

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 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

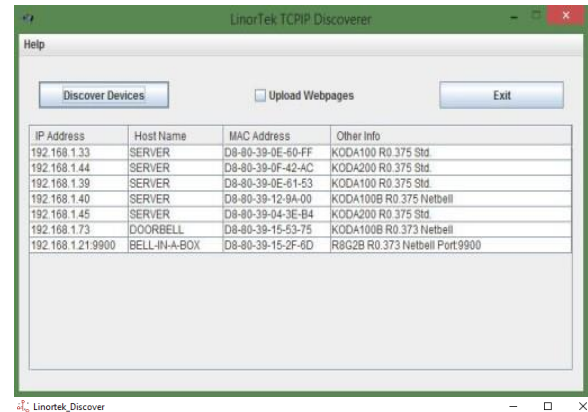
Before starting the update process, download these essential files to your computer:

- **Support Programs:**
 - o Discoverer program (for locating devices on your network)
 - o Bootloader program (for loading SERVER software) Download link: <https://www.linortek.com/downloads/support-programming/>
- **Software Files:**
 - o SERVER software (.cry file) - specific to your device
 - o 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

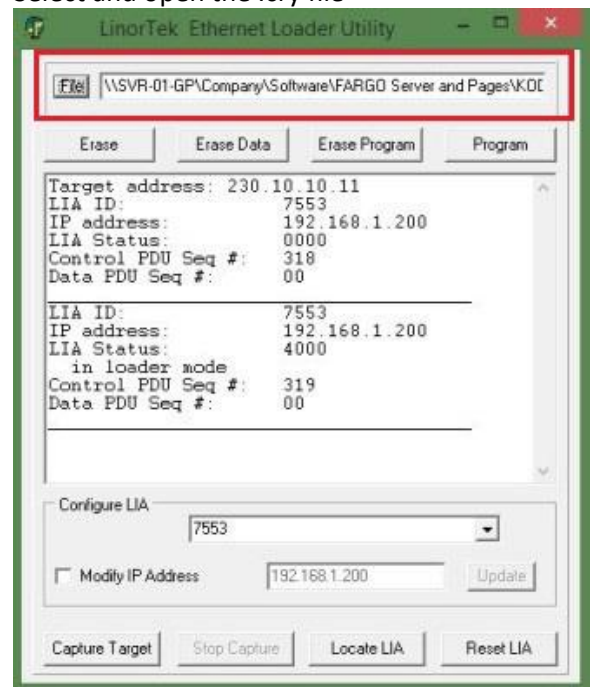
Discoverer will automatically open your browser to this device.



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:

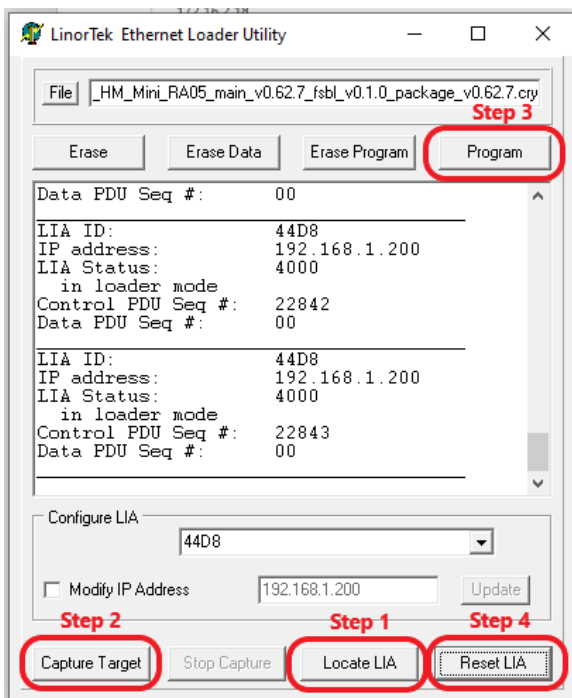
- Log in to your SERVER
- Navigate to System → Load/Reboot System

- Click "Boot Mode"



3. Program Device:

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



4. Verify Update:

- Check version number through either:
 - o Discover program
 - o 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:
 - o Create New Rule
 - o Select "Port"
 - o Choose UDP
 - o Enter port 16388
 - o Allow connection
 - o Apply to all domains
 - o Name and save the rule

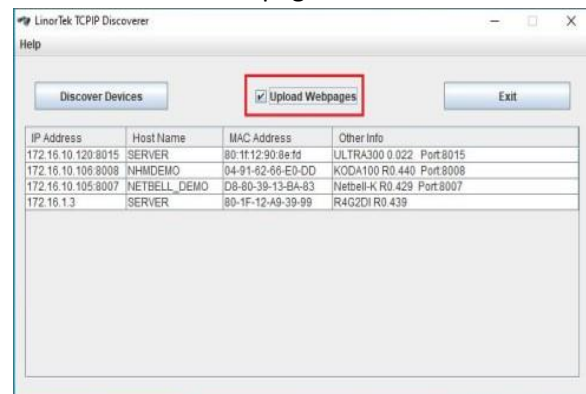
2. Direct Connection Method:

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

2. 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:
 - o Discoverer program (for locating devices on your network)
 - o Bootloader program (for loading SERVER software). Download link:

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

- Software Files:
 - o 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:
 - o Login via Telnet
 - o Run command: **upgrade**
 - o Device will automatically reboot if successful

```
cs> 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.

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

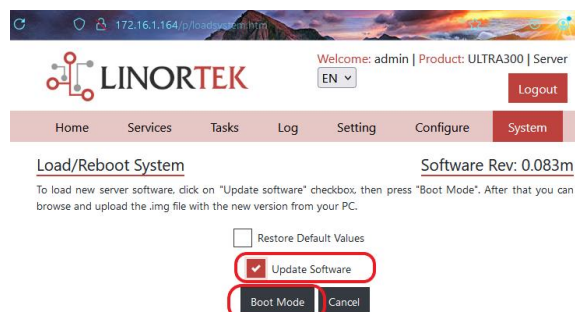
Requirements:

- 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"



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Upload Image file:

- o Wait for bootloader page
- o Click "Browse"
- o Select Image (.img) file
- o Click "Upload"



Linortek Image Upload

Please select firmware image file provided by Linor Technology, press Upload button and wait 30s - 180s

Step1 **Step2**

Complete Update:

- o Wait for "Done!!!" message (up to 3 minutes)
- o 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/>