



**ADVANCED**  
NETWORK DEVICES

## Device Firmware Updates – SingleWire InformaCast

Version 1.1

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## Static Electric Warning



## TROUBLESHOOTING AND ADDITIONAL RESOURCES

User Support:

<https://www.anet.com/user-support/>

Technical Resources:

<https://www.anetd.com/user-support/technical-resources/>

AND Legal Disclaimer:

<https://www.anetd.com/legal/>

## OVERVIEW

Updates to ANetD IP displays and speakers enable your mass notification system to take full advantage of the latest features and support network improvements. To download the firmware files, you will need to access the [AND Customer Portal](#).

## UPDATE PROCEDURE

When using SingleWire InformaCast to upgrade firmware on ANetD devices, you can update firmware for all desired devices simultaneously using a configuration file. We recommend performing this procedure during off hours.

### UPDATE USING SINGLEWIRE INFORMACAST

1. Download the device firmware files.
  - Access the [AND Customer Portal](#), log in, then navigate to the Downloads->Device Firmware page and then click the *Download Firmware* button to download a *zip* file containing recent firmware for all ANetD device platforms. Unzip/extract these files to a new folder on your local machine.
2. Transfer the files to the InformaCast server.
  - Use a file transfer tool like [WinSCP](#) or Filezilla to access the InformaCast server.
  - Use SFTP protocol, the IP of the InformaCast Server as the Host Name, and Port Number “22”. The default username for InformaCast is “admin” with no password.
  - Navigate to the following directory on the InformaCast server, where “[version\_number]” is the InformaCast software version :  
/data/d\_[version\_number]/usr/local/singlewire/InformaCast/web/resources/
  - Upload the extracted firmware .bin files from your local machine to this *resources* directory on the InformaCast server.

### 3. Update the device configuration file on the InformaCast server.

- The resources folder also contains the configuration file(s) for your devices. To instruct your devices to upgrade firmware, you will need to add a reference to those new files in the configuration file.
- Locate and open the default global configuration file, *InformaCastSpeaker.cfg*, in the resources folder for editing.
- Open the *readme.txt* file in the extracted file folder on your machine. Highlight and copy the XML firmware file list near the top of the readme. It will be similar to this list:

```
<Firmware20 file="ips20_1_6_0106.bin"/>
<Firmware21 file="ips21_1_6_0106.bin"/>
<Firmware30 file="ips30_1_0_0203.bin"/>
<Firmware31 file="ips31_1_0_0203.bin"/>
<Firmware32 file="ips32_1_0_0222.bin"/>
<Firmware40 file="ips40_1_0_0112.bin"/>
```

- Paste the information to the 2<sup>nd</sup> line of the configuration file, just after the opening `<InformaCastSpeakerConfiguration>` XML tag. If a similar list of firmware already exists, overwrite it with the new information.
- If the *InformaCastSpeaker.cfg* file was default, the final file should look similar to this:

```
<InformaCastSpeakerConfiguration>

<Firmware20 file="ips20_1_6_0106.bin"/>
<Firmware21 file="ips21_1_6_0106.bin"/>
<Firmware30 file="ips30_1_0_0203.bin"/>
<Firmware31 file="ips31_1_0_0203.bin"/>
<Firmware32 file="ips32_1_0_0222.bin"/>
<Firmware40 file="ips40_1_0_0112.bin"/>

<Servers>
  <InformaCast url="http://[Server IP]:8081/InformaCast/admin?cmd=spkr" />
</Servers>

</InformaCastSpeakerConfiguration>
```

- Save the *InformaCastSpeaker.cfg* file.
- It is also possible to serve configuration for firmware upgrades with MAC-specific, aggregate, and “add” configuration files. These options can specify which devices receive the configuration and firmware update. Please see our configuration file reference document in the portal at the Downloads->Configuration File page for more information.

4. Reboot the devices and they will update to the desired firmware release.

- Log into the InformaCast server and navigate to the *Recipients->IP Speakers* menu.
- Enter “2046F9” into the search field as this will isolate just the ANetD devices.
- Next check the “Name” checkbox to select all the devices.
- An “Actions” button will appear. Click it and select the “Reboot” option. Click “Reboot” one more time to confirm.

**CAUTION: Do not interrupt power to the device(s) during the update process.** The update could take several minutes to download to each device and install, depending on the number of devices, the bandwidth of the network, and the amount of other network traffic. See the *Verify Firmware Update* section at the end of this document for details.

## VERIFY FIRMWARE UPDATE

- The device will probe the network for the updated configuration file when rebooted. Once found, the device will automatically reboot again in order to start the update process.
- After the update completes, the device will automatically reboot again. A boot beep will sound when the device has acquired an IP address and is ready for use.
- You can manually check the *Main Firmware* version listed on the device *Home* or *Device Status* webpages to verify complete installation of the new firmware version.
- If the device does not show the new version, check the bottom of the device *Device Status->Non-Volatile Log* page for error messages. If you have questions or need help troubleshooting, please contact [tech@anetd.com](mailto:tech@anetd.com) for help.