How to rename ASM disks? (Doc ID 418542.1)

If all you planned to change the name of the disk, then the only thing  
 that should be necessary from Oracle's perspective is to change the  
 ASM\_DISKSTRING parameter on the ASM instance. Alternatively, you may be able to  
 just rename or create new symbolic links to the devices at the OS level.

Alternatively, you may be able to just rename. This is a dangerous operation because the ASM volume information is stored in the ASM disk header. We read that information when the disks are discovered; nothing is stored in the ASM instance.

This information includes the ASM disk name, what diskgroup it belongs to and  
 a whole lot of other information. ASM doesn't care about the disk name.

If renaming the disks corrupts the ASM header then you will need to recreate the  
 ASM diskgroups.

We recommend that you take a new full backup of the database before doing the  
 rename.

Please follow the below action plan before you attempt to rename the ASM disks  
  
 ACTION PLAN  
 ===========

1. Modify the asm\_diskstring parameter to include the new device path

From ASM instance, sqlplus prompt

sql>alter system set asm\_diskstring='<Existing device path>','<New device path>' scope=spfile sid='\*';

2. After the rename of the disks, asm diskgroups will gets mounted as per your asm\_diskgroups parameter description

3. Once the diskgroups were mounted, we can remove the old device path.

From ASM instance, sqlplus prompt

sql>alter system set asm\_diskstring='<New device path>' scope=spfile sid='\*';