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## LINORTEK Netbell-2 Bell Timer Controller



## 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 a 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:**

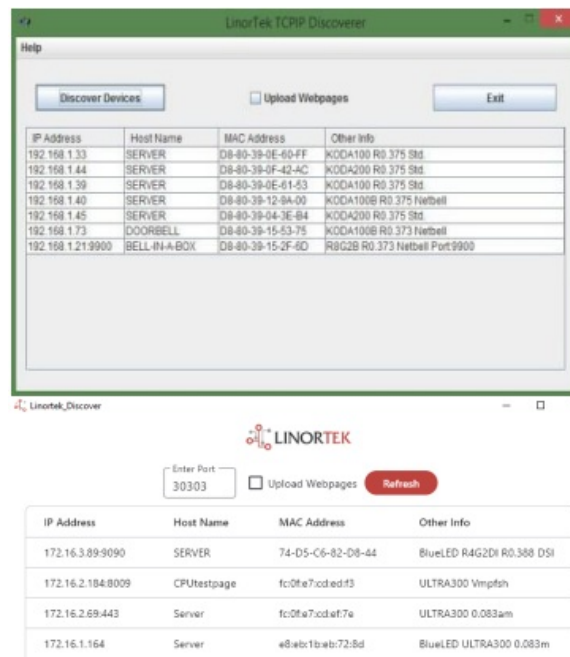
- Discoverer program (for locating devices on your network)
- Bootloader program (for loading SERVER software) Download link:  
<https://www.linortek.com/downloads/support-programming/>

- **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

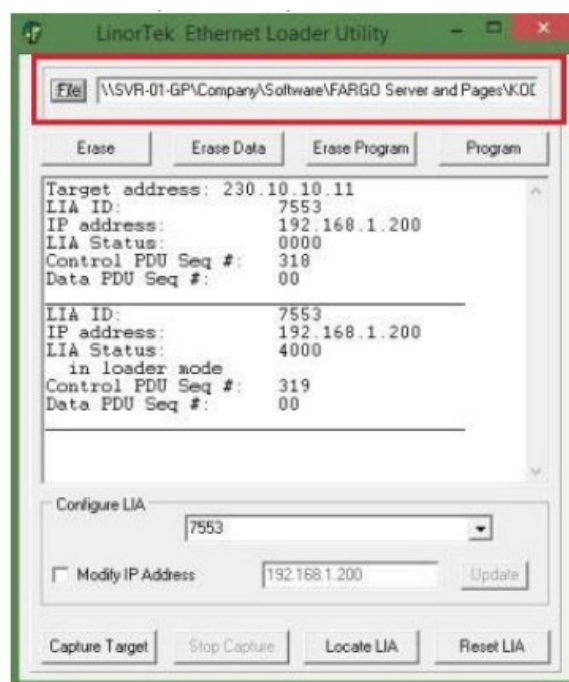
Use one of our Discover tools (Windows-based or Java-based) to help locate your SERVER on the network, click the line with the SERVER you want to update and the Discoverer will automatically open your browser to this device.



## 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



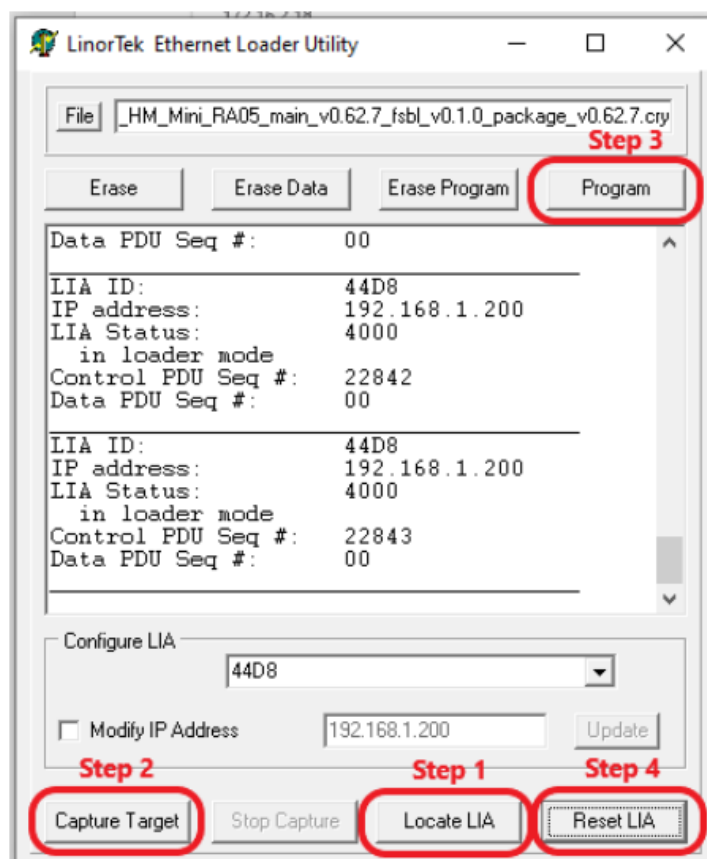
### 2. Access Device Boot Mode:

- 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:**

1. Checku 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

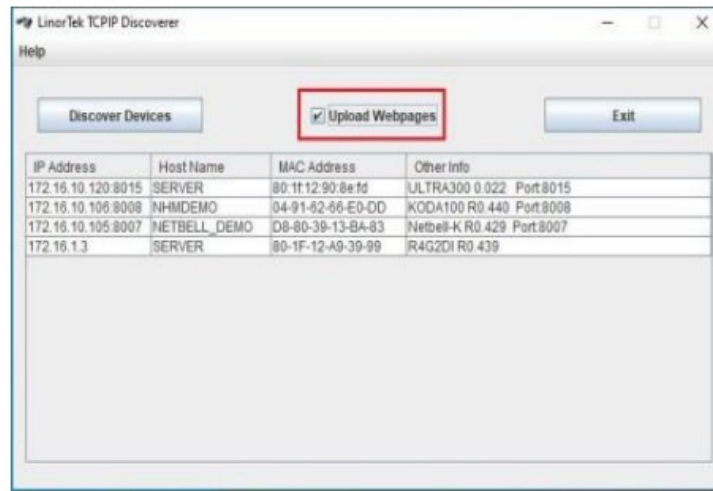
##### **2. Direct Connection Method:**

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

#### **Updating Webpage Software**

##### **Option 1: Using Discoverer**

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



## Option 2: Through SERVER Interface

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

## B. For WFMN-Di and WFMN-ADi Controllers

### 1. Required Downloads

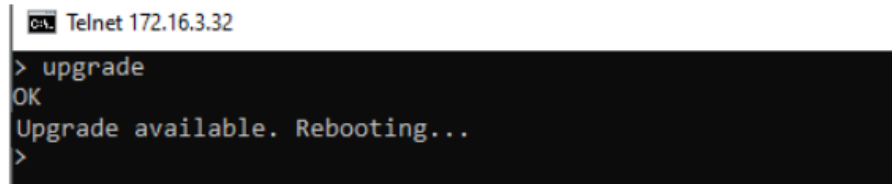
Before starting the update process, download these essential files to your computer:

- 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:

1. Follow SERVER software update steps from Section A – Updating SERVER software using the Bootloader
2. After programming:
  - Login via Telnet

- Run command: upgrade
- Device will automatically reboot if successful

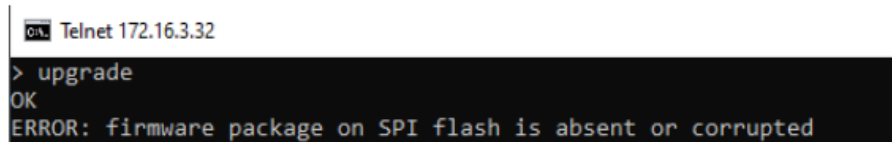


```

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 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

- Device will require reconfiguration after update

## C. For ULTRA300 and eIO-CPU Controllers

### 1. Required Downloads

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

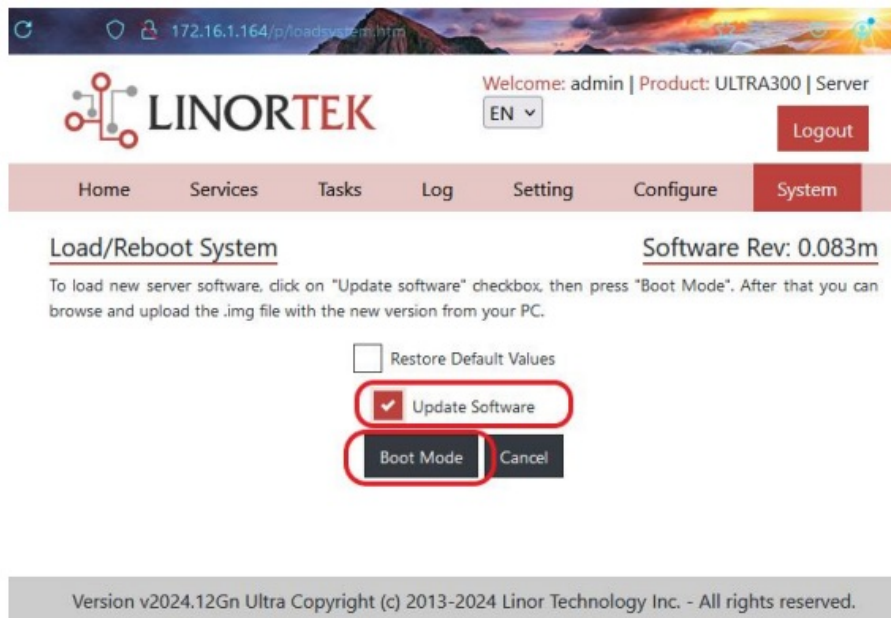
- Support Programs:
  - Discoverer program (for locating devices on your network)
  - Download link: <https://www.linortek.com/downloads/support-programming/>
- Software Files:
  - Server software (.img file) Download link: <https://www.linortek.com/downloads/software-update/>

#### Requirements:

- Single Image file (.cry) needed
- No additional programming tools required if 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 bootloader page
- Click “Browse”
- Select Image (.img) file
- Click “Upload”



- **Complete Update:**

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



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

## Additional Resources

Video tutorials available at: <https://www.linortek.com/downloads/>

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## FAQ

- **Q: What should I do if the programming wasn't completed or an error occurred during the update?**

A: If an error occurs, reboot the device by running the reboot command.

## Documents / Resources

	<a href="#">LINORTEK Netbell-2 Bell Timer Controller [pdf]</a> User Guide Netbell-2, Netbell-K, Netbell-NTG, Fargo, Koda, WFMN-Di, WFMN-ADi, Netbell-2 Bell Timer Controller, Netbell-2, Bell Timer Controller, Timer Controller
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## References

-  [Linortek Remote IO, Audible & Visual Alarm Systems, and IoTMeter](#)
-  [Downloads/Resources](#)
-  [Software Update](#)
-  [Software Update](#)
-  [Software Update](#)
- [User Manual](#)

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◆ Bell Timer Controller, Fargo, KODA, LINORTEK, Netbell-2, Netbell-2 Bell Timer Controller, Netbell-K, Netbell-NTG, Timer Controller, WFMN-ADI, WFMN-DI

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