

[AN013]



ADVANCED
NETWORK DEVICES

Firmware Update Using SA-Announce Server

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Static Electric Warning



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OVERVIEW

Syn-Apps' SA-Announce Server can be used to perform firmware updates on the AND devices. To use the server for this purpose, you must place a configuration file and firmware file on the SA-Announce web server.

PROCEDURE

1. Log into the SA-Announce Server.
2. Add the following directory to the local disk (usually "C:") if it does not already exist:

```
C:\Inetpub\wwwroot\ipspeaker
```

3. Copy the AND firmware binary file(s) to this directory (e.g., *ips21_1_3_0038.bin*).
4. Copy or create a common device configuration file in the same directory named *IPSpeaker.xml*. See the *Sample Speaker Configuration File* in Appendix A as an example. Include the proper firmware filename(s) in the *Firmware20* and *Firmware21* tags. Note that the example file assumes DHCP option 72 is pointing to the IP address of the SA-Announce server.

WARNING: If you have already configured the devices individually using their on-board settings via the web page interface, the new common device configuration file will replace those previous settings. Please record all individual settings per device, so you can create the proper configuration file without a loss of settings.

5. If individual settings are needed for each device, copy or create the aggregate device configuration file in the same directory (e.g., *AllSpeakers.xml*). See the *Sample Aggregate Speaker Configuration File* in Appendix B as an example. Note that if not using this aggregate file, remove the *AggregateSpeakerConfigFile* line from the *IPSpeaker.xml* file.
6. Recycle power on all the device(s) and the new firmware file will be downloaded. This process could take 1-2 minutes to complete. **CAUTION:** Do not power off the device(s) at this time.
7. After the update is complete, the device will automatically reboot and come up running the updated firmware. Confirm the new firmware is active from the device's web page interface, or the SA-Announce device list.

APPENDIX A - SAMPLE SPEAKER CONFIGURATION FILE

```
<IPSpeakerConfiguration>

  <SIPConfig
    SIP_port="5060"
    registration_interval="300"
    reboot_reg_timeout="300"
    SIP_mode="paging"
    volume="6"
    mic_volume="7"
    AggregateSpeakerConfigFile="AllSpeakers.xml"
    promiscuous_mode="1"
    feedback_suppression="ultralow4"
  />

  <Microphone volume="7.0" />

  <Servers auto-syn-apps-opt-72="1" >
</Servers>

  <NTPConfig refresh_minutes="60" timezone_name="America/Chicago" >
    <Server url="0.anetd.pool.ntp.org." />
  </NTPConfig>

  <Display
    time_format="12"
    clock_font="clock_batang_bold"
    message_font="arial_bold"
    clock_color="yellow"
    seconds_color="tan"
    am_color="olive"
    pm_color="sienna"
    message_color="green"
    show_seconds="0"
    blink_colon="1"
  />

  <Firmware20 file="ips20_1_3_0038.bin" />
  <Firmware21 file="ips21_1_3_0038.bin" />

  <Priorities>
    <action
      priority="1-25"
      message_color="red"
      flashers="000,dim"
      flashers_gaps="fff,bright"
    />
  </Priorities>

  <PermanentStreams>
    <Channel stream="232.9.10.11" port="23456" priority="99" volume="4" />
  </PermanentStreams>

  <Development password="SideDoor" boot_beep="3"/>
</IPSpeakerConfiguration>
```

APPENDIX B - SAMPLE AGGREGATE SPEAKER CONFIGURATION FILE

```
<AllSpeakers>  
  
  <Speaker mac="2046f9030102">  
    <SIPConfig descr="Hall Speaker #1" volume="6" mic_volume="7" />  
  </Speaker>  
  
  <Speaker mac="2046f9030a8e">  
    <SIPConfig descr="Lincoln Room Speaker" volume="6" mic_volume="7" />  
  </Speaker>  
  
</AllSpeakers>
```