVUS, including telephone, e-mail and homepage. This information is mostly used in case of support.