



Summary: Some backup software requires that only one specific location be used for backups. This paper will explain how to setup your multi-bay High-Rely unit to be used with this type of software.

Whether configuring two drives or ten, with just a few steps the drives can be used to cooperate with your backup software and deliver backups on a schedule.

For example, suppose that you have 5 drive bays (for the purpose of Monday through Friday backups) with 5 separate media (drives) in each bay. However, your backup software only writes to one location "D:". So, on Monday you want drive 1 to be D:, on Tuesday drive 2 to be D: and so on. The following example list and batch file in conjunction with our utility, HRDM2, can help perform this process for you.

These batch files will edit the configuration file for HRDM2 and allow it to rotate to the appropriate drive. Once modified for your need, the batch file can be called from a post or prescript part of your backup job or scheduled to run before the backup job using the Windows Scheduler.

The first file will load a specific drive within a list into the HRDM2 .ini file when the batch file is run and the second batch file is used to rotate the list to the next drive when its run.

The only prerequisite to run these files is that the variables be setup appropriately and that HRDM2 be installed. The variables include a

Drivelist.txt file that contains the serial numbers and drive letters to be assigned in the order needed. HRDM2 need not be configured but only installed as this batch file will create the .ini file used by HRDM2.

The example file below, called Drivelist.txt, should list the drives in order as in the example below. The first value is the drive's serial number, then '=', then the drive letter it needs to become.

```
W2W3-56RI=D
HC3G-KJ78=D
QDR4-56RO=D
5E3G-T67G=D
PARJ-T67G=D
```

This file is used by the following batch files as a revolving list from which to create a new .ini file for HRDM2 to use each time it is run.

The first batch file, listed below, allows the user to swap the drive they would like into rotation when it is run, by setting the variable "Drive". In this example, the drive on the third line of the list (line 3) is the one that will always be mounted by HRMD2. However, it could just as easily be line 1.

```
REM ===== Please modify these variables as needed. =====
Set DriveList="C:\Program Files\Highly Reliable Systems\HRDM2\Drivelist.txt"
Set IniFile="%systemroot%\system32\HRDM2.ini"
Set Drive=3
REM =====

Set count=0
for /F %%V in ('Type %DriveList%') DO ( call :addcount "%%V" )
GOTO :eof

:addcount
Set /A count+=1
If %count% == %Drive% (
Echo [Drive Assignment]>%IniFile%
```

```

Echo %~1>> %IniFile%
Echo Restarting HRDM2...
Echo =====
Net Stop "HRDM2"
Net Start "HRDM2"
Echo =====
Echo HRDM2 Restarted
)
GOTO :eof

```

Alternatively to this method, you can create 5 .ini files (each corresponding to the serial # of the drive for the day) and 5 batch files and use the windows scheduler to run a different batch file each day. Each batch file would simply copy its corresponding .ini file to the windows\system32\HRDM2.ini and then restart HRDM2 as is done in the first batch file.

The second batch file, listed below, rotates to the contents of Drivelist.txt when it is run.

```

REM ===== Please modify these variables as needed. =====
Set Drivelist="C:\Program Files\Highly Reliable Systems\HRDM2\Drivelist.txt"
Set IniFile="%systemroot%\system32\HRDM2.ini"
REM =====

Set /P str=<%Drivelist%

CD.> tempfilehr2008.txt
for /F "skip=1" %%V in ("Type %Drivelist%") DO ( Echo %%V>>tempfilehr2008.txt

Echo %str%>>tempfilehr2008.txt

COPY tempfilehr2008.txt %Drivelist%
DEL /F tempfilehr2008.txt

Echo [Drive Assignment]> %IniFile%
Echo %str%>> %IniFile%

Echo Restarting HRDM2...
Echo =====
Net Stop "HRDM2"
Net Start "HRDM2"
Echo =====
Echo HRDM2 Restarted

```

So in order to setup the batch files. Simply create the Drivelist.txt file containing each of your drives in the order that they need to be placed into rotation (to get your drive's serial numbers, do a "dir" from the commandline or use the HRDM2 utility to display them). Then, copy the commands from this document and create your own batch file. Place the location of this file into your batch file. Attach your batch file to the post or pre-script process of your backup (if supported) or schedule using the Windows Scheduler. The rest is up to your backup software to backup to the specified location.