**On Source database as splex:**

Now become splex on the source so we can setup capture.

As splex:

cd ~/env

choose a new port (not needed for firewall yet) – see shareplex manager for a free one

copy pre-existing env

cp PRDTRD01\_splex\_2128.env PRDTRD01\_splex\_2138.env

change the ports and possibly SP\_SYS\_PRODDIR for new version of splex e.g. export SP\_SYS\_PRODDIR=/opt/splex/app/splex\_9.1

**Pay special attention to**

**export SP\_COP\_TPORT=2302 🡪 this will be 23XX for SEF and AR and 21XX for Replicas**

**export SP\_COP\_UPORT=23020 🡪 this will be 23XX0 for SEF AND AR source and 23XX2 for**

**AR and 23XX3 for SEF**

**export SP\_SYS\_HOST\_NAME=l53devsrv-db21 🡪 this should be ideally a DNS entry but can be hostname**

**export SP\_SYS\_VARDIR=/opt/contexts/uat-trads/splex/var\_${SP\_COP\_TPORT} 🡪 do not forget to change the context when you copy from other file.**

**export ORACLE\_SID=UATTRD04 🡪 Do not forget to change this to the new db its connecting to.**

**export SPLEX\_ORACLE\_ACOUNT=SPLEX${SP\_COP\_TPORT} 🡪 for SEF and AR targets this will be SPLEX<context>**

**Before the next step,**

1. **we need to know if this is a new set up or existing setup we are repairing, in case of the new setup the empty folder structure for SP\_SYS\_VARDIR=/opt/contexts/prd-trads/splex/var\_<> needs to be created. You may need to get this from another server. Search for a copy of var\_nnnn\* in one of the directories.**
2. **On the source db check if the SUPPLEMENTAL LOGGING is enabled using the command “alter database add supplemental log data(primary key, unique) columns”.**

now make file u+x

and set the env

. PRDTRD01\_splex\_2138.env

cdspbin

now run ora\_setup

./ora\_setup

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

Now go to: cd /opt/contexts/prd-trads/splex

And copy an existing var\_????/config/ PRDTRD01\_config\_20180928\_01 to the new var\_???? folder

vi new config file and check contents. Especially the destination: Last parameter, we changed to: [ld8prdsrv-db02@o.PRDTRD11](mailto:ld8prdsrv-db02@o.PRDTRD11)

In folder: cd /opt/contexts/prd-trads/splex/admin

the actual env files should exist. If actual file is in ~/env file then move actual file to /opt/contexts/prd-trads/splex/admin and create a symbolic link. Now in admin folder:

cp PRDTRD01\_splex\_2138.env PRDTRD01\_splex\_start\_2138.sh

i.e. create the start script. vi this script and uncomment the last line (./sp\_cop -u${SP\_COP\_TPORT}\_${ORACLE\_SID} &)

cd ~/start

ln –s /opt/contexts/prd-trads/splex/admin/PRDTRD01\_splex\_start\_2138.sh

to create a link to the start file.

These files are used by ~/scripts/start\* and shut\*

Now start sp\_cop by

cd ~/start

./PRDTRD01\_splex\_start\_2138.sh

Hit enter

cop

shows you the sp\_cop instances running.

Now cdspbin

./sp\_ctrl

status (cop and cmd&ctrl should be running)

list config (should show two configs – both inactive)

If NEEDED ONLY add partitions command here.

add partition to TRDNDF set name = TRDNDF and condition = "descr = 'NDF'" and route = uat-etrads-sp1:uat-etrads-SEF\*uat-sef-sp1@o.UATSEF02 and tablename = SEF\_OWNER.ETD\_TRADES\_T

add partition to TUNDLNDF set name = TUNDLNDF and condition = "class = 'NDF'" and route = uat-etrads-sp1:uat-etrads-SEF\*uat-sef-sp1@o.UATSEF02 and tablename = SEF\_OWNER.ETD\_TRADE\_UNDERLYING\_T

add partition to TRDAUDNDF set name = TRDAUDNDF and condition = "descr = 'NDF'" and route = uat-etrads-sp1:uat-etrads-SEF\*uat-sef-sp1@o.UATSEF02 and tablename = SEF\_OWNER.ETD\_TRADE\_AUDIT\_T

add partition to TRDAUDNDF set name = TRDAUDNDF and condition = "descr = 'NDF'" and route = l53devsrv-db21:uat-etrads-SEF\*uat-sef-sp1@o.UATSEF04 and tablename = SEF\_OWNER.ETD\_TRADE\_AUDIT\_T

verify config PRDTRD01\_config\_20181001\_01

activate config PRDTRD01\_config\_20181001\_01 nolock

(only use the “nolock” option for this type as we are now about to export/copy the database).

Also:

stop export

so it does not continue to ping the unavailable destination.

Also at this stage, you might see the capture fails with errors like below.

“**Error 2020-03-11 14:17:24.016134 51221 139216640 Capture: Error reading block 0 from file +UATFX04\_REDO01/uatfx04/onlinelog/group\_6.263.1029719583**”

You might want to make sure that the parameter SP\_OCT\_OLOG\_USE\_OCI is set to 1. You can do this by running, “**sp\_ctrl (uat-fx:2310)> set param SP\_OCT\_OLOG\_USE\_OCI 1**” and then starting capture.

**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

**Pay special attention to**

**export SP\_COP\_TPORT=2302 🡪 this will be 23XX for SEF and AR and 21XX for Replicas**

**export SP\_COP\_UPORT=23020 🡪 this will be 23XX0 for SEF AND AR source and 23XX2 for**

**AR and 23XX3 for SEF**

**export SP\_SYS\_HOST\_NAME=l53devsrv-db21 🡪 this should be ideally a DNS entry but can be hostname**

**export SP\_SYS\_VARDIR=/opt/contexts/uat-trads/splex/var\_${SP\_COP\_TPORT} 🡪 do not forget to change the context when you copy from other file.**

**export ORACLE\_SID=UATTRD04**

**export SPLEX\_ORACLE\_ACOUNT=SPLEX${CONTEXT} 🡪 for SEF and AR targets this will be SPLEX<context>**

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 context> cascade; 🡪 **BE CAREFUL not to drop the users from any other context on SEF and AR databases**

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