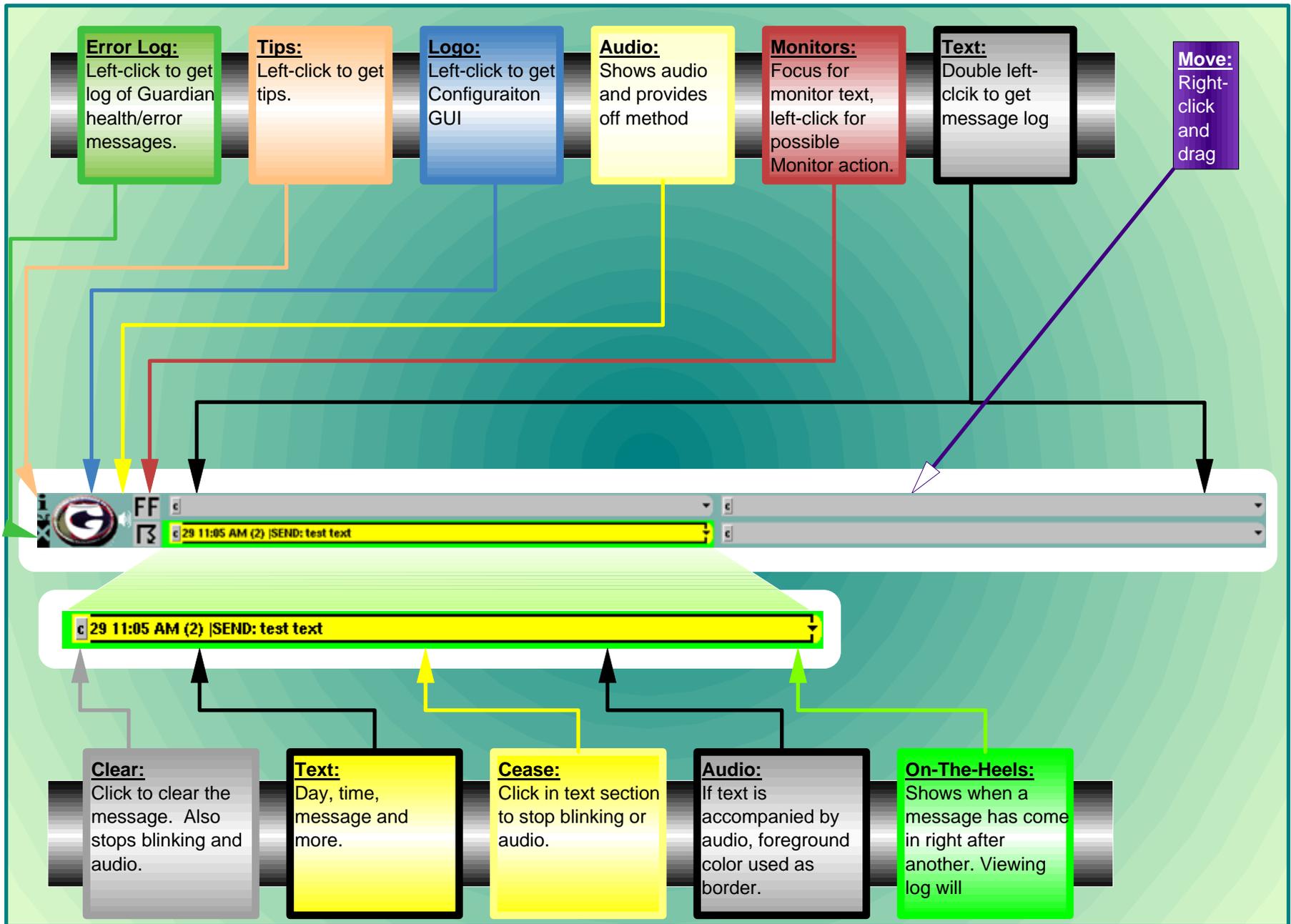




GUARDIAN: General User Alert Display Panel
Alpha Test User's Guide

August 29, 2005



LAYOUT

Q2

MONITOR SYSTAT SYSCOM

INGEST SEND RA MISC

CATEGORIES

- New
- FORCHK
- GDN_ADMIN
- INGEST
- LOCAL
- MISC
- MONITOR
- RADAR
- SEND

Common Settings for all Sources/Priorities

Show the PRIORITY number in the text message:

Show the SOURCE Key in the text message:

Show the CATEGORY in the text message:

Blink duration (in seconds):

Audio duration (in seconds):

Expand Popup information:

Length of Message Log for each category:

Time (min) after which this configuration will revert to the default:

SOURCES

- New
- ANNOUNCER
- FFMP
- GDN_ADMIN
- SCAN

Apply Change

	high	PRIORITIES				low
	0	1	2	3	4	5
text:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
blink:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
popup:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
audio:	doh.wav	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
action:	<input type="checkbox"/>					
background:	blue	red	yellow	green	blue	white
foreground:	red	white	black	black	black	black

- Regular
- Monitor
- Omitted Monitor

Monitor Bitmap: Min. Time Interval:

Monitor Executable:

Action/Info Bar

- File Interactions
 - Save: Saves current configuration to the filename shown in the Current Configuration label (below).
 - Save As: Provide a file name to which to save the configuration.
 - Retrieve: Provide the name of the configuration file from which to retrieve a configuration.
 - Delete: Provide the name of the configuration file to delete.
- Close Configuration window
- Current configuration file and Changed Flag. When an active configuration changes, the Changed Flag will appear. It will disappear when the active configuration is saved to a file.
- Screen Selection: The Number of choices depends on the type of machine (lx vs. xt). Selecting the screen will move Guardian's main GUI to that screen.
- Restart Button

Common Settings for all Sources/Priorities

Show the PRIORITY number
in the text message:

Show the SOURCE Key
in the text message:

Show the CATEGORY
in the text message:

Blink duration
(in seconds):

Audio duration
(in seconds):

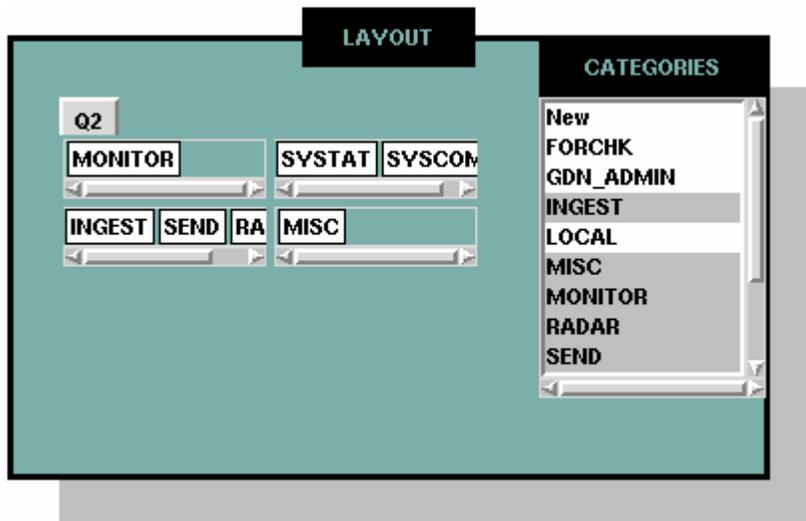
Expand Popup
information:

Length of Message Log
for each category:

Time (min) after which
this configuration will
revert to the default:

Common Settings

- Show Priority Number in the text messages
- Show Source Key in the text messages
- Show Category in the text messages
- Duration of blink in seconds (if enabled for test message)
- Duration of audio in seconds (if system audio is enabled for text message)
 - If the duration for blink or audio is set to zero ("0"), it will be considered perpetual and will continue until manually acknowledged.
- Show expanded or condensed pop-up (for pop-up enabled messages)
- Number of messages to show in message logs
- Number of minutes when the configuration will revert to default (not yet enabled in Alpha Test and may not be implemented in the operational version.)



Layout/Categories

- Choose layout (by left clicking the current Layout button). Applies immediately after choice is made.
- Create new Category (by selecting "New" from the list)
- Delete Customized categories (by right click on Custom category). Cannot delete non-custom (ie: delivered) categories.
- Define which Categories will be displayed in which of the text sections based on the chosen Layout (by left-clicking and dragging the categories back and forth between the Category list and the Layout lists). Categories that are grey are already in a Layout section.

The screenshot displays a configuration window with the following components:

- SOURCES List:**
 - New
 - ANNOUNCER
 - FFMP
 - GDN_ADMIN
 - SCAN (highlighted in green)
- Apply Change** button
- PRIORITIES Table:**

	high	0	1	2	3	4	low
text:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
blink:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
popup:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
audio:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
action:	<input type="checkbox"/>						
background:	blue	red	yellow	green	blue	white	
foreground:	red	white	black	black	black	black	
- Monitor Settings:**
 - Monitor Bitmap:
 - Min. Time Interval:
 - Monitor Executable:
- Legend:**
 - Regular
 - Monitor
 - Omitted Monitor

Keys/Priority Settings

- View settings for chosen Source Key.
 - If Monitor Bitmap is defined, the Source key is considered a *Monitor*.
 - Source Key listing is color-coded to reflect Key status.
- Create new Source Key (by selecting "New" from the list)
- Omit/Include Monitors (by right-clicking on the Key for a selection)
- Number of seconds less than which repetitive messages will not be displayed. (This is not yet Implemented in Alpha and may not be implemented in the operational version.)
- Action settings for each priority for each Source Key
 - Text, Blink - toggle on/off. Blink is initially linked to text.
 - Pop-up - toggle on/off and provide bitmap file if desired (must be in \$FXA_HOME/data).
 - Audio - toggle on/off and provide audio file if desired. File must be in \$FXA_HOME/data/sounds.
 - Action - executable file name to execute. File must be in \$FXA_HOME/bin.
 - Define the text color and background color used in the Text Section and Pop-up windows. You can type in a color of hex-color word or right-click to use a provided GUI for color selection.
- A change in settings yields the Apply button. *Changes in Key/Priority settings will not be applied until explicitly applied with the button.*

HOW DO I . . . ? ?

Send a message to Guardian?

There is a stand-alone executable called `sendMsgToGuardian` that can be either called from the *command line* or called by a *system call* in a script or piece of un-linked code. (AWIPS code should already have the Guardian libraries available, so AWIPS code can use the `GDNmessage` class `send` method.) The command format is this:

```
sendMsgToGuardian key priority category text
```

key = Source Key (all upper case letters)

priority = importance of message (see the Priority Definitions section): ranges from 0 to 5

Category = one of the defined categories

Text = the full text of the message. If multiple words (as is likely), surround text in quotes (“).

Minimize the main Guardian GUI?

Currently, there is no way to do this, but we are working on it.

Stop/Start Guardian?

Guardian will start upon login. To stop it manually, issue the command **stopGDNprocessor**. To re-start it manually, issue the command **startGDNprocessor**. As of Alpha 2, you can also use the Restart button in the Configuration GUI.

Uninstall Guardian?

If you think Guardian software is just mucking up your system or workstations, and Tom is unavailable to help, you can uninstall with the following command (as user `root` on `ds1`). This should be done only in an ‘emergency’. BUT FIRST: make sure both `SCAN` and `FFMP` are turned off (as user **fxa on px1**) and no `D2Ds` are running on the target workstations.

```
su - fxa
ssh px1
stopFFMPprocessor
stopSCANprocessor
exit
exit
/data/local/Guardian_AT/GDN_Alpha###_@@@_uninstall.sh
su - fxa
ssh px1
startFFMPprocessor
startSCANprocessor
```

where `###` is the alpha version (zero, one, etc) and `@@@` is your WFO ID.

PRIORITY DEFINITIONS!

One of the keys to the success of Guardian is a **common understanding of the priorities**. If AWIPS software developers and AWIPS users have a significantly different idea of what priority 1 or 3 is, the flexibility of Guardian settings will lose its value, as users may have to set different settings for the same priority number for different Source Keys. The online Tips help in the Guardian GUI lists the priorities and their assumed common definition. These definitions are also provided here:

Priority	Description
0	Information that must be acted upon immediately and must not be ignored!! This would include “emergency” information.
1	Due to significant importance, the software developer suggests the use of a pop-up, or some other significant emphasis. This may not be an “emergency”, but it is still very important.
2	
3	
4	
5	Perhaps not even important enough for a notice of any kind. Mostly informational. Verbose.

fxaAnnounce Priorities to Guardian Priorities

ROUTINE	4
SIGNIFICANT	2
URGENT	1

fxaAnnounce Categories to Guardian Categories

RADAR	RADAR
LOCAL	LOCAL
SYSTEM	SYSTAT

CATEGORY DEFINITIONS!

Another key to the success of Guardian is a **comprehensive list of well-defined message Categories**. If AWIPS software developers and AWIPS users have a significantly different idea of what Guardian categories are, the comprehensiveness of Guardian will lose its value, as users may be confused about why a certain category message contains the subject matter it does. Here are some Categories that are likely to be fielded and their definitions:

Category	Description
FRCST	Related to forecast expiration and preparation.
GDN_ADMIN	This is an internal Guardian Administrative Category and should not be used by any other application, except Guardian itself.
LOCAL	This is equivalent to the LOCAL fxaAnnounce category.
MISC	Miscellaneous.
MONITOR	A message sent from some sort of monitor program that is intended to send information to the Monitor buttons in the main Guardian GUI. These are not necessarily intended for normal text display and thus should be treated as a special category.
RADAR	This is equivalent to the RADAR fxaAnnounce category.
RDR_INGEST	Ingest of radar data.
RDR_STAT	Radar Status
SVRWX_OBS	Related to Severe Weather observations and alerts.
SVRWX_OPS	Related to Severe Weather Operations – <i>generally a category of greater importance.</i>
SYS_COM	Relating to System Communications in general. This could have to do with the health of AWIPS IPC or other communication channels inside the AWIPS system.
SYS_STAT	Relating to the AWIPS system in general. This could have to do with general AWIPS health or AWIPS machine health. This is also equivalent to the SYSTEM fxaAnnounce category.
TEST	Generic test Category.
TXT_PROD	Related to Official Text Products – receipt and transmission.