

G7 Room Sign App & Access App

GT7 Terminal App for Door Management



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1 INTRODUCTION

1.1 About this manual

This manual contains information on the configuration and operation of the G7 Room Sign & Access app operating on a GT7 terminal. Detailed information on the configuration settings and operation of the G7 Room Sign & Access app are provided within.

 Information on the installation and electrical connection of the GT7 terminal is provided in a separate GT7 terminal manual. Separate documentation is also available for related applications such as G7 Connect and the suite of G7 apps available for the GT7 terminal.

1.2 Chapter overview

In chapter “2. GENERAL INFORMATION” you will find information on the intended use and function of the GT7 terminal with G7 Room Sign & Access app as well as a description of the terms used frequently in this manual.

Provided in chapter “3. TERMINAL AND APP INSTALLATION” are the details for where additional information on the installation and commissioning of the GT7 terminal can be found.

In chapter “4. APP CONFIGURATION”, all the configuration settings that are specific to the G7 Room Sign & Access app are explained. This chapter provides detailed instructions on how to configure the G7 Room Sign & Access app to suit the desired application.

In chapter “5 OPERATION”, information on how to operate the G7 Room Sign app for the end user is available.

1.3 Target group

Information for the following target groups is available in this manual:

- Installation personnel (installation, commissioning, configuration)
- Users of the G7 Room Sign & Access app (operating instructions)
- Software partners

If the target group is not specifically stated, the information is intended for all target groups.

 **CAUTION! Injury and damage to property/equipment.** The instructions in this manual that are intended for a specific target group may only be performed by this target group. The completion of activities by unqualified personnel can lead to injuries and/or damage to property/equipment.

1.4 Formatting

1.4.1 Safety-critical information

The following formatting (with example text) is used in this manual to display important, safety-critical information that must be read and followed.

NOTE! Following on from this signal word is a reference text that must be read and followed. The reference text contains important information. Non-observance can lead to damage of the device or associated equipment.

1.4.2 Non safety-critical information

The following formatting (with example text) is used in this manual to display important, but not safety-critical information.

 *The text accompanying this symbol contains interesting information relevant to the current chapter. This information is intended to help you to understand the context in the section or provide interesting tips for the described device or software operation.*

1.4.3 Instructions and results

Instructions, which must be completed by the reader, and the results of these instructions are formatted as follows.

- ▶ This symbol represents an action or instruction that that must be followed.
 - This symbol represents the result after completing the previous instruction.

1.5 Contact & inquiries

If you have any questions concerning the GT7 terminals and the G7 Room Sign & Access app, please contact your local sales partner or one of the GANTNER branch offices directly. The contact details are available via the following link: www.gantner.com/locations

2 GENERAL INFORMATION

2.1 Intended use

The G7 Room Sign & Access app is intended to be used with the GT7 terminal as an access control reader and to display information (room sign) for the internal rooms and offices of company buildings.

2.2 Functional description

With the Room Sign & Access App, the GT7.330x becomes a modern access control reader that, in addition to displaying the door status and the status of the alarm system, can also support the user with convenient plain text messages. If required, a keypad for operating the alarm system or entering a PIN code is automatically displayed on the touchscreen.

The room labeling can be shown on the display of the device. It is possible to show what the room is being used for, the name of the person or room, and the room number on the display. The screen design is freely configurable. Modifications to the room labeling can be carried out at a central location thus allowing changes to the room occupancy or the room usage to be managed easily and quickly.

Up to four different status messages with differing priority levels can be displayed. The color, the display text, and a voice message for each status can be freely configured thus allowing the user to indicate that they do not want to be disturbed, that the next person can enter the room, or that the room needs to be managed, etc. The status display can be changed via wireless-networked input devices in addition to wired devices thereby removing the need to install wiring to the GT7 terminal location.

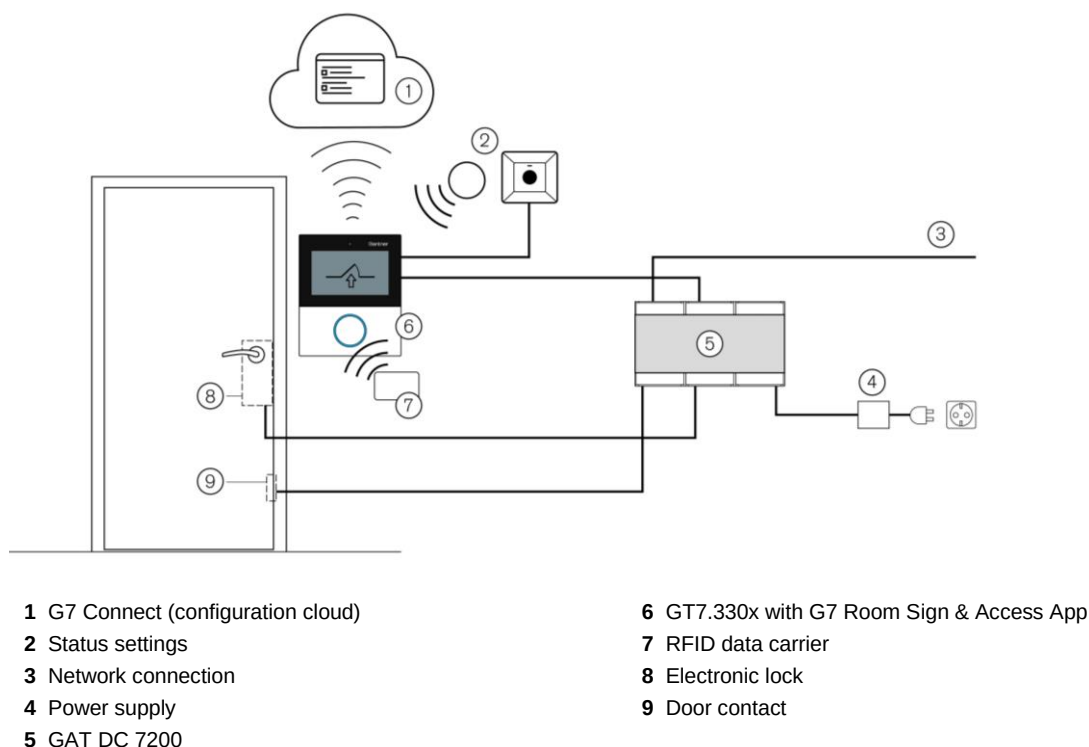


Figure 2.1 – System overview

NOTE! If the GT7 is connected to the GAT DC 7200 and another app other than the G7 Room Sign & Access App is started, the reader communication to the GAT DC 7200 will be disrupted. This will result in malfunctions and incorrect bookings in the reader logs of the GAT DC 7200.

2.3 Terminology

The terms used frequently in this manual are defined below.

App

For GANTNER devices, this term refers to a software application that can be installed on the app-capable devices of the GC7 and GT7 series. The activated app determines the function of the device.

User / Person

These terms refer to the end user who interacts with the GT7 terminal in order to use the G7 Room Sign & Access app.

Computer / PC

These terms refer to all desktop and laptop computers that are used to configure the GT7 terminal and the G7 apps.

Terminal

General term for the GT7 terminal.

Reader

This term refers to the RFID reader that is integrated in the GT7 terminal to read the contactless data carriers of users.

Data carrier

An identification medium (e.g., in the form of a key tag or chip card) with electronic memory and an ID number that the system users employ for identification in the system. The data carriers are available to suit different identification systems (LEGIC®, MIFARE™, ISO 15693).

RFID (Radio-Frequency Identification = identification via electromagnetic field)

In this manual, this term refers to the identification of a person via radio frequency at close range. An RFID data carrier, e.g., in the form of a key tag or chip card, serves as the identification medium.

FID (Company ID) and Site Key

LEGIC® systems use the FID number and in MIFARE® systems the Site Key is used, which is a combination of FID and the read and write keys. The FIDs and the Site Keys are unique for each system. These numbers are encoded in all data carriers and all devices thereby ensuring that data carriers can only be used in the designated facility.

3 TERMINAL AND APP INSTALLATION



The installation, electrical connection, and commissioning of the GT7 terminals are described in a separate device manual. For installation and commissioning, please read and carefully follow the information provided in the GT7 manual.

Figure 3.1 – GT7 terminal manual



G7 Connect (GANTNER Cloud) is a web browser based application that can be used for the convenient configuration and management of the GT7 terminals. This application is especially recommended for larger systems with multiple GT7 terminals. A separate manual with detailed information on all software functions is available for G7 Connect.

Figure 3.2 – G7 Connect manual

3.1 App installation

The GT7 terminal is a multipurpose device with the functionality determined by the app operating on the device. By default, the GT7 terminal is delivered with the G7 Access app only pre-installed. All other apps (including the G7 Room Sign & Access app) are not operating on the device and must be installed first.

The G7 Room Sign & Access app can be installed via the G7 Connect cloud service or via the GT7 web interface. You can also order the app from GANTNER whilst ordering your GT7 terminal via the article “G7 Device License points Room Sign & Access” (Part No. 1108065). If you intend to use the app to display user data from a server, the article “GT7 Room Sign & Access Person Service” (Part No. 1108066) is required to use the person-service function (see “4.5 Person-service configuration”).

After installation, each installed app is displayed on the “Installed Apps” page of the GT7 web interface:

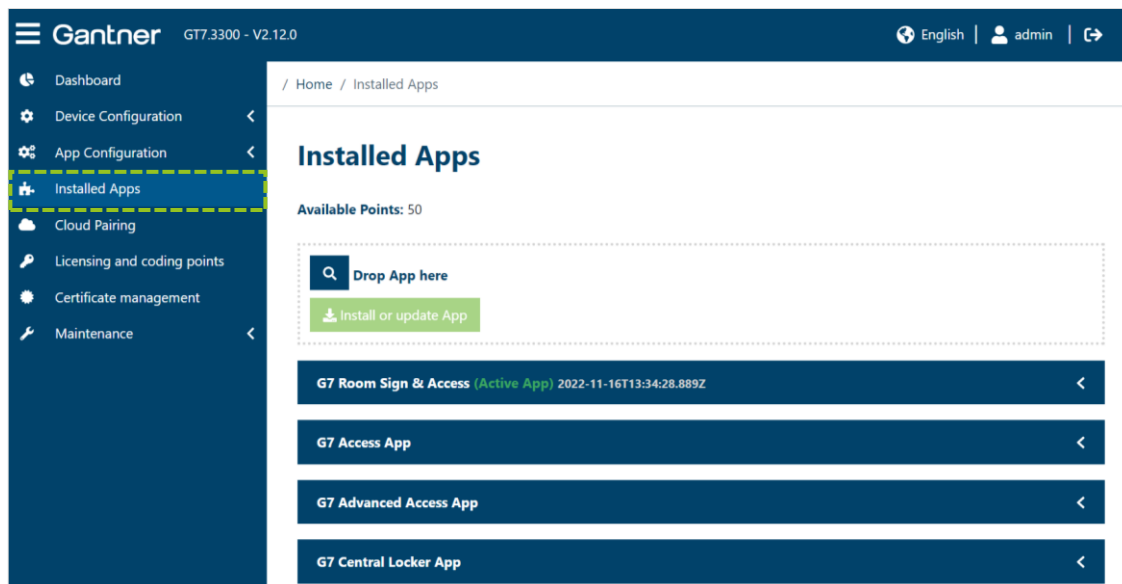


Figure 3.3 – GT7 web interface – “Installed Apps” page

- To view the details of an app, click on the arrow to the right of the app name.



Figure 3.4 – List of installed apps

- Information on the app, e.g., the version and theme, are displayed.

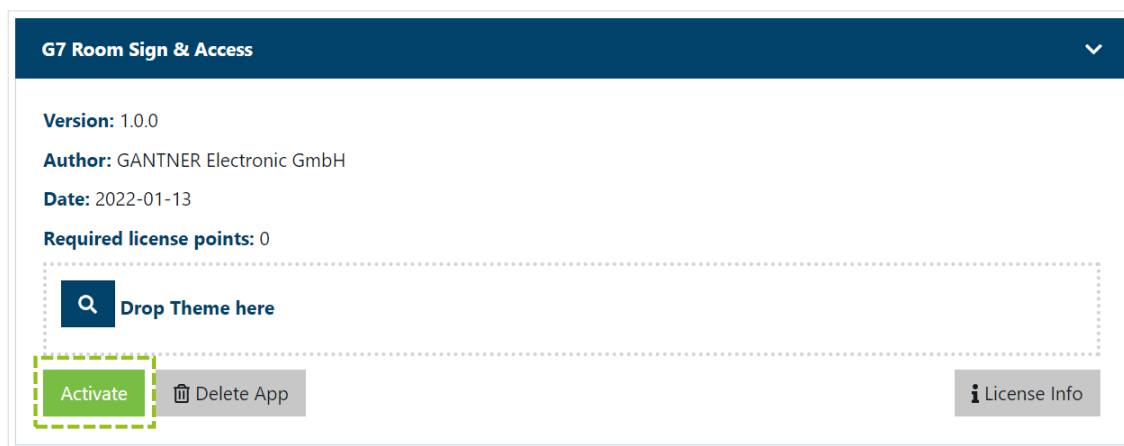


Figure 3.5 – Activation of app in the web interface

- ▶ To enable the G7 Room Sign & Access app for use on the GT7 terminal, click on “Activate”.
- ▶ A suitable theme (see “3.2 Themes (design templates) to customize the design of the display (background, colors, fonts, etc.) can also be added here.

3.2 Themes (design templates)

Themes are design templates and provide an easy way to graphically customize the devices. Themes provided for the G7 Room Sign & Access app can be easily transferred to the device via G7 Connect. Without great effort you can create your own themes using the Themes Editor in G7 Connect.

An example of the default theme available for the G7 Room Sign & Access app that can be used in the default design or further customized.

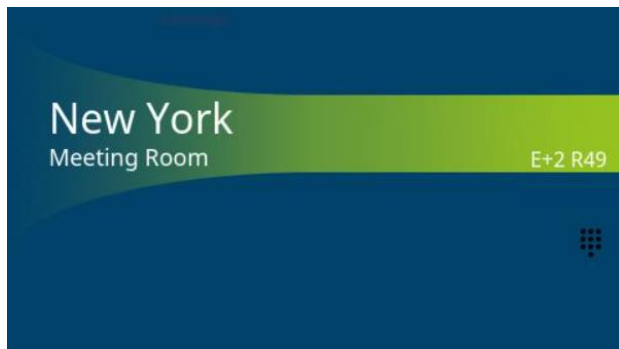


Figure 3.6 – Default theme of the G7 Room Sign & Access app

The screensaver image and text can also be customized in the device configuration. See the GT7 terminal manual for more information.

4 APP CONFIGURATION

4.1 Configuration options

The settings of the GT7 terminal and the G7 Room Sign & Access app can be configured in two ways:

- G7 Connect: This configuration option is recommended for the convenient configuration of the GT7 terminals and especially for larger installations with several devices. The user logs in to the GANTNER Cloud Platform via web browser at <https://gantner.cloud>. All projects and installations of the organization with their associated GT7 terminals are assigned here and, depending on the activation, the user can clearly manage and edit their GT7 devices.

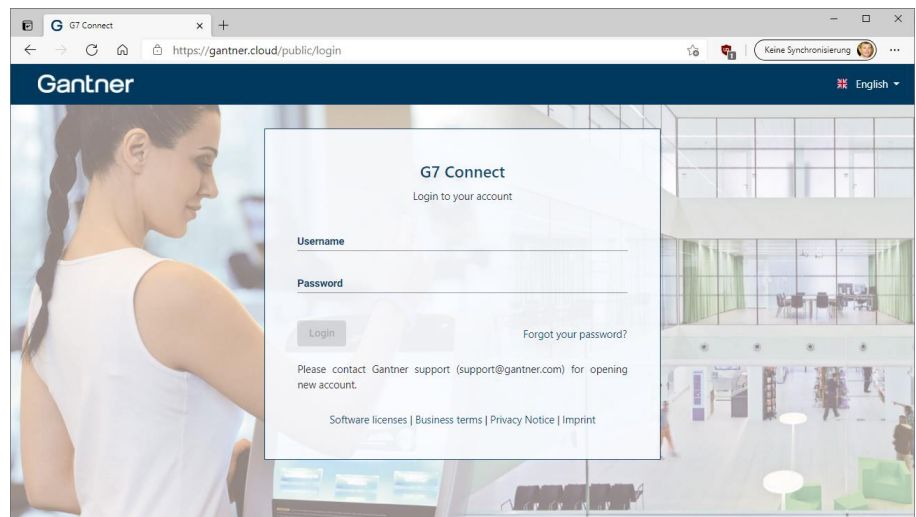


Figure 4.1 - G7 Connect login screen

Add devices:

To add a device to the G7 Connect environment so that it can be configured, the pairing process must be completed. For this purpose, the device pairing function is accessed in G7 Connect and the pairing key of the device is inserted there. This key can be found in the device web interface (see next point) on the "Cloud Pairing" page.

- Web interface: If the computer and the GT7 terminal are in the same network, the configuration can also be directly accessed via web browser by entering the IP address of the GT7 terminal. After entering the IP address, the login screen opens in the browser.

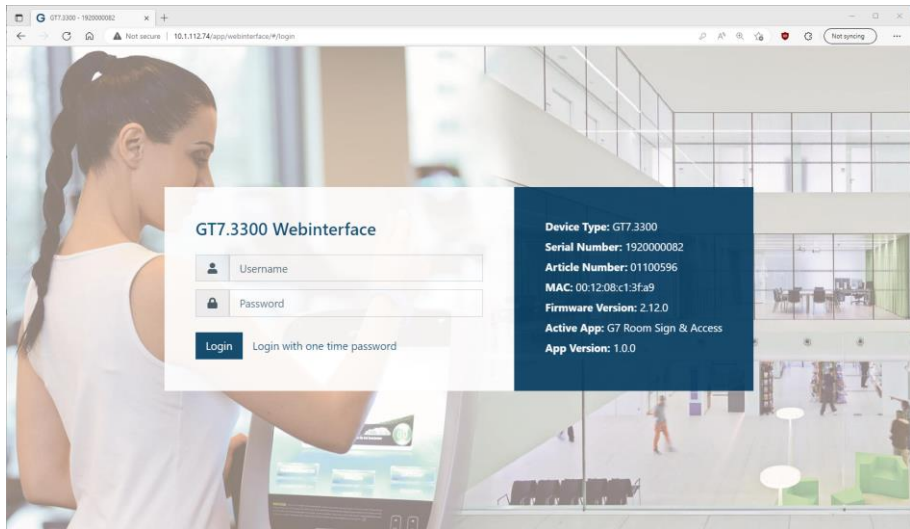
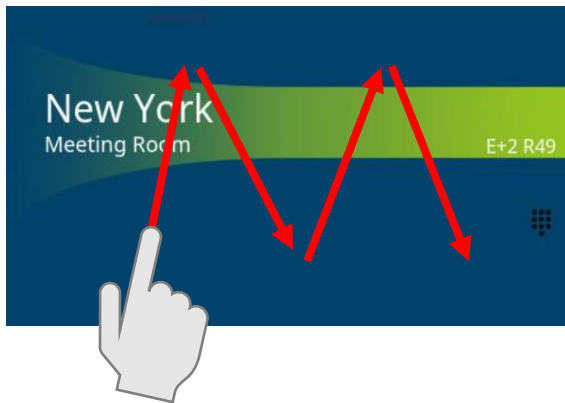


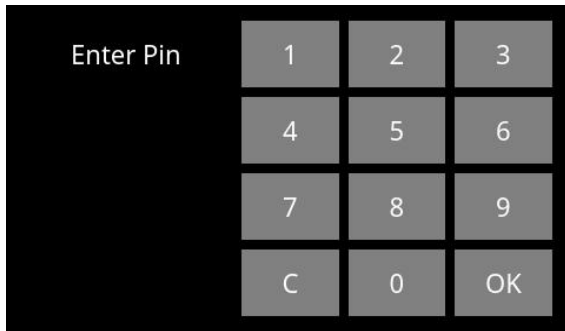
Figure 4.2 - Web interface login screen

The IP address of a GT7 terminal is shown on the display when the device is powered on. It can also be accessed via the configuration menu of the GT7 terminal as follows.

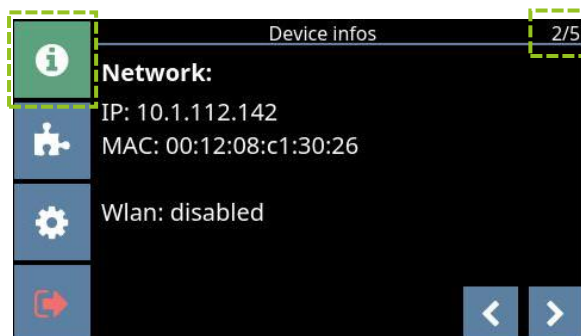
- Write an “M” on the display with your finger (continuously without removing).



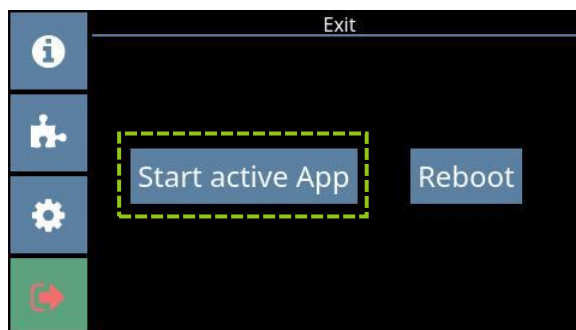
- Enter the PIN code to access the configuration menu. The default code is 0815, which should be changed in the configuration for security reasons after commissioning the GT7 terminal (see the GT7 terminal manual).



- The IP address can be found in the “Info” menu on page 2.



- Exit the configuration menu by cpressing the “Exit” button and selecting “Start active App”.



All configuration settings and information are divided into groups and shown on different pages, and each page is accessed via the sidebar menu on the left.

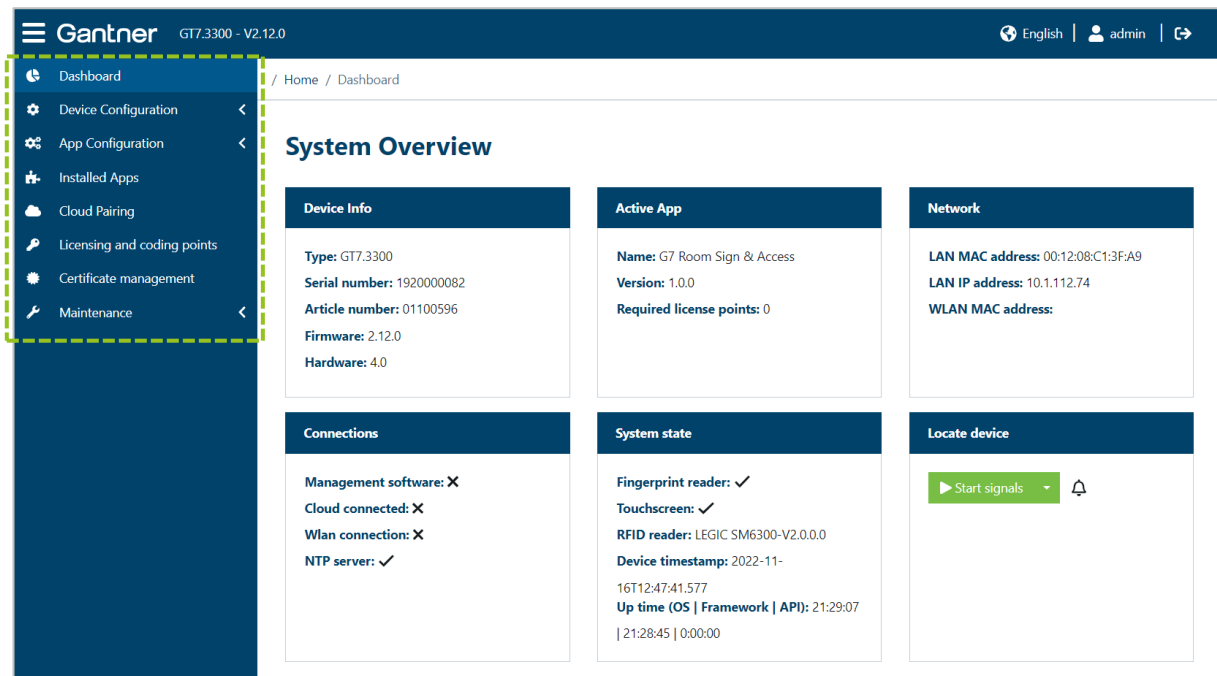


Figure 4.3 – Configuration and information pages of the GT7 terminal web interface

The settings specific to the G7 Room Sign & Access app can be found under “App Configuration” in the menu.

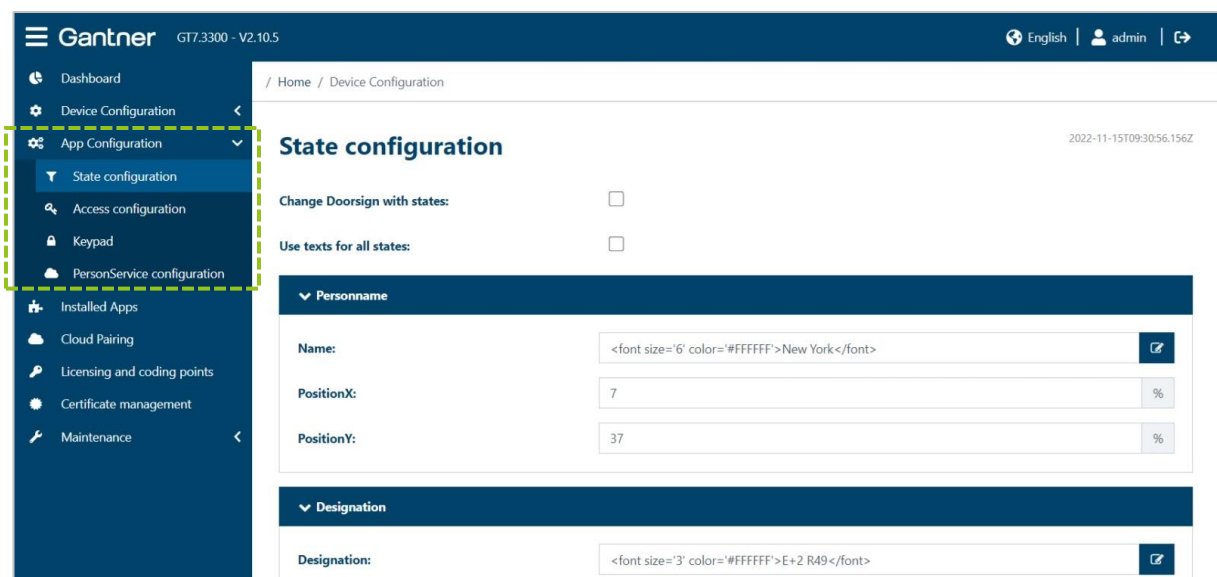


Figure 4.4 – App-specific configuration settings

4.2 State configuration

A state in the G7 Room Sign & Access app is an information screen that allows the GT7 terminal to function as a room sign in order to inform persons outside of the room of a specific message. Up to four different messages with differing priority levels can be configured for each state.

The color, the display text, and a voice message (sound file) for each state can be freely defined thus allowing the occupant of the room to indicate that, e.g., they do not want to be disturbed, that the next person can enter the room, that the room needs to be managed, or to request a coffee.



Figure 4.5 – Example room sign display

- Configure the following settings on the “App Configuration” -> “State configuration” page.

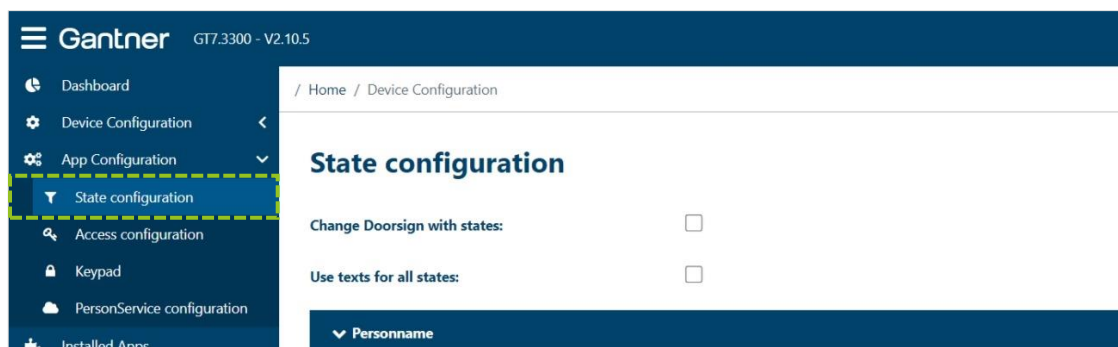


Figure 4.6 – G7 Room Sign & Access – State configuration page

- Change door sign with states: The display of room name, room function, and room number is usually in the same position for each state. For each status message, a background image can be defined, a color for the status bar and the status text can be configured, and a text can be assigned.
If this option is enabled, the room name, room function, and room number as well as the positioning of this information can be defined depending on the state.
- Use texts for all states: This option is only displayed when the previous option (change door sign with states) is disabled. If this option is enabled and the configuration is saved, the room/person name, function, and room number are set the same for all states and the setting is reset.

- In the “Person name”, “Designation”, and “Room name” sections, you can define the text, text size, text color, and the position of the texts displayed on the screen. The default configuration is displayed as follows:

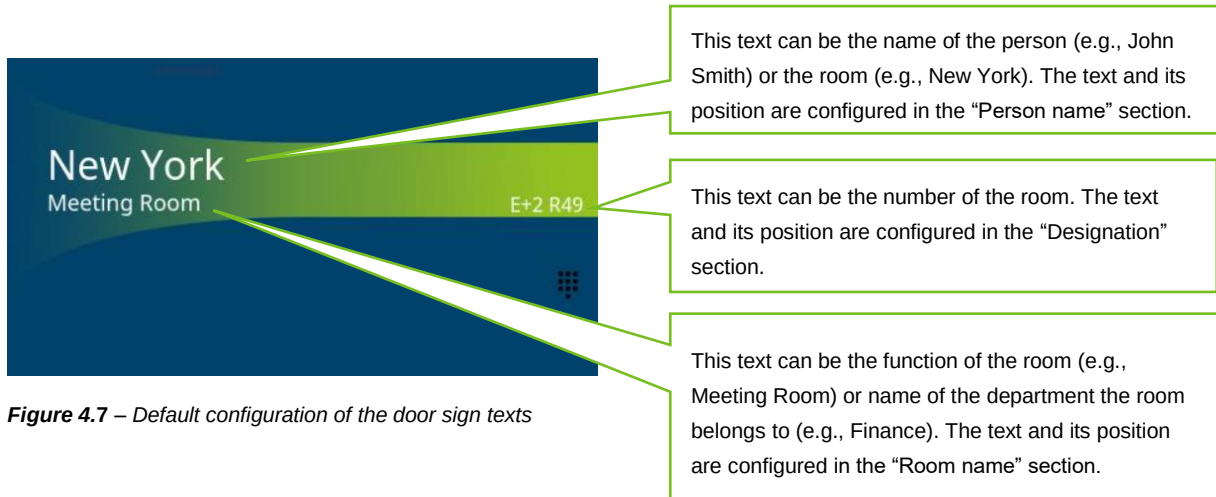


Figure 4.7 – Default configuration of the door sign texts

Personname	
Name:	New York
PositionX:	7 %
PositionY:	37 %

Designation	
Designation:	E+2 R49
PositionX:	85 %
PositionY:	51 %

Roomname	
Name:	Meeting Room
PositionX:	7 %
PositionY:	51 %

Figure 4.8 – G7 Room Sign & Access – Room sign configuration

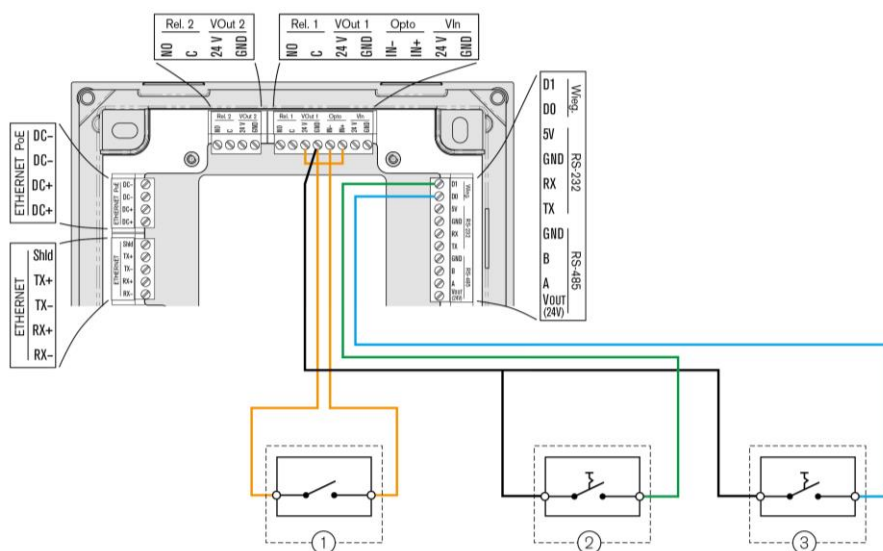
4.2.1 Configuration of GT7 inputs

Four states (or status messages) can be configured for the GT7 terminal. The currently active state depends upon the wiring of the digital inputs of the GT7 terminal, i.e., which digital input is active. State 1 has the highest priority, state 4 the lowest.

- State 1 = Input 1 active
- State 2 = Input 1 not active, input 2 active
- State 3 = Input 1 and 2 not active, input 3 active
- State 4 = No input active

An example of the wiring of the GT7 digital inputs is as follows:

Note! Refer to the GT7 manual for all electrical connections.



- 1 Switch for State 1
- 2 Switch for State 2
- 3 Switch for State 3

Figure 4.9 – Example wiring of the GT7 digital inputs

i You can either wire the inputs to the GT7 (e.g., via a switch on the desk) or you can also use a wireless button on the desk and a suitable receiver connected to the GT7 to avoid having to install wiring through the room.

- For each state you can define the message text and text color, set a color for the state, and add a sound file that will play when the state is activated (see “4.2.3 Sound files” for information).

Figure 4.10 – G7 Room Sign & Access – State configuration

4.2.2 Background files

Background files can be loaded onto the GT7 terminal via the “Themes” page in G7 Connect (see the G7 Connect manual for further information). The available images are as follows.

- background_state1.jpg
- background_state2.jpg
- background_state3.jpg
- background_state4.jpg
- background_pinpadscreen.jpg
- background_acceptscreen.jpg
- background_denyscreen.jpg

One background image can be defined per state. In the G7 Room Sign & Access app however, the same background image can be set for all status messages (similar to many other G7 applications).

4.2.3 Sound files

Sound files can be loaded onto the GT7 terminal via the “Themes” page in G7 Connect (see the G7 Connect manual for further information). The default sound and message files are listed below.

Sound	File name	Message	File name
Alarm on	Alarm on.ogg	Please serve a coffee	coffee.ogg
Alarm off	Alarm off.ogg	Please enter	enter.ogg
Card lost	Card lost.ogg	Please do not disturb	notdisturb.ogg
Deny	deny.ogg	The next please	thenext.ogg
Key beep	Key beep.ogg		
Grant	grant.ogg		
Start	start.ogg		

Figure 4.11 – Table of default sound files

You can also create your own sound files by recording or generating them. The files must be converted to the OGG audio format and saved in the correct folder on the device.

i The default sound files (.ogg) are located in the app theme folder under “assets” > “sound”. You can click on the desired file in this folder to play the sound via your default media player.

- Enter the sound file into the “Sound file” field of the respective state.

NOTE! The exact file name (observe the correct uppercase/lowercase letters) must be entered!

4.3 Access configuration

The settings available on the “App Configuration” -> “Access configuration” page are used to define the texts and layout of the access functions in the G7 Room Sign & Access app.

The screenshot shows the 'Access configuration' page in the Gantner G7.3300 - V2.12.0 app. The left sidebar contains a navigation menu with the following items: Dashboard, Device Configuration, App Configuration (selected), State configuration, Access configuration (highlighted with a yellow dashed box), Keypad, PersonService configuration, Installed Apps, Cloud Pairing, Licensing and coding points, Certificate management, and Maintenance. The main content area is titled 'Access configuration' and includes a timestamp '2022-11-15T13:55:28.074Z'. The settings are organized into several rows, each with a label and a text input field with an edit icon:

- Access notification:** Access accept!
- Access deny notification:** Access deny!
- Alarm activated:** Alarm turned On!
- Alarm deactivated:** Alarm turned Off!
- Activate alarm:** Your DataCarrier please to activate the alarm
- Deactivate alarm:** Your DataCarrier please to deactivate the alarm
- Alarm already ON:** Alarm already On!
- Alarm already OFF:** Alarm already Off!
- Alarm active access deny:** No entry Alarm is activated
- Notification time:** 5 s

Figure 4.12 – G7 Room Sign & Access – Access configuration

The following texts for access notifications can be configured:

- Access notification / Access deny notification:
Define the text displayed on the screen to inform the user when access has been granted (access notification) or denied (access deny notification).
- Alarm activated / Alarm deactivated:
Define the text displayed on the screen to inform the user that the alarm system has been enabled (alarm activated) or disabled (alarm deactivated).
- Activate alarm / Deactivate alarm:
Define the text displayed on the screen that instructs the user to read their data carrier in order to enable (activate alarm) or disable (deactivate alarm) the alarm system.
- Alarm already ON / Alarm already OFF:
Define the text displayed on the screen to inform the user that the alarm system is already enabled (Alarm already ON) or already disabled (Alarm already OFF).
- Alarm active access deny:
Define the text displayed on the screen to inform the user that their access request has been denied because the alarm system is currently enabled.
- Notification time:
This setting determines the time (in seconds) that the notification screen (as defined in the previous settings) is displayed for.

After identification, it is possible to display the data of the user. The name of the person is displayed from the personnel master of the GAT DC 7200. If a photo of the person is also to be displayed, the installation of a person service in connection with GAT Matrix is required. Please note that this function is currently under development and will be available at a later date. See chapter “4.5 Person-service configuration” for more information.

At the bottom of the page under “Person details”, the following settings are available to configure the design of the access notification.

The screenshot shows the 'Person details' configuration section of the G7 Room Sign & Access App. It is divided into four sub-sections: 'Picture', 'personinfo', 'personname', and 'Access-Notification'. Each sub-section contains various input fields for configuring the display of user information.

Section	Field	Value	Unit
Picture	Picture size:	100	%
	PositionX:	Right	
	PositionY:	Center	
personinfo	Textboxwidth:	50	%
	Textboxheight:	50	%
	PositionX:	0	%
	PositionY:	40	%
	Textcolor:	Black	
	textsize:	16	px
personname	PositionX:	0	%
	PositionY:	40	%
	Textcolor:	White	
	textsize:	24	px
Access-Notification	PositionX:	50	%
	PositionY:	15	%

At the bottom of the configuration panel, there are three buttons: 'Save' (green), 'Discard' (grey), and 'Default' (grey).

Figure 4.13 – G7 Room Sign & Access – Access configuration

- Under “Picture” you can define the size and position of the user’s photo as displayed on the screen.
- Under “person info” the layout and position of the user information box can be defined.
NOTE! This additional information is located in the GAT Matrix database in the “Person” table in the “Info” column.
- Under “person name”, the position, color and text size of the user’s name is set.
- Under “Access notification” you can define the position of the access message displayed on the screen.
- Click on “Save” to finalize the settings.

4.4 Keypad

On the “Keypad” settings page of the “App Configuration” menu, the keypad function can be enabled for the G7 Room Sign & Access app. This allows the user to enter their personnel number or PIN, e.g., in order to gain access or activate the alarm system.

Figure 4.14 – G7 Room Sign & Access – Keypad settings

- Use keypad:

Enable this option to use the keypad function. The user can then enter their ID number or PIN on the touchscreen. After enabling this option, a keypad icon is displayed on the start screen that must be pressed to display the keypad:



The following settings can be configured for the keypad:

- Show PIN in clear text: When this option is enabled, the alphanumeric values entered by the user are displayed on the screen. If the option is not enabled, a star symbol (*) is displayed instead of the number thus preventing the PIN from being visible to other users.
- Minimum PIN length: Define the minimum length of the PIN here.
- Maximum PIN length: Define the maximum length of the PIN here.
- Input timeout: The PIN entry screen will reset to the idle screen if there is no input by the user before the time entered here (in seconds) expires.

The sound settings for keypad input can be modified as follows:

- Sound file: Enter the desired sound file name here. See "4.2.3 Sound files" for a list of the default sound files (.ogg) included in the G7 Room Sign & Access app.
NOTE! If the sound volume of the terminal is set to 0, no sound will be heard. This setting is found in the GT7 web interface under "Device Configuration" -> "Device" - > "Sound Volume".
- Silent sound: If this option is enabled, no sound is generated after the user presses a keypad button.

The texts displayed on the personnel number and PIN entry screens can be defined via the following settings:

- Entry of the personnel number: Enter the desired text that instructs the user to enter their personnel number or ID number here.
- PIN entry: Enter the desired text that instructs the user to enter their PIN here.

4.5 Person-service configuration

i The article “GT7 Room Sign & Access Person Service” (Part No. 1108066) is required to use the person-service function. This function is currently under development and will be available at a later date.

The person-service allows images and information from a database server to be displayed on the GT7 touchscreen during an access booking. For example, the photo and name of the user can be displayed when the user reads their data carrier in order to gain access to the room. The positioning and size of the photo and text can also be configured via the “Access configuration” page (see “4.3 Access configuration”).

For the person-service function, the database server of GAT Matrix can be used for systems that use GAT Matrix, or a third-party software solution can be used. On the “PersonService configuration” page of the “App Configuration” menu, the connection to the respective server is defined.

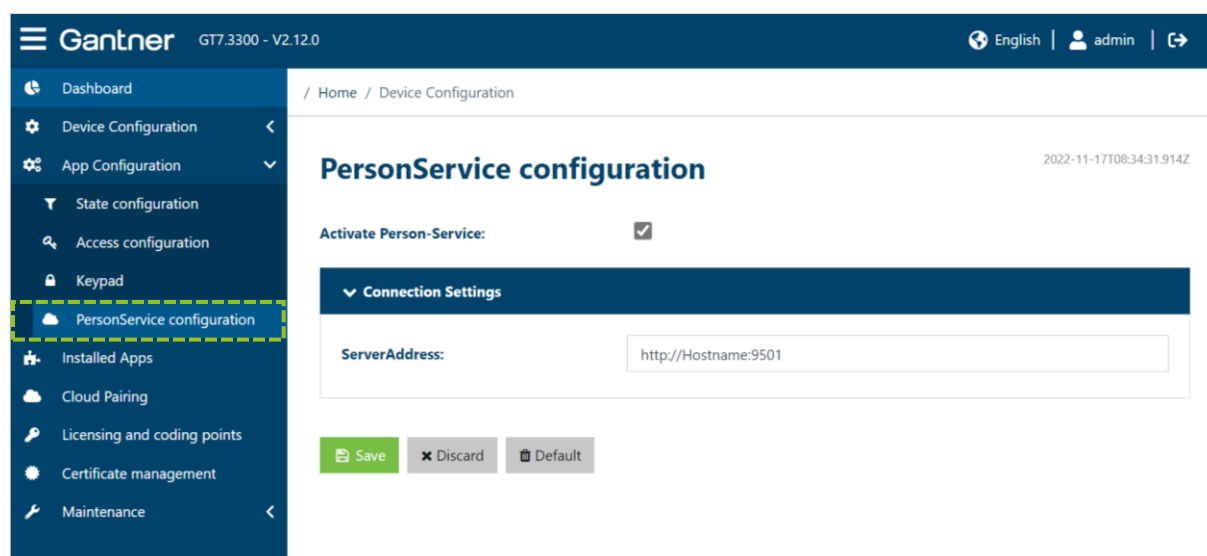


Figure 4.15 – G7 Room Sign & Access – Person-service configuration

- Activate Person-Service: Enable this option to activate the person-service function.
- Connection Settings: Enter the IP address/name of the database server where the server is running into the “Server Address” field.

5 OPERATION

5.1 Target group

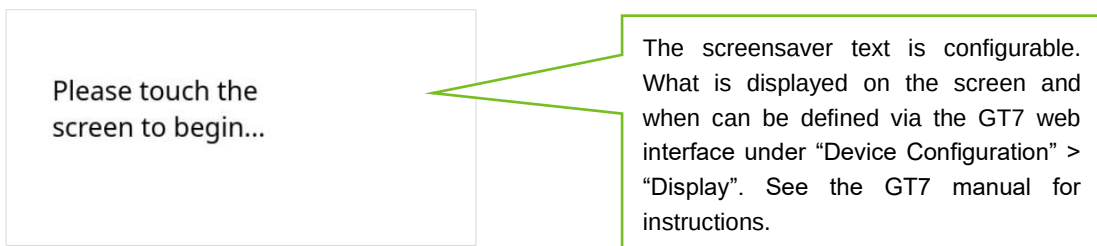
This chapter is intended for the system administrator, personnel, and end users of the organization where the GT7 terminal with G7 Room Sign & Access app is operating.

5.2 Operation of the G7 Room Sign & Access App

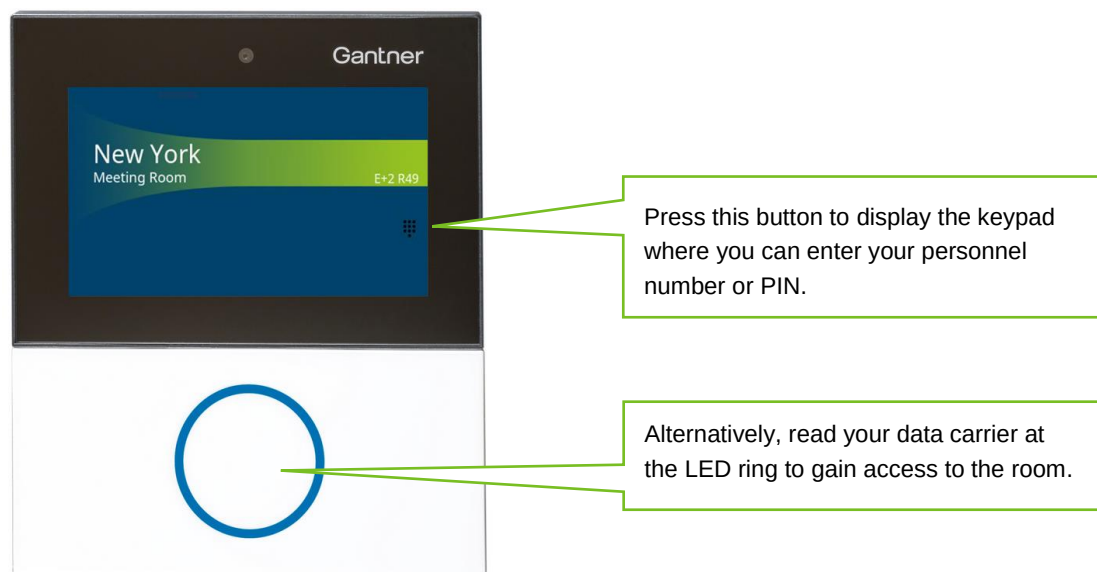
The operation of the G7 Room Sign & Access App is intuitive as the user is guided through the various options via the GT7 touchscreen. The following instructions provide an overview of how to operate the app and the process can be configured via the settings (see "4 APP CONFIGURATION") to suit different requirements.

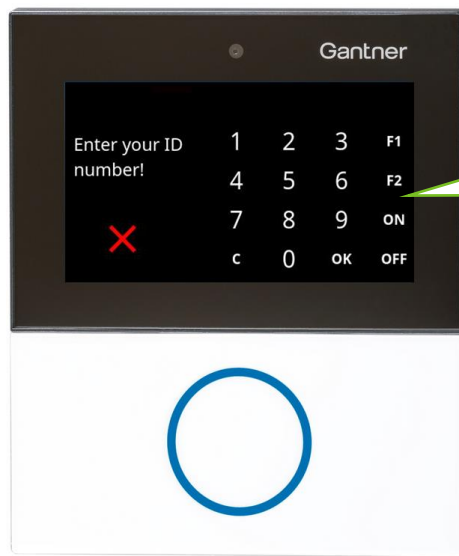
5.2.1 Operation for Room Access

- To begin operation, touch the display of the GT7 terminal.



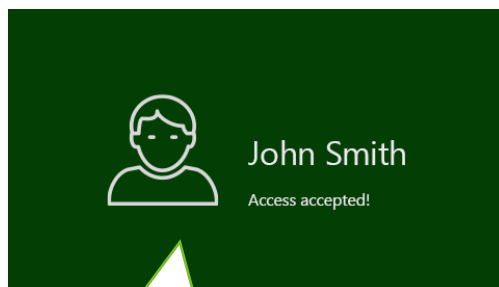
- If the "Use keypad" option is enabled in the keypad settings (see "4.4 Keypad"), the following screen is displayed.



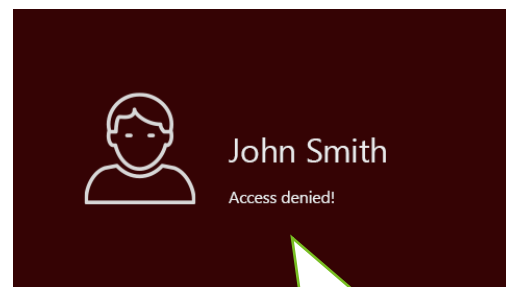


Enter your ID number or PIN here if required, and then press "OK".
The keypad can be configured to emit a sound or not when a button is pressed (see "4.4 Keypad").

- After identification via data carrier or PIN code, the access authorization is checked, and access is granted or denied.



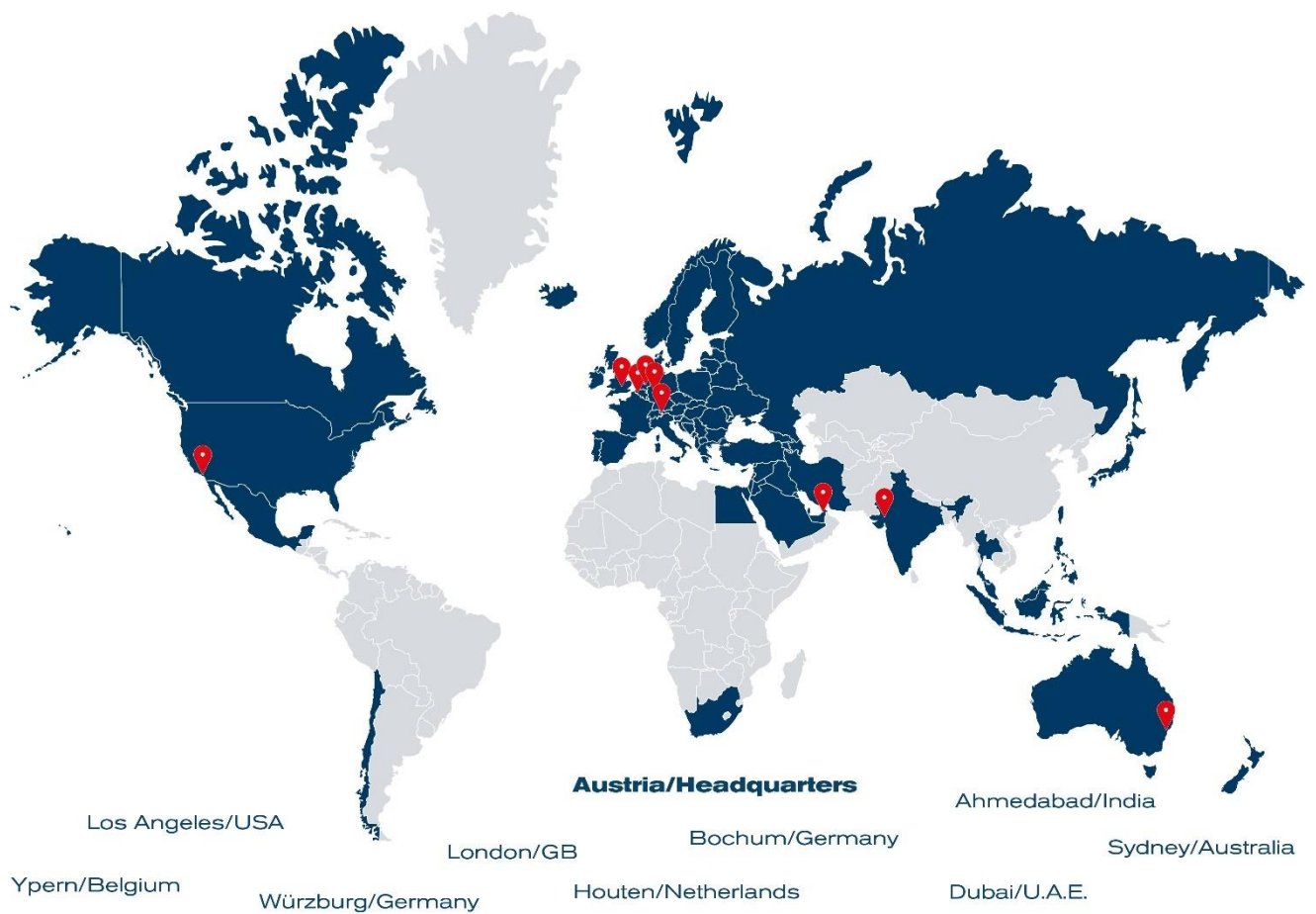
The display of the user's photo and name when they read their data carrier is optional (see "4.5 Person-service configuration").



The position, size, text color, etc., of the elements shown on these screens can be configured on the "4.3 Access configuration" settings page.

NOTE:

This manual is valid as of 10th January 2023. It is subject to change.
Amendments can be made without prior notice at any time!
Information in this manual refers to version 1.0.0 of the G7 Room Sign & Access app.



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