Update Manual
Universal Gateway

Table of contents

1 Introduction

Purpose of this document

This document is a guide for performing an operating system update for universal gateways securely.

The version check of the current operating system can be done in advance, via the configuration interface of the gateway under HELP / DEVICE INFO / ...

Target group

This manual is intended exclusively for specialist personnel who are familiar with gateway configuration in building- and industrial-automation.

Intended use

The gateway is only intended for coupling networks in building automation with the connected loads stipulated in the specifications.

Notation and symbols used

<Buttons>	The notation <Button> is used to mention specific buttons within the text body.
REFRESH	The notation <Button> is used to mention specific buttons within the text body.
Network commands, file and product names	Network commands, such as *traceroute* or *ping*, as well as file and product names, are all written in italics.
Menu designations and paths	As a rule, menu functions will be localised in the MAIN MENU / SUBMENU / ... form.

2 Safety

The hardware and software present no direct hazards. However, in their function as a gateway between networks in building infrastructures, they are able to seriously disrupt the interaction of network components.

> ⚠️ **Warning**
>
> **Misconfiguration of hardware and software!**
>
> Faulty configuration of hardware and software can cause malfunctions in the building infrastructure on network components, sensors or actuators, **for example**:
>
> - Monitoring devices, such as fire alarm or intrusion detection systems, are deactivated.
>
> - Machines and fans start up unexpectedly.
>
> - Gate valves and other valves open or close unintentionally.
>
> Under certain circumstances, this can lead to serious injuries or death.
>
> The gateway should only be configured by specialist personnel who are familiar with network configuration!

3 Connecting to the gateway

Web server

The gateway has an integrated web server. It provides the graphical user interface (GUI) in the form of websites. This interface can be used to configure the gateway.
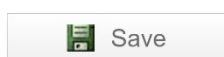
Changes must be saved by clicking <Save>. After making changes to the network configuration, it is sometimes necessary to restart the gateway.

Note:
In order to follow this manual correctly, the web server language must be set to English by clicking the symbol.

Under **factory settings**, the web server is accessible at the following address:

IP Address	169.254.0.1
Subnet mask	255.255.0.0
User name	gw
Password	GATEWAY

Network connection

To configure the gateway, it is connected to the computer via a network.

The computer's LAN connection must be configured correctly. To set the network address manually, define the IP address as 169.254.0.2, for example. The subnet mask must match that of the gateway.

> **Note:**
>
> If the gateway is connected to the computer directly via a network cable, as a rule, a connection will be established via Automatic Private IP Addressing (APIPA). The computer's IP address then automatically falls within a reserved address range of 169.254.x.x, enabling direct connection to the gateway without having to configure the network manually.

Configuration interface

Enter the following address in a web browser to load the configuration screen: **http://169.254.0.1**
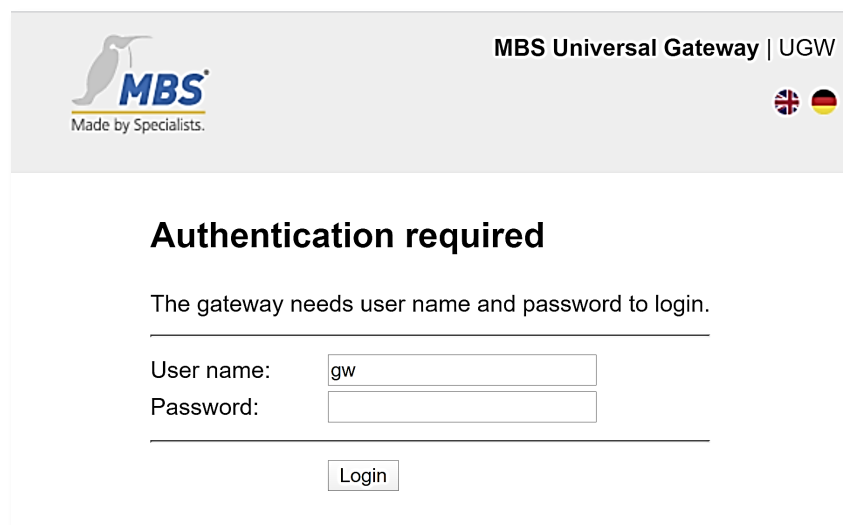
> **Note:**
>
> Always use the <REFRESH> button to update the display in the web server.
>
> Using the web browser's standard *refresh button* will log you out of the web server.

Login

You must enter your username and pre-set password to log into the web server. You can change your password after logging in under GENERAL / USER / ...

MBS Universal Gateway | UGW

Made by Specialists.

Authentication required

The gateway needs user name and password to login.

User name:	gw
Password:	

Login

4 Updating the operating system

General

Duration	The update takes up to **20 minutes** from reboot.
General conditions	While the update is in progress, the gateway cannot perform its function in the overall system. Appropriate precautions must be taken in the system/infrastructure.
Requirements	The power supply of the gateway must be guaranteed to be **absolutely uninterruptible**.

> **!** **Note:**
>
> Interrupting the power supply during the update process may damage the operating system.

Preparation

0. Data backup	We recommend backing up all data before performing the update. This allows you to restore the current gateway configuration at any time.
	After logging in to the gateway, the option GENERAL / DATA BACKUP / *Create gateway data backup* the possibility of data backup is available..
	Clicking **\<Start\>** will download the file ***ugwbackup.tgz*** onto the computer.
	The backup is now complete.
1. Update file	The update file (*.upd) approved for the device, must be downloaded from the manufacturer's download page provided for this purpose.

The file must be saved onto the computer connected to the gateway.

> **!**
>
> | **Note:** |
> | --- |
> | Using unapproved update files may damage the operating system. |

Update process

2. Upload

After logging on to the gateway, the option to update the software is available under GENERAL / UPDATE / *Software Update*.

License request	License upgrade	**Software update**	Driver configuration

Please upload software updates here. Only original files provided by MBS ensure proper operation. The file extension has to be ".upd". The uploaded update file is activated after restarting the gateway. The gateway's configuration is not affected.

Current version:	V5_00_02

Datei auswählen Keine ausgewählt	✖

🔁 Start

With **<Select file>** the file stored on the computer is taken over. The file type is always *.upd, the file name varies depending on the version and the device type.

3. Start

Clicking **<Start>** will start the update process. Once started, the update should not be interrupted.
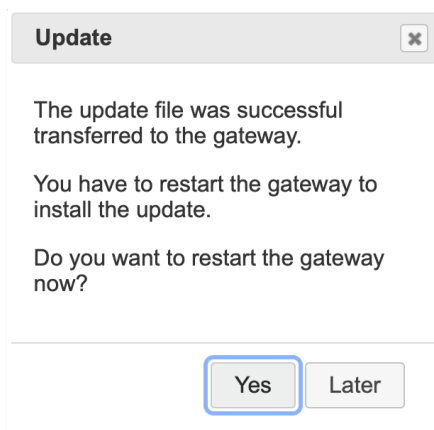
> **!**
>
> | **Note:** |
> | --- |
> | As previously instructed, on the uninterrupted power supply during the process must be followed here as a matter of urgency! |

4. Restart

After the successful upload of the update file, the message appears that the gateway must be restarted.

You can restart the gateway by clicking in the infobox or by going to GENERAL / RESTART / ... in the menu.

> **Note:**
>
> In no case may the restart be performed in any other way - for example by interrupting the power supply!
>
> This may damage the operating system.

The reboot takes up to 20 minutes. During this time, the actual reinstallation of the operating system takes place.

The status LED should blink or stay unilluminated throughout the whole update process. This is normal and does not signify a fault.

The gateway's webserver is partially accessible during the update process. This does not mean, however, that the update has been successfully completed.

It is mandatory to wait for the above times, before further actions are taken!

!

> **Note:**
>
> Logging in to the gateway while the update process is still ongoing may interrupt the process and cause it to fail.
>
> This may damage the operating system.

After the restart is complete, logging in to the configuration interface can be done with the original login data.

The update does not affect the gateway configuration.

> **Note:**
>
> If the configuration no longer corresponds to the status before the update, the original configuration can be restored with a previously created data backup.
>
> This will not affect the operating system update.

End

Finally, the result of the update must be checked.

The update was successful, if the new version is displayed in the configuration interface under HELP / DEVICE INFO /...:

GW version: **e.g.** *V5_00_03*

OS version: **e.g.** *V5_00_03*

Last update: **OK**

If the update was unsuccessful or if you have any other questions, please contact our product support team directly.

5   Product support

Manufacturer	MBS GmbH Römerstraße 15 47809 Krefeld
Telephone	+49 21 51 72 94-0
Fax	+49 21 51 72 94-50
E-Mail	support@mbs-solutions.de
Internet	www.mbs-solutions.de
	wiki.mbs-software.info
Service Times	Monday to Friday: 8:30 bis 12:00 13:00 bis 17:00

6   Legal information

Copyright protection   This document is protected by copyright. Reproduction, reprinting, even of extracts, as well as reproduction of the images, even in a modified state, is only permitted with the written consent of the manufacturer.

Warranty   These instructions must be read carefully before mounting, commissioning, configuration and updates of the device. The warranty entitlement lapses if the device is installed by untrained personnel. Harm caused by disregarding the allowable connected loads and ambient conditions or by using unsuitable tools is also excluded.

Limitation of liability

All information and notes in this manual were compiled taking the applicable standards and regulations, best engineering practice and the manufacturer's extensive knowledge and experience into consideration.

The manufacturer assumes no liability for indirect and direct damage due to:

- Ignorance of this manual

- Improper use

- Use of untrained personnel

- Damage due to incorrect installation

- Unauthorised modifications to the hardware and software

- Use of non-approved components

The obligations agreed in the delivery contract, the general terms and conditions as well as the manufacturer's delivery conditions and the legal regulations applicable at the time of the conclusion of the contract apply.

Imprint

Manufacturer:

MBS GmbH, Römerstraße 15, 47809 Krefeld

Managing Directors:

Martin Brust-Theiß, Gerhard Memmen-Krüger, Nils-Gunnar Fritz

Register court: Krefeld HRB 3337; VAT. IdNr.: DE 120 148 529

Headquarters: Krefeld

Responsible for content according to § 5 TMG and § 55 RStV:

Martin Brust-Theiß, Gerhard Memmen-Krüger, Nils-Gunnar Fritz