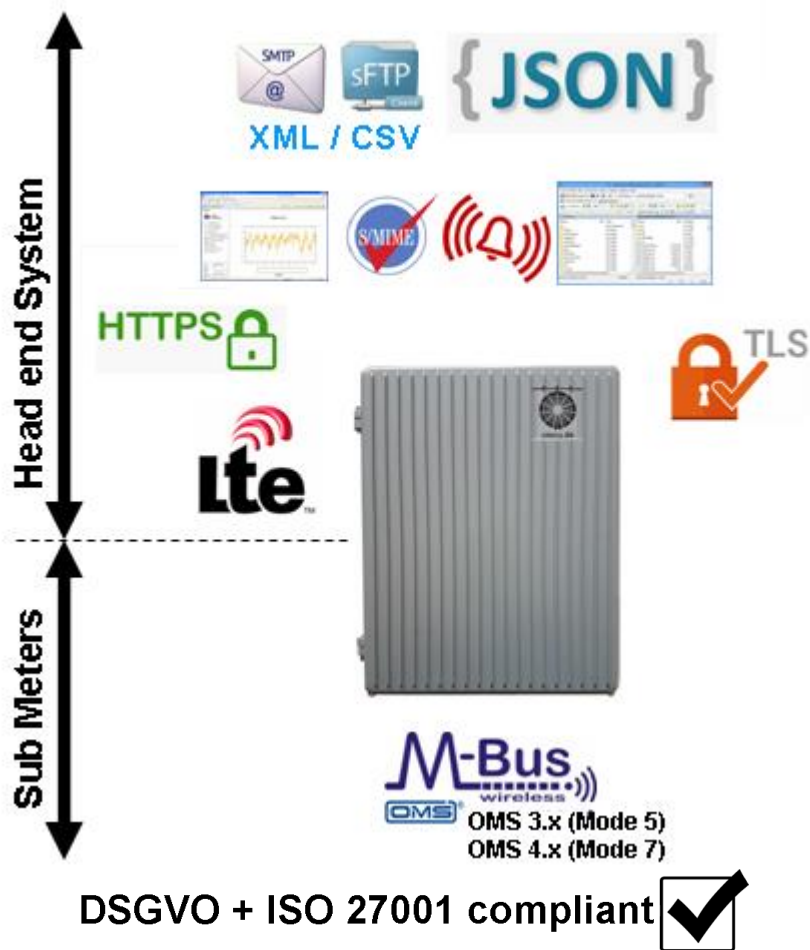




M-Bus **i**ntegrated **D**ata **A**pplication **S**erver **S**ystem

User Manual

MiDASS GIZA Edition





M-Bus **i**ntegrated **D**ata **A**pplication **S**erver **S**ystem

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Introduction

This manual describes the MiDASS GIZA Edition Front-end
The MiDASS GIZA Edition System is designed for 4 wM-Bus Receivers.
The wM-Bus Receivers with 433 MHz support:

S1-, T1 -and C1- Mode

Data encryption OMS 3 (Mode 5) and OMS 4 (Mode 7) is included
The received protocols are stored to up to 2 CSV- Files that will be transferred. via FTP/SFTP
to 2 FTP/SFTP Servers.
The CSV Files includes as maximum one protocol from a sensor.

Additional Features:

- There is a Door Open- and a Temperature- Alarm included, and can be send via Email.
- A daily Status Email can be sent every night, that can be used as a Heartbeat



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2. Access the MiDASS GIZA Edition Web interface

The HTTPS Web interface can be accessed locally via 192.168.0.90.

Authentication

Login: admin

Password: ●●●●●

Apply Cancel



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3. Configurations of the MiDASS GIZA Edition

3.1 Settings / Main Settings

The screenshot shows the RmCU Webserver interface. The left sidebar contains a menu with the following items: Status, Wireless M-Bus, Settings, Reboot, and Logout. Below the menu is a box containing system information:

Login Name :	admin
SN :	191087709096
SW Version :	V8.3.2 Jan 17 2020 Giza Systems
Kernel Version :	4.1.15 Jan 9 2020
Last Boot :	28.01.2020 14:41:51
MAC :	00:14:2D:62:05:90
Last E-Mail :	n/a - n/a
RmCU time :	28.01.2020 14:47:40
UTC+03:00	Saving time: Off

The main content area is titled 'Status' and displays the following information:

Door	Closed	Clear
Temp	36.500 C	Clear

Below the table, it shows 'Mobile Traffic [%]' as '0' and 'Mobile IP Address' as '(online)'.

The Web interface is split in two parts:

The left side include a menu system for navigate to the sub menus.

The right side shows the actual settings. After changing any setting, you need to press the apply button to save the new setting.

Over all Alarm State

Green: There is no active Alarm (Door Open or Temperature)

Coloured: There is an active Alarm (Door Open or Temperature)

Mobile Traffic:

Shows the percentage of the data limit of the SIM- Card

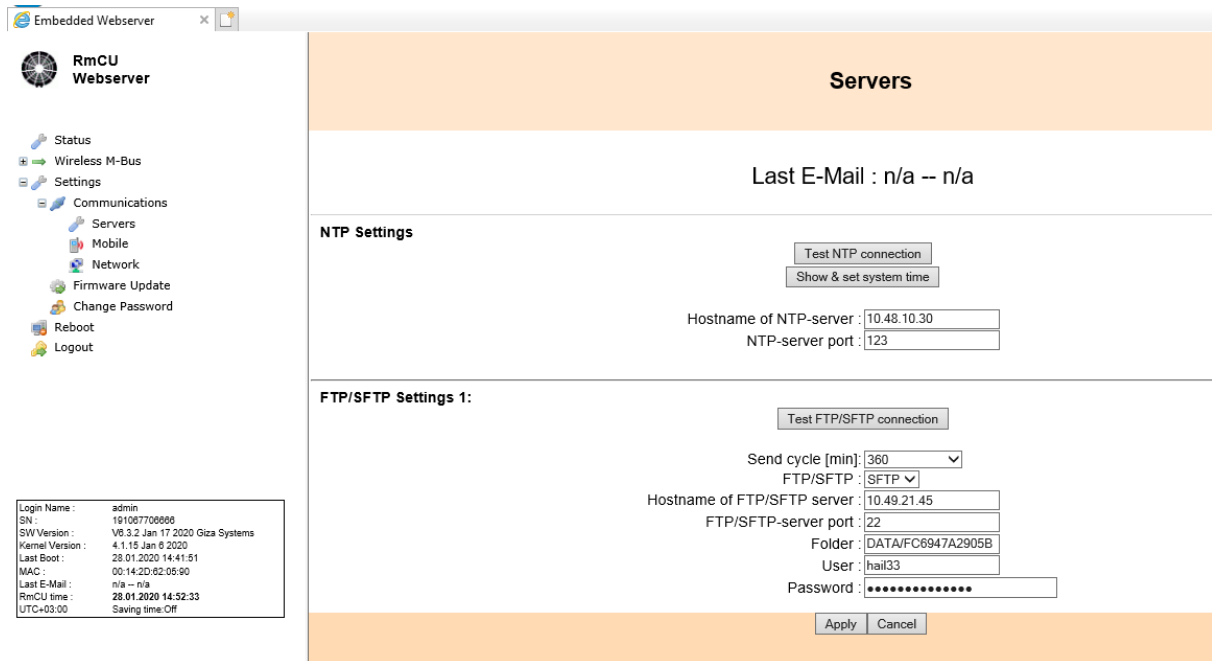
Mobile IP- Address

The IP Address assigned from the SIM- Card



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3.2 Settings / Communications / Servers



Section Servers:

Green Line: Shows whether the last FTP transfer to target 1 was successfully
 Red Line: Shows whether the last FTP transfer to target 2 was successfully
 Last Email: Shows whether the last Email (Alarm or Status) was sent successful

FTP/SFTP Settings 1 and 2

The second FTP Connection can be Activated / Deactivated.

Button Test: For testing the FTP settings

Send Cycle

Defines in which cycle the CSV File is transferred to the FTP Server

FTP/SFTP

Defines whether the Server is an FTP or SFTP Server

FTP/SFTP Server IP





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The FTP server can be defined via his IP- Address or the Hostname.
If the connection via Hostname fails, MiDASS tries so access the FTP- Server via the IP Address.

FTP/SFTP Server Port

The IP- Port of the FTP Server

FTP Folder

The Folder of the FTP Server for this MiDASS

User

Password

UserID and Password for accessing the FTP Server

Display Remote Filename Pattern

Shows how the Remote file will be names and three Placeholders (Cityname, SN and Timestamp)

Cityname

Sets the content of filename template pattern "cityname"

Timestamp

Sets the format of timestamp in filename"

Show File

Sows the current content of file for corresponding ftp target.

SMTP Settings

The SMTP Settings can be tested via the Test Button

Recipients

Definition from up to 10 recipients that will be receive Alarm- and Status- Emails



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NTP Settings

The NTP Server access can be tested via the Test Button

Via Show & set system time the MiDASS GIZA Edition Time and Time Zone can be defined

The screenshot shows the RmCU Webserver interface. On the left is a navigation menu with options: Status, Wireless M-Bus, Settings, Communications, Servers, Mobile, Network, Firmware Update, Change Password, Reboot, and Logout. Below the menu is a system information box:

Login Name :	admin
SN :	191067706006
SiW Version :	V8.3.2 Jan 17 2020 Giza Systems
Kernel Version :	4.1.15 Jan 6 2020
Last Boot :	28.01.2020 14:41:51
MAC :	00:14:2D:62:05:90
Last E-Mail :	n/a -- n/a
RmCU time :	28.01.2020 15:00:04
UTC+03:00 :	Saving time Off

The main content area is titled "Show & set system time". It contains the following settings:

- RmCU time**: 15:00:07 28-01-2020
- Client time**: 15:00:13 28-01-2020 (with a "Set to RmCU" button)
- Set time manually (example : 18:20:30 25-05-2014)**: hh.mm.ss DD-MM-CCYY (with a "Set to RmCU" button)
- Timezone**: GMT +03:00 (with a "Set to RmCU" button)

A "Back" button is located at the bottom right of the page.



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3.3 Settings / Communications / Mobile

Mobile Communication Settings

Mobile Traffic

IP Address : 10.195.113.228
Logins : 1
Rx this session / this month [KB] : 0.16 / 0.98
Tx this session / this month [KB] : 1.22 / 0.00
Monthly Traffic Total so far [KB] : 2.35

SIM Card

User ID :
Password :
PIN-Code :

Advanced Mobile Settings

APN :
Type of service :

Apply Cancel

Login Name : admin
SN : 191007700000
SW Version : V6.3.2 Jan 17 2020 Giza Systems
Kernel Version : 4.1.15 Jan 9 2020
Last Boot : 28.01.2020 14:41:51
MAC : 00:14:2D:02:06:90
Last E-Mail : n/a -- n/a
RmCU time : 28.01.2020 15:00:39
UTC+03:00 Saving time:Off

Mobile Traffic

IP Address

Shows the IP Address assigned from the SIM- Card

Logins

Shows the number of GPRS Logins this day

RX this session / this month

TX this session / this month

Monthly Traffic Total so far

Shows the monthly GPRS Traffic (automatic reset every month)

SIM Card

Note: the PIN- Code must be deactivated



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UserID

Password

The UserID and Password for accessing the APN Server.

Note: If there is no UserID and Password required, use "empty"

APN:

The used APN for the mobile service operator

Type of Service

The Mobile Generation Standard.

If LTE is selected and not available, there is an automatically fallback to UMTS then to GSM



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3.4 Settings / Communications / Network

Network Settings

IP Addresses

Mobile IP Address : 10.195.113.228

DHCP Client :

LAN Settings

Primary IP :

Netmask :

Gateway :

Apply Cancel

Login Name : admin
SN : 191087708888
SW Version : V8.3.2 Jan 17 2020 Giza Systems
Kernel Version : 4.1.15 Jan 8 2020
Last Boot : 28.01.2020 14:41:51
MAC : 00:14:2D:82:05:90
Last E-Mail : n/a -- n/a
RmCU time : 28.01.2020 15:02:51
UTC+03:00 Saving time: Off

<http://www.rmku.de/>

IP- Addresses

Mobile IP Address

Shows the IP Address assigned from the SIM- Card

DHCP Client

Active: MiDASS is running in LAN with DHCP Server that assigns an MiDASS IP Address

LAN Settings

Is important if MiDASS is integrated in any local IP- Network



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3.5 Settings / Firmware Update

RmCU Webserver

- Status
- Wireless M-Bus
- Current
- Historical
- Configuration
- Settings
- Communications
- Firmware Update
- Change Password
- Reboot
- Logout

Firmware Update

System Update File: Browse...

Login Name :	admin
SN :	191067706666
SW Version :	V6.3.2 Jan 17 2020 Giza Systems
Kernel Version :	4.1.15 Jan 6 2020
Last Boot :	28.01.2020 14:41:47
MAC :	00:14:2D:82:05:90
Last E-Mail :	n/a - n/a
RmCU time :	28.01.2020 15:24:54
UTC+03:00	Saving time:Off

User can keep the MiDASS up-to-date through updating the firmware using the user-friendly embedded interface.



3.6 Settings / Change Password

RmCU Webserver

- Status
- Wireless M-Bus
 - Current
 - Historical
- Configuration
- Settings
 - Communications
 - Firmware Update
 - Change Password
 - Reboot
 - Logout

Change Password

Admin Password :

User name : **admin**
New Password :

Confirm New Password :

Apply Cancel

Login Name :	admin
SN :	191067700000
SW Version :	V6.3.2 Jan 17 2020 Giza Systems
Kernel Version :	4.1.15 Jan 6 2020
Last Boot :	28.01.2020 14:41:47
MAC :	00:14:2D:62:05:90
Last E-Mail :	n/a - n/a
RmCU time :	28.01.2020 15:27:32
UTC+03:00	Saving time: Off

User can change the MiDASS users' passwords, for "admin" and "user" usernames.



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3.7 Wireless M-Bus / Configuration

Wireless M-Bus Configuration

#	Remark	Active
1	433 MHz with Antenna	<input checked="" type="checkbox"/>
2	433 MHz with Antenna	<input checked="" type="checkbox"/>
3	433 MHz with Antenna	<input checked="" type="checkbox"/>
4	433 MHz with Antenna	<input checked="" type="checkbox"/>

Apply

Login Name : admin
 SN : 191067706868
 SW Version : V8.3.2 Jan 17 2020 Giza Systems
 Kernel Version : 4.1.15 Jan 6 2020
 Last Boot : 28.01.2020 14:41:47
 MAC : 00:14:2D:82:05:90
 Last E-Mail : n/a -- n/a
 RmCU time : 28.01.2020 15:12:20
 UTC+03:00 Saving time Off

For each wM- Bus Module will be shown:

No. of the wM- Bus Module

Remark

Showing type of the wM- Bus Module and the designed Frequency range

Active

User can activate/deactivate any wM- Bus Module by the corresponding check box



M-Bus integrated Data Application Server System

4. Operating the MiDASS GIZA Edition

4.1 Wireless M-Bus / Current

The screenshot shows the RmCU Webserver interface. On the left is a navigation menu with options: Status, Wireless M-Bus, Current, Historical, Configuration, Settings, Communications, Firmware Update, Change Password, Reboot, and Logout. The main content area is titled 'Wireless M-Bus Current Readings' and contains a table with 14 rows of data. At the bottom left of the interface is a system information box, and at the bottom right is a 'Refresh' button.

#	Meter ID	First received	Last received	RX	Module
1	AEC83151066	12.26.57 10/12/2019	01.21.50 18/01/2024	-73dBm	1
2	AEC87102156	12.27.01 10/12/2019	01.18.28 18/01/2024	-92dBm	1
3	HYD04920725	12.27.02 10/12/2019	01.21.41 18/01/2024	-72dBm	1
4	AEC87142324	12.27.04 10/12/2019	01.21.28 18/01/2024	-84dBm	1
5	AEC87141908	12.27.04 10/12/2019	01.21.36 18/01/2024	-83dBm	1
6	SEN10327521	12.27.27 10/12/2019	01.21.43 18/01/2024	-82dBm	1
7	SEN10388688	12.27.39 10/12/2019	01.20.38 18/01/2024	-90dBm	1
8	HYD61519681	12.57.33 10/12/2019	01.21.46 18/01/2024	-88dBm	1
9	SEN10208941	13.00.01 10/12/2019	13.00.01 10/12/2019	-78dBm	1
10	SEN10526227	00.55.00 18/01/2024	01.21.49 18/01/2024	-86dBm	1
11	SEN30037076	00.55.13 18/01/2024	01.14.33 18/01/2024	-91dBm	1
12	SEN10495837	00.55.59 18/01/2024	00.56.59 18/01/2024	-89dBm	1
13	SEN30076084	00.56.48 18/01/2024	01.19.23 18/01/2024	-92dBm	1
14	SEN30158534	01.15.47 18/01/2024	01.20.15 18/01/2024	-90dBm	1

System Information:
 Login Name : admin
 SN : 19109706666
 SW Version : V0.3.2 Jan 17 2020 Giza Systems
 Kernel Version : 4.1.15 Jan 6 2020
 Last Boot : 28.01.2020 14:41:47
 MAC : 00:14:2D:82:05:90
 Last E-Mail : n/a - n/a
 RmCU time : 28.01.2020 15:13:52
 UTC+03:00 Saving time: Off

User can check the current covered wM-Bus devices with their ID, First and Last received Date/Time, RX, and the related wM-Bus Module



M-Bus integrated Data Application Server System

4.2 Wireless M-Bus / Historical

The screenshot shows the RmCU Webserver interface. The main content area is titled "Wireless M-Bus Historical Readings". Below the title is a "Data Request" section with the following fields and controls:

- Meter Manufacturer:
- Meter SNR:
- Day: (dropdown menu)
- Hour: (dropdown menu)
- Buttons: and

In the bottom left corner, there is a system information box with the following details:

```
Login Name : admin
SN : 191067709066
SW Version : V6.3.2 Jan 17 2020 Giza Systems
Kernel Version : 4.1.15 Jan 6 2020
Last Boot : 28.01.2020 14:41:47
MAC : 00:14:2D:62:09:90
Last E-Mail : n/a -- n/a
RmCU time : 28.01.2020 15:18:43
UTC+03:00 Saving time:Off
```

User can find historical telegrams stored in internal database (maximum 1 and the latest per hour!)

User can search them by manufacturer code (defined by MBus specification - 3 letters). by serial number (secondary address), by day or by hour and all combinations.

User can leave everything empty so all telegrams would match your search request.

It is also possible to search for a part of the serial number.

There is an API to call the result directly by calling the page, for more details please refer to the "Reading and Configuration API Technical Guide" document.