

CHALK RIVER GRAPHICS

CrgSim Configuration Files

Configuration File Summary

Chalk River Graphics

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Why Configuration Files?

Each of the instruments has it's own location and size. On startup the instrument needs to know what size and where it should appear. The instrument needs to know if a bezel is to be displayed or not. Some of the instruments has specific parameters that are optional.

This information needs to be available somewhere. Since CrgSim does not alter the windows registry then the configuration information can be saved on one master configuration file or in individual configuration files.

Having one configuration file per instrument provides the greatest flexibility in a distributed system. To run an instrument on another computer it is only necessary to copy the instrument directory (or folder) to the new computer and start it up. Everything the instrument needs is available within it's own directory.

The following sections cover each of the CrgSim configuration files. Where two instruments by be displayed, one for the Captain and one for the first officer they are designated left for the captain and right for the first officer.

Common parameters

Most of the configuration files contain parameters specifying height, width, x location, y location, and bezel selection: The example below specifies an instrument of size 650 pixels located at x and y of 20. The bezel will be displayed with the instrument.

winx	20
winy	20
height	650
width	650
bezel	yes

PFD Configuration Files

Captain's side	crgpfdl.cfg
First Officer's side	crgpfdr.cfg

Each of the PFD configuration files contains the common parameters described above. The following parameters are additions to the PFD parameters:

To display a 737 style standby instrument include the following line:

```
stby      mode0
```

To display a 777 style standby instrument include the following line:

```
stby      mode1
```

There is some control over the brightness of the PFD. The range of the brightness parameter is from 0.0 to 2.0. For a brighter display use a larger number, for a dimmer display use a smaller number. To adjust the brightness add the following line to the configuration file where the actual value is one you select:

```
brightness 1,2
```

Standby PFD Configuration Files

Captain's side	crgpfdlstby.cfg
First Officer's side	crgpfdrstby.cfg

The PFD standby configuration files contain the common parameters described above.

Nav Display Configuration Files

Captain's Side	crgnavl.cfg
First Officer's Side	crgnavr.cfg

Each of the Nav Display configuration files contains the common parameters described above. The following parameters are additions to the Nav Display parameters:

In the ILS and VOR modes the Nav Displays show information similar to the expanded map display overlaid with the VOR or ILS pointers. To show only the VOR or ILS pointers include the following parameter:

showdata	no
----------	----

The TCAS symbols display an arrow indicating whether or not the aircraft is climbing or descending. The arrow is not displayed on traffic beyond a certain range similar to the prototype displays. To always display the arrow (if the aircraft is ascending or descending) enter the following parameter:

showaltdelta	yes
--------------	-----

To display the standby RMI instrument include the following line:

stby	yes
------	-----

Nav Display Standby RMI

The PFD standby configuration files contain the common parameters described above.

EICAS Configuration File

File Name crgeicas1.cfg

The EICAS configuration files contains the common parameters described above. The following parameters are additions to the EICAS parameters:

There is some control over the brightness of the EICAS. The range of the brightness parameter is from 0.0 to 2.0. For a brighter display use a larger number, for a dimmer display use a smaller number. To adjust the brightness add the following line to the configuration file where the actual value is one you select:

brightness 1,2

Map Configuration File

File Name crgmaps.cfg

The maps configuration files contains the common parameters described above. At this time there are no additional parameters associated with maps.

GoFlight Configuration File

File Name CrgGF.cfg

The GoFlight configuration file contains parameters to associate USB GoFlight hardware with Nav Display windows and with FSX radios. For example when a hardware radio is plugged into a USB socket it is given a logical number. This number usually stays the same as long as the hardware is not plugged into another USB socket. So some of the parameters below map a logical USB connector to a hardware radio. So the parameters below map logical radio one to the hardware radio we want to be nav1. Nav2 radio is mapped to logical radio 1. When the system is started the first time these mappings may not be (and probably are not) correct. To determine which hardware radio is which just change the frequency on the hardware and determine which radio in FSX is affected. Then change the mappings below to the correct values.

nav1	0
nav2	1
com1	2
com2	3

If you have two EFIS do the same kind of testing. The default EFIS hardware to logical EFIS mappings are below:

efisleft	0
efisright	1

There are also two X and Y values that determine where the small GoFlight window will be placed on the screen:"

xloc	291
yloc	292

If you are not using the CrgSim GoFlight drivers then you do not have to be concerned with any of the parameters in this file.

Communication Manager Configuration File

File Name CrgCom.cfg

There are two parameters in the Communications Manager configuration file:

xloc	30
yloc	30

If you want the Communications Manager window to start in another location just change the values above.

Clock Configuration File

File Name CrgClkLeft.cfg

The clock configuration files contains the common parameters described above. There are no additional parameters for the clock display,

Sim Interface Configuration File

File Name CrgSim.cfg

The simulator interface program has only one parameter. The parameter specifies the key that is used to identify key strokes entered on the FSX display that should be sent to CrgSim.

The default is the TAB key (TAB+1, TAB + 2, ...) and the parameter is:

crgkey tab

To turn off the ability to send keystrokes to CrgSim from FSX use the following parameter:

crgkey none

Utilities Configuration File

File Name CrgUtil.cfg

The Utilities program configuration file consists of screen locations where various windows will be opened. If this is of no concern then the defaults should work out OK.

Xloc	X location of the main screen
Yloc	Y location of the main screen
statusx	X location of the status screen
statusy	Y location of the status screen
autox	X location of the autopilot screen
autoy	Y location of the autopilot screen
radiosx	X location of the radios screen
radiosy	Y location of the radios screen

The following is an example of a valid set of parameters for the Utilities program:

xloc	288
yloc	30
statusx	296
statusy	100
autox	650
autoy	100
navx	296
navy	420
radiosx	650
radiosy	420

Optional Configuration Directory

When installing a new version of CrgSim it is common to copy the configuration files from the old system to the new system. For example the Captain's Nav Display configuration file (crgnavl.cfg) is copied from the old NavLeft directory to the new NavLeft directory. If upgrades are done infrequently this is not an especially difficult task.

However it is possible to bypass the need to copy configuration files completely by creating a top level directory called:

\CrgSimConfigs

Then copy all of your configuration files to that directory. Then when a CrgSim program starts it will look first to see if that directory exists and if so will use the configuration file located in that directory.

If the directory exists then all of the configuration files used on the selected computer must be located in the directory. It is not possible to have some configuration files in the directory and some configuration files located in the individual program directories as they are now.

Of course if you use more than one computer for CrgSim AND you want to use this feature then the top level directory must exist on all CrgSim networked computers.

Contact

You can contact us at sim30@[crgsim.com](mailto:sim30@crgsim.com). We are especially interested in your comments, any problems you might have with the programs, and things that you like (or don't like) about them.

After spending a large amount of time removing non-flight sim posts (drugs, counterfeit boots, ... for sale) we reluctantly had to convert the web site to read only.