

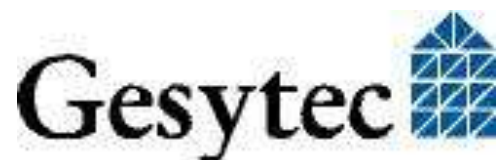
Gesytec Device Management Center (GDMC)

Manual

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This manual ...

... provides all of the necessary information to enable you to use the Gesyttec Device Management Center.

The Gesyttec Device Management Center (GDMC) is a Windows program to facilitate maintenance of certain IP-capable devices made by Gesyttec.

This document describes how to use the program. Please refer to the device documentation for further information on the device settings.

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Product information

The GesYTEC Device Management Center (GDMC) is a Windows program to facilitate maintenance of certain IP-capable devices made by GesYTEC.

The GDMC lists all suitable devices and allows configuring their IP settings. It is also possible to perform a firmware update as well as backup and restore the device configuration. These functions, in particular, can be performed simultaneously for several devices.

1.1 System Requirements and Operation

In order to use the GDMC, multicast addressing has to be enabled in the network. Furthermore usage of port 50 100 must be allowed.

To automatically recognize GesYTEC devices, modify their IP addresses and initiate a device reset, the GDMP, the GesYTEC Device Management Protocol, has to be implemented on the GesYTEC devices. Other GDMC commands make use of the devices web interface. For these commands the GDMP is not required. Devices without can therefore be added manually to the GDMC. The device documentation informs from which software version onwards the GDMP is included.

The GDMC uses a multicast protocol (GDMP) to search for devices and configure the IP settings. This protocol uses the address 239.255.255.253 and port 50100. These parameters can be changed, but it is then necessary for these changes to be made on all other devices, too. The devices can also be created manually or be imported from an Excel file if multicast is not permitted on an IP network.

The devices contact the GesYTEC Device Management Center cyclically every 10 seconds. After that time the GDMC should have detected all of the devices.

Security

The telegrams from the GesYTEC Device Management Protocol are secured with an MD5 hash code. The public key can be changed, but it is then also necessary to ensure that it is identical on every device.

Firmware updates, backups and recovery are performed using functions of the web interface of the devices. These functions are thus independent of the GesYTEC Device Management Protocol. These functions are protected by a username and password on the web interface.

1.2 Installation

To install the Gesyttec Device Management Center, you may first have to extract the file from the .zip archive. Then start “setup.exe”.

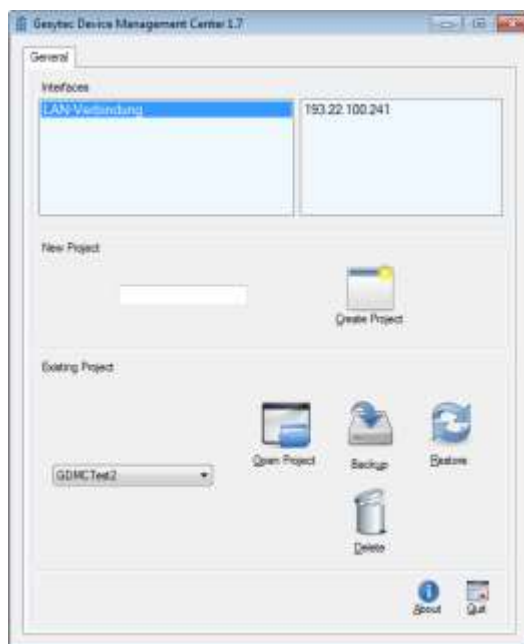
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Using the Program

The GDMC works on a project basis. This makes it possible to manage devices on various networks. Once the program has started, it is therefore necessary to select the required project before you can actually manage the devices.

2.1 General – The Start Window

After the GDMC has started, a start dialog is displayed:



The GDMC displays a list of the network interfaces recognized on the computer showing their names and the associated IP addresses. The user can simply select a network interface.

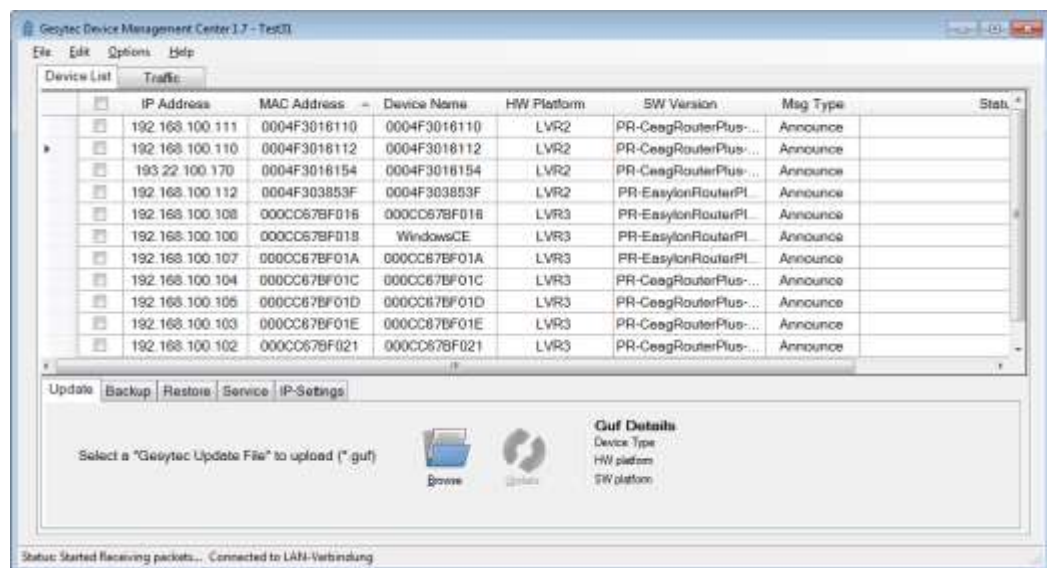
If no projects have been created yet, a new project can be created in the »New Project« section. Clicking »Create Project« creates a project and then opens it.

In the »Existing Project« section you can select a project from a list of existing projects. The icons can be used to manage the projects. »Backup« and »Restore« are used to back projects up and restore them.

The project files are saved in the user's AppData\Roaming\GDMCenter\ folder as sqlite files.

To close GDMC, click »Quit«.

2.2 Project Commands



The project window is divided into the menu bar, the Device List and Traffic tabs, and the bottom section with more tabs, which offer the commands to perform the actual management tasks for the devices selected from the list.

2.2.1 The Main Menu

2.2.1.1 File Menu

- Import Device List
- Export Device List
- Close Project

Import Device List

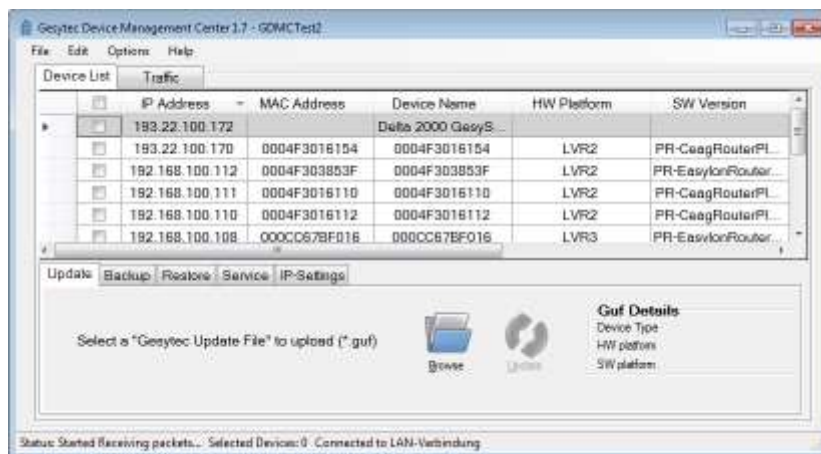
This can be used to import a device list. To do so, specify an Excel file containing the following columns with exactly these headings:

- IP Address
- MAC Address
- Device Name
- Device Family
- Device Type
- HW Platform
- SW Platform
- SW Version

Apart from columns IP Address and Device Name the fields of the other columns may be left blank for the import. An Excel file with the same format is also created when you export a list. This is why the columns that are actually not necessary here are also used in the import format.

	A	B	C	D	E	F	G	H
1	IP Address	MAC Address	Device Name	Device Family	Device Type	HW Platform	SW Platform	SW Version
2	193.22.100.172		Delta 2000 GesySense					
3								
4								
5								
6								

After the import, it looks like this:



Devices that have been imported but are not recognized by the Gesyttec Device Management Protocol are displayed with a gray background.

Export Device List

This command is used to export the current device list to an Excel file.

Close Project

This command is used to close the main window and return to the start dialog where you can select or create projects.

2.2.1.2 Edit Menu

- New Device
- Edit Device
- Delete Device

The commands in this menu are used for manual management of the device list, in particular, if the Gesyttec Device Management Protocol is not used.

These commands are also available from a context menu which is shown at right-clicking a device entry. Furthermore, the »Open« and »Delete« commands can not only be applied to the device clicked on, but also on all those devices which have previously been selected by the checkbox in the first column.

New Device

The »New Device« command can be used to add a new device to the list manually:



Clicking the »Add« button adds the device to the list, but does not open a dialog box in which the user can enter more devices. To close this dialog box, click »Close«.

Edit Device

This command is used to edit the »IP Address« and »Device Name« fields of an existing item on the device list.

Delete Device

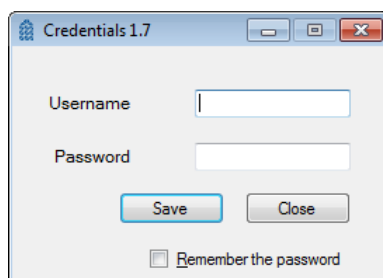
The »Delete Device« command can be used to delete the currently selected devices from the list. However, if the currently selected device is a device that was automatically added by the Gesyttec Device Management Protocol, then it will reappear on the list again after a short time.

2.2.1.3 Options Menu

- Credentials
- Settings
- Show/Hide Column

Credentials

This is where the »Username« and »Password« used to access the web interface are entered.



Settings

Here you can change the default GDMC settings for the current project.



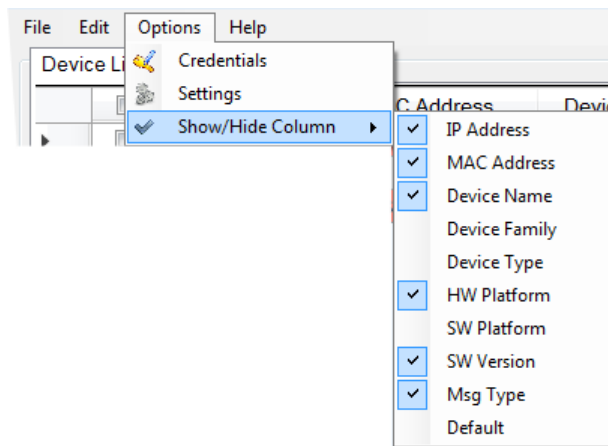
Shared Secret

This box contains the individual key which is required if instead of the default key an individual one shall be used for MD5 authentication¹. In that case it is necessary to make sure that all the devices support it.

¹ A 16 byte (32-figure) hexadecimal value must be entered here.

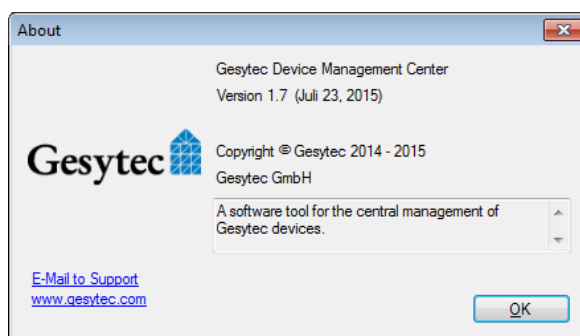
Show/Hide Column

The device list can be modified according to personal preferences by selecting the columns to be displayed.



2.2.1.4 Help Menu

While »Email Support« starts an e-mail to the Gesyttec support, »About« will open a link to the Gesyttec website.



2.2.2 Device List

	IP Address	MAC Address	Device Name	SW Version	Msg Type	Status
<input type="checkbox"/>	192.168.100.107	000CC67BF01A	000CC67BF01A	PR-EasytonRouterPlus-SW-AP00088-V7.6.16	Announce	
<input type="checkbox"/>	192.168.100.108	000CC67BF016	000CC67BF016	PR-EasytonRouterPlus-SW-AP00088-V7.6.16	Announce	
<input type="checkbox"/>	192.168.100.112	0004F303853F	0004F303853F	PR-EasytonRouterPlus-SW-AP00088-V7.6.14	Announce	
<input type="checkbox"/>	192.168.100.109	000CC67BF016	000CC67BF016	PR-EasytonRouterPlus-SW-AP00088-V7.6.16	Announce	


In the screenshot above, the devices have already been detected by the Gesyttec Device Management Protocol.

Columns of the list can be hidden and shown according to your preferences using »Show/Hide Column« command from the »Options« menu. You can change the sort order of the columns by clicking on the column header. This makes it possible to sort by software version, for example, which makes it easier to perform updates.

The first column in the list contains a checkbox that can be used to select an item from the list. The selection of multiple entries by right-clicking, as is possible in other programs, is not implemented, since it is also possible to sort by selected checkboxes. This provides better control of the selection. Clicking the checkbox in the title selects all of the items in the list.

The field type refers to the telegram type that last was received. In the example, this is an “Announce”, which is the telegram type of the Gesyttec Device Management Protocol which the devices use to contact the GDMC.

If no signals are received via the Gesyttec Device Management Protocol for more than 30 seconds from a device that was previously been detected, the entry for that device is displayed with a red background:



	IP Address	MAC Address	Device Name	SW Version	Mag Type	Status
<input type="checkbox"/>	192.168.100.108	000CC67BF016	000CC67BF016	PR-EasytonRouterPlus-SW-AP00088-V7.6.16	Announce	
<input type="checkbox"/>	192.168.100.107	000CC67BF01A	000CC67BF01A	PR-EasytonRouterPlus-SW-AP00088-V7.6.16	Announce	
<input type="checkbox"/>	192.168.100.112	0004F303853F	0004F303853F	PR-EasytonRouterPlus-SW-AP00088-V7.6.14	Announce	
<input checked="" type="checkbox"/>	192.168.100.100	000CC67BF018	WindowsCE	PR-EasytonRouterPlus-SW-AP00083-V7.5.13	Announce	

Device list context menu

Right-clicking on the device list opens a context menu with the following options:

- New Device
- Edit Device
- Delete current
- Delete selection
- Open current
- Open selection

The »Open« and »Delete« commands can not only be applied to the device clicked on, but also on all those devices which have previously been selected by the checkbox in the first column.

The »Open ...« command allows you to access the selected device directly. The device’s web interface opens in your default browser, allowing you to make further changes to the settings.

2.2.3 Tabs in the Bottom Section of the Project Window

Additional commands can be performed using the tabs in the bottom section of the project window. These commands normally require additional parameters or user interaction.

2.2.3.1 Update

This is used to perform a software update for the device selected in the device list. First, click the »Browser« icon. This opens a dialog box in which you can select the firmware file (*.GUF). Once this file has been selected, the »Update« button is activated.



Clicking the »Update« button triggers a parallel update of the selected devices.

Please note: Because this function is performed using implicit commands from the devices' web interface, it is necessary that you have provided username and password under »Credentials« in the »Options« menu.

2.2.3.2 Backup

This function is used to create a backup file² for the devices selected in the device list. To do so, it is first necessary to select a destination folder for these files by clicking the »Browse« button.



Clicking the »Backup« button creates the backup file and starts the backup operation. The Status column of the device list contains information about the status of the process.

² The content of the backup file depends on the device types.

2.2.3.3 Restore

The »Restore« function is used to restore a backup file to a device. This function can only be used for one device at a time. First, select a file using the »Browse« button. Then click the »Upload« button to restore the file.



Please note: Because this function is performed using implicit commands from the devices' web interface, it is necessary that you have provided username and password under »Credentials« in the »Options« menu.

Please note: After the backup file has been restored, the device will restart automatically and is therefore temporarily unavailable.

2.2.3.4 Service

It is currently possible to restart a device by clicking the »Reboot« button.



Please note: This function requires the GesYTEC Device Management Protocol to be active.

2.2.3.5 IP Settings

The commands on this tab allow you to change the IP settings for a device using the GesYTEC Device Management Protocol. They are especially helpful when installing new devices that are shipped with a default IP address.

Please note: This function requires the GesYTEC Device Management Protocol to be active.

First, open the existing IP settings are by clicking the »Request IP Settings« button. An individual device from the list can then be selected by clicking on a row in the device list. The settings for the selected device are then displayed in the text boxes in the bottom section of the project window.

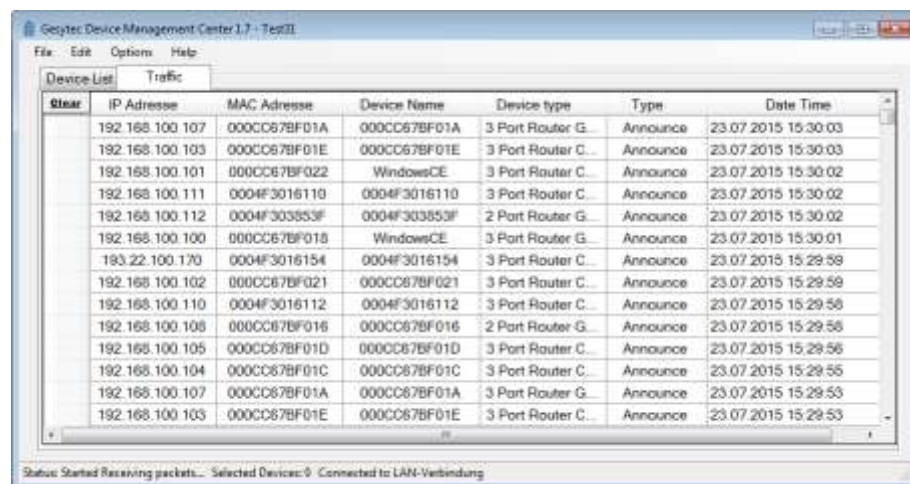


Now you can edit the settings and send them to the device by clicking the »Write IP Settings« icon.

2.2.4 Traffic Tab

This tab contains a chronological list of the log files received from the Gesyttec Device Management Protocol.

Display of table columns can be modified using »Options« – »Show/hide columns«.



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