

Allstar Environment File Variable Definitions

The `/usr/local/etc/allstar.env` file is a user configurable file which determines boot parameters for your Allstar system. When Allstar boots there are certain default parameters that are set. You can change settings in this file but make sure you know the consequences of those changes before you do. Any changes require a reboot to take effect. Here is a list of available variables and their default parameters along with a description of what they do. Note that some variables have been added and may not be in every version of `allstar.env`. The **absence** of a variable defines it as **enabled**. ALL variables are preceded by the “export” command - **export variable_name=”disabled|enabled”**

NODE1=1998

This is set to the node number of the first Allstar node on this server. This value is set automatically at setup and is used throughout the Allstar system to reference the first node. Shown here it is set to the start value before setup. Once your system is setup it will reflect your actual node number. Note changing this value DOES NOT change your overall node number. That must be done in the main menu.

START_DELAY=0

This is set to 0 by default and normally should stay there. This adds additional seconds of delay before starting Asterisk in situations where it might be necessary. This was used on the Beaglebone Black but is not needed on the RPi2/3.

FIREWALL=”disabled”

The firewall is disabled by default and in most cases is not necessary if you are running nat'ed behind a router. In cases where you are directly connected to the Internet the firewall should be enabled. The default firewall settings allow normal operation of Allstar. If you need to change a parameter the configuration file is `/etc/openvpn/firewall`.

VPN_NETWORK=”disabled”

VPN is disabled by default. Enabling runs the `/etc/openvpn/start-openvpn` script. Client settings are located in `/etc/openvpn/client.conf`

WATCHDOG=”enabled”

The watchdog is generally enabled by default but may vary in different versions. It is recommended to enable the watchdog especially in situations where you do not have easy access to the hardware. The watchdog will reboot the system if a crash occurs.

SAY_IP_AT_BOOT=”enabled”

This is enabled by default. When enabled the system says its private IP address at boot. If a node radio is connected and properly configured you will hear this on its transmit frequency.

HWTYPE="RPi2 | BBB"

This variable is set to your hardware type at setup. RPi2 would be set for any Pi system.

PRIVATE_NODE=0

This is set to 0 or 1 depending on whether you specified this to be a private or public node in setup.

SHUTDOWN_MONITOR="disabled"

The shutdown monitor is a hardware shutdown method using one of the Pi's GPIO pins. The hardware howto for this method is on the hamvoip.org website

LOAD_DAHDID_AT_BOOT="enabled"

This would be disabled only for testing purposes.

LOAD_ASTERISK_AT_BOOT="enabled"

GET_NODELIST_UPDATES="enabled"

This would be disabled only for testing purposes.

SHOW_MORSE_AT_BOOT="enabled"

This is enabled by default and shows the assigned local IP address in morse code on the LED display.

START_SUPERMON_AT_BOOT="enable"

This is enabled by default and runs the Supermon startup script. Disable only if you are never going to use Supermon.

Boot notes

Any user specific functions or programs that you wish to add to the system that must be run automatically at boot and do not have a systemd run script should be added to the /etc/rc.local script either before or after the rc.allstar script depending on whether you want it to run before or after Allstar executes.

Sourcing and using the Environment Variables

You may use any of these variables in personal scripts but the most useful one would be the \$NODE1

variable which defines your node number. While these variables are sourced (made available) to the root user at logon it is always good practice to source them in your script prior to using them. Here is a snippet on how to do that:

```
# source the allstar variables  
if [ -f /usr/local/etc/allstar.env ] ; then  
  ./usr/local/etc/allstar.env  
else  
  echo " Unable to read /usr/local/etc/allstar.env file."  
  exit 1  
fi
```

The important line is:

```
./usr/local/etc/allstar.env
```

which sources or reads the environment file.

Here is example of using an environment variable at the command line.

Lets say your node is 1998 and you wanted to say the time. You could type:

```
saytime.pl 1998
```

OR

```
saytime.pl $NODE1
```

with the same results.