



IBM Software Group – TXSeries for Multiplatforms

TXSeries CICS

Migration considerations when migrating to TXSeries V5.1



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Migration Thoughts

- Two versions of TXSeries **cannot** co-exist on a machine
 - ▶ Migration of a single machine is therefore
 - Export CICS regions
 - De-install old version of TXSeries
 - Install new version of TXSeries
 - Import and migrate region definitions
 - ▶ Migration to a new machine is a simpler process
 - Less downtime
 - Opportunity for housekeeping
 - Opportunity to upgrade supporting software and retest



Migration Thoughts

- Ensure the latest level of supported software is installed
 - ▶ See <http://www.ibm.com/software/htp/cics/txseries/>

- Review any new resource definition attributes added and modify their values accordingly. For example:
 - ▶ TCPProcessCount [LD definition]
 - ▶ ServerMemCheckInterval [RD definition]
 - ▶ ServerMemCheckLimit [RD definition]

- Check user written scripts working against files such as the **console**, **symrecs**, or **CSMT.out** as message formats can change



Region Migration Steps

- Export the CICS regions to be migrated to an archive file
 - ▶ `cicsexport -r <region> -o <archive>`

- Import the CICS region on system with latest CICS level
 - ▶ `cicsimport -r <region> -i <archive>`

- Migrate the CICS region definitions to the latest level
 - ▶ `cicsmigrate -r <region> -g <script> -o <log>`
 - ▶ Run the upgrade script as generated by the `cicsmigrate` tool

 - ▶ `cicsmigrate <region>`
 - ▶ The command updates the region directly without needing a script

- Cold start the CICS region

AIXWindows

General Migration Steps

- SFS Server
 - ▶ Migrate any SFS application data using **cicssdt** or **sfsadmin** commands
 - ▶ Only migrate region's SFS files if data must persist the migration
 - Files called <region>CICS** and used for TS, TD, IC
 - ▶ Region will create the SFS files on first startup if missing

- Recompile any EAM and ESM modules (external security)

- Recompile any XA switchload files and run **cicsdb2conf** or **cicsoraconf**

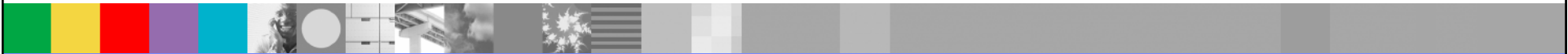
- If using Micro Focus Cobol, rebuild runtime libraries using **cicsmkcobol**

- Recompile all programs and BMS maps



Migrating to TXSeries CICS 5.1: Key points

- Use Run-Time Linking feature only when required (IBM AIX only)
 - ▶ In addition to the usual CICS application server executable (cicsas) that resides in /usr/lpp/cics/bin, a new version of that executable is being shipped with CICS release 5.1 on AIX. The non-runtime linked cicsas is installed as /usr/lpp/cics/bin/nortl/cicsas."
 - ▶ Users of CICS on the AIX platform, who do not require the runtime linking feature of AIX in their environment, can choose to use the non-runtime linked cicsas by setting the environment variable CICS_NORTL_CICSAS=1 in the region environment file.



Migrating to TXSeries CICS 5.1: Known issues

- With DB2 8.1, specify XAOPEN in the XAD stanza entry as:
XAOpen="DB=<dbname>,UID=<user-name>,PWD=<passwd>"
instead of:
XAOpen="<dbname>,<user-name>,<passwd>"
- With DB2 8.1 FP5 - DB2APP_DISABLE_SIGBUS_HANDLE=1 should be set in the region's environment file. (HP-UX Only)
- To enable programs to use embedded SQL with Sybase 12.5, you must pre-compile the programs with the following flags:
 - ▶ C/C++ : Pre-compile with the -V CS_VERSION_120 flag.
 - ▶ COBOL: Pre-compile with the -V CS-VERSION-120 flag.

