



Password Handling in Lightware Devices

APPLICATION NOTES

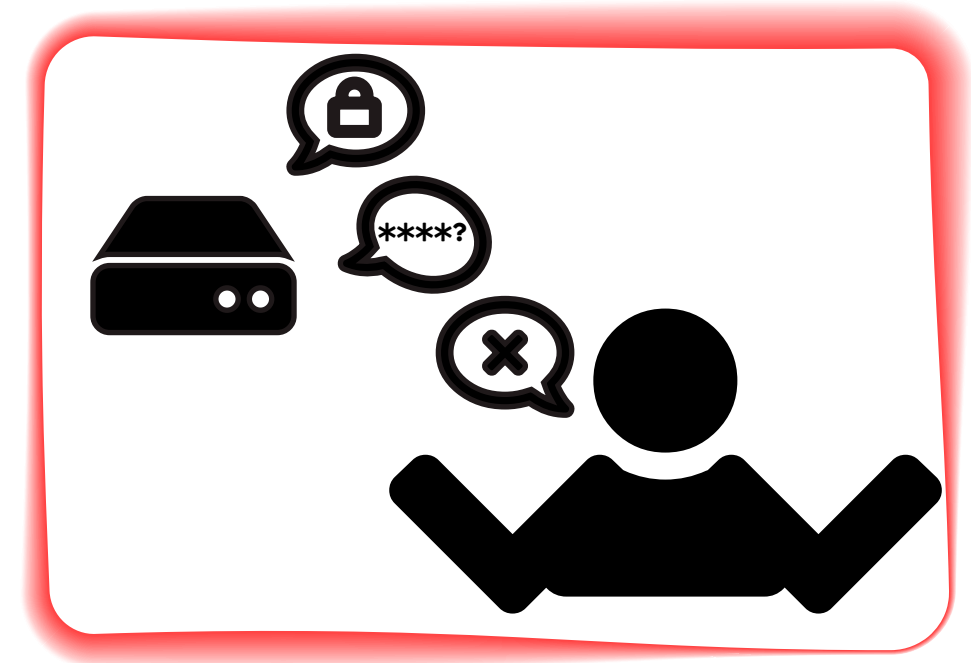


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1

Setting a Password

Some of the different password options offered by Lightware devices.

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1.1. Cleartext Login

The **Cleartext Login** tool allows setting a password for login, thus the device will not accept any command coming from an interface (RS-232, Ethernet, etc...), only the device type and the serial number can be queried without login. You can set all affected TCP/IP ports individually to enable or disable. The login is valid until a TCP socket break in case of Ethernet connection.

Cleartext login is available on ports 81 for LW3 control (miniweb) and 6107 for LW3 protocol.

DIFFERENCE: Cleartext login is available in the devices compatible with Advanced Control Pack v3 in TPS family, UMX-HDMI-140 series and VINX series extenders, MMX8x4-HT series, MMX8x8-HDMI series, MMX4x2 series matrices.

INFO: The login password is erased and the login is disabled when restoring the factory default values.

The following can be queried without login:

- ProductName
- PartNumber
- SerialNumber
- FirmwareVersion
- PackageVersion
- MacAddress

1.2. Basic Authentication

1.2.1. Taurus UCX Family

UCX-HC60 series models receive a **unique random generated default password** during manufacturing, and it is tied to the serial number of your device. This password is required to access your device and you will be prompted to change it after successful login. Your password will revert to this unique password after **calling factory default settings**, so it is highly recommended to keep a record of your credentials for each device.

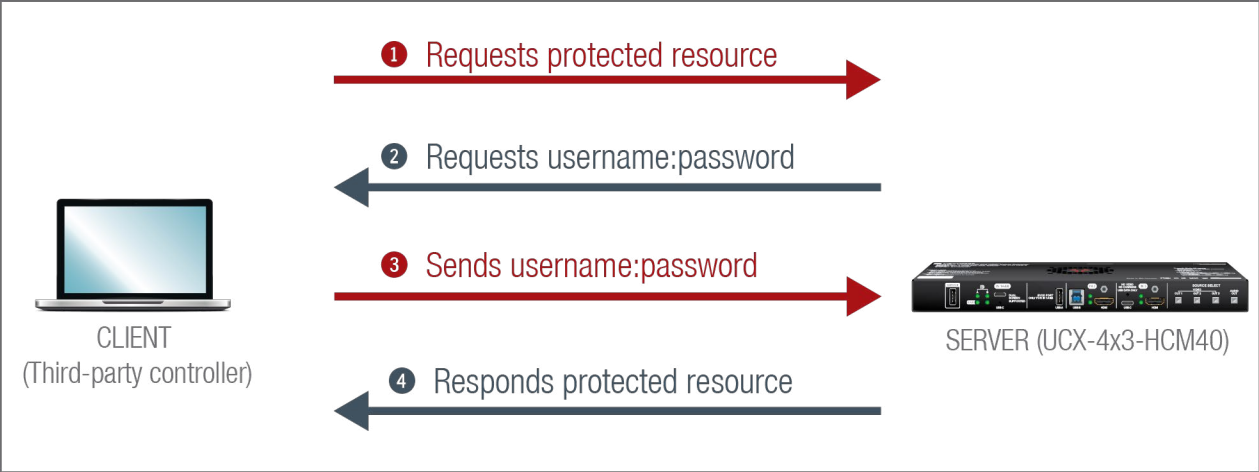
In case of most older models, default password **Lightware10g** has been introduced to increase security of the devices. From these versions on, the password will revert to this after calling factory default settings. Authentication is enabled and HTTP port is disabled by default as well. This only takes effect **following the first factory reset** after the update. The FW versions where each device group received this feature can be seen in the following table:

Model	FW version	LDC version	Password
UCX-HC30 models	v2.16.0	v2.20.0	Lightware10g
UCX-HC40 models	v2.22.9		
UCX-4x3-HCM40	v1.5.0		
UCX-3x3-TPX-RX20	v1.8.0		
UCX-TPX/TPN-TX20 models	v1.19.0		

To limit user access for HTTP/HTTPS server services, basic authentication can be turned on for the ports 80 and 443 separately.

ATTENTION: Authentication feature in UCX series is not equal to the Cleartext login feature in the Advanced Control Pack v3 of the TPS family extenders.

The picture below illustrates the successful authentication process:



User

- The switcher can manage one user (with fixed username: **admin**) with full access.

Password

- **In UCX-HC30 models:** Prior to FW version **v2.16.0**, no password is set by default, the authentication can be enabled after setting a password. **From FW version v2.16.0**, there is a default password, **Lightware10g**, set on the device that is recommended to be changed after the first login.
- **In UCX-3x3-TPX-RX20 models:** Prior to FW version **v1.8.0**, no password is set by default, the authentication can be enabled after setting a password. **From FW version v1.8.0**, there is a default password, **Lightware10g**, set on the device that is recommended to be changed after the first login.
- **In UCX-TPX/TPN-TX20 models:** Prior to FW version **v1.19.0**, no password is set by default, the authentication can be enabled after setting a password. **From FW version v1.19.0**, there is a default password, **Lightware10g**, set on the device that is recommended to be changed after the first login.
- **In UCX-HC60 models:** The device is assigned a **random generated unique password** during the manufacturing process. This password will be needed to log into the device after a factory reset.
- The old password is is required when password is changed.
- From firmware version v2.2.0, the password must be at least 10 characters long, and any UTF-8 character is allowed.
- From firmware version v2.11.0, password history is maintained in the web authentication, not allowing for the last 10 passwords to be set again.
- If a wrong password is entered during login five times in a row, all login attempts are denied for 15 minutes.
- The device does not store the password string, so it can not be queried.
- The password can be reset by calling factory defaults.

Follow the instructions to set the authentication:

Step 1. Set the password with Lightware Device Controller software or REST API command.

Step 2. Enable the authentication on the chosen port (HTTP: 80 or HTTPS: 443) with the Lightware Device Controller software or LW3 protocol command.

Step 3. Restart network services (in case of UCX models).

ATTENTION: The password will not be encrypted by this authentication mode, it remains accessible when the communication happens on HTTP.

1.2.2. MMX2 Models

From FW version **v2.15.0**, there is a factory default password (**Lightware10g**) applied to the device. From this FW onward, this password will be required for authentication **after calling factory default values**. HTTP will also be disabled by default.

INFO: If you do not have a password set or if you have your own password already set on your device, the firmware update **will not** invalidate it! The factory default password will only take effect **after the first factory reset** called on the device. The value, however, will always return to **Lightware10g** after a factory reset from this FW onward.

To limit user access for HTTP/HTTPS server services, basic authentication can be turned on for 80 and 443 ports separately.

1.2.3. TPN-MMU Models

TPN-MMU models receive a **unique random generated default password** during manufacturing, and it is tied to the serial number of your device. This password is required to access your device and you will be prompted to change it after successful login. Your password will revert to this unique password after **calling factory default settings**, so it is highly recommended to keep a record of your credentials for each device.

Authentication is enabled by default. HTTP is disabled.

User

- The switcher can manage one user (with fixed username: **admin**) with full access.

Password

- The device is assigned a **random generated unique password** during the manufacturing process. This password will be needed to log into the device for the first time after a factory reset.
- The old password is required when password is changed.
- The password must be at least 10 characters long, and any UTF-8 character is allowed.
- Password history is maintained in the web authentication, not allowing for the last 10 passwords to be set again.
- If a wrong password is entered during login five times in a row, all login attempts are denied for 15 minutes.
- The device does not store the password string, so it can not be queried.
- The password can be reset by calling factory defaults.

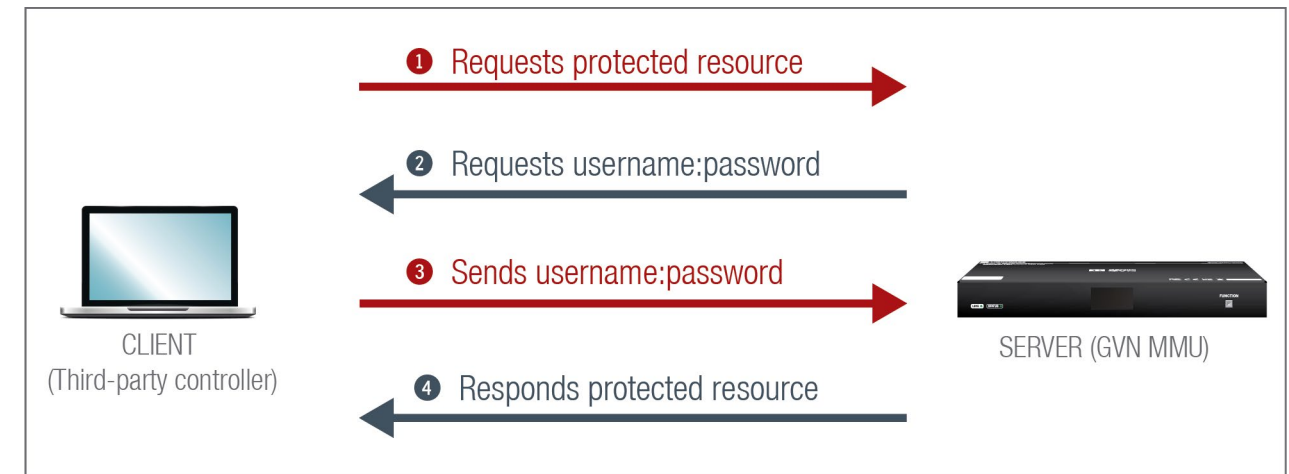
If you forget your password, see the [TPN-MMU Models](#) section for steps to take.

1.2.4. Gemini GVN Family

DIFFERENCE: Basic authentication is available from FW version v1.5.0 and LDC version v2.18.0.

To limit user access for HTTP/HTTPS server services, basic authentication can be turned on for the ports 80 and 443 separately.

The picture below illustrates the successful authentication process:



User

- The MMU can manage one user (with fixed username: **admin**) with full access.

Password

- Prior to FW version v2.0.0, no password is set by default, the authentication can be enabled after setting a password.
- From FW version **v2.0.0**, the default password **Lightware10g** is applied to the device, and authentication is enabled by default.
- The old password is required when password is changed.
- The password must be at least 10 characters, at most 100 characters long, and any UTF-8 character is allowed.
- If a wrong password is entered during login three times in a row, all login attempts are denied for 10 minutes.
- The device does not store the password string, so it can not be queried.
- The password can be reset by calling factory defaults

Follow the instructions to set the authentication:

Step 1. Set the password with Lightware Device Controller software.

Step 2. Enable the authentication on the chosen port (HTTP: 80 or HTTPS: 443) with the Lightware Device Controller software or LW3 protocol command.

ATTENTION: The password will not be encrypted by this authentication mode, it remains accessible when the communication happens on HTTP.

If you forget your password, see the [Gemini GVN Family](#) section for steps to take.

1.3. Factory Default Password

1.3.1. Taurus UCX Family

UCX-HC60 Models

UCX-HC60 models have a **random generated factory default password** applied to the device during the manufacturing process. This unique password is supplied on a sticker along with the device.

The sticker containing the password may either be supplied in the box alongside the device, or if it has been manufactured after 18 November 2025, it can be found on the device enclosure.

Some of the sticker designs can be seen here:



INFO: The QR code on this label shows the password.

After a factory reset, you will need the Username (admin) and the unique generated default password to login. After successfully logging into the device, you will be prompted to change the password.

If you forget your password, see the [Taurus UCX Family](#) section for steps to take.

UCX-3x3-TPX-RX20 Models

From firmware version **v1.8.0**, UCX-3x3-TPX-RX20 models are equipped with the factory default password **Lightware10g**. From this version onward, your password will revert to this following a factory reset.

If you update this firmware yourself, it is important to note that the factory default password will only take effect following **the first factory reset**.

If you have a password set for the device before updating, it will not be overwritten until the next factory reset.

UCX-TPX/TPN-TX20 Models

From firmware version **v1.19.0**, UCX-TPX/TPN-TX20 models are equipped with the factory default password **Lightware10g**. From this version onward, your password will revert to this following a factory reset.

If you update this firmware yourself, it is important to note that the factory default password will only take effect following **the first factory reset**.

If you have a password set for the device before updating, it will not be overwritten until the next factory reset.

UCX-HC40 Models

From firmware version **v2.22.9**, UCX-HC40 models are equipped with the factory default password **Lightware10g**. From this version onward, your password will revert to this following a factory reset.

If you update this firmware yourself, it is important to note that the factory default password will only take effect following **the first factory reset**. If you have a password set for the device before updating, it will not be overwritten until the next factory reset.

UCX-4x3-HCM40 Models

From firmware version **v1.5.0**, UCX-4x3-HCM40 models are equipped with the factory default password **Lightware10g**. From this version onward, your password will revert to this following a factory reset.

If you update this firmware yourself, it is important to note that the factory default password will only take effect following **the first factory reset**. If you have a password set for the device before updating, it will not be overwritten until the next factory reset.

UCX-HC30 Models

From firmware version **v2.16.1**, UCX-HC30 models are equipped with the factory default password **Lightware10g**. From this version onward, your password will revert to this following a factory reset.

It is important to note that the factory default password will only take effect following **the first factory reset**. If you have a password set for the device before updating, it will not be overwritten until the next factory reset.

1.3.2. MMX2 Models

From FW version **v2.15.0**, there is a factory default password (**Lightware10g**) applied to the device. From this FW onward, this password will be required for authentication **after calling factory default values**. HTTP will also be disabled by default.

1.3.3. TPN-MMU Models

TPN-MMU models have a **random generated factory default password** applied to the device during the manufacturing process. This unique password is supplied on a sticker on the device enclosure along with the username and the serial number.

INFO: The QR code on the label with the credentials shows the password.

After a factory reset, you will need the Username (admin) and the unique generated factory default password to login. After successfully logging into the device, you must change the password.

If you forget your password, see the [TPN-MMU Models](#) section for steps to take.

1.3.4. GVN-MMU Models

From FW version **v2.0.0** GVN MMU is equipped with the default password **Lightware10g** that will be restored every time factory defaults are called from this FW onward.

ATTENTION: Changing this password after the first login is necessary.

INFO: Authentication is enabled and HTTP is disabled by default from this FW on.

2

Forgotten Password

Steps to take in case of a forgotten password to reclaim access to a device.

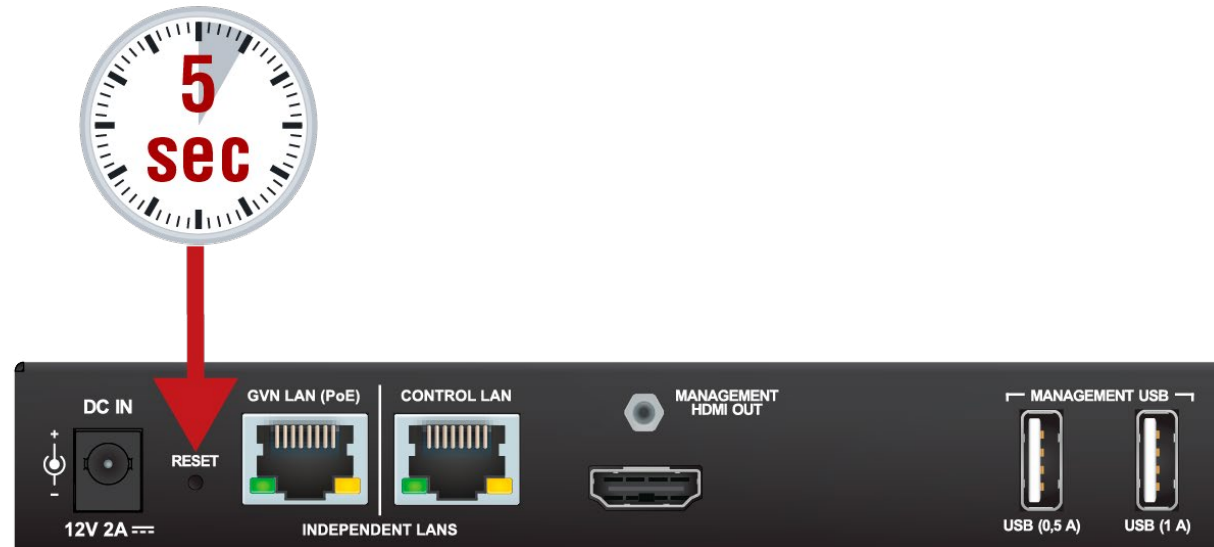
- ▶ Gemini GVN Family 8
- ▶ Taurus UCX Family 8
- ▶ TPN-MMU Models 9

2.1. Gemini GVN Family

If you forget the password set for the GVN-MMU-X100, you can restore factory default settings to reclaim access to the device.

2.1.1. GVN-MMU-X100

The hidden reset button on the rear side of the device can be pressed using a long, thin object.



Pressing the button for **5 seconds** will restore the factory default settings.

INFO: From FW version v2.2.0 the password will revert to **Lightware10g** after restoring factory default settings.

2.2. Taurus UCX Family

If you forget the password set for a device, you can regain access to it by calling factory default settings.

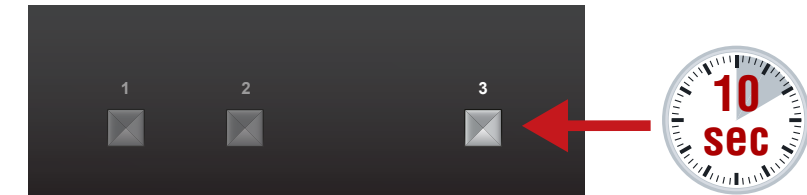
Factory default settings may be called by using the buttons on the front panel of the device:

Reset to Factory Default Settings

To restore factory default values, do the following steps: *#factory*

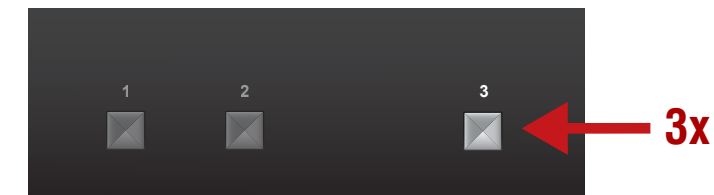
Step 1. Make sure the device is powered on and operational.

Step 2. Press and keep pressing the button labeled **3** for 10 seconds.



Step 3. After 5 seconds the front panel LEDs start blinking, but keep on pressing the button.

Step 4. After 10 seconds the LEDs start blinking faster; release the button and press it 3 times again quickly (within 3 seconds).



Step 5. The LEDs get dark, the device restores the factory default settings and reboots.

If You Forget the Unique Default Password

In case you forget your unique default password assigned to your UCX-HC60 series switcher, please refer to the sticker supplied with the device.

In case the sticker is unavailable, please contact support@lightware.com. Please note that the serial number will be required to reclaim your password for your device.

2.3. TPN-MMU Models

If you forget the password set for a device, you can regain access to it by calling factory default settings.

Factory default settings may be called by using the reset button on the rear panel of the device:

Reset to Factory Default Settings

Step 1. Prepare a thin and long tool (e.g. a pen, toothpick, piece of wire etc).

Step 2. Make sure the device is powered on and operational.

Step 3. Press and keep pressing the hidden **Reset** button using the tool for **5 seconds**.

Step 4. The LEDs get dark, the device restores the factory default settings and reboots.

If You Forget the Unique Default Password

In case you forget your unique default password assigned to your TPN-MMU device, please refer to the sticker supplied with the device.

In case the sticker is unavailable, please contact support@lightware.com. Please note that the serial number will be required to reclaim your password for your device.