

GAT ACE 7000 APB

User Interface for Anti-Pass-Back and Pool Management in GAT ACE 7000

 Violations  Area Configuration Settings  system  Gantner						
Persons Antipassback Areas Double Booking Areas						
Persons Live View   ACE connected						
Filter						
Person	Area	Entry Door	Entry Date	Operation Mode	Validity	Reset Person
Kirchschläger A.	Main Building	R&D Eintritt	2021-09-23 13:22:50	Normal	 Validity ensured	Reset Person
Kirchschläger A.	Parking Garage	R&D Eintritt	2021-09-23 13:21:06	Double Booking Zone	 Validity unsure	Reset Person
Items per page: 20 1 – 2 of 2 < < > >						

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Contact

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1 INTRODUCTION

1.1 About this Manual

Chapter "1. INTRODUCTION" provides an overview of the information and instructions contained in this manual. In addition, the formatting used throughout is described and information regarding further inquiries is available.

Chapter "2. GENERAL INFORMATION" describes the main functions of the GAT ACE 7000 APB software and the terms frequently used in this manual.

Chapter "3. INSTALLATION" describes the system requirements (hardware and software) for operating the GAT ACE 7000 APB software, and in detail, the installation of GAT ACE 7000 APB and the other necessary components such as the Internet Information Server (IIS).

Chapter "4. OPERATION" describes the application and user interface of GAT ACE 7000 APB and how you can use the display and operating functions within a web browser.

1.2 Formatting

For displaying important, function-critical information the following formatting (with sample text) is used in this manual. These instructions must be read and followed.

NOTE! This signal word is used to indicate important information, relating to the current topic, which must be read and followed.



The text next to this symbol contains interesting information relating to the current topic. The information will help you better understand the description in this section or provide interesting tips for using the software.

Action steps, which are to be complete by the reader, and the results of these actions are formatted as follows.

- ▶ This symbol represents an action or instruction that you must follow.
 - This symbol represents the result after executing the previous action.

1.3 Contact & Enquiries

If you have any questions concerning the GAT ACE 7000 APB and GAT ACE 7000 software, or with any of the associated hardware and software products from GANTNER, please get in touch with your local distributor or contact one of the GANTNER branch offices. The contact details are listed on the cover of this manual.

2 GENERAL INFORMATION

2.1 General Information

The software application "GAT ACE 7000 APB" provides clear status visualization and control of the presence of persons in an access control system. By defining so-called anti-pass-back (APB) areas, unauthorized access through data carrier sharing (= multiple entries) can be prevented. Using pool management, the maximum number of persons allowed in an area can be controlled by freely definable person groups.

The GAT ACE 7000 APB application is installed onto computers that run a Microsoft Windows® operating system (see "2.2.2 Supported operating systems") and operates as a Microsoft Windows Service. The GAT ACE 7000 APB user interface is accessed using an Internet browser such as Microsoft Edge or Google Chrome.

Accessing GAT ACE 7000 APB requires the user to log in. After logging in with username and password, the persons who are currently in the access systems are listed and you can see which anti-pass-back area they are currently in.

The user management and operation via web browser allows the GAT ACE 7000 APB software to be shared across multiple workstations. The GAT ACE 7000 APB server only is installed on a central computer with each workstation able to access it via a web browser.

In addition to GAT ACE 7000 APB, GAT ACE 7000 and GAT Matrix software are also required to configure the access control system and communicate with the devices in the facility.

2.1.1 System Overview

GAT ACE 7000 APB is one component of an access control system with GAT ACE 7000 software and an access authorization software such as GAT Matrix. The following figure shows the basic structure of the system. The web modules are included in this diagram in GAT ACE 7000 APB.



This manual describes the installation and operation of the GAT ACE 7000 APB components (dark gray). Separate manuals are available for the GAT ACE 7000 and GAT Matrix software as well as for the hardware such as readers and access controllers.

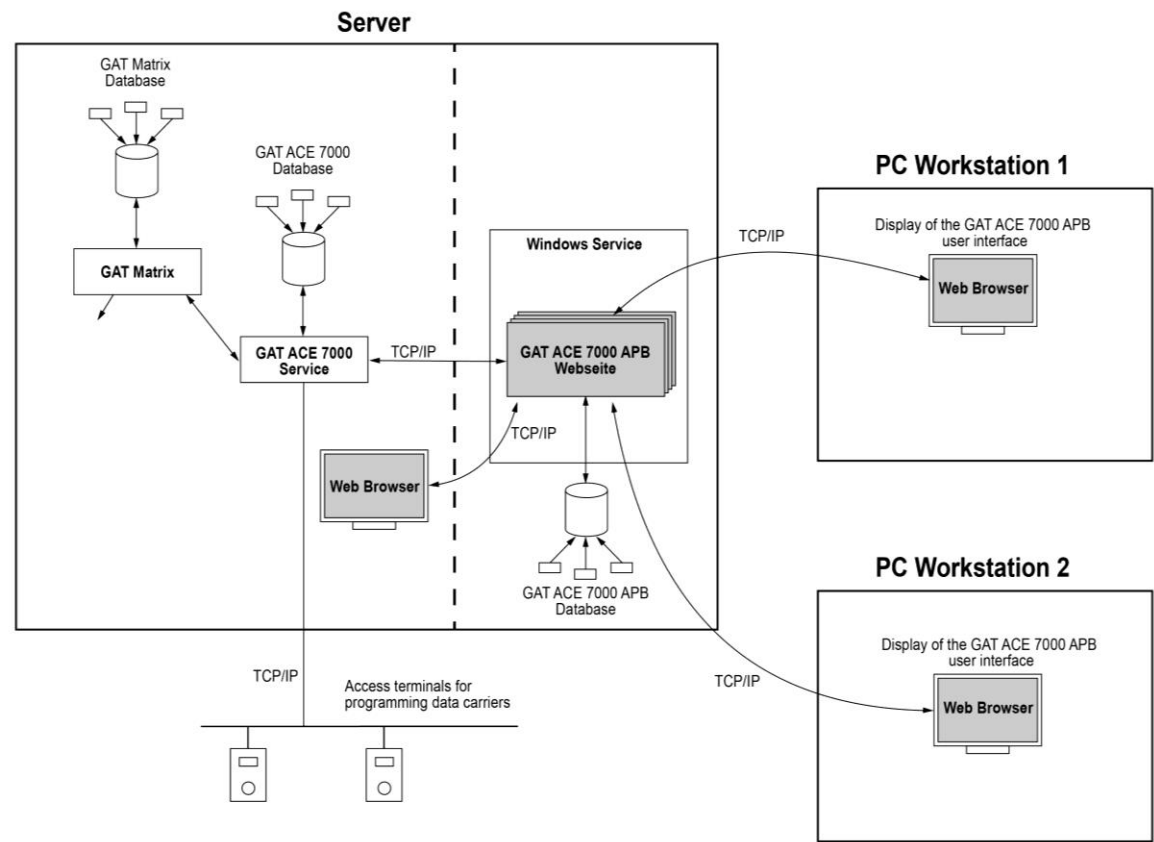


Figure 2.1 – Access control system with GAT ACE 7000 APB, GAT ACE 7000, and GAT Matrix

2.2 Functional Description

For the anti-pass-back solution (henceforth abbreviated as “APB”), so-called APB areas must be defined to which the entry and exit are controlled. Areas can be nested inside one another and have multiple entries and exits. Depending on the configuration of the doors, it is possible for one person to be present in several areas simultaneously. However, it is also possible to configure the areas so that a person can only be present in one area.

2.2.1 APB Areas

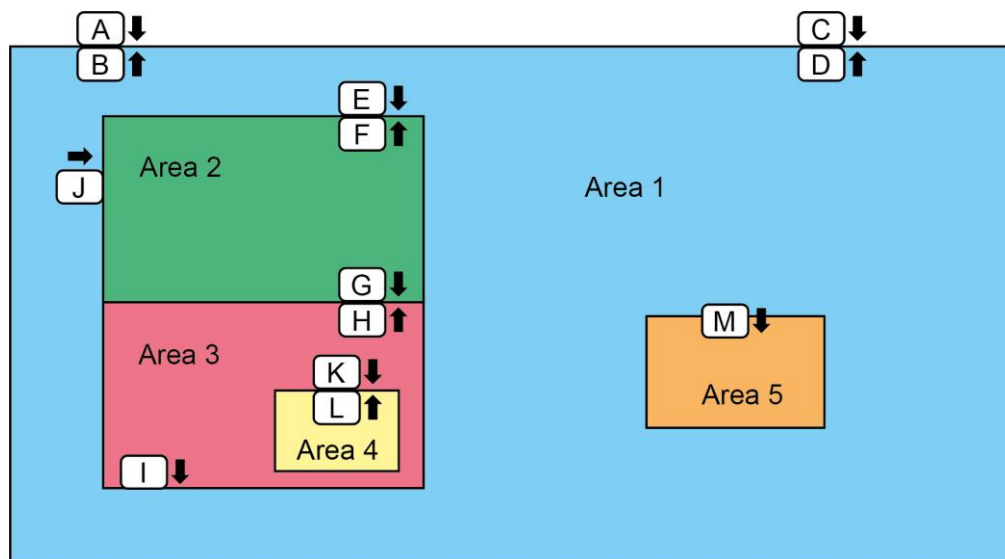


Figure 2.1 – Example of APB Areas

In Figure 2.1, **Area 1** can be entered through doors **A** and **C** and can be exited through doors **B** and **D**. This represents the facility premises for example.

Areas 2 to 4 are nested areas representing, e.g., different departments. Entering **Area 2** means leaving **Area 1** and doors **E** and **J** are defined as exit doors for **Area 1** accordingly.

Entry to **Area 2** is via doors **E**, **J**, and **H**, and exit is via doors **F** and **G**. The number of entry and exit doors in an area need not always be the same.

Entry to **Area 3** is via doors **G** and **L**, and exit is via doors **H**, **I**, and **K**. If a person is in **Area 3**, the use of door **H** places the person in **Area 2**, the use of door **K** in **Area 4**, and the use of the door **I** removes the person from **Area 3**. The presence of the person in **Area 1** therefore does not change since door **I** is not configured for **Area 1**.

Entry to **Area 4** is via door **K**, and exit is via door **L**. Since the doors are also used in **Area 3**, the person is present in either **Area 3** or **Area 4** (or neither) but never in **Area 3** and **4** simultaneously.

Area 5 could be a meeting place in case of an evacuation. Presence in this area is controlled by door **M**. Individuals may identify themselves at the **M** reader to indicate that they are safe and no longer in any of the vulnerable **Areas 1 - 4**. For this reason, a door (door **M** in this instance) can be configured as an exit point for multiple areas. Typically, a door is defined for only one or at most two areas (entry into one area and exit from the other area); however, in this instance for several areas.

For areas such as **Area 5**, the APB check is generally activated at door **M**, but the APB check is set to inactive via the special authorizations of the persons. Persons can thereby report themselves as “safe”, even if an APB infringement exists.

Such evacuation points are usually configured only with entry into the area (here **Area 5**), which means that after using door **M** a manual reset of the APB status of the area must be made.

In GAT Matrix, it is possible to activate or deactivate the APB function each person individually in the special authorization. In addition, you can configure the system so that only a logging and warning occurs, but entry is still allowed.



For controlling the presence status of persons, the employee ID is used instead of the data carrier number. This means that a person who owns two valid data carriers cannot pass on any of the data carriers after entry, as entry using data carrier 1 will also block data carrier 2 until the next exit.

2.2.2 Pool Management

The Pool Management function controls how many persons in a person group may be in an APB or double-booking area at the same time. One or several groups of persons (pools) can be assigned to an area. If no pool is assigned, Pool Management is not active in the area. Information on how to assign pools to areas is described in section “4.5.1 Assigning Pools to an Area”.

Pool Management is intended for, e.g., controlling access to a parking lot in which only a certain number of parking spaces are reserved for different person groups, e.g., individual companies that share the parking lot. When the maximum defined number of persons in the parking lot has been reached and another person from this group attempts to enter, access is denied, and the person must wait until another person from their group exits the parking lot.

The pools are created in the GAT Matrix software. To do this, select the “Pool Groups” option in the “Tools” menu in GAT Matrix. The “Pool Groups” window is displayed.

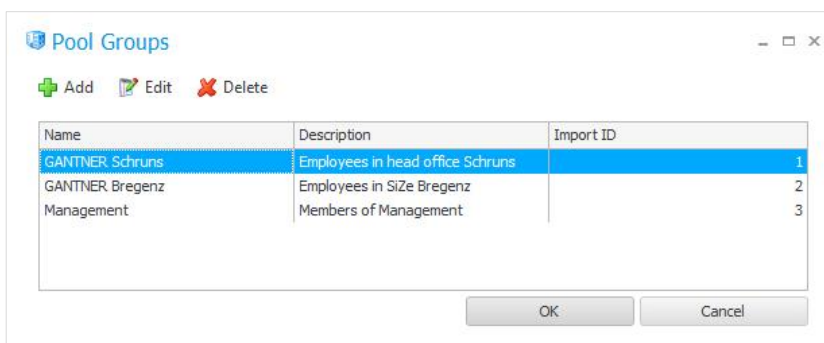


Figure 2.2 – Defining pool groups in GAT Matrix

Here, you can edit the existing pool groups and add new pool groups.

In the person's master data, the desired pool group can then be selected and assigned to the person. The master data is displayed by double-clicking on a person in GAT Matrix.

Edit Person - [Smith D]

Master Data | Fingerprint | Optional fields

Person active ☒ Person status Normal permission

Person ID

Personnel number

Import reference

Title

First name Display name

Last name

PIN Code ☐ Use PIN code instead of FIU (only GAT ACE 3000)

Data Carriers

☒ 1 - LEGIC Prime

☒ 2 - LEGIC Advant

Pool Group

Pool Group

Name	Description
GANTNER Schruns	Employees in head office Schruns
GANTNER Bregenz Management	Employees in SiZe Bregenz Members of Management

Figure 2.3 – Assigning a person to a pool group

2.2.3 Limitations

Only online doors, i.e., doors equipped with a wired reader, can be used for the formation of APB areas. Doors operating in WiNET High Security Mode, WiNET Comfort Mode, CardNET Mode, or Read Only Mode cannot be used for the APB areas.

APB testing is only possible when all devices in an area are active. As soon as a device in the network is unreachable or deactivated, the check is set to inactive. The status of whether the area check is active or inactive must be clear to the user. The change of status must be documented in a user-friendly manner in the activity journal.

2.3 System Requirements

2.3.1 Hardware Requirements

- 50 MB for the GAT ACE 7000 APB website.
- Monitor (recommended: color monitor with HD resolution).
- Broadband network (min. 4/1 Mbit) for connecting to GAT ACE 7000 (if GAT ACE 7000 is installed on another server).
- Network connection to GAT ACE 7000 via TCP/IP.
- Network port between GAT ACE 7000 and the GAT ACE 7000 APB website. Default = 8704 (configurable).
- Network port to access the GAT ACE 7000 APB website. Default = 9500 (configurable).
- Please also note the additional system requirements for GAT ACE 7000 (see the GAT ACE 7000 installation manual).

2.3.2 Supported Operating Systems

The GAT ACE 7000 APB user interface can be accessed via an Internet browser on any operating system. Please also read "2.3.5. Web Browser" for the requirements of the supported Internet browsers.

The GAT ACE 7000 APB application operates as a Windows service and can be installed on the following Windows® operating systems:

- Microsoft® Windows® 10 - Pro and Enterprise Editions (32 and 64-bit)
- Microsoft® Windows® 8.1 - Pro and Enterprise Editions (32 and 64-bit)
- Microsoft® Windows® 8 - Pro and Enterprise Editions (32 and 64-bit)
- Microsoft® Windows Server® 2019 - Essentials, Standard, and Datacenter Editions (64-bit only)
- Microsoft® Windows Server® 2016 - Standard and Datacenter Editions (64-bit only)
- Microsoft® Windows Server® 2012 R2 - Essentials, Datacenter, and Foundation Editions (64-bit only)
- Microsoft® Windows Server® 2012 - Essentials, Datacenter, and Foundation Editions (64-bit only)

NOTE! Only the listed editions of the Windows versions are supported. Unlisted editions such as Home or RT are not supported.

NOTE! Please note that the GANTNER Support Team can only assist when GAT ACE 7000 APB is installed on a German or English version of Windows. In addition, support can only be given when the customer provides all access authorizations required by the Support Team (e.g., Windows Account under which GAT ACE 7000 APB is operating, access to the SQL database, etc.).

NOTE! The customer is responsible for providing any additional licenses required, e.g., for the operating system or database.

In a productive environment, snapshots are not supported in virtual machines as resetting leaves GAT ACE 7000 APB and the connected controllers in an inconsistent state.

2.3.3 GAT ACE 7000, GAT Matrix, GAT DC 7200

The following requirements apply for the associated hardware and software components.

- GAT ACE 7000: Software version min. V2.0.1
- GAT Matrix: Software version min. V4.5.3
- GAT DC 7200: Firmware version min. V3.1.0. The GAT DC 7200 also requires an anti-pass-back license to enable the APB function.

2.3.4 Microsoft .NET Core Hosting Bundle

GAT ACE 7000 APB requires the Microsoft .NET Core Hosting Bundle components for Windows Server Hosting. These components are included in the GAT ACE 7000 APB installation package and are installed as described in "3.1. Microsoft .NET Core Hosting Bundle".

2.3.5 Web Browser

The following web browsers are supported.

- Microsoft Internet Explorer
- Microsoft Edge
- Google Chrome
- Mozilla Firefox
- Safari

NOTE! Always use the latest version of the web browser to ensure optimum performance.

2.3.6 Antivirus Software and Firewall (Ports)

If antivirus software is used, it is important that the installation directories of GAT ACE 7000 APB are excluded from antivirus scans to prevent false detections. For standard installations, this is the following directory:

C:\Program Files (x86)\GAT\GAT ACE 7000 APB

By default, the following ports used for communication between GAT ACE 7000, the GAT ACE 7000 APB service, and the web browser must not be blocked by a firewall (or if the default ports have been changed, this applies to the new ports):

- 9500: Communication between the GAT ACE 7000 APB service and the web browser.
- 8704: Communication between GAT ACE 7000 APB and GAT ACE 7000.

In addition, observe the relevant information in the GAT ACE 7000 installation manual.

3 INSTALLATION

The installation of GAT ACE 7000 APB is completed as follows:

1. If not yet installed, the Microsoft .NET Core Hosting Bundle must be installed as the first step (see chapter “3.1 Microsoft .NET Core Hosting Bundle”).
2. Finally, the GAT ACE 7000 APB service is installed (see chapter “3.2 Installation of GAT ACE 7000 APB”).

When updating from GAT ACE 7000 APB version 1.x to 2.0, the following message is displayed informing that the application settings are now stored and configured in the “GAT ACE 7000 APB Configurator” tool.

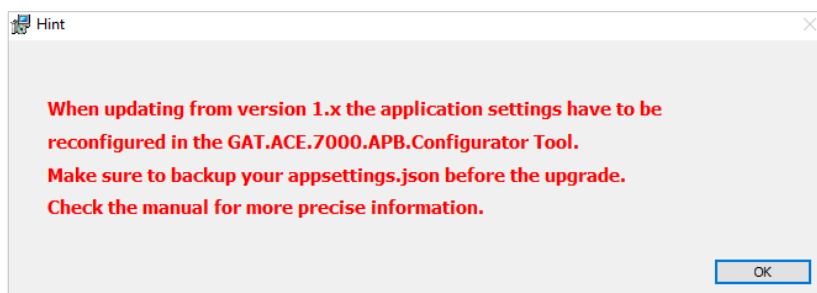


Figure 3.1 – Message when updating from version 1.x to 2.0

NOTE! Ensure to back up the appsettings.json file before starting the update. The default path for the appsettings.json file is:

C:\inetpub\wwwroot\APBWeb

3.1 Microsoft .NET Core Hosting Bundle

If the Microsoft .NET Core Hosting Bundle is not yet installed, the Microsoft .NET 5.0 Windows Desktop Runtime and Server Hosting Bundle displays a message asking whether you want to install this software. Complete the following steps.

- ▶ Start the “setup.exe” installation file contained in the GAT ACE 7000 APB installation package.
 - If the Microsoft .NET Core Hosting Bundle is not yet installed, the following window is displayed.

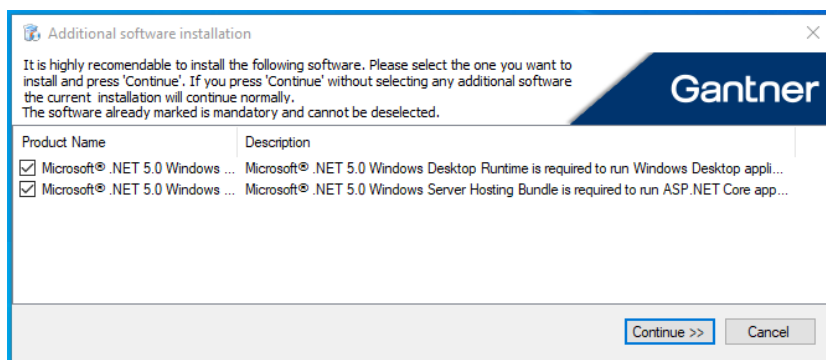


Figure 3.2 - Query whether the Microsoft .NET Core Hosting Bundle should be installed

- ▶ To install the Hosting Bundle, highlight the entry and click on "Continue >>".
 - The Setup Wizard begins installing the software and displays the progress in a status bar.
 - The Setup Wizard for installing GAT ACE 7000 APB opens (see following chapter).

3.2 Installation of GAT ACE 7000 APB

After the Microsoft .NET Core Hosting Bundle has been installed (see previous chapter), the GAT ACE 7000 APB application can be installed as follows.

- ▶ If the Setup Wizard is not already open, double-click on the "setup.exe" file in the installation package.
 - The Setup Wizard for GAT ACE 7000 APB opens.

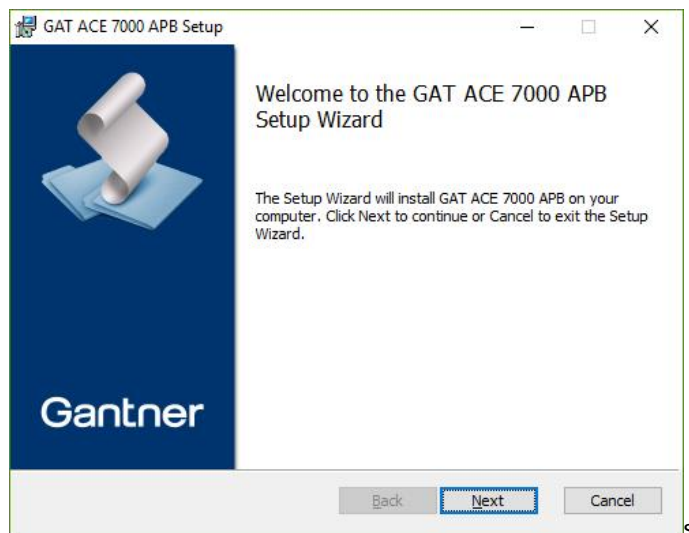


Figure 3.3 - GAT ACE 7000 APB Installation - Step 1

i The Setup Wizard is available in English only.

- ▶ Click on "Next".

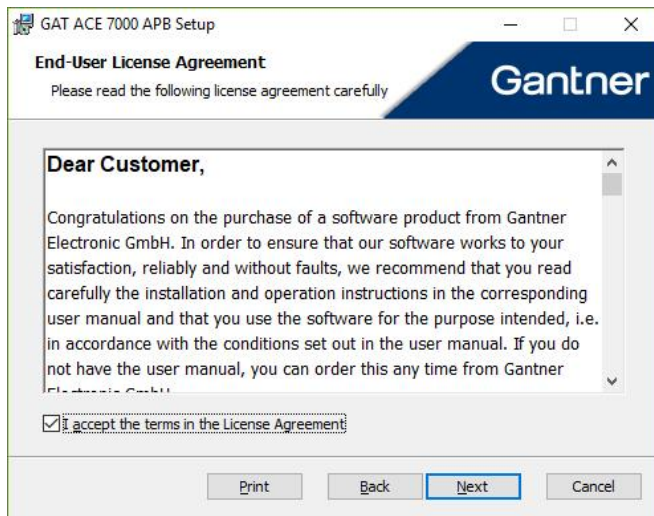


Figure 3.4 - GAT ACE 7000 APB Installation - Step 2

- ▶ Read the license information and then select “I accept the terms in the License Agreement” to accept the license information and continue.
- ▶ Click on “Next”.

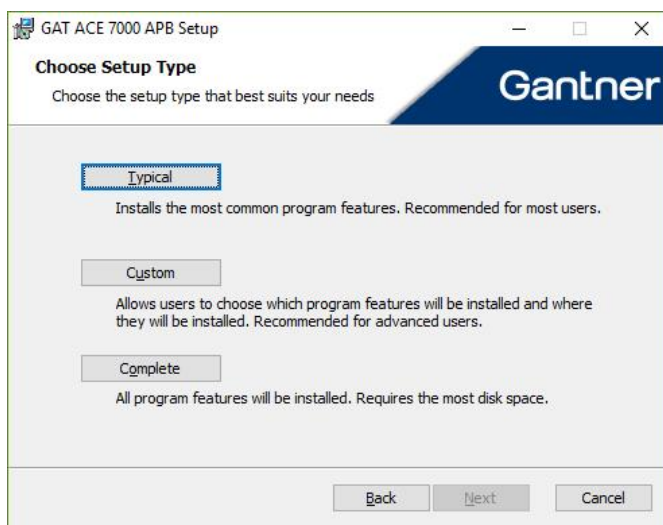


Figure 3.5 - GAT ACE 7000 APB Installation - Step 3

- ▶ Select the type of installation (default = “Typical”):
 - Typical: Installs GAT ACE 7000 APB (service and website) and the main program components. This is the default option for most users.
 - Custom: Allows to select which parts of GAT ACE 7000 APB should be installed and where these components should be installed. The following window is displayed. “GAT ACE 7000 APB Web UI” is the graphical user interface and “GAT ACE 7000 APB Server API” is the service.

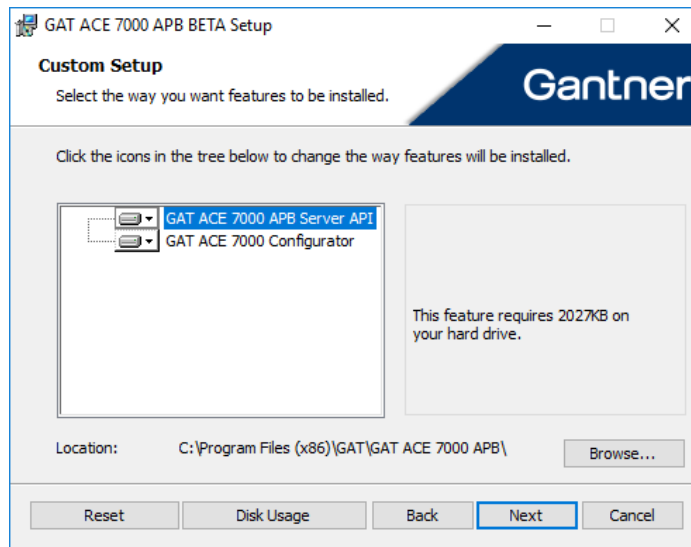
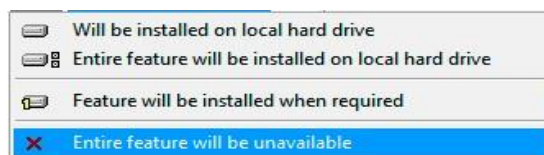


Figure 3.6 - GAT ACE 7000 APB Installation - Custom Setup

- ▶ Select the components to be installed (a white icon in front of a component means that it will be installed):
 - “GAT ACE 7000 APB Server API” is the Windows service.
 - “GAT ACE 7000 Configurator” is the database configuration tool.
- ▶ To change the installation status of a component, click on the icon in front of the respective component and select the desired action. For example, if you only want to install the service and not the database configuration tool, e.g., when the service is running on another server, select “Entire feature will be unavailable” for the “GAT ACE 7000 Configurator” component.



- ▶ Now select the directory in which GAT ACE 7000 APB is to be installed. If you do not want to use the suggested default directory, you can select another directory by clicking “Browse”. We recommend keeping the default directories.
- ▶ Finally, click on “Next”.

- Complete: This option installs all available components of GAT ACE 7000 APB. This option requires the most storage space.

After selecting the type of installation and completing the previous steps, the following window is displayed.

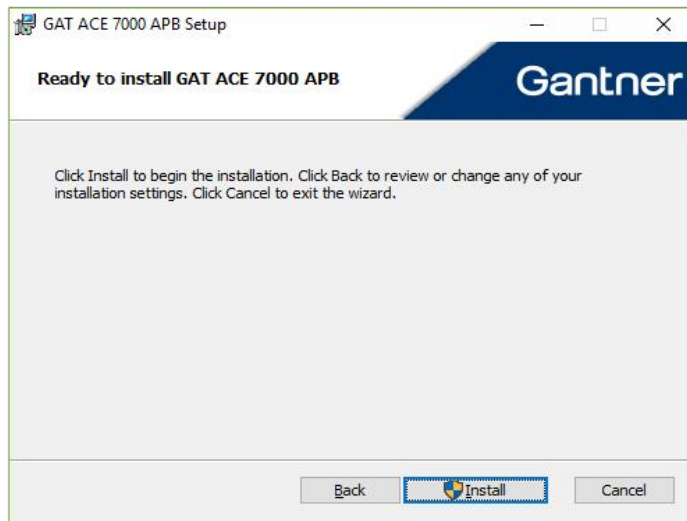


Figure 3.7 - GAT ACE 7000 APB Installation - Step 4

- ▶ Click “Install” and confirm the following authorization request with “OK”.
 - The installation process starts with the progress indicated by a green bar.

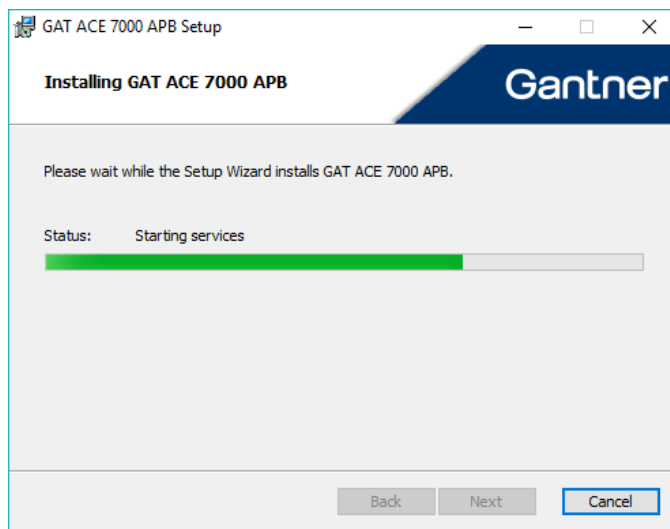


Figure 3.8 - GAT ACE 7000 APB Installation - Step 5

- When the installation is complete, this is indicated by means of a message window.

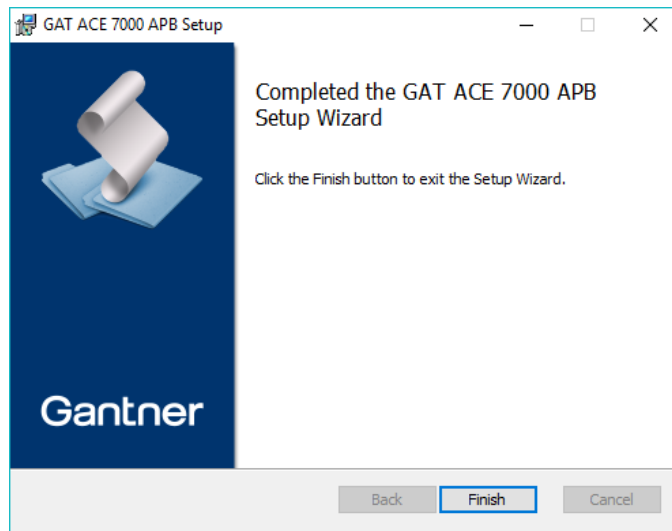


Figure 3.9 - GAT ACE 7000 APB Installation - Step 6

- ▶ After the installation is complete, click "Finish" to exit the Setup Wizard.
 - GAT ACE 7000 APB is now installed and ready for use.

3.3 Database Setup

After the installation has been completed, the connection to the SQL database for GAT ACE 7000 APB must be configured. To do this, a distinction must be made between whether a database already exists, e.g., if an older version 1.x of the GAT ACE 7000 APB was installed, or whether a new database must be created (for an initial installation of GAT ACE 7000 APB). Finally, the database connection is configured using the configurator. These processes are described in the following sections.

3.3.1 Using an Existing Database from GAT ACE 7000 APB Version 1.x

For previous versions (1.x), the settings for the database connection are stored in the file "appsettings.json". This file is located in the web directory of ACE 7000 APB (default path = C:\inetpub\wwwroot\APBWeb\appsettings.json) and can be opened with a text editor.

If a previous version of GAT ACE 7000 APB (version 1.x) was already installed, open the file "appsettings.json" and use the settings in this file as the database connection settings (see "3.3.3 Configuring the Database Connection Settings").

ATTENTION! The connection data is stored in plain text in the file appsettings.json in version 1.x. Therefore, delete this file for security reasons after the new version 2.x is installed and the connection to the SQL database is configured with the connection data. Version 2.x of the GAT ACE 7000 APB also stores the connection settings in the appsettings.json file in the program directory, but in encrypted form.

3.3.2 Creating a New Database for GAT ACE 7000 APB

If GAT ACE 7000 APB has not been installed yet or no database exists for GAT ACE 7000 APB, create a database as follows.

NOTE! An SQL database is required. You can use the free SQL Express database from Microsoft, which can be downloaded from the Microsoft website or, e.g., from the GANTNER Partner website via:
<https://www.gantner.com/de/downloads/sql-express-2016/>

However, it is recommended to use a full SQL database such as Microsoft® SQL® Server 2019. The download and the description for the installation can be found at <https://www.microsoft.com/sql-server/sql-server-downloads>. If you have any questions, please contact your system administrator.

- ▶ If an SQL Server has not been installed yet, install it first. The SQL Server Management Studio must also be installed.
- ▶ Open the Microsoft SQL Server Management Studio. You can do this by clicking on the Windows icon and searching for the software.
- ▶ Log in to the server.
- ▶ Right-click the "Databases" subfolder in the SQL Server and select "New Database..." from the menu.

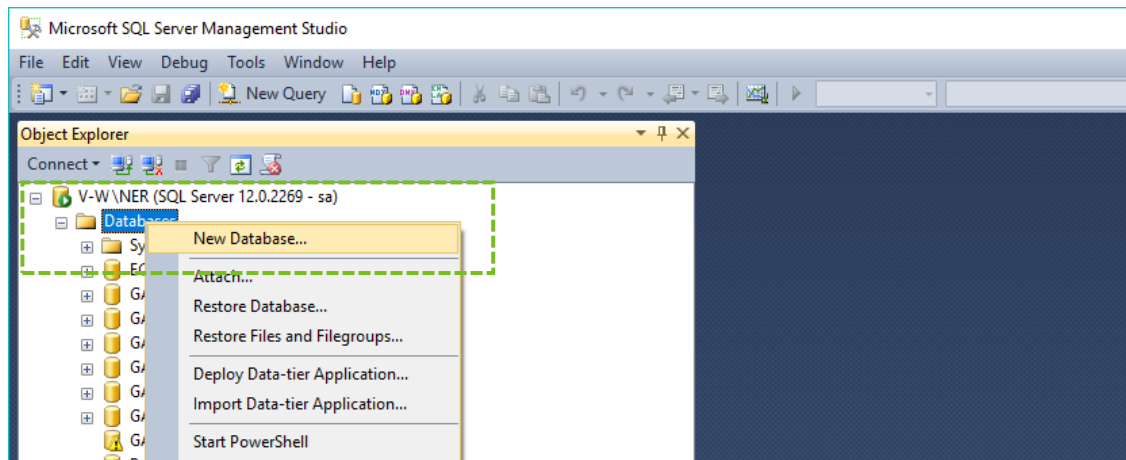


Figure 3.10 – New database creation

- The following window opens.

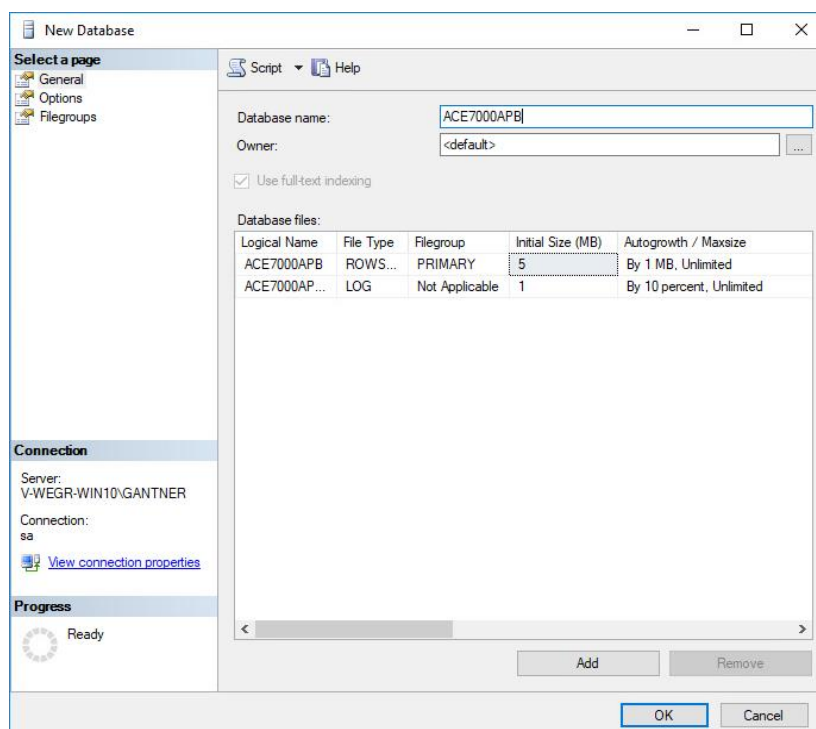


Figure 3.11 - Database details

- ▶ Enter the name of the database here (e.g., “ACE7000APB”) and click on “Add”.
 - The database is created (empty) and you return to the main window of the Management Studio.
- ▶ Now open the “Security” folder in the list on the left and then right-click on “Logins”. In the pop-up menu that opens, click on “New Login...”.

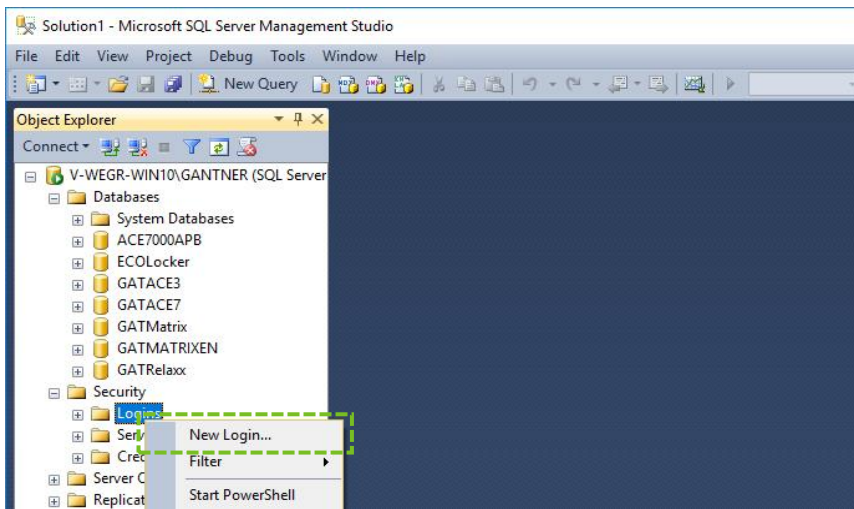


Figure 3.12 - New login creation

- o The following window opens.

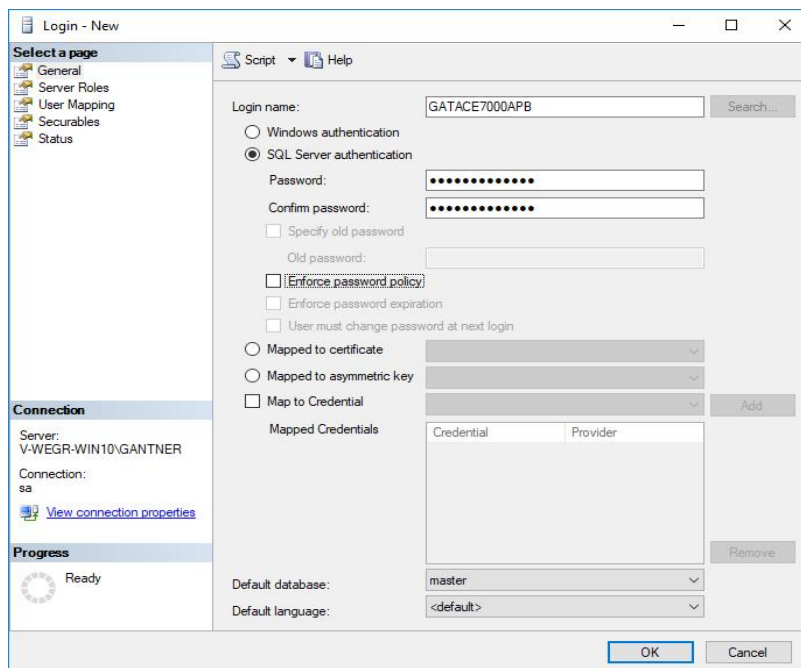


Figure 3.13 - New Login window

- In the "Login name" field, enter a name for logging in to the GAT ACE 7000 APB database.
- Both Windows Authentication and SQL Server Authentication are possible for identification. GANTNER recommends using "SQL Server authentication" with the settings configured as shown in Figure 3.13.
NOTE! Disable the "Enforce password policy", "Enforce password expiration", and "User must change password at next login" options.
- Click on "User Mapping" in the list to the left of the "New Login" window.
- Select the option field for the GAT ACE 7000 APB database (in the example "ACE7000APB"). This assigns the previously entered login name to this database.

- The database user must be assigned the "db_owner" role for the database. To do this, mark the line with ACE 7000 APB database and then select the "db_owner" option in the area below.

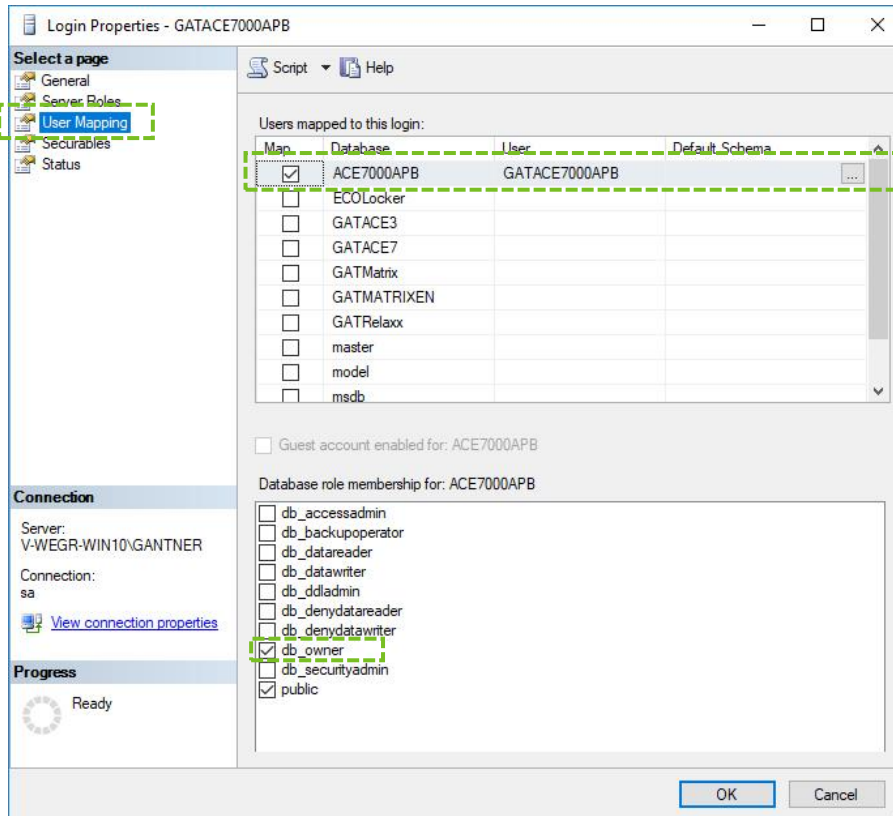


Figure 3.14 - Login Properties window

- Confirm with "OK".

3.3.3 Configuring the Database Connection Settings

A database is required for GAT ACE 7000 APB. If a previous version 1.x database is not available, install a database first (see “3.3.2 Creating a New Database for GAT ACE 7000 APB”) before configuring the database connection settings.

NOTE! If a version 1.x database has already been installed, you can read the database settings from the “appsettings.json” file in the “ConnectionStrings” section. The file is located in the website directory of ACE 7000 APB (default = C:\inetpub\wwwroot\APBWeb\appsettings.json).



Figure 3.15 - Server connection data in the “appsettings.json” file

ATTENTION! For security reasons, delete the file after the database connection has been configured correctly and keep the connection settings in a secure place.

Now complete the following steps:

- ▶ Via the Windows Start menu or the desktop icon, open the “GAT ACE 7000 APB Configurator” application.
 - The following window opens.

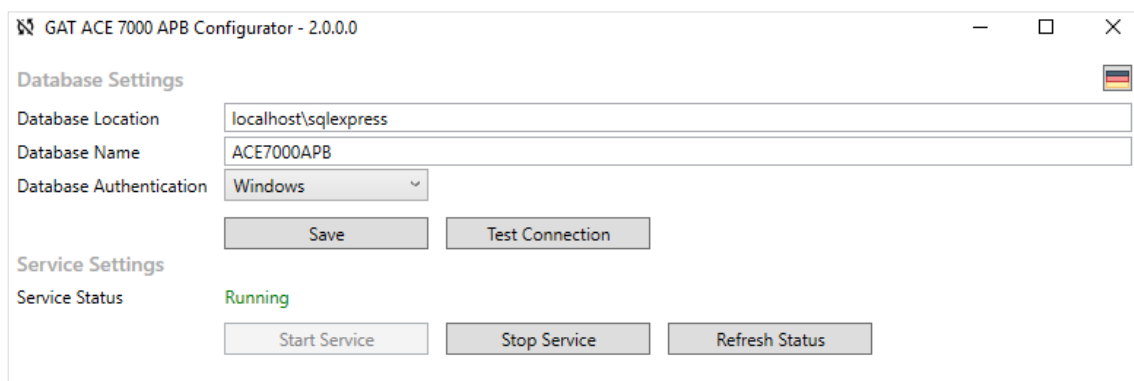


Figure 3.16 – Database tool “GAT ACE 7000 APB Configurator”

Database Settings

- ▶ In the “Database Location” field, enter the location of the database server, i.e., where the database is installed. Enter the network name or IP address of the PC/server followed by the name of the SQL server instance. When the database is installed on the same PC as GAT ACE 7000 APB, “.” can be used for the network name. After a default installation with local database, the name “. \Gantner” is predefined.
 - ▶ Enter the name of the database in the “Database Name” field (default = “ACE7000APB”).
 - ▶ Select the type of database authentication from the menu. Both Windows Authentication and SQL Server Authentication are possible. GANTNER recommends using the “User Password” option.
 - User Password: Select this option to connect to the database using the unique username and password defined for the SQL database.
 - Windows: This option allows the operator to connect to the database using the login details of their Windows user account.
- NOTE!** The Windows user under which the database is running must also have the rights to access the database.
- ▶ You can test the entered database details via the “Test Connection” button.
 - A corresponding message is displayed confirming whether or not a database connection could be established.
 - ▶ Finally, click on the “Save” button.
 - If not already present, the required entries are automatically created in the database after the service is restarted.

Service Settings

The buttons in this section allow you to start and stop the service, and to refresh the status. These tools can be helpful to assist with connection problems with the Windows service.

4 OPERATION

4.1 Logging In to GAT ACE 7000 APB

After installing GAT ACE 7000 APB, the user interface is directly accessible via any common Internet browser. The user interface can be opened via the PC/server on which GAT ACE 7000 APB has been installed, or on another device (PC, smartphone, etc.) in the network that has access to the installation server.

To work with GAT ACE 7000 APB, it is necessary to log in with username and password. For the users of the software, one user is defined in the GAT ACE 7000 APB and assigned to one of two authorization levels (administrator and user). This allows you to specify exactly which functions are available to individual users in GAT ACE 7000 APB.

- Click on the Windows desktop icon:



- Your default web browser with the login screen opens (see below).
- Alternatively, open a web browser, enter the URL “http://Server:9500” into the address bar, and confirm with “Enter”.

NOTE! For “Server”, enter the server or computer name or IP address of the server where the GAT ACE 7000 APB website is installed. If you are working on the same PC where the GAT ACE 7000 APB website is installed, enter “localhost” as the server name.

- The login screen of GAT ACE 7000 APB is displayed.

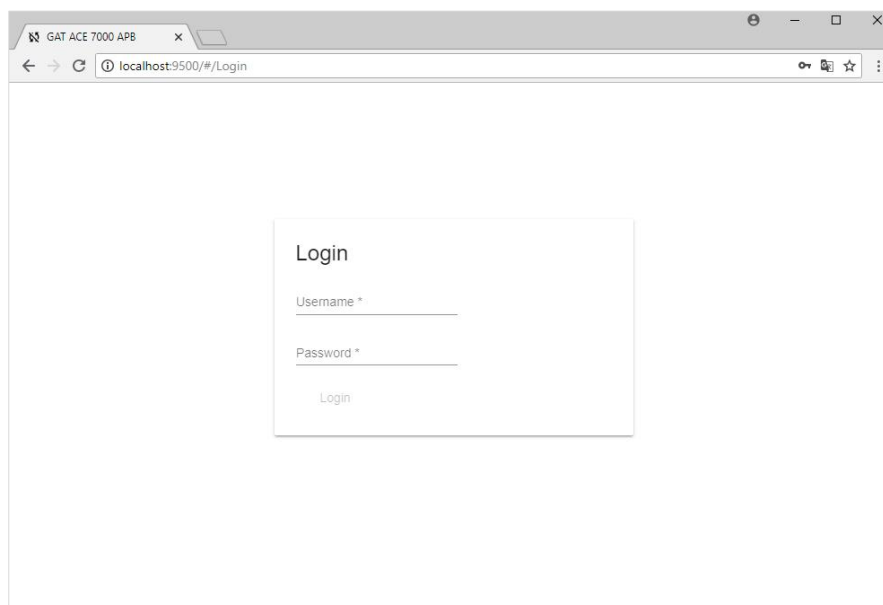


Figure 4.17 – Login window of GAT ACE 7000 APB

- ▶ Enter your username into the “Username” field.
- ▶ Enter your password into the “Password” field.

NOTE! You can find the password of the default system users in chapter “4.8 User Management”. Note that the password input is case-sensitive. This is checked by GAT ACE 7000 APB.

NOTE! If the “Active Directory” function is activated in the server configuration (see “4.6. Server Configuration”), users can also log in using their Windows Active Directory username and password.

CAUTION! After logging in for the first time, change the password of the system user to a secure password and keep it in a safe place. After logging in, you can change the password via the “Change password” menu item in your user menu.

- ▶ Press “Login”.
 - You are now logged into GAT ACE 7000 APB and the main window of the web page is displayed.

NOTE! Upon delivery of GAT ACE 7000 APB, one default user (SYSTEM) with the password “GAT” is predefined. For security reasons, change the default password of this user to a secure password after the initial login.

4.2 GAT ACE 7000 APB User Interface

After logging in with your username and password, the main screen is displayed where all persons currently identified in the access system are listed. The main menu is displayed in the upper dark-blue area.

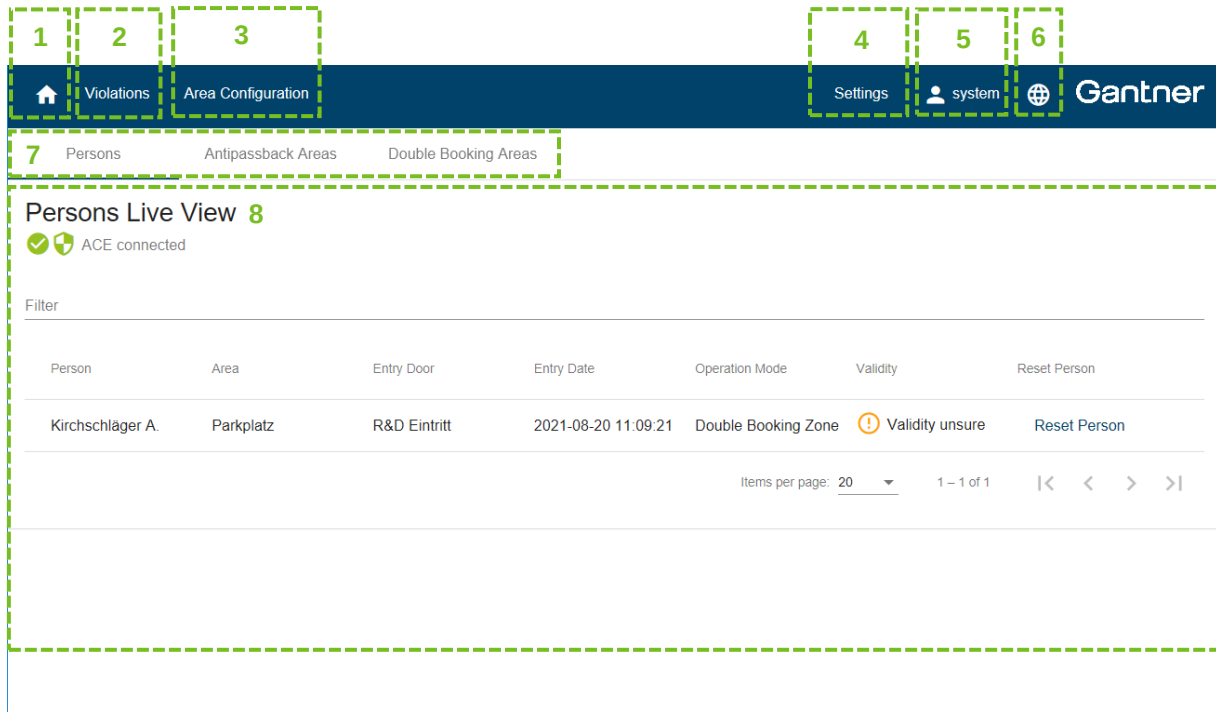


Figure 4.18 – Main window of GAT ACE 7000 APB

In this display you will find the following areas and controls:

- 1 Home: The “Home” icon () always returns you to the live view of the selected tab (see 7).
- 2 Violations: Violations are bookings that have not been made in the correct sequence, without the necessary time difference, or outside the permitted number of persons. See chapter “4.4 Violations” for more information.
- 3 Area Configuration: All existing APB areas and double-booking areas are available for configuration here. New areas can be created, and the existing areas edited or deleted. Each area can be assigned to the entry and exit readers and assigned to pool groups.
- 4 Settings: This menu allows you to configure the server settings, the database cleanup settings, and the user settings. Information about GAT ACE 7000 APB is also accessible via this menu.
You can also access the user management system here to create users for GAT ACE 7000 APB.
- 5 User menu: In the user menu you can change your password or log out of GAT ACE 7000 APB. The name of the user currently logged in is displayed here (i.e., the “system” user in the example).
- 6 Language selection: With this icon you can change the display language of GAT ACE 7000 APB (German or English).
- 7 Tabs: There are three tabs to choose from for displaying the various contents:
 - Persons: Displays the “Persons Live View” (see “4.3.1 Persons Live View”) where all persons present in any of the defined APB and double-booking areas are displayed.
 - Antipassback Areas: Here, all the defined APB areas are available for selection in order to display the persons who are present in a specific APB area (see “4.3.2 Antipassback Areas Live View”).
 - Double Booking Areas: Displays the “Double Booking Areas Live View” (see “4.3.3 Double Booking Areas Live View”). Here, the individual double-booking areas can be selected to display the persons present in the area.
- 8 Information display area: In this area, various information is displayed, or settings can be configured depending on which home screen tab is selected.

4.3 GAT ACE 7000 APB Home Page

4.3.1 Persons Live View

The “Persons Live View”, which is accessed via the first tab of the “Home”  screen, displays a list of all persons who are currently present in the defined APB and double-booking zones. This list is constantly updated.

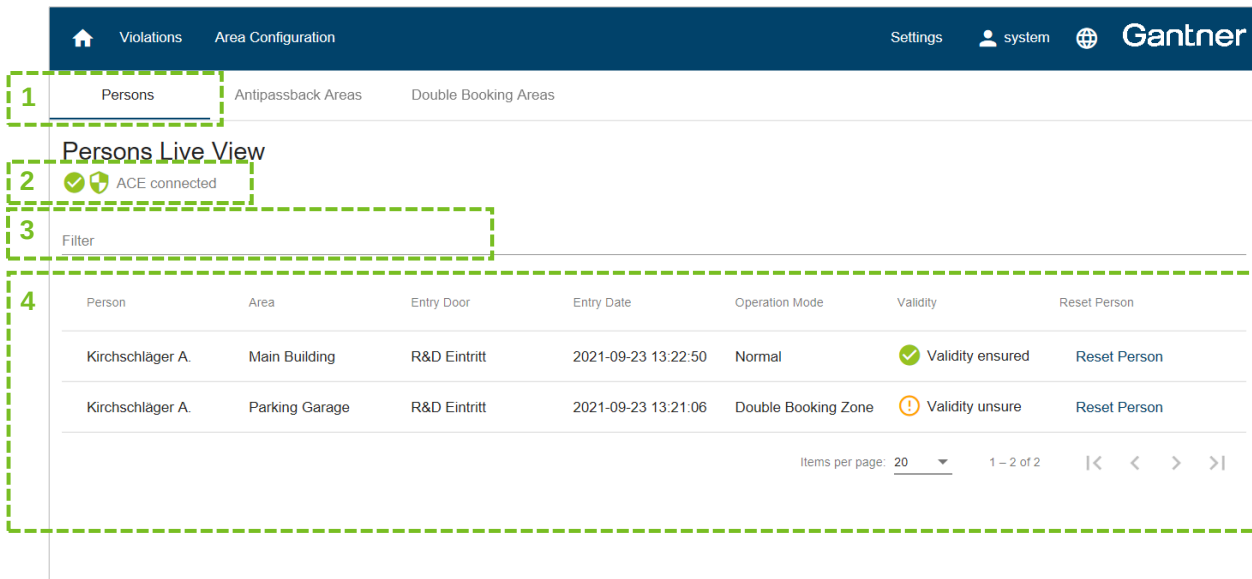


Figure 4.19 - Persons Live View

- 1 “Persons” tab: Displays the “Persons Live View”.
- 2 ACE connection: The connection status to GAT ACE 7000 is shown here. “ ACE connected” must be displayed in order to show the current identification status of persons in the live view. If “ ACE disconnected” is displayed, check the server settings in the “Settings” menu under “Server Configuration” and check whether the GAT ACE 7000 service is running.
The green shield symbol  indicates a valid certificate and an encrypted connection. Hover the mouse over the symbol to display the validity period of the certificate.
- 3 Filter: Here, you can enter the name (also partially) of a person to search the list for a specific person or persons. Only those persons matching the search term are displayed.
- 4 Person list: Here, you can see all persons who have identified themselves in the access control system. The following columns are displayed:
 - “Area”: The area where each person is currently located.
 - “Entry Door”: The door where each person last identified themselves or entered the current area.
 - “Entry Date”: The time and date of the last identification.
 - “Operation Mode”: The operation mode, i.e., Normal (= APB) or double booking, of the area where the person is located (last identification).
 - “Validity”: This indicates how sure GAT ACE 7000 APB is that the displayed status of the person is correct. For example, if the connection to

GAT ACE 7000 or the controllers is interrupted, all relevant statuses are set to "Validity unsure" because it is possible that access bookings are still made during the interruption. If the APB is restarted, all statuses are also set to unsure. If a status is set to unsure, access is always granted by the APB. If a valid access booking is subsequently made, it is corrected, and the validity is set to "Validity ensured".

- In the "Reset Person" column, you can reset the APB function and pool management for the person by clicking on the "Reset person" link. This can be helpful, e.g., if a person has left an area without identification.
- You can use the "Items per page" field and the arrow symbols to define how many persons are displayed per page and scroll through the list respectively.

4.3.2 Antipassback Areas Live View

The “APB Areas Live View”, which is accessed via the second tab of the “Home”  screen, displays all persons who are present in the selected APB area.

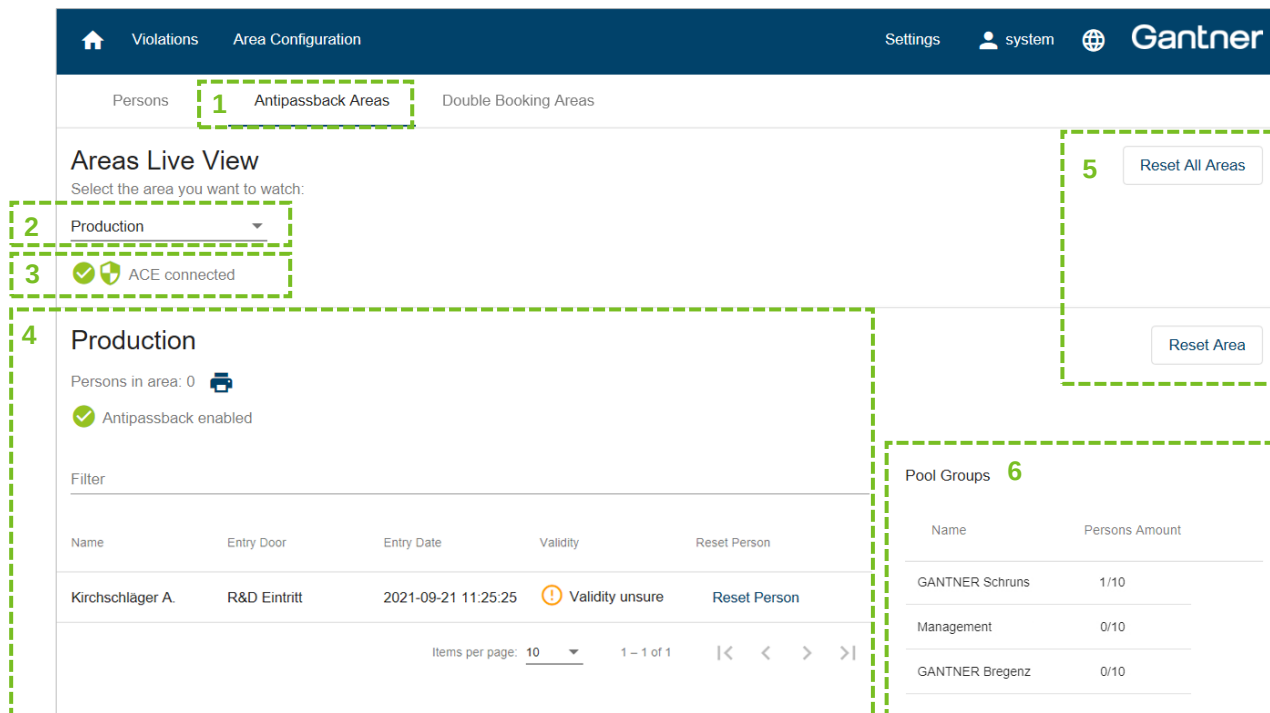


Figure 4.20 – “Antipassback Areas” Live View

- | | |
|--|---|
| <ol style="list-style-type: none"> 1 “Antipassback Areas” tab: 2 Area selection: 3 ACE connection: 4 Live display: | <p>Displays the APB Areas Live View.</p> <p>In this field you can select the desired area to display.</p> <p>The connection status to GAT ACE 7000 is displayed here. “ACE connected” must be shown here so that the current identifications of persons are displayed in the live view. If there is no connection to GAT ACE 7000, check the server settings in the “Settings” menu under “Server configuration” and check whether the GAT ACE 7000 service is running.</p> <p>The selected area with the following information is displayed here:</p> <ul style="list-style-type: none"> - Under “Persons in area”, you can see the number of persons currently in the area. - With the printer icon , you can print out the presence list of persons in the area. This report assists in taking appropriate action in case of an evacuation. - When “ Antipassback enabled” is displayed, all doors in this area are online and the APB function is active.
If not all doors are online () icon), the APB function is deactivated, and access is allowed without APB check and without pool management. - Under “Filter”, you can enter the name (also partially) of a person to search the list for a specific person. Only those persons who are relevant to the search term are displayed. - In the “Entry Door” column, the door where each person last identified themselves or entered the current area is displayed. |
|--|---|

- The "Entry Date" column shows the time of the last identification.
- In the "Reset Person" column, you can reset the APB function and the pool management for this person by clicking on the "Reset Person" link. This is helpful, e.g., if a person has left an area without identification.

5 Reset (All) Area(s):

By clicking on these links, you can reset the status of all persons in all areas, or in the currently displayed area. This means that persons are deleted from the area or areas. They are no longer displayed in the list and can now enter the area(s) again.

6 Pool Groups:

This area is only displayed when Pool Management is being used and assigned to the Area Pools (see "4.5.1 Assigning Pools to an Area"). Displayed here are how many persons from each pool are already in the area (first number), and the max. number of persons per pool who are allowed in the area simultaneously. In the example shown, 1 of max. 10 persons from the "GANTNER Schruns" pool are currently in the area.

4.3.3 Double Booking Areas Live View

Similar to the APB function, the double-booking function is designed to prevent data carriers from being shared; however, is intended for situations where entry readers only and no exit readers are installed for a zone, e.g., a reader only at the entrance door.

The monitoring of double bookings for doors can be configured. This function monitors whether a valid access using the data carrier has already occurred within a configurable time. If this is the case, access is blocked until the set time has elapsed.

Since often in such situations several readers control access to the same zone, the doors can be combined into double-booking zones. The desired blocking time (in minutes) for the double-booking can then be defined for the zone.

NOTE! A door can only be configured as an APB zone OR a double-booking zone; configuring both settings for the one door is not possible.

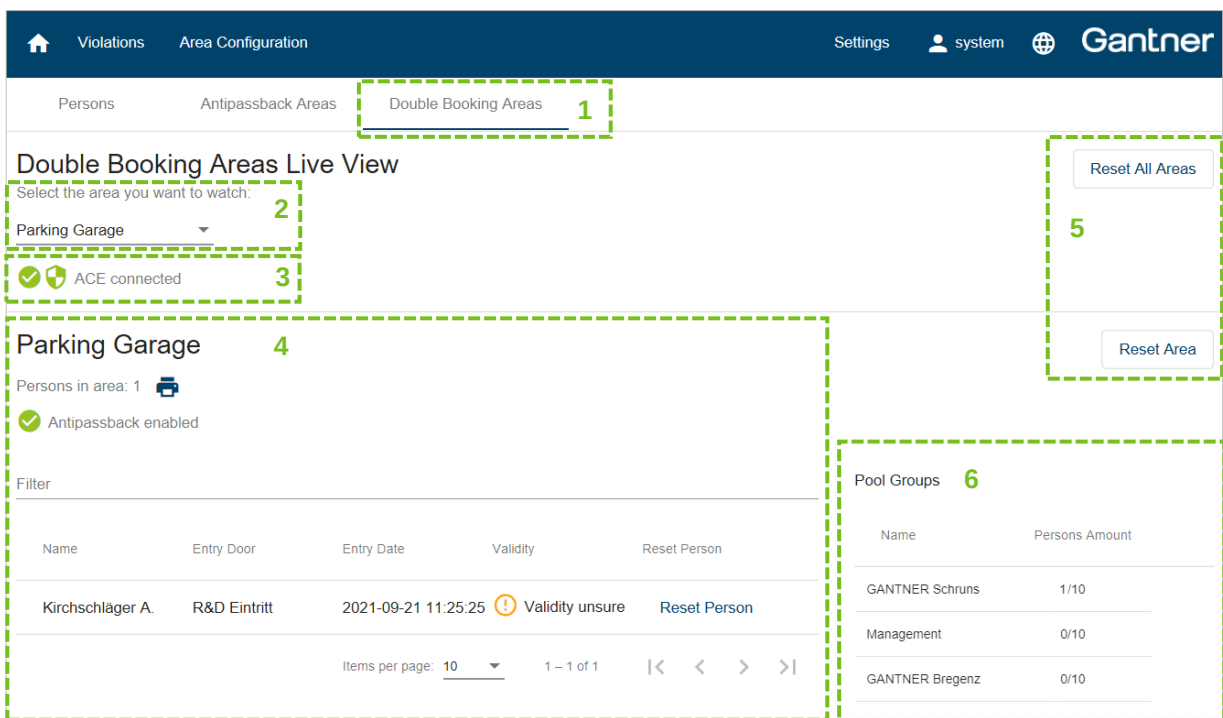


Figure 4.21 – “Double Booking Areas” Live View

- 1 “Double Booking Areas” tab: Displays the “Double Booking Areas” Live View.
- 2 Area selection: In this field you can select the desired area to display.
- 3 ACE connection: The connection status to GAT ACE 7000 is displayed here. “ACE connected” must be shown here so that the current identifications of persons are displayed in the live view. If there is no connection to GAT ACE 7000, check the server settings in the “Settings” menu under “Server configuration” and check whether the GAT ACE 7000 service is running.
- 4 Live display: The selected area with the following information is displayed here:
 - Under “Persons in area”, you can see the number of persons currently in the area.

- With the printer icon , you can print out the presence list of persons in the area. This report assists in taking appropriate action in case of an evacuation.
- When “ Antipassback enabled” is displayed, all doors in this area are online and the APB function is active.
If not all doors are online ( icon), the APB function is deactivated, and access is allowed without APB check and without pool management.
- Under “Filter”, you can enter the name (also partially) of a person to search the list for a specific person. Only those persons who are relevant to the search term are displayed.
- In the “Entry Door” column, the door where each person last identified themselves or entered the current area is displayed
- The “Entry Date” column shows the time of the last identification.
- In the “Reset Person” column, you can reset the APB function and the pool management for this person by clicking on the “Reset Person” link. This is helpful, e.g., if a person has left an area without identification.

5 Reset (All) Area(s):

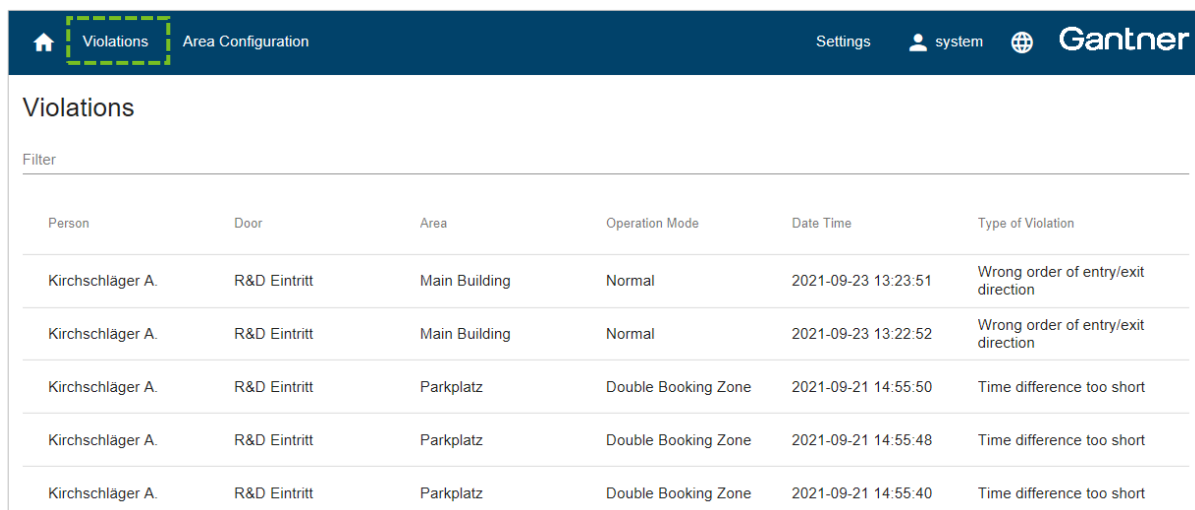
By clicking on these links, you can reset the status of all persons in all areas, or in the currently displayed area. This means that persons are deleted from the area or areas. They are no longer displayed in the list and can now enter the area(s) again.

6 Pool Groups:

This area is only displayed when Pool Management is being used and assigned to the Area Pools (see “4.5.1 Assigning Pools to an Area”). Displayed here are how many persons from each pool are already in the area (first number), and the max. number of persons per pool who are allowed in the area simultaneously. In the example shown, 1 of max. 10 persons from the “GANTNER Schruns” pool are currently in the area.

4.4 Violations

The “Violations” view is displayed by clicking on the respective tab at the top of the user interface. Violations are bookings recorded for the APB and double-booking zones that have not been made in the correct order, without the necessary time difference, or outside the permitted number of people.



Person	Door	Area	Operation Mode	Date Time	Type of Violation
Kirchschläger A.	R&D Eintritt	Main Building	Normal	2021-09-23 13:23:51	Wrong order of entry/exit direction
Kirchschläger A.	R&D Eintritt	Main Building	Normal	2021-09-23 13:22:52	Wrong order of entry/exit direction
Kirchschläger A.	R&D Eintritt	Parkplatz	Double Booking Zone	2021-09-21 14:55:50	Time difference too short
Kirchschläger A.	R&D Eintritt	Parkplatz	Double Booking Zone	2021-09-21 14:55:48	Time difference too short
Kirchschläger A.	R&D Eintritt	Parkplatz	Double Booking Zone	2021-09-21 14:55:40	Time difference too short

Figure 4.22 – “Violations” view

A new entry is added to the violations list when an access request is refused due to one of the violations being committed. The list can be sorted and filtered according to various criteria (e.g., person, area, type of violation) by entering the desired term into the “Filter” field. The criteria are defined as follows:

- “Person”: The name of the person who recorded the violation.
- “Door”: The door where the violation occurred.
- “Area”: The area where the violation occurred.
- “Operation Mode”: The operation mode, i.e., Normal (= APB) or double booking, of the area where the violation occurred.
- “Date Time”: The time and date of the violation.
- “Type of violation”: There are three types of violations possible:
 - “Wrong order of entry/exit direction”: The entry/exit to/from the area was denied because the person tried to enter/exit from the wrong direction, i.e., at the wrong door.
 - “Time difference too short”: For the double-booking zones, this violation indicates that the person tried to enter the area twice before the defined minimum period between bookings time had expired.
 - “Pool group exceeded”: When the “Use Pool Management” option is enabled for an area and the maximum number of persons for a pool group are already in the area, this violation is recorded when another person from the pool group attempts to enter the area.

You can use the “Items per page” field and the arrow symbols to define how many persons are displayed per page and scroll through the list respectively.

The evaluation of violations is possible up until the violations list data is deleted via the cleanup function (if enabled). The duration for which the data is retained is set via the “Cleanup Configuration” option in the “Settings” menu (see chapter “4.7 Cleanup Configuration”).

4.5 Area Configuration

APB areas and double-booking areas are used to ensure that a person can only gain access to a controlled area once. Only after the person leaves the area by identifying themselves at the exit may they enter the area again. This feature is designed to prevent the unauthorized passing on of one person's data carrier to another person outside the area so that the 2nd person can gain access.

i To check a person's access data, the staff ID is used instead of the data carrier number. This means that a person who owns two valid data carriers may not pass on any of the data carriers after access, as access using data carrier 1 will also block data carrier 2 until the next exit.

Areas are configured by defining and assigning the entry and exit readers or doors that control the entrances and exits to the area. For an example, also see section "2.2.1. APB Areas".

- ▶ To configure an APB or double-booking area, select the "Area Configuration" tab at the top of the display.
 - By default, the APB area window is displayed with an overview of all previously defined APB areas.

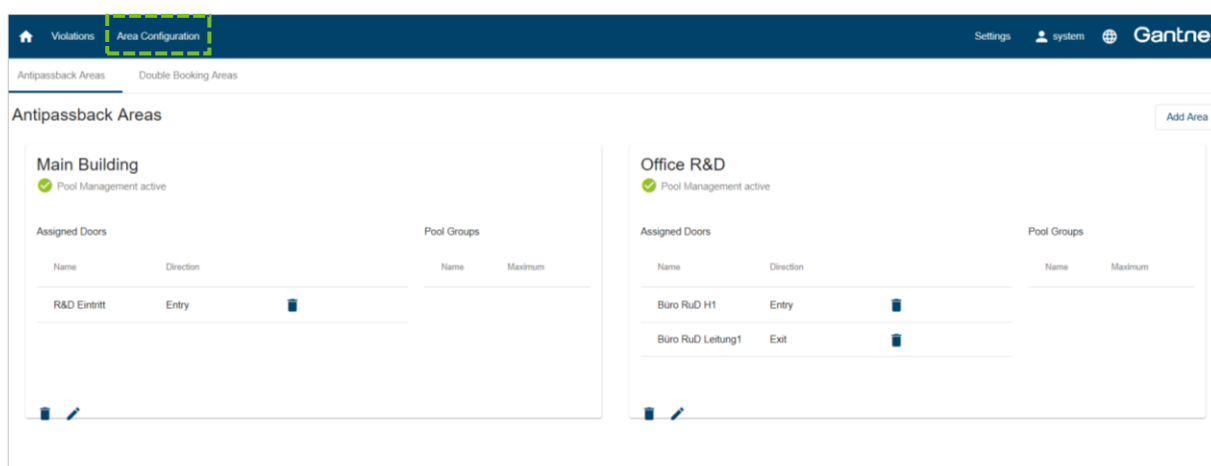


Figure 4.23 – Area Configuration View (APB Areas)

- ▶ To configure a new or existing double-booking area, click on the "Double Booking Areas" tab at the top of the display.
 - The double-booking area configuration window is displayed, which has a similar layout to that of the APB area configuration window as shown in Figure 4.23.

i The process for configuring an APB area and a double-booking area is the same. If a certain process or setting is only applicable for the configuration of one particular area, it will be noted.

For each area, the assigned doors for entry and exit are displayed. You can also remove them directly from the area using the trash can icon. If a pool also uses Pool Management, the assigned pools are also displayed here.

- To create a new area, click on the “Add Area” link in the upper-right corner. To edit an area, click on the pencil icon below the area.
 - In both cases, the Area View opens.

The screenshot shows the 'Area Configuration' page for 'Parking Garage'. The interface includes a header with navigation links (Violations, Area Configuration), user information (system), and the Gantner logo. The main section is titled 'Area: Parking Garage' and contains a form for 'Area Name' (set to 'Parking Garage'), a checked 'Use Pool Management' option, and a 'Required time interval between bookings' section with input fields for Days (0), Hours (4), Minutes (0), and Seconds (0). A 'Save' button is located below the form. Below the form, there are two tables: 'Assigned Doors' and 'Available Doors'. The 'Assigned Doors' table has columns for Name, Direction, and a trash icon. It lists 'Door 1' with 'Entry' direction and 'Door 2' with 'Exit' direction. The 'Available Doors' table has columns for a plus icon, direction, door name, and a number. It lists 'Büro RuD SW1' (24), 'Büro RuD V1' (24), and 'Door 3' (28).

Figure 4.24 - Area configuration

- Define the following settings for the area.

- Area Name: Enter a name for the area here.
- Use Pool Management: Select this option when you want to use the Pool Management function for the area (see chapter “4.5.1 Assigning Pools to an Area”).
- Required time interval between bookings:

NOTE! This option is only applicable for the double-booking area configuration window.

The screenshot shows a form titled 'Required time interval between bookings'. It contains four input fields: 'Days *' (0), 'Hours *' (4), 'Minutes *' (0), and 'Seconds *' (0).

For the double-booking area, define the required time period allowed between bookings. The time period starts (e.g., 4 hours) when the first booking is recorded for the data carrier, e.g., after entering the area, and if a second entry is attempted using the same data carrier within the time period, access is denied.

- Assigned Doors: Displayed here are the doors that currently control entry into the area and exit from the area. If you want to remove a door, click on the trash can icon. The door is then moved back to the “Available Doors” list.
 - Available Doors: Here you can select the doors that you want to add to control the area. For a door, click on “+ Entry” to define it as an entry door for the area, or on “+ Exit” to define it as an exit door for the area. In both cases, the door and its corresponding direction is moved to the list of assigned doors.
- Save the settings by clicking on “Save” in the upper-right corner.
- You are returned to the Area Configuration View and the new or changed area is displayed.

NOTE! If only one area is set up in your system (in this example, the main building area), it is possible for a person to leave this area several times. When exiting an area, it is not checked whether a person has ever left the area. For this to be prevented, a higher-level area around the main building area must be defined. Multiple exits can then be prevented by defining the exit doors from the main building area as entry doors to the new superordinate area, thereby preventing multiple entries into this superordinate area (and thus multiple exits from the main building area).

4.5.1 Assigning Pools to an Area

Pools are groups of persons that are used to limit the number of persons assigned to that pool from accessing an area simultaneously. If the maximum number of persons from a pool are already in the area, another person from that pool cannot enter the area until someone from the same pool leaves the area. This is intended for, e.g., parking lots with controlled access where only a limited number of parking spaces for different groups of persons (pools) are available.

i Pools or pool groups are created in the GAT Matrix access control software and automatically imported and displayed in GAT ACE 7000 APB. The assignment of persons to the pools is also done in GAT Matrix (see "2.2.2. Pool Management"). When a person is identified upon entering an area, GAT ACE 7000 APB automatically detects the pool membership and calculates the Pool Management accordingly.

To use Pool Management in an area, you must enable it and assign the pools as follows:

- Click on the "Add Area" link in the top-right corner of the Area Configuration View if you want to create a new area or click on the pencil icon below an existing area if you want to edit an existing area.
 - In both cases, the "Area" window opens.

The screenshot shows the 'Area Configuration' window for 'Main Building'. The 'Area Name' is 'Main Building'. The 'Use Pool Management' checkbox is checked. There is a 'Save' button. The window is divided into four sections: 'Assigned Doors', 'Available Doors', 'Assigned Pool Groups', and 'Available Pool Groups'.

Assigned Doors:

Name	Direction	
R&D Eintritt	Entry	
Door 2	Entry	

Available Doors:

	Door	Count
+ Entry	Door 1	28
+ Exit		
+ Entry	Door 3	28
+ Exit		
+ Entry	Door 4	28
+ Exit		
+ Entry	EDV 1.4	26
+ Exit		

Assigned Pool Groups:

Name	Max. amount of persons	
GANTNER Schruns	10	
Management	10	

Available Pool Groups:

Assign	Name
+	GANTNER Bregenz

Figure 4.25 – Assigning Pool Groups to Areas

- ▶ Select the "Use Pool Management" option to activate the pool management function.
- ▶ Now click on the "+" symbol in the "Available pool groups" list to assign the pool group for use in the area.
 - The pool group is added to the list of assigned pool groups.
- ▶ You can also add more pool groups.
- ▶ For each pool group, enter the maximum number of persons from the respective pool allowed to be in the area at the same time.
- ▶ If you want to remove a pool group, click on the trash can icon.
 - The pool group is added back to the list of available pool groups.
- ▶ Save the settings by clicking on "Save" in the upper-right corner.
 - The Area Configuration View with the new or changed area is displayed.

4.6 Server Configuration

You can configure the connection to the GAT ACE 7000 APB Server as well as the Active Directory login function in the settings menu as follows.

- ▶ Select the “Server Configuration” option from the “Settings” menu.
 - The following page is displayed.

Figure 4.26 - Server configuration and Active Directory settings

- ▶ In the “Remote Location” field, you can specify the location (computer name or IP address) of the computer where the GAT ACE 7000 APB server is running.
- ▶ Under “Port”, specify the port through which the GAT ACE 7000 APB server can be reached. Default = 8704.
- ▶ The connection to the GAT ACE 7000 server can be secured via the TLS cryptographic protocol. Select “Use TLS/SSL” to enable this option. After enabling this option, the username and password must be entered to log in to the server. The used certificate must be stored in the “LocalMachine” certificate store so that the service trusts it.

i To use the same certificate as GAT ACE 7000, copy the “sslcertificatethumbprint” token from the “Ace7Interface” to “Antipassbackvisitors”.

NOTE! The TLS/SSL option must also be enabled in GAT ACE 7000 and configured accordingly. In the CFG file for the “AntipassbackVisitors” interface, set “IsSslActive” and “IsAccessTokenValidationActive” to “True”. See the GAT ACE 7000 manual for more information.

- ▶ Restart the GAT ACE 7000 service after configuring the certificate.
- ▶ If you would like to allow users to log in using their respective usernames and passwords from the Active Directory (if this is used), select the “Enable Active Directory” option and enter the domain where Active Directory is running in the field next to it.

i An Active Directory (AD) domain controller authenticates and authorizes all users and computers on a Windows domain network. When a user logs in to a computer that is part of a Windows domain, the Active Directory checks the submitted credentials to confirm their validity.

Every user in the Active Directory is automatically authorized for GAT ACE 7000 APB. These users do not have to be entered into the GAT ACE 7000 APB user management system so that they can log in. An AD user logging in to GAT ACE 7000 APB is automatically registered as a normal “user” with the appropriate rights.

- ▶ Confirm the settings by clicking on “Save”.

4.7 Cleanup Configuration

The cleanup function in GAT ACE 7000 APB is used to delete data entries from the database at regular intervals in order to free up space.

- ▶ Select the “Cleanup Configuration” option from the “Settings” menu.
 - The following page is displayed.

Figure 4.27 – “Cleanup Configuration” settings page

The cleanup function can be configured for the APB entries, the double-booking entries, and the violations list entries. To enable the cleanup function for the desired data set:

APB Cleanup / Double Booking Cleanup

- ▶ Select the “Cleanup enabled” option.
- ▶ In the “Base date” field, define the time (in 24h time) that the cleanup will be carried out each day.
- ▶ In the “Older than x days” field, select the age of the data to be deleted. All data recorded before this time, e.g., 7 days prior to the current day, will be deleted with each cleanup.
- ▶ Click on “Save” to finalize the settings.
 - The cleanup function will be carried out at the configured time.
- ▶ Alternatively, the desired cleanup can be carried out immediately via the “Execute cleanup” button.

Violations List Cleanup

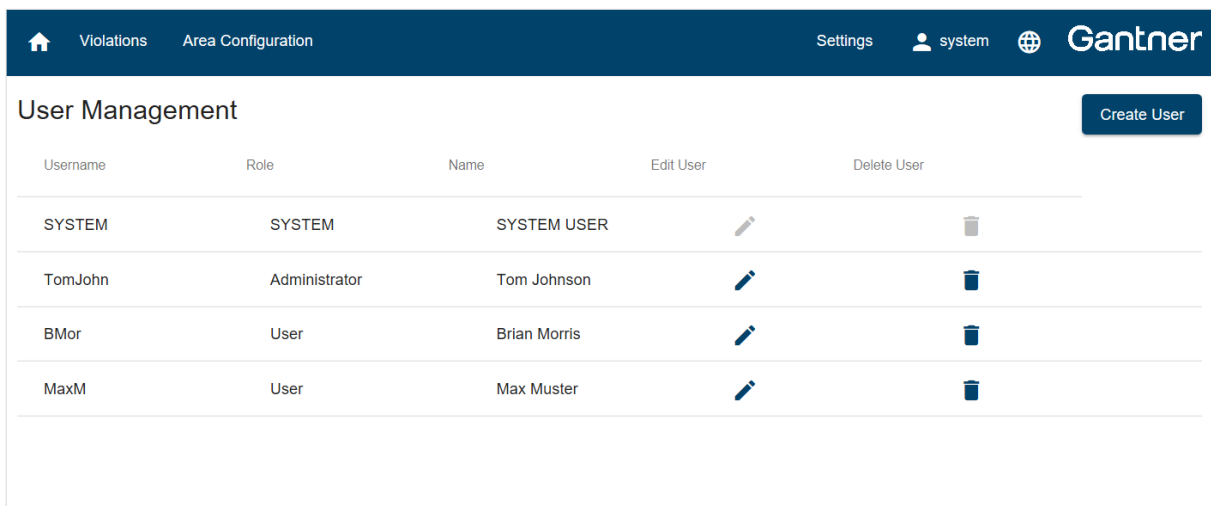
For the violations list cleanup, additional settings are available in addition to those described above.

- In the “Base date” field, define the date and time (in 24h time) when the initial cleanup will be carried out.
- For “Interval settings”, define how often the cleanup function should be carried out. Select either daily, weekly, or monthly, or enter a custom number of days.

4.8 User Management

End users who are tasked with operating GAT ACE 7000 APB must first be created as users in the user management system. The “Administrator” role (with all rights) and the “User” role (with restricted rights) are available.

- SYSTEM: Predefined system user (username: “system”, password: “GAT”). This user has all rights.
CAUTION! After logging in for the first time, change the default password of the system user to a secure password and keep it in a safe place. After logging in, you can change the password via the “Change password” menu item in your user menu.
 - Administrator: An administrator has all the rights of the system user.
 - User: This user can view the Persons and Areas Live Views. However, they cannot reset area or persons from the areas, define and configure areas, change system settings, or view and modify user data.
- Select the “User Management” option from the “Settings” menu.
- The following page is displayed.



Username	Role	Name	Edit User	Delete User
SYSTEM	SYSTEM	SYSTEM USER		
TomJohn	Administrator	Tom Johnson		
BMor	User	Brian Morris		
MaxM	User	Max Muster		

Figure 4.28 – “User Management” page

All defined users are listed here. The “SYSTEM” user is predefined and has all rights in the system.

- ▶ To edit an existing user, click on the pencil icon next to the user. To create a new user, click on the “Create User” link in the upper-right corner.
 - In both cases, the user data window opens.

Figure 4.29 – “Create User” window

- ▶ Under “Username”, enter the name that the user will use to log in to GAT ACE 7000 APB.
- ▶ In the “Role” field, select the authorization of the user (e.g., “Administrator” with all rights or “User” with restricted rights).
- ▶ Enter the first and last name of the user (optional).
- ▶ Enter the password of the user in the “Password” field and again in the right field for confirmation. When entering the password, ensure that the correct case (upper or lower) is used.
- ▶ Confirm the information with “Save”.
 - The list of users is displayed.

4.8.1 Password Change

It is only possible for users to change their own password. To do this, the user must log in and then change the password as follows:

- ▶ Select the “Change Password” option from the user menu.
 - The following window is displayed.

Figure 4.30 – Changing the password of a user

- ▶ Enter the current password into the “Current password” field.
- ▶ Enter a new password into the “New password” field and then the same again into the “Confirm new password” field for confirmation.

NOTE! Ensure that the correct case is used for the password as this is checked by GAT ACE 7000 APB.

- ▶ Save the change by clicking on “Save”.

4.8.2 Logout

For security reasons, you should always log out when you leave a workstation and not leave a workstation with GAT ACE 7000 APB unattended.

- ▶ To log out of GAT ACE 7000 APB, select the “Log Off” option from the “System” menu.
 - The login screen is displayed.

Note

This manual is valid as of 22nd October 2021. It is subject to change.
Amendments can be made without prior notice at any time.
Information in this manual is valid for Version 2.0 of GAT ACE 7000 APB.



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