Wx002-, WIx040-, WIx065-Series

Release Notes

System Software 7.6.2

Purpose

This document describes new features, changes, and solved problems of **System Software 7.6.2.**

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1 Important Information

Please read the following information about System software 7.6.2 carefully to avoid problems when updating or using the software.

1.1 Applicability

System software 7.6.2 is available only for the following devices and cannot be used on other devices:

- **W1002**

- **W2002**

- **WI1040**

- **WI2040**

- **WI3040**

- **WI1065**

- **WI2065**

- **WI3065**
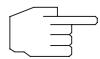
Note

Please note that new features, changes or the solution of a problem are only available on your device if the menu described is shown.

1.2 Update

In the **W1002** and **W2002** devices, where you run them with ACE, from **System software 7.6.2**, the operating system is changed to BOSS. Devices running **System software 7.6.1** have already completed this change. Devices in the **WI** series are already shipped with the BOSS operating system.

Configurations set up or saved with **System software 7.6.2** are therefore in-compatible with earlier versions of our System software that were set up under ACE.

Note — Note that, during an update, the configuration of your device will be lost.

The following table gives an overview of the available updates and update-mechanisms:

Device	Software currently run	New software	Mechanism
Wx002	ACE	7.6.2 Downgrade to ACE possible	**ComPoint Manager** and FCI or console
	7.5.1	7.6.2 Downgrade to ACE possible	Console or FCI
WIx040	7.5.1	7.6.2 Downgrade to ACE not possible	Console or FCI
WIx060	7.5.1	7.6.2 Downgrade to ACE not possible	Console or FCI

1.2.1   Preparation and update (W1002 and W2002)

When updating to System software 7.6.2, the operating system is, where appropriate, automatically changed from ACE to BOSS.

Note — If you already run **System software 7.5.1** on your device, proceed with your update as described for devices in the **WI** series (see "Preparation and update (WI series)" on page 12).

Carry out the update as follows:

Update preparation
1. For the update you will need, for the device **W1002**, the file *W1002_boss_s7602b01,afw* or, for the device **W2002**, the file *W2002_boss_s7602b01,afw* (the beta number (...*b01*) may be different).

In addition, you will need the file W1002_Blup_LED_SCHEME.w1p or W2002_Blup_LED_SCHEME.w2p, as appropriate, to enable the LEDs of the device following the update.

Ensure that the program **ComPoint Manager** from Artem and the files that you need for the update are available on your PC.

If the program and/or the two files are not available on your PC, enter www.funkwerk-ec.com in your browser.

The Funkwerk homepage will open. In the download-area for your device you will find the required program and files.

2. Install the program on your computer.
Alternatively, you can load the program from the CD-ROM delivered with your access point.

3. Save the two files on your PC.

4. Ensure that the access point on which you wish to make the update is in the same network as the PC on which the **ComPoint Manager** program is installed.

5. Start the **ComPoint Manager**.
The **ComPoint Manager** discovers the access points installed on the network and shows them as a list in its main window.

6. If the device on which you wish to make the update does not yet have an IP address, assign it an IP address in your network in the **ComPoint Manager** under *CONFIGURATION ➜ IP SETTINGS*.

7. In the window that follows, enter the password for the user Admin if this has not been entered in the **ComPoint Manager** under *TOOLS ➜ PASSWORD*.

Boot configuration backup

Back up the current boot configuration for any later downgrade. Proceed as follows:

1. In the **ComPoint Manager**, select in the list the device for which you wish to backup the boot configuration.

2. In the **ComPoint Manager**, select *CONFIGURATION* ➜ *SAVE CONFIGURATION*.

3. If asked to do so, enter the password.
   The *SAVE AS* window will open.

4. Select the desired folder, the filename can remain unchanged. Click on **Save**.
   You will see the message "Device configuration successfully saved."

5. Confirm with **OK**.
   The configuration will now be found in the selected folder.

Carrying out the update

Carry out the update as a firmware upgrade with the **ComPoint Manager**.

The result of interrupted updating operations could be that your access point no longer boots. Do not turn your access point off during the update!

Attention!

1. In the main window of the **ComPoint Managers**, click on the device in the list for which you wish to carry out the update.

2. Select *CONFIGURATION* ➜ *LOAD FIRMWARE*.

3. Click on **Select software**.

4. Click on **Browse**, select the folder containing the files and click on **OK**.
   The desired file(s) will be shown.

5. Depending on the device, select the desired firmware, i.e. *W1002_boss_s7602b01,afw* for **W1002** or *W2002_boss_s7602b01,afw* for **W2002**, click on **OK** and then click on **Upload firmware**.
   The **ComPoint Manager** will check whether the selected firmware is suitable for the device and, if so, upload it.

In accordance with the BOSS-standard, the serial interface will automatically be set to Baudrate 9600, 8-bit data, no parity, 1 stop bit, no handshake.
You will see the message "Reboot to activate newly loaded firmware."

6. Select the option "Reboot now (recommended)" and click on **OK**.
    The device will reboot.

Note

The device will reboot with the new software and the default-IP address *192.168.0.252* but with no configuration. The LEDs will not be enabled.

After the update from ACE to BOSS, you can use only the following functions of the **ComPoint Manager**:

■   *Discovery Server*

■   *IP configuration*

Under BOSS, all other configuration options are accessed with the **Funkwerk Configuration Interface**.

Enabling the LEDs   To enable operation of the LEDs, you must upload the file W1002_Blup_LED_SCHEME.w1p or W2002_Blup_LED_SCHEME.w2p, according to the device.

1. Ensure that your PC is on the same network as the access point on which you wish to enable the LEDs. If necessary, assign a suitable second IP address to your PC in the network settings.

2. Enter the default-IP address of your device *192.168.0.252* in a browser.
    The browser window will open.

3. Log into your device with the username *admin* and the password *funkwerk* and click on **Login**.
    The Status-page of the **Funkwerk Configuration Interface** will open.

4. Make sure that the language setting is *English*.

5. Click on *MAINTENANCE* ➜ *SOFTWARE UPDATE*.

6. In the *UPDATE MECHANISM* field, select the value *Local file* and click on the **Browse** button.

7. Click on the desired filename, e.g. *W1002_Blup_LED_SCHEME.w1p* and then on **Open**.

8. Now click on **Go**.

   The message "Router Maintenance. Please stand by. Operation in progress." shows that the selected file is being uploaded to the device. When the upload procedure is finished, you will see the message "Router maintenance. Success. Operation completed successfully. The router must be restarted."

9. Click on **Reboot**.

   The device will start with the LEDs lit. The browser window will open.

You can log into your device and configure it.

Downgrade   **In the event of a downgrade, the operating system is automatically changed from BOSS to ACE.**

For this procedure, you will need, according to the device, the file *W1002_ace_6_15,w1p* or *W2002_ace_6_15,w2p,* which you will find under www.funkwerk-ec.com (see "Update preparation" on page 7).

Note

Note that, during a downgrade, the configuration of your device will be lost. After a downgrade, you will only be able to use the configuration that you backed up before the update.

Attention!

The result of interrupted downgrade operations could be that your access point no longer boots. Do not turn your access point off during the downgrade!

Downgrading   If you wish to carry out a downgrade from **System software 7.6.2**, proceed as follows:

1. Enter the IP address of your device in a browser.
   The browser window will open.

2. Log into your device with your username and password and click on **Login**.

3. Make sure that the language setting is *English*.

4. Click on *MAINTENANCE* ➜ *SOFTWARE UPDATE*.

5. In the *UPDATE MECHANISM* field, select the value *Local file* and click on the **Browse** button.

6. Click on the desired filename, e.g. *W1002_ace_6_15,w1p* and then on **Open**.

7. Click on **Go**.
The process will take a few minutes, during which you will see the message "Router maintenance. Please stand by. Operation in progress." The message "Router-Maintenance. Success. Operation completed successfully. The router must be restarted" shows that the upload process has finished.

8. Click on **Reboot**.
This can take a few minutes. The device will start with the Status LED showing green.

Note

With the **ComPoint Manager**, you can discover the access point. The device can no longer be reached with the browser.

Configuration upload

After the downgrade to ACE, you can upload to your device the configuration that you hopefully backed up before the update to BOSS.

1. Start the **ComPoint Manager**.
The **ComPoint Manager** will open. It discovers the access points installed on the network and shows them as a list in its main window.

2. In the **ComPoint Manager**, under *CONFIGURATION* ➜ *IP SETTINGS* assign an IP address in your network range to your device.

3. In the list, select the device to which you wish to upload the backup configuration.

4. In the **ComPoint Manager**, select *CONFIGURATION* ➜ *UPLOAD CONFIGURATION*.

5. When asked, enter the password for the user Admin.
The window *OPEN...* will open.

6. Select the desired file. Click on **Open**.
You will see the message "Upload configuration (version *x.xx*) to the device (version *x.xx*) and reboot?"

7. If the two version numbers are the same, proceed with these settings with
   Yes.
   The configuration will be uploaded to the device.
   You will see the message "Configuration successfully uploaded."

8. Click on **OK**.
   You can use the configuration in your device.

1.2.2   Preparation and update (WI series)

**Devices in the WI series are already shipped with System software 7.5.1
so that configuration and maintenance via the Funkwerk Configuration In-
terface is available, making it simple to update the software. This makes
an update possible in two ways.**

Update preparation

1. For the update, you will need, for devices of the **WI** series, the file
   bl7601b04,iny (the beta number (...*b04*...) may be different).
   Ensure that the program **ComPoint Manager** from Artem and the file that
   you need for the update are available on your PC.
   If the program and/or the file are not available on your PC, enter
   www.funkwerk-ec.com in your browser.
   The Funkwerk homepage will open. In the download-area for your device
   you will find the required program and files.

2. Install the program on your computer.
   Alternatively, you can load the program from the CD-ROM delivered with
   your access point.

3. Save the two files on your PC.

4. Ensure that the access point on which you wish to make the update is in the
   same network as the PC on which the **ComPoint Manager** program is in-
   stalled.

5. Start the **ComPoint Manager**.
   The **ComPoint Manager** discovers the access points installed on the net-
   work and shows them as a list in its main window.

6. If the device on which you wish to make the update does not yet have an
   IP address, assign it an IP address in your network in the **ComPoint
   Manager** under *CONFIGURATION* ➜ *IP SETTINGS*.

7. In the window that follows, enter the password for the user Admin if this has not been entered in the **ComPoint Manager** under *TOOLS* ➜ *PASSWORD*.

Note

You can now use the following functions of the **ComPoint Manager**:

■ *Discovery Server*

■ *IP configuration*

Under BOSS, all other configuration options are accessed with the **Funkwerk Configuration Interface**.

Update via the Funkwerk Configuration Interface

The simplest way to carry out an update is via the **Funkwerk Configuration Interface**, using the *MAINTENANCE* ➜ *SOFTWARE & CONFIGURATION* menu.

If you wish to carry out an update, proceed as follows:

1. Backup the current boot configuration using the *MAINTENANCE* ➜ *SOFTWARE & CONFIGURATION* menu:
   a) Under *ACTION*, select *Export Configuration*.
   b) Leave all other settings and click on the **Go** button.
   c) To save the file on your PC, follow the instructions in your browser.

2. Stay in the *MAINTENANCE* ➜ *SOFTWARE & CONFIGURATION* menu.

3. In the *ACTION* field, select *Update System Software*.

4. As *SOURCE* for the update, select *Current software from Funkwerk server*. The system file is on the official funkwerk update server.

5. Click on the **Go** button. Your request will be processed.
   The process takes a few minutes. The message "System maintenance. Success. Operation completed successfully. The system must be restarted" shows that the process has finished.

6. Click on **Reboot**.
   The device will start; you can log into your device.

Other possibilities for carrying out the update:

1. As *SOURCE* for the update, select *Local file* (default value). The system file is stored locally on your PC. For the update, you need, for devices of the **WI** series, the file *INY\Blup\bl7601b04,iny*, which you will find under www.funkwerk-ec.com.

2. Enter the path and name of the file or select the file with **Browse...** via the explorer/finder.

3. Click on the **Go** button. Your request will be processed.
   The process takes a few minutes. The message "System maintenance. Success. Operation completed successfully. The system must be restart-ed" shows that the process has finished.

4. When the process is finished, click on **Reboot**.
   The device will start and you can log into your device.

Alternatively, under *SOURCE*, you can select *HTTP server*. You enter the *URL* of the update server from which the software file is loaded here.

Update via the command line

To prepare and carry out an update to **System software 7.6.2**, proceed as fol-lows:

1. Backup the current boot configuration. Use one of the following possibili-ties:
   a) In the SNMP shell, enter cmd=save path=boot.alt. This backs up the current boot configuration in the flash ROM of your access point under the name "boot.alt".
   b) On a computer on your LAN, start a TFTP server and export the current boot configuration using the *CONFIGURATION MANAGEMENT* menu of the Set-up tool. To do this, select:
   – *OPERATION* = *put (FLASH -> TFTP)*
   – *TFTP SERVER IP ADDRESS* = *<IP-address of the TFTP servers on the LAN>*
   – *TFTP FILE NAME* = *boot.alt*
   – *NAME IN FLASH* = *boot*

2. Carry out the update to **System software 7.6.2** with the BLUP (Bintec Large Update) named above to update all necessary modules.
   The update using the BLUP runs as follows:

```
wi3040:> update <IP address of the TFTP server>
/INY/Blup/bl7601b04,iny
Starting TFTP File Transfer .......................................
...................... (139320+4887788 Bytes)
List of files in this update (len 4887788):
  Version    Length  Name
7.6.2.400   4048577  Boss
7.6.2.400    774792  webpages.ez
7.6.2.400    182462  text_ger.ez

*** Don't power-off while the update takes place ***

Perform update (y or n)?
```

Here, the software modules contained in the BLUP are listed:

■ BOSS - the operating system itself

■ webpages.ez - the HTML configuration interface

■ text_ger.ez - the German localisation of the HTML interface.

If you confirm with *y*, all those elements are updated that are newer in the BLUP than on your access point. When updating to **System software 7.6.2** this will, as a rule, be all three modules.

The update then takes place for all modules concerned:

```
Updating Boss
Erasing Flash ROM
............................................................OK
Writing Flash ROM
............................................................OK
Verifying Flash ROM
............................................................OK

Software update successfully finished

Updating webpages.ez

Perform Flash ROM update
Update Flash ROM ............ OK
Verify Flash ROM ............ OK

File update successfully finished

Updating text_ger.ez

Perform Flash ROM update
Update Flash ROM . OK
Verify Flash ROM . OK

File update successfully finished

Rebooting... (y or n) [n] ?
```

After the reboot, you have the new software version available. You can access it using a supported Web browser under the IP address of the access point. If you have deleted the boot configuration, the access point will again have the default address *192.168.0.252*.

Downgrade   If you wish to carry out a downgrade, proceed as follows:

1. Replace the current boot configuration with the previous backup version. Use one of the following possibilities:

    a) In the SNMP shell, enter `cmd=move     path=boot.alt pathnew=boot`. This overwrites the current boot configuration with the previous backup version. The configuration named "boot.alt" is thereby deleted from the flash ROM (if you want to keep this in the flash, use `cmd=copy` instead of `cmd=move`).

    b) On a computer on your LAN, start a TFTP server and import the current boot configuration using the *CONFIGURATION MANAGEMENT* menu of the Setup tool. To do this, select:

    –   *OPERATION* = get (TFTP -> FLASH)
    –   *TFTP SERVER IP ADDRESS* = *<IP-address of the TFTP servers on the LAN>*
    –   *TFTP FILE NAME* = *boot.alt*
    –   *NAME IN FLASH* = *boot*

2. Carry out the downgrade to the desired software version.

3. Reboot the access point. The device will start with the previously backed up boot configuration and the old version of the system software.

2   New Feature

System software 7.6.2 supports **WiLMA**.

2.1   WiLMA Support

System software 7.6.2 supports the use of our Wireless LAN Management System WiLMA for all devices of the Wxoo2 Series and of the WI Series. WiLMA allows administrators to easily operate and maintain WLAN infra-structures. Devices can be inventoried and grouped into projects and groups. Updates und remote maintenance become easier. Further infor-mation about WiLMA is available at www.funkwerk-ec.com**.**