Sage Alerting Systems
Digital ENDEC
Firmware Revision 1.0h/74

Release notes for version 74

Summary of major new features and bug fixes since the rev 36 release, and the release they appeared in:

Features:

- Governor Must Carry(74)
- CAP Cancel logging(74)
- NVAudio get/put mp3 files(73)
- NetAlert CAP server(71)
- Inovonics RDS(70)
- NAAD CAP server(69)
- Fox Splicer(68)
- GSS CAP satellite downlink (66)
- Upload of Text to Speech lexicon files (63)
- Add Send RWT on All Stations to RWT tab for automated RWTS on all stations. (62)
- Second Wide Orbit release (61)
- Add scheme 4 (live console GPI assist) (52)
- Support for Ibiquity Active Radio (48)
- Add random back off when sending email for use with low bandwidth uplinks.(41)
- First Google (Wide Orbit) Release (27)

Bug fixes

- UTC midnight used for log display start/end, causing alert at the end of the period to appear on the next week's report (74)
- Log Only events did not print on the printer until a non-Log Only event was received, or a message was sent (64)

Details for release 74

CAP updates

*In general, the following applies only for CAP 1.2 messages using the IPAWS profile, and only if the CAP Server definition on the CAP tab has the "enforce strict format" box checked. In all cases with current users, as of May 2011, your server is **not** sending CAP 1.2 with the IPAWS profile. **Do not** enable the strict option at this time.*

1) The ENDEC now follows the ECIG recommendations for text output when CAP 1.2 input is received, and "enforce strict format" is set it the CAP record. The ENDEC will place a space between the end of the description and the beginning of the instruction, for clarity. **NOTE** stations now using the ENDEC with non-CAP 1.2 servers, currently everyone, should **not** enable the "strict" option.

2) The log display now shows the CAP reference ID, and shows the CAP text separately. For EAS use, the FCC currently requires the EAS derived text to appear in crawls. To make the text and the audio the

same, the ENDEC will generate TTS using the EAS data as a lead in – only if "strict" is set. This may change after the next FCC R&O. . **NOTE** stations now using the ENDEC with non-CAP 1.2 servers, currently everyone, should **not** enable the "strict" option.

3) The IPAWS profile and the ECIG recommendations have added a new mime type, audio/x-ipaws-audio-mp3. The ENDEC continues to accept the previous mime type, audio/x-ipaws-audio.

4) Per the Profile and ECIG recommendations, CAP messages with non-FCC header codes are considered for EAS relay. As in previous releases, the ENDEC allows new event codes to be added to the list of valid event codes for text expansion. The ENDEC will forward such an event if a filter is present that a) accepts any event code and b) its action is timed or automatic relay. Otherwise, the action is logged by the default OTHERS filter, or is logged as "ignored" if there is no matching filter.

5) Per the profile and ECIG recommendations, the location code of 00000 is accepted if the alert is an EAN, the EAN filter will be matched. Otherwise, the location code of 00000 is matched only if a filter with a wildcard location (all locations) is present. There is no way to explicitly enter a code of 00000 into a filter.

Governors Must Carry

Per the Profile, the ENDEC accepts the Must-Carry flag in CAP messages. Such a message will match filters according to these rules, applies only if the message was received via CAP:

1) The ENDEC will use a filter named GOVMUSTCARRY as the must carry filter. Only the local codes are used in the filter, the originator and event code is ignored. The GOVMUSTCARRY filter is **ignored** for all other uses, that is, messages not marked as must carry will never match the GOVMUSTCARRY filter.

2) If a GOVMUSTCARRY filter is not present, the ENDEC will use the RMT filter as the must carry filter, however, in this case, non-must carry alerts will match this filter in the normal way. If the message is marked as must carry, only the local codes in the RMT filter will be used for the match. If the message is an RMT, the filter is matched in the normal manner.

The intent is that you can specify specific handling for must carry alerts by building a new GOVMUSTCARRY filter. Otherwise, they will be handling just like your RMT alerts.

Note: if you don't have a filter named RMT, and you don't have a filter named GOVMUSTCARRY, then you will receive an error at startup, and all your LEDs will flash.

New LOG output options

The ENDEC's log page now offers a "tab file" and an "xml file" button. Use these to download the log as a file, tab delimited or xml formatted. The start and end dates are used, the per page limit is not.

Release notes for version 68

Follow these steps to enable support for the Fox Splicer on your Sage Digital ENDEC model 3644.

If you have an ENDEC firmware release prior to version 1.0h/68, you will need to get it. Go to http://www.sagealertingsystems.com/fox.htm and follow the instructions there. To determine what version you have, click the version button on the ENDEC's home page. Look at the "board rev" line, "x/yy". You need yy to be greater than 67.

Likewise, you must have a version of ENDECSETD 2.17 or later. Use help/about to see the version. Go to the above web page to get it if you don't have it.

Step 1. Retrieve your current ENDEC settings using the "retrieve settings" button on the ENDEC's home page.

Step 2. Add a new peripheral record to define your Splicer IP address, user name, and password.

   a) Edit your saved settings file. Go to the Peripheral Tab.
   b) Click Add new peripheral.
   c) Enter a peripheral name. This is for you, the ENDEC doesn't care what's in this field.
   d) Drop down the Peripheral Type list and select "Fox Splicer".
   e) Enter the IP address of your Splicer. The ENDEC will access the splicer using the specific URL provided in the Fox Splicer API. If you are using non-standard settings, you can specify the complete URL here, start with http://. In the standard case, however, just use the IP address and the ENDEC will do the right thing.
   f) Enter the user name and password for your Splicer.
   g) Click "Save this peripheral".

Step 3. Setup a Momentary relay for the Splicer audio insertion GPI.

   a) Click the relay tab.
   b) Select a contact closure to use, Relay 4 is typically unassigned, but you can use any of the four physical relays on the left side of this tab.
   c) On the selected relay, drop down the list box and select PTT Momentary. The default delay needed by the Splicer is 100ms, and should be already entered for you.

Step 3. Save the settings file. On the menu bar, select File, then Save As, and save the file with a new name.

Step 4. Upload the settings file to your ENDEC with "restore settings" on the ENDEC's home page.

Step 5. Connect the Splicer's audio insertion GPI to the ENDEC's contact closure. Using the above settings, the rear panel green bar pins labeled "rly 4" will short together for 100ms at the start and for 100ms at the end of an alert.

Release Notes for version 54

This version contains support by the MyStateUSA server, as used in Washington State. Contact your state EOC for information on required CAP server settings and passwords.

Release Notes for version 52

This version adds support for a GPI input that will both start an originated alert, and signal its end. It is used by stations that originate their own alerts.

1) On the config tab, change Override Input (D in Use) to "scheme 4".
2) On the Relay tab, change Relay 4 to "HOLD".
3) Save the file and upload to the ENDEC (restore settings).

To use:

- Send an alert (using an audio source of "console").
- Relay 4 will close, the front panel will show that the alert is being held.
- Ground "D In 4" for 1/2 sec or so. The alert will start.
- To end the alert, again ground D in 4 for 1/2 sec or so.
- The end of message data will be sent.

Release Notes for version 36

Bug Fixes

1) Issues where bad FTP message settings can delay delivery of EMAIL.

New Features

1) New home page on the ENDEC's web server allows sending weekly test and forwarding pending alerts. If the Multi-Station Relay Panel is in use, weekly tests can be sent on specific stations, and pending alerts can be forwarded to specific stations. Simply select the station or stations offered before clicking the action button (send, kill, rwt).

2) The " Din *n*" inputs on the back panel can now be used to trigger an weekly test on Multi-Station Relay Panel stations, and to release a pending alert on multiple stations.

3) Updates to ENDECSETD software to support the new features.

New D In features.

The ENDEC supports three new "Schemes" to control the use of the D Inputs on the back panel. Use the latest version of ENDECSET (2.4.3 or greater) and select a scheme with the "Override Input (D In Use)" section of the "Config" tab. The following descriptions assume you have "active closed" set.

Scheme 1 – use for a single station configuration.   To send an RWT, ground D in1 for one second. To release a pending alert, ground D In 2 for one second.

Scheme 2 – used to send RWT and release pending alerts for multiple stations. The D inputs are assigned the following functions:

> d_in_1 - selects what happens if you ground the other inputs. Open means you are selecting an RWT, ground means you are selecting "release holdoff".
>
> Din2 through Din5 selects stations 1 through 4.
>
> If you set one of the output relays, for example, Relay 4, to "ready" using the Relay tab on ENDECSETD, that relay will close when an alert is pending.
>
> Examples:
>
> To send an RWT on station 2 only:
>
> > a) Set D In 1 = open, Din3 = closed. Wait 1 second. This will store up an RWT, and have it holding. The ready release will close to show you have an alert pending.
> > b) To release this alert, Set D in 1 and D in 3 to ground. That will release the pending alert. Hold it for about 1 second, then release.
> > c) The ready relay will open when the alert is completed.
>
> To forward a pending alert on station 1 and station 2: Set D In 1, Din2, Din3 to ground, hold for one second, release.

Scheme 3 – use to send RWT on multiple stations. Simply close the proper relay for one second, and you'll get an alert on that station. If you trigger more than one station at a time, you need to get each relay closed within 400ms to get them to go together.

> Din2 = station 1
> Din3 = station 2
> Din4 = station 3
> Din5 = station 4