



## CHANGING THE HORIZON ENGINE REFRESH RATE

---

The Horizon Engine refresh rate has traditionally occurred at a period of 50 ms.

To alter this rate on the PC, create a file called "C:\hznrate.txt". If this file exists when the show is opened, the rate is set based on the value found in the file. This number is the period to run, in milliseconds. If the file is not found, the default time of 50 milliseconds is used. The following table illustrates some refresh periods and the number of updates per second.

Remember, "hznrate.txt" contains only one line that begins with a number indicating the refresh rate in milliseconds.

In a similar fashion, the eiface.cfg file for the Playback/1024 can contain a line specifying how often the fade-DMX loop should be run on a Playback or the DMX loop is run on a 1024. The directive in the "eiface.cfg" file is "Refresh=xx" where xx is the time in milliseconds (just like in "hznrate.txt"). For example, the line

Refresh=45

Results in a DMX output rate of approximately 22 times a second.

Period (in milliseconds)	Update Rate (approx. loops per second)
100	10
50 (Default)	20
45	22
40	25
35	28
33	30
30	33
27	37

**Note:**

Since the 1024/Playback does not use a dedicated DMX output processor, the maximum recommended period is 45 (22 updates per second) for running a show on a Playback and 27 (37 updates per second) for running on a 1024 Ethernet Node.