

Q Replication

ASNCLP on USS

What is ASNCLP?

- * ASNCLP is a Java utility that allows you to administer Infosphere Replication Server subscriptions
 - * Multiplatform
 - * Before only the Replication Center allowed administration from a remote server/workstation
 - * At Euroclear the standard replication type on the mainframe is Q Replication, with this regard online utilities for z/OS were created
- * You can call it interactively or via a JCL procedure
 - * This function requires
 - * the PTF for replication APAR PK94590 and APAR PK85947 to be installed.
 - * Java 6
 - * IBM JDBC drivers 7, 8 or 9
 - * Our administration wanted to use the JCL interface

Sample ASNCLP script

```
SET TRACE OFF;
ASNCLP SESSION SET TO Q REPLICATION;
SET SERVER CAPTURE TO DBALIAS DBXX DBNAME DBXX;
SET CAPTURE SCHEMA SOURCE QASN;
SET SERVER TARGET TO DBALIAS DBYY DBNAME DBYY;
SET APPLY SCHEMA QASN;
SET RUN SCRIPT NOW STOP ON SQLERROR ON;
DROP QSUB DBXX_CEV_DEF_DCS_DBYY_CEV_DEF_DCS;
CREATE QSUB SUBTYPE U
(SUBNAME DBXX_CEV_DEF_DCS_DBYY_CEV_DEF_DCS
REPLQMAP RDBXX_QASN_DBNAME_RDBYY_QASN
PDBXX.CEV_DEF_DCS
OPTIONS
  HAS LOAD PHASE I
  CAPTURE_LOAD W
  START AUTOMATICALLY NO
EXIST
  TARGET NAME PDBXX.CEV_DEF_DCS
IN DB DBNAME DCCDDoot
CONFLICT ACTION D
ERROR ACTION D
);
QUIT;
```

ISPF interface for Q replication and Data Event Publishing at Euroclear

```
----- Q Replication Definition and Administration Tool -----  
COMMAND ==> _  
  
Request dataset:  
-----  
Option: Q (Q = Q replication / D = Data Event Publishing)  
Action: C (C = Create / D = Delete)  
  
Common options.....: CAP Schema  
Load Phase I (I = Automatic / E = Manual / N = No)  
  
Q replication options: APP Schema  
Capture load R (W=Warning / R=Refresh)
```

ISPF interface for Q replication and Data Event Publishing at Euroclear

- * Input file = Comma Separated Value
- * Generates code for Replication Queue Map, Q Replication and Data Event Publishing definition and removal
- * Input can come from different platforms and is flexible

OMVS Security on DB2 Started Task Users

- * Users should not have UID=0
- * From DB2 v9 onwards:
 - * FILEPROCMAX should be set to 00065535
sets the maximum number of file descriptors that a single process can have open concurrently, such as all open files, directories, sockets, and pipes.

ALU userid OMVS(FILEPROCMAX(00065535))

End User Security

- * TSO Segment

- * increase maxsize and size for execution of JZOS (JAR)

```
ALU USERID TSO(ACCTNUM('ACCT#') MAXSIZE(2000000) + SIZE(2000000)  
PROC(IKJOS390) UNIT(3390))
```

- * OMVS Segment

- * increase TIME and Workspace parameter (both JAR and DB2)

```
ALU USERID OMVS(UID(0000001504))  
ALU USERID OMVS(HOME('/u/USERID'))  
ALU USERID OMVS(PROGRAM('/bin/sh'))  
ALU USERID OMVS(CPUTIMEMAX(0000007200))  
ALU USERID OMVS(ASSIZEMAX(2147483647))
```

DB2 Configuration

- * Bind JDBC in USS
- * Set ZPARM DESCSTAT = YES

* More info:

<http://publib.boulder.ibm.com/infocenter/db2luw/v9r7/topic/com.ibm.swg.im.repl.zoscust.doc/topics/iiyrczosasnclponuss.html>