**This is a document for the NetApp Side, if you are using it for the 3PAR side, there is a another document for this with basically the same steps apart for the bit where the ASM disks are created. For NetApp you don’t use “oracleasm” to stamp the disk headers. Just create the disks using DD command and then use the create diskgroup command from asm after modifying the “asm\_disksting” parameter so the ASM instance can see the disks created in step 1.**

**As root:**

cd /opt/contexts

mkdir prd-trads

mount /dev/db02vg/prdtradssuite /opt/contexts/prd-trads

chown oracle:oinstall prd-trads

cd prd-trads

:wq

ln -s /opt/contexts/prd-trads/tfs prd-trads

**As oracle:**

cd scripts

./GenerateDbBuildScripts.sh

Supply 3 parameters, e.g: 1st Param is the context (i.e. directory name), 2nd is ORACLE\_SID and 3rd is the ASM data file size in Gigabytes (choose any number for this third parameter on 3Par)

./GenerateDbBuildScripts.sh prd-trads PRDTRD11 10



Modify the “createASMfiles.sh” to make sure it will create the required disks with the required size.

vi /etc/oratab

(add the PRDTRD11 database in there)

ex

chmod u+x BuildDB\_ForClone.sh

./BuildDB\_ForClone.sh

(the SYS password will need to be the same as the source database – for cloning)

cat createASMDiskGroups.sql

(so we can see the ASM disk names which will be used above – as oragrid) e.g.:

CREATE DISKGROUP PRDTRD11\_DATA01 EXTERNAL REDUNDANCY

DISK 'ORCL:PRDTRD11\_DATA01'

ATTRIBUTE

'au\_size'='4M',

'compatible.asm'='11.2',

'compatible.rdbms'='11.2';

CREATE DISKGROUP PRDTRD11\_redo01

EXTERNAL REDUNDANCY

DISK 'ORCL:PRDTRD11\_REDO01'

ATTRIBUTE

'au\_size'='1M',

'compatible.asm'='11.2',

'compatible.rdbms'='11.2';

CREATE DISKGROUP PRDTRD11\_redo02

EXTERNAL REDUNDANCY

DISK 'ORCL:PRDTRD11\_REDO02'

ATTRIBUTE

'au\_size'='1M',

'compatible.asm'='11.2',

'compatible.rdbms'='11.2';

**Now back as oragrid:**

asmcmd@

ASMCMD> lsdsk

Path

ORCL:SUPEQD02\_DATA01

ORCL:SUPEQD02\_REDO01

ORCL:SUPEQD02\_REDO02

ORCL:TSTDB02\_DATA01

exit

We are going to create the disks:

ll /dev/db02vg/\*

Note: PRDTRD11\_DATA01 is from the createASMDiskGroups.sql above

Note: the device from ll /dev/db02vg/\*

sudo /etc/init.d/oracleasm createdisk PRDTRD11\_DATA01 /dev/db02vg/PRDTRD11DATA01

sudo /etc/init.d/oracleasm createdisk PRDTRD11\_REDO01 /dev/db02vg/PRDTRD11REDO01

sudo /etc/init.d/oracleasm createdisk PRDTRD11\_REDO02 /dev/db02vg/PRDTRD11REDO02

cd sql

sqlasm (this is an alias)

@/opt/contexts/prd-trads/oracle/admin/PRDTRD11/build/createASMDiskGroups.sql

To show the results:

@GetASMdiskgroups.sql

@GetASMdisks.sql

**Now to clone the prd-trads.**

Lets start up the listener on the target.

**As oragrid:**

lsnrctl status to get the location of the listener.ora file

Add a new SID DESC

**And reload the listener 🡪IMP🡨**

**As oracle:**

cd $TNS\_ADMIN

vi tnsnames.ora

add new database with hostname

**On Source database as oracle:**

cd $TNS\_ADMIN

vi tnsnames.ora

add new database with hostname

**Now go back onto the target as oracle:**

. ~/setenv for new database

ll $ORACLE\_HOME/dbs

to get the actual full path file

sqlsys (an alias)

create spfile='/opt/contexts/prd-trads/oracle/admin/PRDTRD11/pfile/spfilePRDTRD11.ora' from pfile;

startup nomount

exit

cd ~/alertlogs

create a symbolic link to the alert log (this is just for ease of use to find it in future)

cd /opt/contexts/prd-trads/oracle/admin/PRDTRD11/build

rman target SYS/<sys password>@PRDTRD01 auxiliary SYS/<sys password, must match “target”>@PRDTRD11

**The target is the original database**

**The auxiliary is the new database to be created.**

Then:

@Duplicate\_PRDTRD01\_to\_PRDTRD11.rman

exit

Make sure the output is spooled to file (it should do it by default). Then at the end find the all important scn: grep scn /opt/contexts/prd-trads/oracle/admin/PRDTRD11/build/Duplicate\_PRDTRD01\_to\_PRDTRD11\_00.out

**Now setup splex on the target (i.e. the database you have just created)**

**As splex:**

cd /opt/contexts/prd-trads/splex/

mkdir admin

cd admin

vi PRDTRD11\_splex\_2138.env

Be careful to check what the SP\_SYS\_HOST\_NAME, ORACLE\_SID and SPLEX\_ORACLE\_ACOUNT are set to

cd ~/env

ln -s /opt/contexts/prd-trads/splex/admin/PRDTRD11\_splex\_2138.env

cd /opt/contexts/prd-trads/splex/admin

cp PRDTRD11\_splex\_2138.env PRDTRD11\_splex\_2138\_start.sh

vi PRDTRD11\_splex\_2138\_start.sh

and uncomment the last line

cd ~/start

ln -s /opt/contexts/prd-trads/splex/admin/PRDTRD11\_splex\_2138\_start.sh

Now set the environment:

. ~/env/PRDTRD11\_splex\_2138.env

You will get an error: -bash: cd: /opt/splex/app/splex\_9.1/bin: No such file or directory

cd ~/app/software/SharePlex/9.1.3/b38/

Now follow instructions in S:\QuestTools\SharePlex\9.1.3\Shareplex\_Install\_version\_9.3.docx

To run the tpm file. i.e. get the tar file, untar it and then run the .tpm file

Once this has installed then reapply the environment (which should work without error)

. ~/env/PRDTRD11\_splex\_2138.env

cdspbin

**As oracle:**

This is a target database and new as well. Copied from an existing database with perhaps a different version of splex installed. So let us delete all the existing splex users:

sqlsys

select username from all\_users where username like '%SPLEX%';

drop user <splex username> cascade;

exit

ALSO DISABLE THE REQUIRED TRIGGERS 🡪 VERY IMPORTANT

**As splex:**

From above

. ~/env/PRDTRD11\_splex\_2138.env

cdspbin

Now run ora\_setup to create the splex oracle user (using a bequeath connection)

The user will be “SPLEX” because this is the target this should match SPLEX\_ORACLE\_ACOUNT in the spenv

./ora\_setup

There are instructions in S:\QuestTools\SharePlex\9.1.3\Shareplex\_Install\_version\_9.3.docx to assist

Now we want to start cop, stop post, set the params, start export (on source), and then reconcile before we start post.

cd /opt/contexts/prd-trads/splex/admin/

./PRDTRD11\_splex\_2138\_start.sh

Hit enter to get back to command prompt

cdspbin

./sp\_ctrl

stop post

stop post

This should error, but at least it confirms post is not working.

**Now as splex on source database:**

In sp\_ctrl

start export

**Back as splex on target database:**

In sp\_ctrl set the parameters, as these may be needed in the future when it is a source database

set param SP\_XPT\_KEEPALIVE 1

set param SP\_SYS\_SPM\_UNIX\_TIME 1

set param SP\_OCT\_REPLICATE\_SEQUENCES 0

qtatsp\_ctrl (ld8prdsrv-db02:2138)> qstatus

Queues Statistics for ld8prdsrv-db02

Name: prd-trads-sp1 (o.PRDTRD01-o.PRDTRD11) (Post queue)

Number of messages: 824739 (Age 0 min; Size 1269 mb)

Backlog (messages): 824739 (Age 0 min)

sp\_ctrl (ld8prdsrv-db02:2138)> help reconcile

Resynchronize ongoing replication with results of a hot backup/copy;

Post process must be stopped; use according to documented SharePlex procedure.

Usage: reconcile queue quename for datasrc-datadst

[seq number] [scn number] [lsn number] [to flush] [on host]

reconcile queue prd-trads-sp1 for o.PRDTRD01-o.PRDTRD11 scn 110975279520

start post

exit