**PREPARING DISKS FOR ASM USE**

1. **Assign disks on the Storage and map it to the Host group on both DS. This is done on 10.234.17.10 remote to it administrator/stanbic**

Password for all Storage devices is P@ssw0rd

For ASM disks the format is

PNGORA12\_ASM<disknumber>\_<SAN1/2>

For example PNGORA12\_ASM16\_1 from SAN1/DS1 and PNGORA12\_ASM16\_2 from SAN2/DS2

1. **Identify the target ASM disks**

Manually create a list of disks that will be ASM/OCR/VOTING candidates, or use a script to build the list. I have used a script/command to build the sample list below.

Note: There should be a space between the hdisk candidate and the ASM name you will allocate.

#sddpcm\_get\_config -vl hdisk0 | grep -E "OCR|VOT|ASM" | awk '{ print $1 " " $5 }'

hdisk6 SSAFORA\_OCR01\_1

hdisk7 SSAFORA\_OCR02\_1

hdisk8 SSAFORA\_OCR03\_1

hdisk9 SSAFORA\_VOT01\_1

hdisk10 SSAFORA\_VOT02\_1

hdisk11 SSAFORA\_VOT03\_1

hdisk12 SSAFORA\_ASM01\_1

hdisk13 SSAFORA\_ASM02\_1

hdisk14 SSAFORA\_ASM03\_1

hdisk15 SSAFORA\_ASM04\_1

hdisk16 SSAFORA\_ASM05\_1

In order to create the “character” device for ASM to use the disks we need to know what the major/minor numbers are for the hdisk. This can be done by

1. **Identify the Major/Minor numbers**

You will need to identify the Major and Minor number for the hdisk, since they will be required in the next step. Note the “r” in front of the hdisk name.

#ls –al /dev/rhdisk6

crw------- 1 root system 18, 6 Mar 16 09:30 /dev/rhdisk6

In the example above major # is 18 and minor# is 6.

1. **Create the character device**

Create the character device that ASM will access and set the owner to oracle:dba with permissions 660.

#mknod /dev/SSAFORA\_OCR01\_1 c 18 6

#chmod 660 /dev/SSAFORA\_OCR01\_1

#chown oracle:dba /dev/SSAFORA\_OCR01\_1

STEP 3 needs to be performed for every ASM disk candidate before Oracle can use the disk.

Using an input file similar to the one above you could use the following script to create the ASM disks all at once.

Assuming the input file is /tmp/ ASM\_DSKS\_SAN2.out

#######################################

#!/bin/ksh

cat /tmp/ASM\_DSKS\_SAN2.out | while read A B

do

ls -al /dev/r$A | awk '{print $5$6 }' | awk -F "," '{print $1" " $2}' | while read MA MI

do

echo "# INFO: --> $A is $B is $MA,$MI"

echo "Changing Disk reserves"

chdev -l $A -a reserve\_policy=no\_reserve

mknod /dev/$B c $MA $MI

chmod 660 /dev/$B

chown oracle:dba /dev/$B

echo

done

done