

LINORTEK Software Update



LINORTEK Software Update Instructions

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LINORTEK Software Update



Specifications

• Device Categories:

- Netbell-2
- Netbell-K
- Netbell-NTG
- Fargo & Koda
- WFMN-Di/ADi
- Ultra 300
- eIO-CPU

Product Usage Instructions

Required Downloads

- Discoverer program (for locating devices on your network)
- Bootloader program (for loading SERVER software) – [Download Link](#)
- SERVER software (.cry file) specific to your device
- Webpage software (.bin file) – [Download Link](#)

Updating SERVER Software

1. Use Discover tools to locate your SERVER on the network.
2. Program the device by following the steps provided in the manual.
3. Reset the SERVER once programming is complete.

Updating Webpage Software

Option 1: Using Discoverer – Check Upload Webpages box in Discoverer, select your device, choose the .bin file, upload, and wait for MPFS Updated Successful message.

Required Downloads

- Discoverer program (for locating devices on your network)
- Bootloader program (for loading SERVER software) – [Download Link](#)
- SERVER software (.cry file) specific to your device

Update Steps

1. Login via Telnet.
2. Run the command: upgrade.
3. If successful, the device will automatically reboot.

Software Update Instructions

Important Preliminary Notes

Before beginning any software update:

1. **You MUST update BOTH (When there are differences for some specific devices, they will be noted in the text):**
 - SERVER software (.cry file)
 - Webpage software (.bin file)
2. **Software compatibility notice:**
 - You cannot load Netbell software onto an Hourmeter or regular I/O controller. The software type is hard-coded to the device at the factory.

Device Categories

These instructions cover the following controller types:

- Netbell-2
- Netbell-K
- Netbell-NTG
- Fargo & Koda
- WFMN-Di/ADi
- Ultra 300
- eIO-CPU

Update Instructions by Device Type

A. For Netbell-2, Netbell-K, Netbell-NTG, FARGO, and KODA Controllers

1. Required Downloads

- Before starting the update process, download these essential files to your computer:
- **Support Programs:**
 - Discoverer program (for locating devices on your network)
 - Bootloader program (for loading SERVER software). Download link:

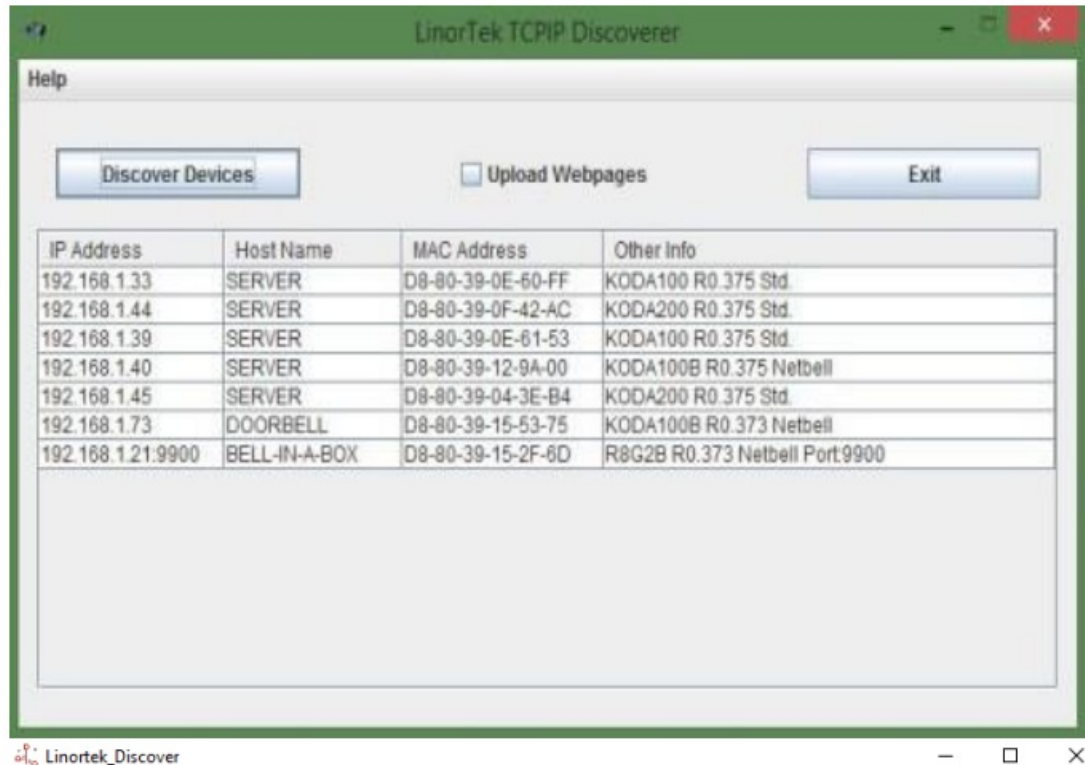
<https://www.linortek.com/downloads/support-programming/>

- **Software Files:**

- SERVER software (.cry file) – specific to your device
- Webpage software (.bin file.) Download link: <https://www.linortek.com/downloads/software-update/>

2. Updating SERVER Software

- Use one of our Discover tools (Windows-based or Java-based) to help locate your SERVER on the network. Click the line with the SERVER you want to update and the Discoverer will automatically open your browser to this device.



Enter Port
30303

☐ Upload Webpages

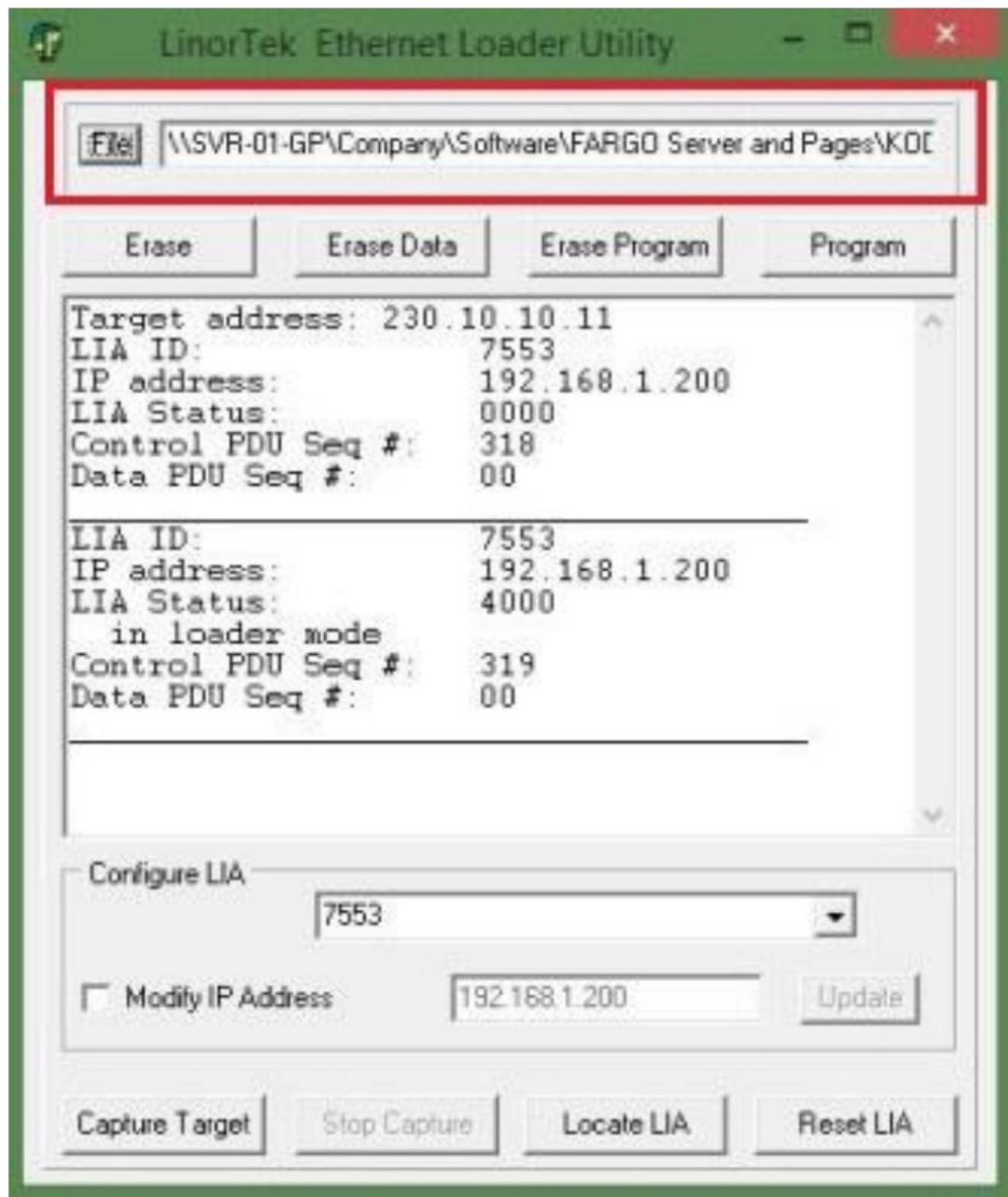
Refresh

IP Address	Host Name	MAC Address	Other Info
172.16.3.89:9090	SERVER	74-D5-C6-82-D8-44	BlueLED R4G2DI R0.388 DSI
172.16.2.184:8009	CPUtestpage	fc:0f:e7:cd:ed:f3	ULTRA300 Vmpfsh
172.16.2.69:443	Server	fc:0f:e7:cd:ef:7e	ULTRA300 0.083am
172.16.1.164	Server	e8:eb:1b:eb:72:8d	BlueLED ULTRA300 0.083m

Steps to update SERVER software:

1. Prepare Bootloader:

- Open the Bootloader program
- Click "File" in the upper left corner
- Select and open the .cry file



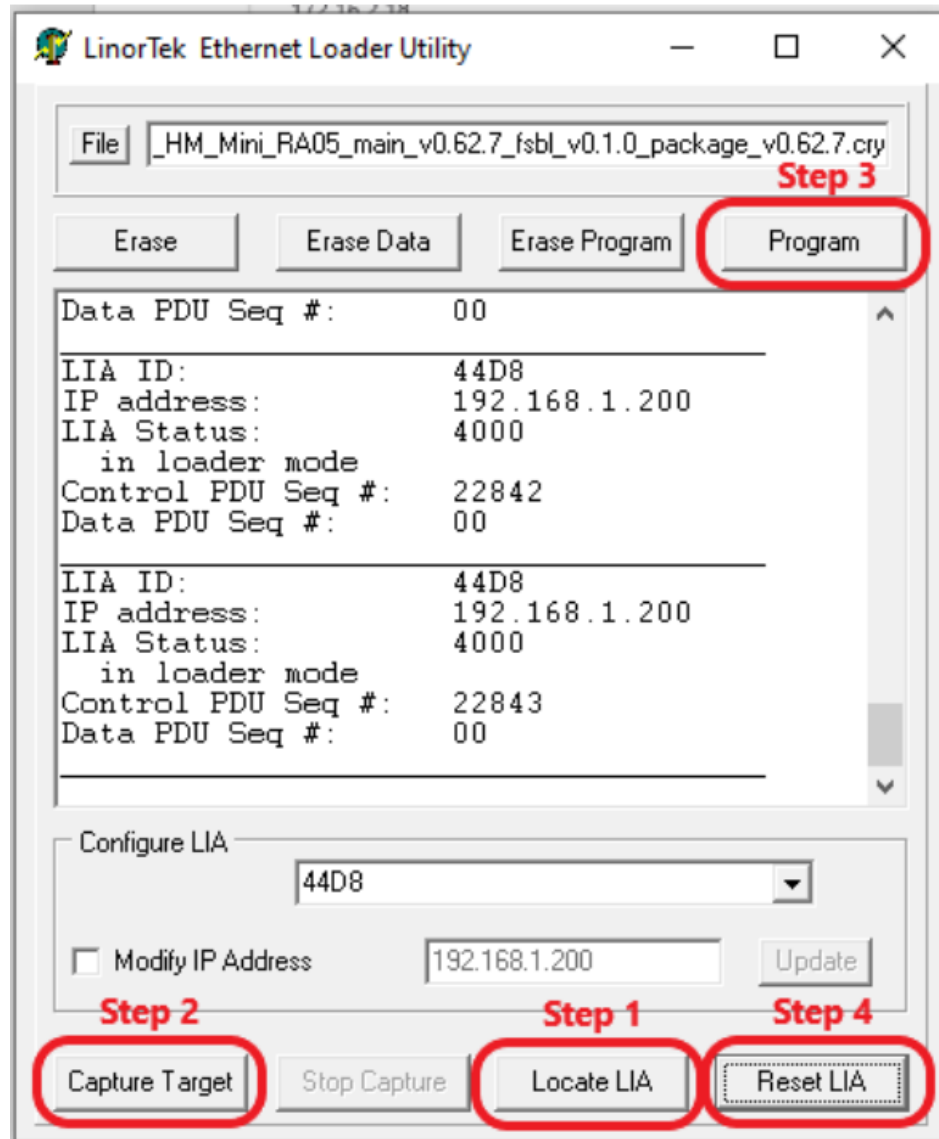
2. Access Device Boot Mode:

- Log in to your SERVER
- Navigate to System → Load/Reboot System
- Click “Boot Mode”



3. Program Device:

- Within 5 seconds of entering Boot Mode:
- Click “Locate LIA” (Step 1)
- When you see “LIA ID” (last four digits of SERVER’s MAC address)
- Click “Capture target” (Step 2)
- After capturing the SERVER:
- Click “Program” (Step 3)
- Once “Programming Complete” appears:
- Reset the SERVER using either:
 - The physical Reset switch on the unit
 - “Reset LIA” button in Bootloader (Step 4)



4. Verify Update:

- Check the version number through either:
- Discover program
- SERVER page: System → Load/Reboot System

Troubleshooting

If Bootloader Can't Locate Device

1. Configure Windows Firewall:

- Open Control Panel
- Navigate to System and Security → Windows Defender Firewall
- Select Advanced settings
- Configure both Inbound and Outbound Rules:
- Create New Rule
- Select “Port”
- Choose UDP
- Enter port 16388
- Allow connection
- Apply to all domains
- Name and save the rule

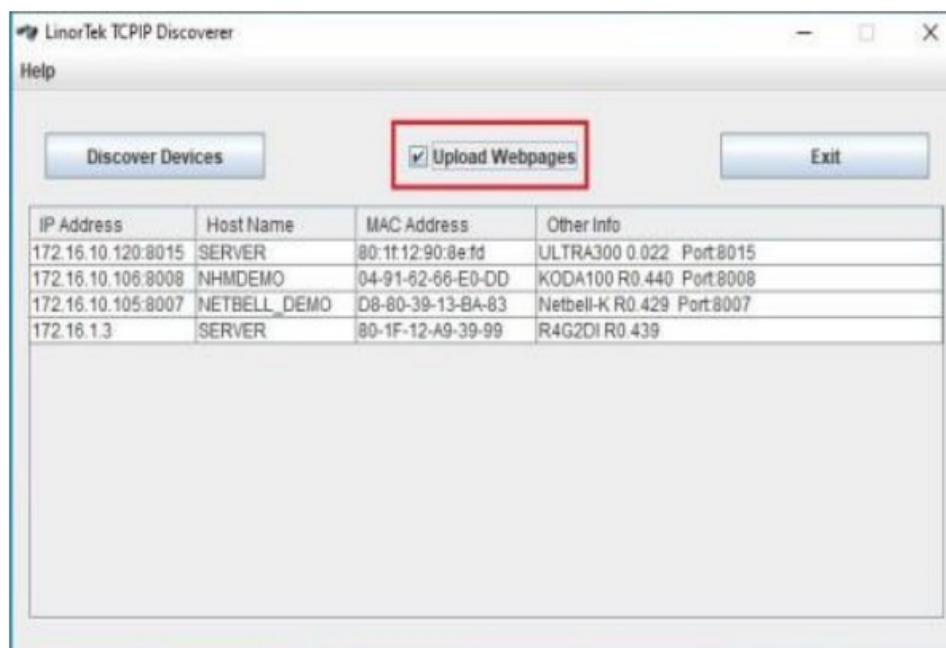
2. Direct Connection Method:

- Connect a device directly to the computer’s Ethernet port
- Disable WiFi
- Access device using default IP: 169.254.1.1

Updating Webpage Software

Option 1: Using Discoverer

- Check the “Upload Webpages” box in Discoverer
- Select your device
- Choose the .bin file
- Click “Upload”
- Wait for the “MPFS Updated Successful” message
- Click “Site main page”



Option 2: Through SERVER Interface

- Navigate to System → Load Web Pages
- Follow the on-screen instructions
- Upload previously downloaded .bin file

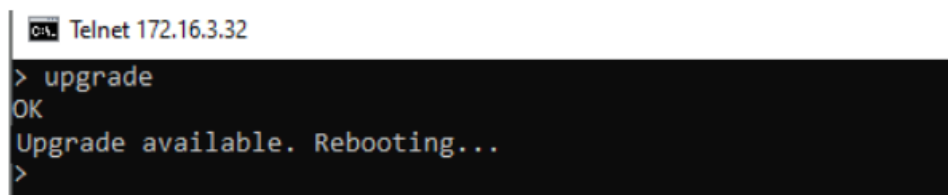
B. For WFMN-Di and WFMN-ADi Controllers

1. Required Downloads

- Before starting the update process, download these essential files to your computer:
- **Support Programs:**
 - Discoverer program (for locating devices on your network)
 - Bootloader program (for loading SERVER software).
 - Download link <https://www.linortek.com/downloads/support-programming/>
- **Software Files:**
 - SERVER software (.cry file) – specific to your device
 - Download link: <https://www.linortek.com/downloads/software-update/>
- **Special Notes:**
 - Only SERVER software (.cry file) update needed
 - No webpage update required

2. Update Steps:

- Follow SERVER software update steps from Section A – Updating SERVER software using the Bootloader
- **After programming:**
 - Login via Telnet
 - Run **command:** upgrade
 - The device will automatically reboot if successful

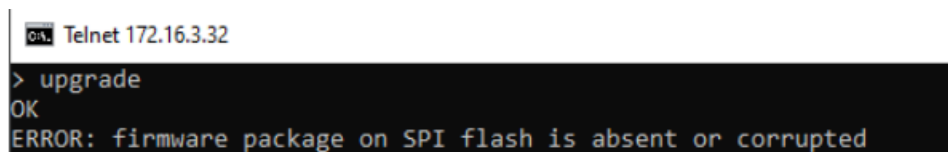


```

C:\> Telnet 172.16.3.32

> upgrade
OK
Upgrade available. Rebooting...
>
  
```

- If the programming wasn't completed or an error has occurred, you will receive the message shown below.
- Please reboot by running the reboot command.



```

C:\> Telnet 172.16.3.32

> upgrade
OK
ERROR: firmware package on SPI flash is absent or corrupted
  
```

- **Important Note:** For software version v0.62.4 or below: Screenshot all current configurations and triggers
- The device will require reconfiguration after the update

For ULTRA300 and eIO-CPU Controllers

1. Required Downloads

- Before starting the update process, download these essential files to your computer:

- **Support Programs:**

- Discoverer program (for locating devices on your network)

- Download link: <https://www.linortek.com/downloads/support-programming/>

- **Software Files:**

- Server software (.img file). Download link: <https://www.linortek.com/downloads/software-update/>

- **Requirements:**

- Single Image file (.cry) needed
- No additional programming tools are required if an IP address is known

- **Update Process:**

- Login and Access Update Menu
- Navigate to System → Load/Reboot system
- Check “Update Software”
- Click “Boot Mode”

- **Upload Image file:**

- Wait for the bootloader page
- Click “Browse”
- Select Image (.img) file
- Click “Upload”

- **Complete Update:**

- Wait for the “Done!!!” message (up to 3 minutes)
- Click “Go to U300 App” to exit bootloader mode

Done!!!

Go to U300 App

Go to Bootloader

- **Important Note:** For Ultra300 version v.0.079 or below: Screenshot all configurations
- The update will reset to the factory default

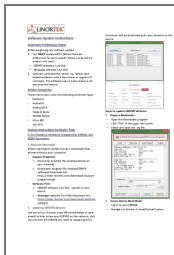
Additional Resources

- Video tutorials are available at <https://www.linortek.com/downloads/>
- Linor Technology, Inc.
- www.linortek.com
- Information is subject to change without notice. 112024

Frequently Asked Questions

- **Q: What do I do if the programming wasn't completed or an error occurred?**
 - **A:** If an error occurs during programming, please reboot by running the reboot command.




Documents / Resources



[LINORTEK Software Update](#) [pdf] Instructions

Netbell-2, Netbell-K, Netbell-NTG, Fargo, Koda, Ultra 300, eIO-CPU, Software Update, Software , Update

References

-  [Software Update](#)
-  [Software Update](#)
-  [Software Update](#)
- [User Manual](#)

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