



CA Ideal Upgrade Topics

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Session Content

This session covers various upgrade issues that affect the CA Ideal environment. Considerations for planning to upgrade CA Ideal and/or any other CA Datacom components, as well as CICS Transaction Server upgrade issues are discussed. The impact on the CA Ideal environment when upgrading DB or CICS must be considered.



CA Ideal Upgrade Topics

- **WHAT** - CA Ideal, CA IPC, CA Datacom, CA Datacom CICS Services, IBM CICS Transaction Server
- **WHEN** – upgrade order
- **WHERE** – development, quality assurance, production environments
- **HOW** – to verify or do problem determination after the upgrade



WHAT

COMPRISES THE CA IDEAL ENVIRONMENT?



WHAT

CA Ideal is an *Interactive Development Environment* for *Application Lifecycle* executing in CICS

- CA IPC - Inter-Product Components
 - EDK Editor Kernel
 - PDF Panel Definition Facility
 - PMS Panel Management System
 - PSS Print Sub-System
 - SCF Session Control Facility
 - VLS Virtual Library System
 - VPE Virtual Processing Environment

- CA Datacom products
 - Datadictionary (DSF)
 - Datacom CICS Services



WHAT

CA Datacom/DB and Datadictionary

- Collection of tables describing entities – PROGRAMs, PANELs, REPORTs, DOCUMENTs, etc.
- RELATIONSHIP table “connects” entities together
- CA Ideal uses DSF (Datadictionary Service Facility) to
 - Access the Datadictionary database
 - Maintain entity-occurrences
 - Handle aliases
 - Handle text
 - Maintain relationships



WHAT CA Datacom CICS Services

- DBC is the CICS interface with MUF and handles URTs and thread management
- DBOC INQ=GENOPTS
 - displays MUF jobname and verifies release levels and options



WHAT

VLS - Virtual Library System Data Sets

■ VLS Libraries

- **ADRLIB** product messages updated for new release IPC & Ideal
- **ADRPNL** product panels/options updated for new release IPC & Ideal
- **ADROUT** spool file for output updated for new release Ideal
- **IDDAT** MEMBERS (startup, JCL), NOT affected by release upgrades
- **IDDVW** DATAVIEW object and source (seq., VSAM), NOT affected by upgrades
- **User Source** NOT affected by upgrades
- **User Panel** NOT affected by upgrades
- **User Object** NOT affected by upgrades



WHAT

IBM CICS Transaction Server For z/OS

- SIT - System Initialization Table
 - Startup parameters including suffixes for FCT, PLTPI
- FCT - File Control Table assembled for BDAM (re-assemble if CICS releases changes)
 - Contains an entry for each VLS (BDAM) file
- TDQ – Transient Data Queue Definitions via CSD copybook
 - ADRT trace file
 - ADRL error log
 - IRDR internal reader
- PROGRAM & TRANSACTION Definitions via CSD copybook



WHAT CA Currently Supported Releases

- CA Ideal 14.0, 15.0, 15.1
- CA IPC 14.0, 15.0, 15.1
- CA Datacom/DB 14.0, 15.0, 15.1
- CA Datacom CICS Services 14.0, 15.0, 15.1



WHAT

IBM currently supported releases

- IBM CICS Transaction Server for z/OS 5.3 includes CICS 7.0
- IBM CICS Transaction Server for z/OS 5.2 includes CICS 6.9
- IBM CICS Transaction Server for z/OS 5.1 includes CICS 6.8
- IBM CICS Transaction Server for z/OS 4.2 includes CICS 6.7
- IBM CICS Transaction Server for z/OS 4.1 includes CICS 6.6



WHEN

ORDER CAN BE IMPORTANT



WHEN May Vary Based on Current Release Levels

Example #1

- Currently running Ideal/IPC 14.0 at CTS 4.1 and DB 14.0
- Upgrade to DB 15.0 first
- Must upgrade both IPC and Ideal to 15.0 to correspond
- Ideal/IPC 15.0 requires DB 15.0



WHEN May Vary Based on Current Release Levels

Example #2

- Currently running Ideal/IPC 11.0 at CTS 3.1
- Cannot upgrade IPC to 14.0 until CICS is upgraded
- Cannot upgrade CICS beyond CTS 4.2/CICS 6.7 with VPE 11.0



WHEN May Vary Based on Current Release Levels

Example #3

- Currently running Ideal/IPC 11.0 at CTS 4.1 and DB 12.0
- Upgrade to DB 14.0 first OR after upgrade to IPC AND Ideal 14.0
- Must upgrade both IPC and Ideal to 14.0 to correspond
- Ideal/IPC 14.0 will execute with DB 12.0



WHERE

TEST, DEVELOPMENT, QA, PRODUCTION?



WHERE

Development or Production Environments

- New install or upgrade?
- Typically a development environment will be upgraded, followed by production
- Upwardly compatible
- CA Ideal applications compiled with 1.0 will RUN in CA Ideal 15.1 and beyond
- Programs compiled with a higher release will NOT Run in a lower release



WHERE

Development Upgrade Before Production

- CA Ideal batch PROC to re-compile in lower release
- Save the development PROC for the old release of CA Ideal
 - ADRPNL & ADRLIB at old release level
 - CAVQLOAD and CAILLOAD at old release level
 - IDEAL and IPC CUSLIBs at old release level
 - IDEAL source, object and panel files used in new release development
- TEC1909582 “Running Parallel Versions/Releases When Upgrading CA Ideal”
- <http://www.ca.com/us/support/ca-support-online/product-content/knowledgebase-articles/tec1909582.aspx>



HOW



HOW

To Reset Options, Verify and Debug

- Review and save option settings
- PRINT SESSION OPTIONS
- SET OUT SITE
 - PRINT SCREEN
- SET COMMAND SITE
 - PRINT SCREEN



HOW

Re-set Options

- CREATE MEMBER *resetopt* containing the SET commands
- EXECUTE *resetopt* after upgrade is complete
- D SES OPT for Ideal Options
 - SET SITE VERSION: *LAST/PROD/nnn*
- SET OUT SITE for PSS “site” options
 - Name of the batch JCL proc: *PSSUTIL*
 - System name: *PSS*
 - Prefix name: *PSS#*
 - Maximum number of output members *0500* (*10-9999*)
- SET COMMAND SITE for SCF “site” options
 - Number of command lines: *3* (*0-5*)



HOW Verify or Debug

@I\$INTERNAL STATUS

- verify releases of DB/DD/IPC and display SCF options assembled in SC00OPTS

@I\$SCF PGM=

- dump any module in batch or online

DISPLAY PCT

- all CICS transactions invoking SCF modules or DFHWBA
- data from assembled tables SC00TRAN, SCASTRAN, SCWBTRAN

DISPLAY AUTH

- data from assembled IDOPTS with last modified date/time
- shows authorization levels for all commands and SITE OPTIONS



HOW @I\$INTERNAL STATUS

IDEAL 14.0 RELEASE LEVELS

IPC VERSION: 14.0

D-D VERSION: 14.0

D-B VERSION: 14.0

IDEAL OPTIONS

DB: Y

DBSQL: DATACOM

DB2: N

VSAM: Y

SCF OPTIONS

QCODE: E

SECRTY:Y



HOW @I\$SCF PGM=

SCF Debug

Address=B5C72000

PGM= DDOLIUSP

OFF= _____

USE= _____

```
00000000 +000 47F0F010 FF97BDCF 0D080000 00000000 *.00..p.....*
00000010 +010 90ECD00C 18BF47F0 B0D60000 00000000 *..}....0.O.....*
00000020 +020 CA7BD4C9 C4CA0100 004800A8 00000020 *.#MID.....y....*
00000030 +030 C4C4C9E4 E2D7D940 40C3C1C1 C4C6F0F0 *DDIUSPR CAADF00*
00000040 +040 4040A1D9 D4C9C44D D9D6F8F7 F4F5F25D * ~RMID (RO87452) *
00000050 +050 A140F2F0 F1F6F0F1 F0F440F1 F74BF3F4 *~ 20160104 17.34*
00000060 +060 40000000 00000000 C3C140C4 81A38183 * .....CA Datac*
00000070 +070 9694AF61 C4C240C4 81A38184 8983A389 *om./DB Datadicti*
00000080 +080 40D9F1F5 4BF04040 406040C3 D6D7E8D9 * R15.0 - COPYR*
```



HOW Display PCT

TRAN ID	INITIAL PROGRAM	TYPE OF ENTRY	TWA SIZE	PRD	TRNDATA	USR.MEMBER	SEC?
CWBA	DFHWBA	WEB INTF.	0		Transaction not in SCWBTRAN		
CWU	DFHWBA	WEB INTF.	0		Transaction not in SCWBTRAN		
DBRA	SC00INIT	FINAL-ID	64	IDL		\$ID.DBRA	
DBRB	SC00DISP	ACCOUNT-ID	64				
DDOL	SC00INIT		12	DDO			
DDOX	SC00INIT		12	DDO			
DEBG	DFHWBA	WEB INTF.	64		Transaction not in SCWBTRAN		
DIAL	DFHWBA	WEB INTF.	64		Transaction not in SCWBTRAN		
IBIN	DFHWBA	WEB INTF.	64		WWW.WEBIMAGE(001)	WWW.SIGNON	
IDAV	SC00NATD	ASYNC	64		\$ID.ASYNCVER(0001)	\$ID.SIGNON	



HOW Display AUTH

IDOPTSCB LAST MODIFIED 04/12/12 14.48

AUTHORIZATION NAMES	PRIMARY LEVEL	SECONDARY LEVEL
ALTER-PROGRAM	ADMIN	N/A
ALTER-SIGNON-PANEL	ADMIN	N/A
CATALOG-DATAVIEW	DATAVIEW-ADMIN	N/A
COMPILE-ONLINE	UPDATE	N/A
COMPILE-BATCH	UPDATE	N/A
COMPILE-SYNC	UPDATE	N/A
COPY-PROGRAM-ACROSS-SYSTEM	UPDATE	CONTROL
COPY-MEMBER-ACROSS-USER	ADMIN	N/A



HOW Display AUTH;BOTtom

SITE OPTIONS

DATAVIEW LIBRARY	IDDVW
MEMBER LIBRARY	IDDAT
....	
IDEAL PANEL IDENTIFIER	DIDE
TRANS ID FOR LOAD MODULE TASK	IDPI
VERIFY LOAD MODULES AT PLT?	NO
BUILD LOAD MODULE TABLE?	DD
ADD LOAD MODULE PPT ENTRIES?	REFRESH
PSW VISIBLE IN DISPLAY USER?	YES
...	



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