Hey Anthony – Just an FYI – I haven’t developed procedures for this, but I wanted to let you know that because we’re encrypting EMP\_EMPLOYEE(EMP\_NATIONAL\_ID) in DSNTX00[123], DPNTS001, and soon DPNTP000 – there are a few extra steps that will be needed whenever we duplicate from one of those environments.

Basically when we duplicate, the encryption wallet used on the source database has to be copied to the destination database and the autologin wallet has to be recreated.  On the source database, you can find the wallet directory by running:

select \* from v$encryption\_wallet;

08:29:25 SYSTEM@dsntx001 > select \* from v$encryption\_wallet;

WRL\_TYPE             WRL\_PARAMETER                                                                    STATUS

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file                 /orahome/u01/app/oracle/admin/DSNTX001/wallet                                    OPEN

If you look in that directory, you will find two files:

aphmw1p.aetna.com:DSNTX001: pwd

/orahome/u01/app/oracle/admin/DSNTX001/wallet

aphmw1p.aetna.com:DSNTX001: ls -l

total 16

-rw-------    1 oracle   phmpds         2923 Dec  9 08:33 cwallet.sso

-rw-rw-r--    1 oracle   phmpds         2845 Nov 22 13:34 ewallet.p12

The real “wallet” file that holds the encryption keys is the “ewallet.p12” file.  The “cwallet.sso” is the autologin wallet.  It is a read-only copy of the ewallet.p12 wallet.

So, if you were going to duplicate from DSNTX001 to DSNTX002 for instance, you would do the following:

* After you shut down DSNTX002 to get ready to duplicate to it, rename the old wallet.  
  cd /orahome/u01/app/oracle/admin/DSNTX002/  
  mv wallet wallet.<date>
* Copy the DSNTX001 wallet to the DSNTX002 wallet location  
  cp -r /orahome/u01/app/oracle/admin/DSNTX001/wallet /orahome/u01/app/oracle/admin/DSNTX002/
* Recreate the autologin wallet for DSNTX002.  The orapki command below will prompt you for the wallet password.  That is found in eDMZ like other non-managed accounts where:  
  System=> NMA\_Oracle and Account => host\_DB\_account.  So in this case Account => aphmw1p\_DSNTX001\_ewallet. (F1shF00d)  
  rm /orahome/u01/app/oracle/admin/DSNTX002/wallet/cwallet.sso  
  . $SETUPENV DSNTX002  
  orapki wallet create -wallet /orahome/u01/app/oracle/admin/DSNTX002/wallet -auto\_login
* Do the duplication

After the duplication is complete and the new DSNTX002 database is opened up, confirm that the wallet is open.  
select \* from v$encryption\_wallet;

WRL\_TYPE             WRL\_PARAMETER                                  STATUS

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file                 /orahome/u01/app/oracle/admin/DSNTX001/wallet  **OPEN**

* Confirm that you can select the emp\_national\_id from emp\_employee.  If anything comes back you’re good.  If it complains that the wallet isn’t open, then something is up with the wallet.  
  select emp\_national\_id from pihms.emp\_employee where rownum <= 5;

EMP\_NATIONAL\_ID

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567438497

550471143

569892188

306988077

337624310

* You’re good to go.

Mike