# upgrading to CA Gen 8 removing the "guesswork"

Letha Johnson, CA Principal Support Engineer



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# agenda

- Why Upgrade?
- From / To Release and Plan
- MSM or SAMPJCL
- Install Differences
- Compatibility
- References
- Q & A



# why upgrade?

- CA Gen 8.0 is the only supported release
- To run on a release that is compatible with certified 3rd Party products
  - DB2 v8.1, 9.1 and 10
  - z/OS v1.11, v1.12, and v1.13
  - CICS TS v3.2, v4.1, and v4.2
  - IMS v9, v11



# from / to release

- CA Gen Upgrade paths follows:
  - 6.0 thru r7.6 to 8.0
- If current release is older, must use intermediate release to CA Gen r7.6



# plan

- Upgrade In-Place or create new Encyclopedia
- Use of MSM or SAMPJCL and who will install
- Incorporate custom changes
- When will models be converted
- Encyclopedia testing
- Application testing
- Define resources



#### user exits

- In CA Gen 8.0, each user exit is now a stand-alone DLL
- Must rebuild and redeploy user exit changes
- Use MKUEXITS to build the stand-alone DLL



#### MSM or SAMPJCL

- MSM is a CA interactive process to acquire and install z/OS products and maintenance using SMP/E (Mainframe Software Manager)
- SAMPJCL is a manual process to unload and install z/OS products and maintenance using SMP/E
- For either install methods, it is highly recommended to immediately apply maintenance



#### **MSM**

- See Chapter 3 of the CA Gen z/OS Installation guide on how to install CA Gen 8.0 using MSM
- This chapter also includes how to install PTFs using MSM
- Must create a USS directory for the product software and PTFs
- This is the recommended path for software and maintenance installations



- This is a manual process to download the product software and maintenance
- The Aggregate Maintenance is contained in PAX files and individual PTFs and HOLDDATA are in binary format
- Download to PC and FTP to Host



GENSEDIT example:

YOUR.SDSNLOAD "DB2.DB2810.SDSNLOAD"

YOUR.SDFHLOAD "CICSSYS.CTS320.GA.CICS.SDFHLOAD"

YOUR.RESLIB DUMMY

YOUR.SCSQLOAD

MVSSYS.WASMQ.V7R0M1.PD00939.SCSQLOAD"



#### GEN3RECD / GEN3RECT

```
SET BOUNDARY (GLOBAL).
RECEIVE SYSMODS
RFPREFIX(AAAC.D.TEST)
FORFMID (
CEHB800 /* CA GEN BASE MODULES (COMMON MODULES) */
 CEG6800 /* CA GEN HOST ENCYCLOPEDIA */
 CEG7800 /* CA GEN IMPLEMENTATION TOOLSET */
 CEG8800 /* CA GEN CICS TCP/IP DIRECT CONNECT */
 CEG9800 /* CA GEN IMS TCP/IP DIRECT CONNECT */
 CEHC800 /* CA GEN COMMON CICS MODULES */
 CEHD800 /* CA GEN COMMON IMS MODULES */
 CEKP800 /* CA GEN CICS OPTION MQSERIES MIDDLEWARE */
 CEKZ800 /* CA GEN IMS OPTION MQSERIES MIDDLEWARE */
 CETA800 /* CA GEN BASE UNRESOLVED RUNTIME MODULES */
```





#### GEN4APP

```
SET BOUNDARY (CAITO).
APPLY
SELECT (
CEHB800 /* CA GEN BASE MODULES (COMMON MODULES) */
CEG6800 /* CA GEN HOST ENCYCLOPEDIA */
CEG7800 /* CA GEN IMPLEMENTATION TOOLSET */
CEG8800 /* CA GEN CICS TCP/IP DIRECT CONNECT */
CEHC800 /* CA GEN COMMON CICS MODULES */
CEKP800 /* CA GEN CICS OPTION MQSERIES MIDDLEWARE */
CETA800 /* CA GEN BASE UNRESOLVED RUNTIME MODULES */ ).
```



#### maintenance

- Recommend to apply maintenance immediately after product installation is complete.
- Maintenance JCL in SAMPJCL
  - Use the following when applying maintenance
  - GEN6RECP
  - GEN7APYP
  - GEN8ACCP (optional)



#### maintenance

Using PAX and Binary files for maintenance

```
//SMPPTFIN DD DISP=SHR,DSN=JOHLE05.TR37815

// DD PATHDISP=KEEP,

// PATH='/u/users/nfs/CAGen/JOHLE05/SMPPTFIN'

// DD DISP=SHR,DSN=HOLDDATA
```

For HOLDDATA and individual PTFs, use FB=80



#### install differences

- Library Names have changed and must be stay consistent for PTF applications (CEHB/CEG8/CEG9).
- Added PARMLIB to retain values that were in CLIST members TIUGLOB and TIRCFIGS
- Must change logon PROC to include TIUPARML allocation and new library names.
- Create SQL, JCL, and PARMLIB (FB=80, BLKSIZE=3120)



### install differences

- Eliminated TLIB library
- Package bind only for TIRPROFD –See CEJOB15R



# **PARMLIB – Host Encyclopedia**

- If Host Encyclopedia install, will have the following members:
  - JOBCARD
  - TILPARMS
  - TIRHE
  - TIRMFS (if IMS selected)
  - TIUHE
  - TIUHE2



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# PARMLIB - z/OS IT

- If z/OS IT install, will have the following members:
  - JOBCARD
  - TIRIT
  - TIRMFS (if IMS selected)
  - TIUIT
  - TIUIT2





# compatibility

- If upgrading from CA Gen r7.6, no regen or install is required.
   Modules can be mixed. Runtime is compatible.
- If upgrading from releases prior to CA Gen r7.5, then there may be various actions required.
  - User Exits Reinstallation
  - Using DLLs and the Compatibility Feature
  - Possible regen and/or reinstall applications



#### **Socket Server Listener**

- Carried forward from CA Gen r7.6 is the TISL and TIML
- Paper available on support.ca.com on TIML
- The single socket server listener handles requests from one socket at a time
- The multi-socket server listener can handle multiple socket requests at the same time
- Discontinued the use of the TICONMGR implementation of a listener



# upgrade assistance

- One or more conference calls with L1 and SE
- Open an issue
- Describe your environment
- Ask questions or give details on concerns



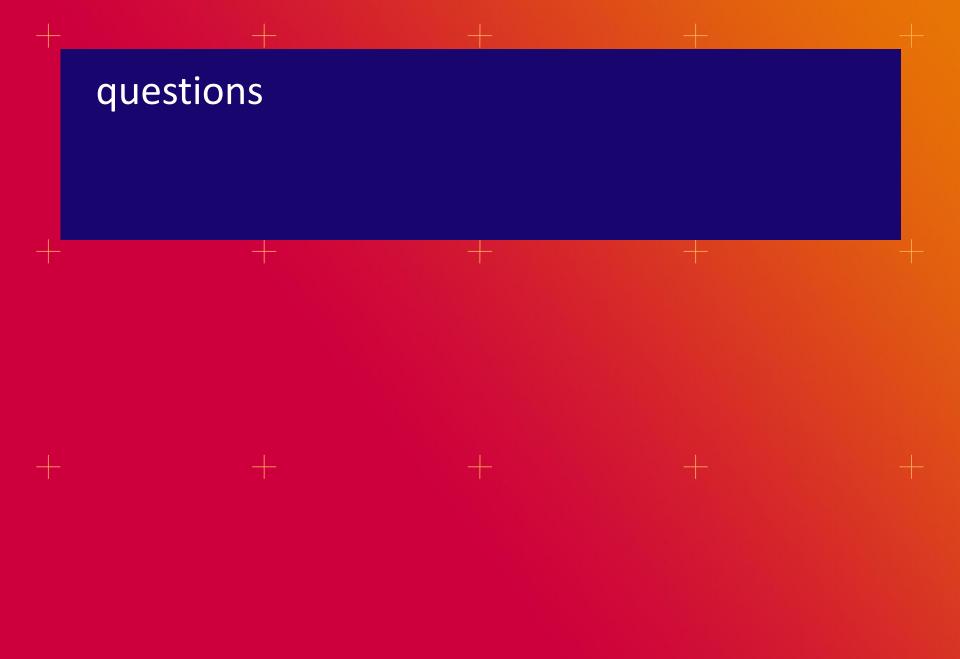
#### references

- CA Gen 8.0 z/OS Installation Guide
- CA Gen 8.0 z/OS Host Construction Guide
- CA Gen Technical Requirements r8
- CA Gen Release Notes

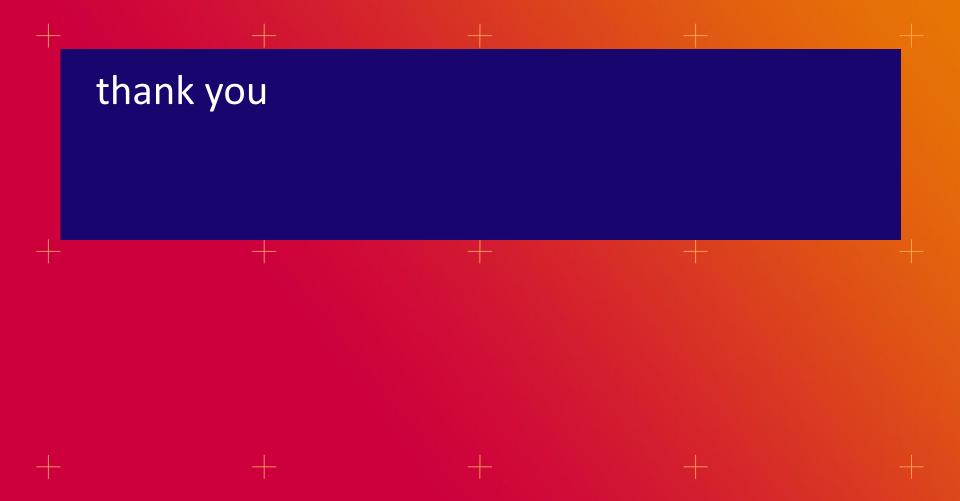




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