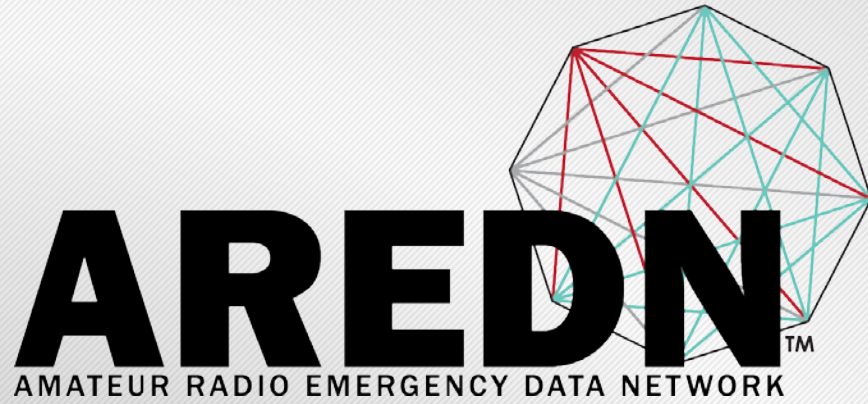




AREION™

AMATEUR RADIO EMERGENCY DATA NETWORK



AREDN Firmware Installer

Hamvention 2018

What Is It?



- Windows-based AREDN installer which automatically does most of the steps necessary to install firmware on supported Ubiquiti devices.
- Developed by Darryl K5DLQ
- Still in development testing stage

Why Do You Need It?



- You might not need it if you are already experienced with the current firmware installation procedures
- For people new to AREDN firmware, the installer combines and simplifies many of the steps needed to complete the process
- It may help you restore “bricked” devices if you can get them into TFTP mode
- It simplifies your network connections during installation due to automatic Ethernet address changing on your computer

Where Can You Get It?



- Still in the development testing stage
- When it is ready for release, it will be announced and available on the AREDN.org website

Features and Functions



- Downloads the current stable AREDN firmware and save the files on your computer
- Optionally downloads the current nightly builds
- Optionally downloads the stock factory firmware
- Since all of the downloaded firmware is stored locally, you can take this computer to a site without Internet access to install or update an AREDN device
- Tests the device to make sure it is supported
- Installs the correct firmware for your device

How to Use the AREDN Installer

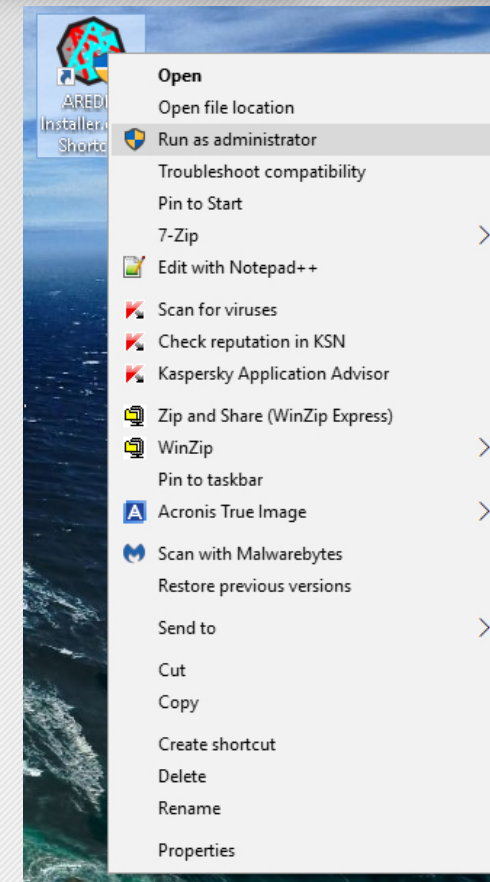


- Use a computer with a wired connection to the Internet and a wired connection to the Ubiquiti device
- Run the AREDN Installer as Administrator

Run Installer as Administrator



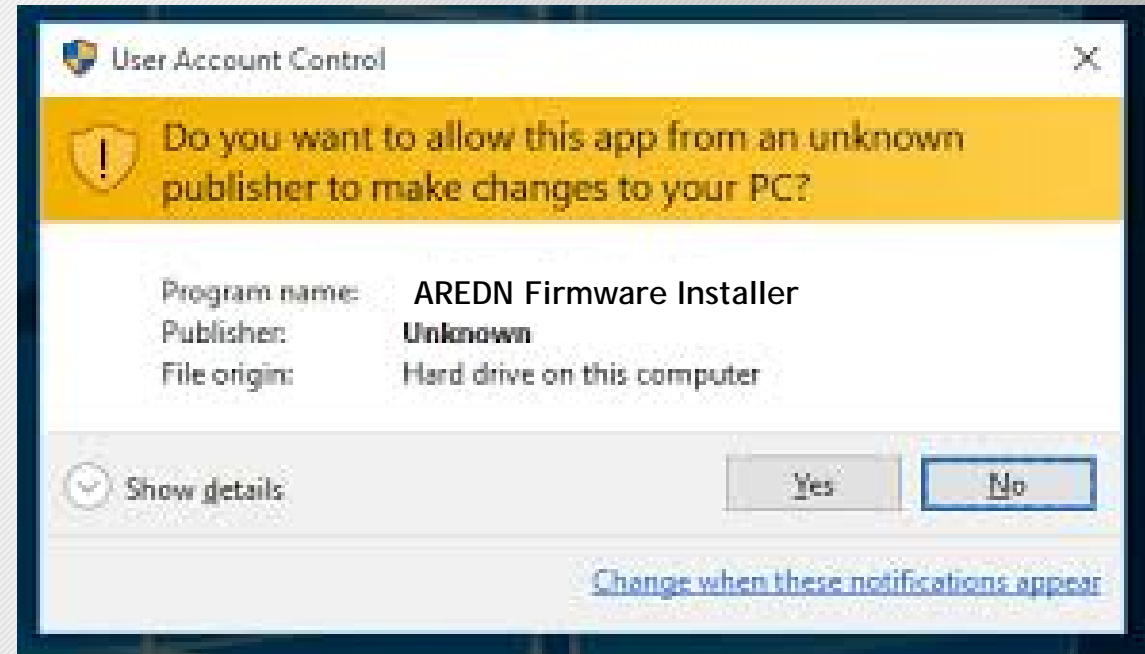
Right Click the AREDN
Firmware Installer Icon



User Account Control



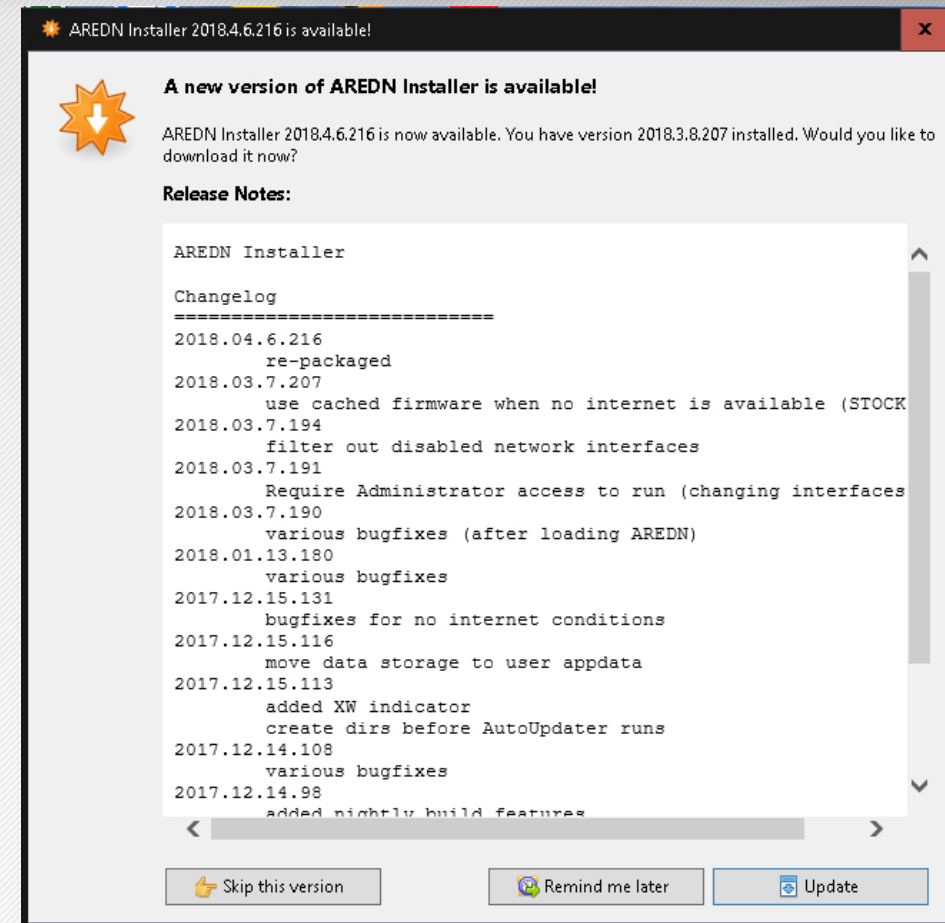
Allow the installer to run



Installer Startup



If a new version is available, you will get a message



Start Screen



You can choose to download a variety of firmware files

AREDN Installer Version 2018.4.23.217

Download AREDN Firmware Files Locally

☐ Include Nightly Builds ☐ Include Stock Firmware

Choose a network interface

Current Device Mode

Choose a firmware version

Device Info

Manufacturer

Board ID

Device Family

Device

OS Version

AREDN Support Status

Features

Instructions

Press DOWNLOAD to pull all firmware files from AREDN.org. This only needs to be performed once to download all the files. Press SKIP if you have previously downloaded the files.

AREDN downloads site contacted successfully.

Copyright K5DLQ © 2018

Download Firmware



Click the boxes for your chosen firmware

AREDN Installer Version 2018.4.23.217

Download AREDN Firmware Files Locally

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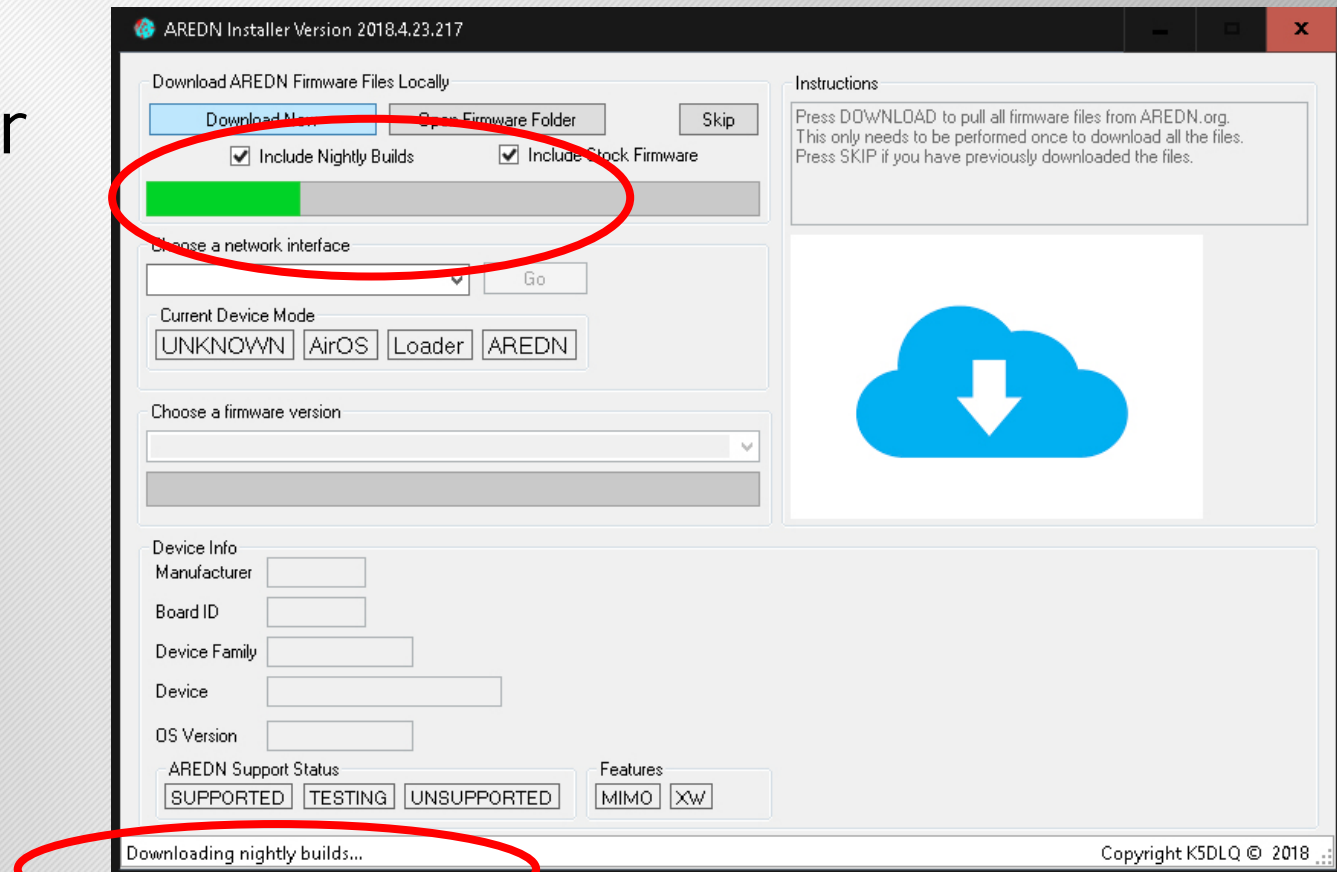
Copyright K5DLQ © 2018

Firmware Download in Progress



The green progress bar indicates download activity

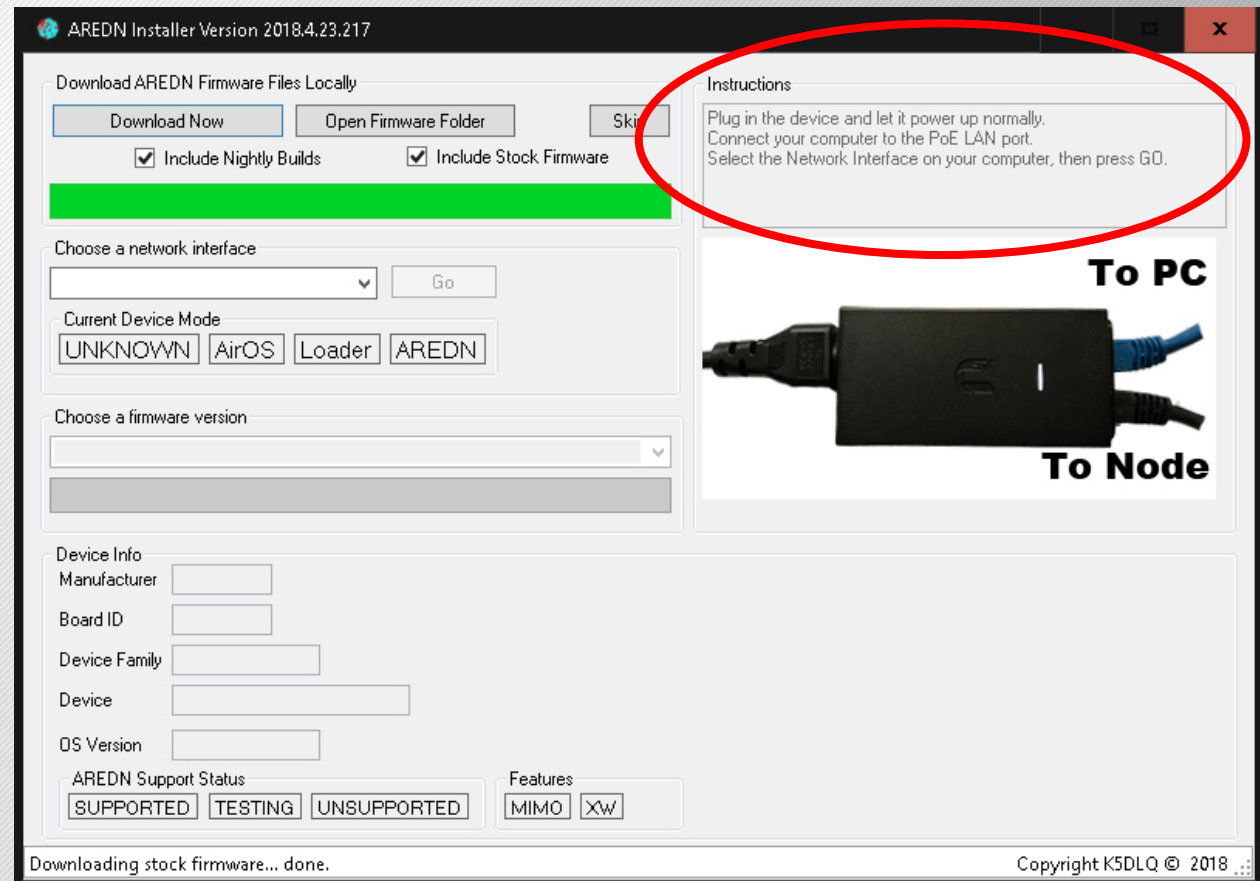
The status message at the bottom left indicates which files are being transferred



Download Completed



When the download finishes, the Instructions tell you to connect your Ubiquiti device with an Ethernet cable



Select Wired Ethernet and Test



Test the node to
confirm it is ready to
use

AREDN Support Status
will show Green boxes
for Supported and AirOS
devices

Device picture will
appear

AREDN Installer Version 2018.3.8.207

Download AREDN Firmware Files Locally

Download Now Open Firmware Folder Skip

☒ Include Nightly Builds ☒ Include Stock Firmware

Choose a network interface

Wired Ethernet

Current Device Mode

UNKNOWN AirOS Loader AREDN

Choose a firmware version

Device Info

Manufacturer ubnt

Board ID 0xe855

Device Family nano-m-xw

Device NanoStation M5 XW

AREDN Support Status

SUPPORTED TESTING UNSUPPORTED

Features

MIMO XW

Getting device info... done.

Copyright K5DLQ © 2018

Choose Firmware to Install

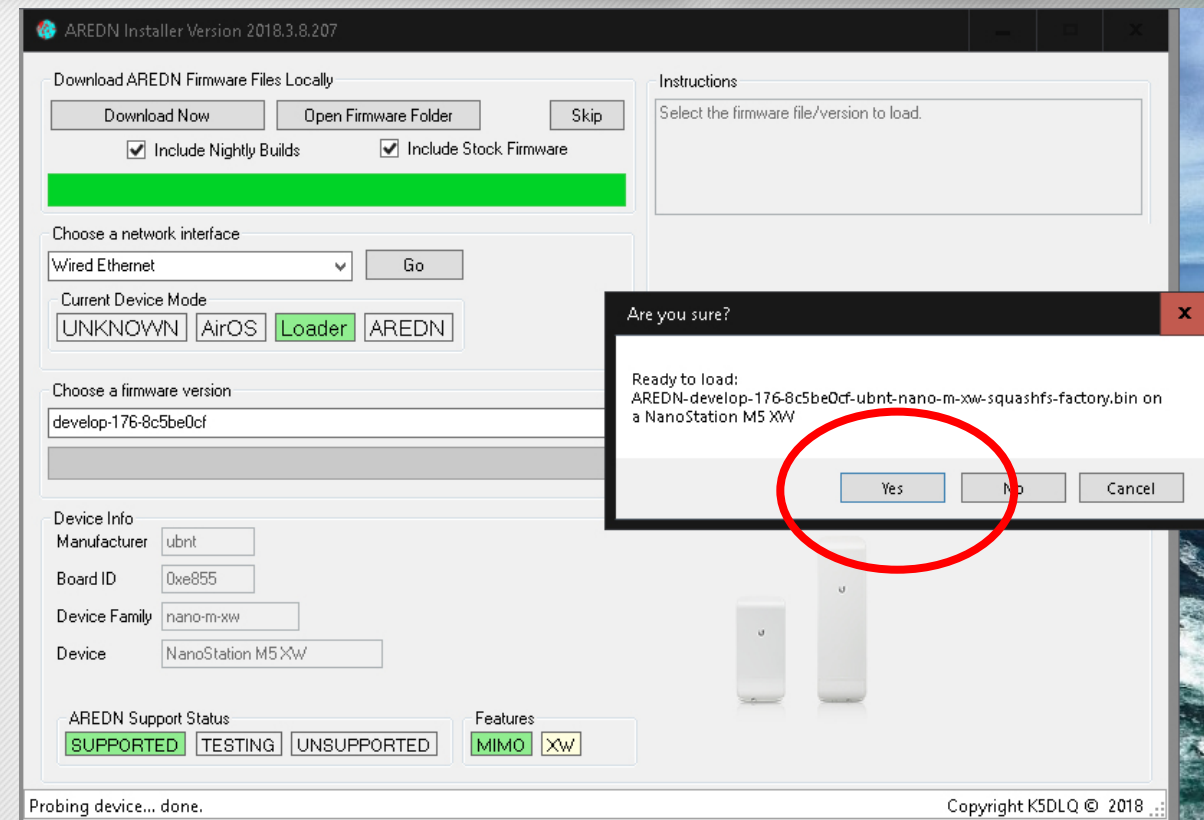


Select the firmware you will install

If AirOS is 5.6.x or newer, you can only load the nightly builds unless you downgrade to AirOS 5.5.x first - Then you can load 3.16.1.1

Make sure the node is in TFTP mode

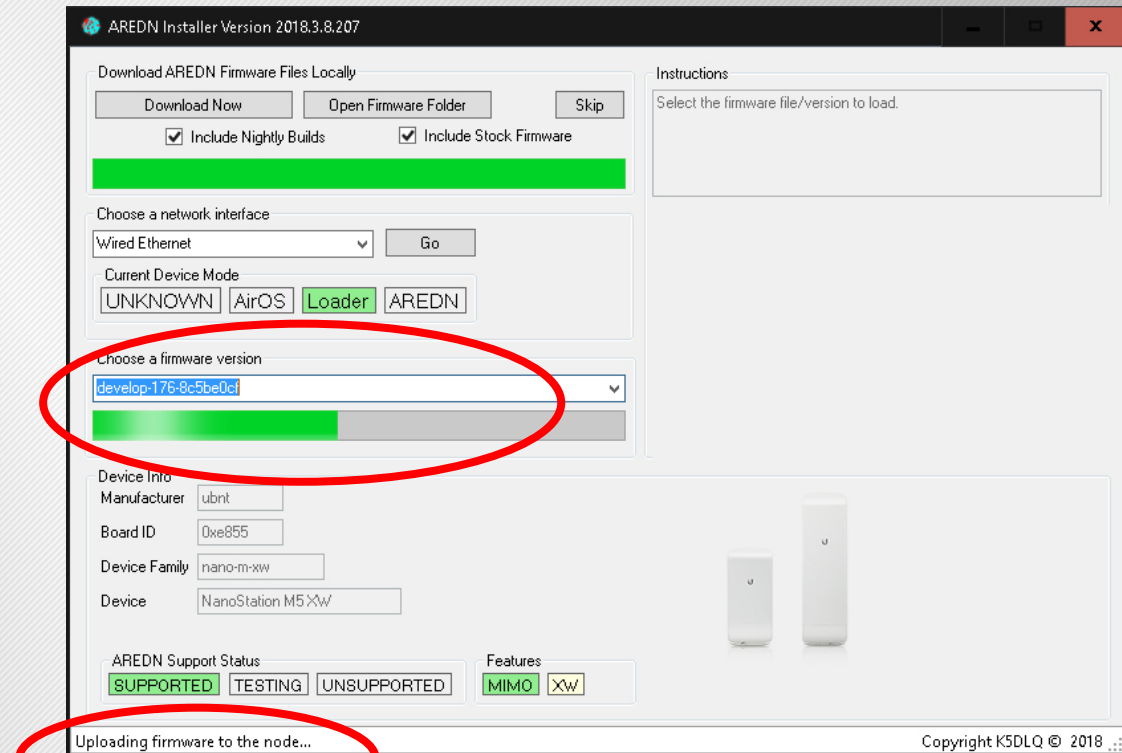
Click Yes when ready



Uploading Firmware



The green progress bar shows that firmware is being transferred to the node



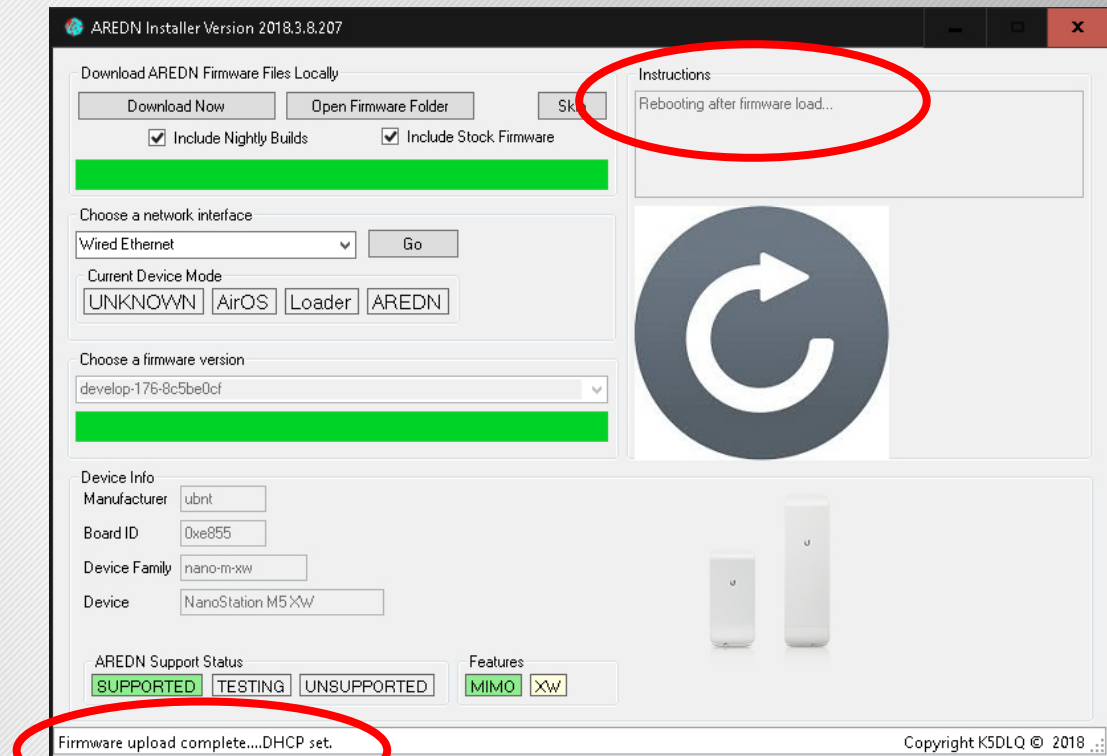
Done Uploading and Reboot



After upload completes,
the node will reboot.

WAIT! It takes longer
than you think for the
LEDs to stop blinking!

It will be in the NOCALL
state - ready to
configure as normal



Demonstration



How To Put Your Ubiquiti Device Into TFTP Mode