

Resource Definition Online

Hints and Tips



Session: E65



[RETURN TO INDEX](#)

AGENDA



-
- Introduction - E65 RDO Hints and Tips
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 - contact: srjones@us.ibm.com
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 - Objective
 - RDO History
 - CICS Resource Requirements
 - Commands and Utility
 - Migration and Compatibility
 - Security and Recovery
 - Autoinstall Programs
 - Tidbits and Performance




▲ Objective

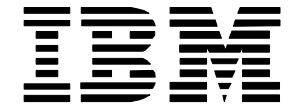
- Provide you with tips and techniques to manage your CICS resources with minimal work effort for you and minimal disruption to CICS ' availability

▲ LEGEND

● RED + UNDERLINE = CICS 2.3 only comment

★ BLUE +  = CICS TS only comment

RDO HISTORY



▲ CICS/VS 1.5

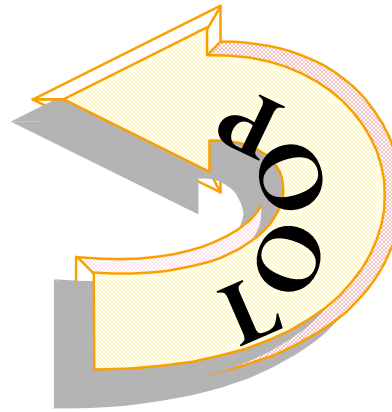
- Define CICS resources via table macros
 - Assembly and test
 - CICS shutdown and startup
 - Iterative process

▲ CICS/VS 1.6

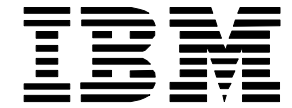
- RDO introduced
 - Program Control resources (PCT)
 - Program Process resources (PPT)

▲ CICS/VS 1.7

- RDO extended functions
 - VTAM terminals resources and autoinstall program
 - Communication resources



RDO HISTORY...



▲ CICS/VSE 2.1

- RDO enhancements
 - DYNAMIC on TRANSACTION parm
 - Autoinstall delay parm

▲ CICS/VSE 2.2

- RDO enhancements
 - UCTRAN for profile resource
 - RESIDENT parm for map resource
 - DFHCSDUP EXTRACT and DEFINE commands

▲ CICS/VSE 2.3

- RDO enhancements
 - NATLANG parm (German and Chinese)
 - Terminal print IMMED parm
 - Last release to support (PPT, PCT, and TCT for VTAM))



WARNING

A yellow triangular warning sign with a black border and the word 'WARNING' written in red capital letters in the center.

RDO COMPONENTS



▲ RESOURCES:

- BMS mapsets/partitionsets
- Programs
- Transactions
- Profiles
- Communications
 - ◆ Terminals
 - ◆ Connections
 - ◆ Sessions

- Partners
- Files
- LSRs
- Tclass(s)



▲ GROUPS: Definition of one or more resources, that maybe associated together (maybe associated by application, packaging , author...etc).

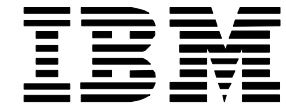
▲ LISTS: Group(s)/resource(s) identified as accessible during a COLD-start of CICS.

▲ CICS System Definition (CSD): VSAM data set used to define/maintain RDO resources.

- Management via CICS programs, transactions, and batch utility

★ NOTE: CICS TS provides a description field for each resource defined in the CSD (58 chars)

RDO REQUIREMENTS



- CSD - KSDS/VSAM

- Need calculate file sizes:

- 1 record per resource
 - 2 records per group
 - 2 records per list
 - 1 record per group within list

- ◆ Total records supplied by CICS 500 708
- ◆ Total records supplied by BOE 1091 1944



CA Splits due to > # records?

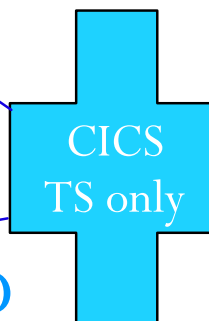
Type of RESOURCE	<u>CICS 2,3 bytes</u>	<u>CICS TS bytes</u>
Transaction definition	100	309
Profile definition	90	164
Program definition	80	169
Partition set definition	80	135
Mapset definition	80	135
Terminal definition	250	314
Typeterm definition	270	325
Connection definition	110	200
Session definition	200	240
Group	120 x2	122 x2
List	120x2	122x2
Group name within list	70	66
File	NA	277
LSR Pool	NA	224
Partner	NA	210
Tranclass	NA	134

RDO REQUIREMENTS...



▲ Loading the CSD

- DFHCSDUP - needs LIBDEF PRD2.SCEEBASE
 - Initialize
- Migrate
- DEFINE/COPY command



▲ EXEC CICS CREATE / DISCARD

▲ VSE/ESA supplied CSD definition (VSAMINIT.Z)

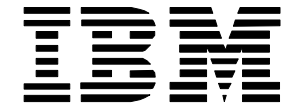
```

DEFINE CLUSTER(NAME(CICS.CSD) -
INDEXED -
RECORDSIZE (120 500) -
RECORDS (4000 1000) -
KEYS (22 0) -
CISZ(4096) -
FREESPACE (50 10) -
SHR(2) -
VOL(DOSRES)) -
DATA(NAME(CICS.CSD.@D@)) -
INDEX (NAME (CICS.CSD.@I@)) -

CATALOG(VSESP.USER.CA...
    
```



RDO REQUIREMENTS ...



▲ CICS 2.3 RESOURCES

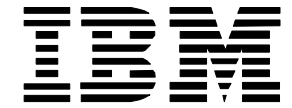
- SIT (defaults)
 - GRPLIST=DFHLIST
 - AUTOINST=(100,DFHZADTX,700,0)
- DBP default NO
 - 1\$ vs 2\$
- DCT - DFH\$DCT or IESZDCT (view online)
 - CADL - VTAM terminal installs and deletes
 - CSDL - RDO commands
- FCT
 - CSD - DFH\$FCT (includes all request)
 - RSD

▲ CICS TS RESOURCES

- SIT
 - GRPLIST=DFHLIST,USERLIST
 - AIEXIT=DFHZATDY
 - AILDELY=0
 - AIQMAX=100
 - PGAICTLG=ALL
 - PGAIEXIT=DFHPGADX
 - PGAIPGM=~~INACTIVE~~
- DBP=must code
- DCT=SP (IESZDCT) or DFH\$DCTR
 - CADL/CSDL (same as CICS 2.3)
 - CAIL-Autoinstall term models entries (install/del)
 - CSFL-Files entries installs and deletions
 - CSKL-Transaction and profile installs and dels
 - CSPL-Program entries installs and deletes
 - CSRL-Partner install or discard
- CSD must not reside in FCT
 - CSDACC=READWRITE,
 - CSDBUFND/CSDBUFNI=
 - CSDSTRNO=4/CSDLSRNO=1
 - CSDRECV=NONE,ALL,BACKOUT
 - CSDFRLOG=SYSTEMLOG,xxxx/CSDJID=
- GCD/LCD/RSD



CSD MIGRATION



▲ DFHCSDUP

- Extract (DFH0CBDC)
- Migrate (PPT,PCT,TCT,FCT)
- Upgrade
- Copy



Use VSAM EXPORT/IMPORT to move a previously define CICS.CSD to target VSESPUC catalog with new clustername(CICS.CUSTOMER.CSD)



NOTE: Do NOT copy DFH... or VSE groups

CSD MIGRATION .. continue

EXAMPLE: MIGRATE CSD to CICS 2.3

```
//DLBL DFHCSD,'CICS.CUSTOMER.CSD',,VSAM,CAT=VSE.
// DLBL CSDFL1,'CICS.CSD',,VSAM,CAT=VSESPUC
// EXEC DFHCSDUP,SIZE=300K
UPGRADE USING(DFHCU170) ----->coming from 1.6
UPGRADE USING(DFHCU17T) ----->coming from 1.6
UPGRADE USING(DFHCU17I) ----->coming from 1.6
UPGRADE USING(DFHCU17F) ----->coming from 1.6
UPGRADE USING(DFHCU210) ----->coming from 1.7
UPGRADE USING(DFHCU220) ----->coming from 2.1

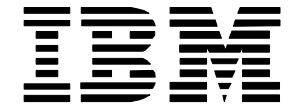
UPGRADE USING(DFHCU22I) ----->coming from 2.1
UPGRADE USING(DFHCU230) ----->coming from 2.2
UPGRADE USING(DFHCU23F) ----->coming from 2.2
UPGRADE USING(DFHCU23C) ----->coming from 2.2
COPY GROUP(VSESPG) TO(VSESPG) REPLACE FROMCSD(CSDFL1)
COPY GROUP(VSETERM) TO(VSETERM) REPLACE
FROMCSD(CSDFL1)
COPY GROUP(VSETERM1) TO(VSETERM1) REPLACE
FROMCSD(CSDFL1)
COPY GROUP(VSETYPE) TO(VSETYPE) REPLACE FROMCSD(CSDFL1)
APPEND LIST(VSELIST) TO(VSELIST) FROMCSD(CSDFL1)
```

EXAMPLE: MIGRATE CSD to CICS TS

```
// LBDEF *,SEARCH=(PRD2.SCEEBASE...
// EXEC DFHCSDUP,SIZE=600K
UPGRADE
DELETE GROUP(VSETYPE)
UPGRADE USING(IESMODEL)
DELETE GROUP(VSESPG)
DELETE GROUP(VSEAI62)
* $$ SLI Z.IESZPCT
* $$ SLI Z.IESZPCTI
* $$ SLI Z.IESWPCT
* $$ SLI Z.IESZPPT
...SEE FULL SOURCE in ICCF member (SKCSDFIL)
APPEND LIST(DFHLIST) TO(VSELIST)
COPY GROUP(DFHAI62) TO(VSEAI62)
ALTER S.. GROUP(VSEAI62) MODENAME(VSELU62)
ADD GROUP(VSESPG) LIST(VSELIST)
DELETE GROUP(CEE)
* $$ SLI MEM=CEECCSD.Z,S=(PRD2.SCEEBASE)
* $$ SLI MEM=IPNCSD.Z,S=(PRD1.BASE)
ADD GROUP(TCPIP) LIST(VSELIST)
```



RDO/CSD COMPATIBILITY



- ▲ Shared CSD with CICS 2.3
 - SKPREPSO in ICCF library 59
 - Creates LIST (VSELSTO) w/ group(DFHCOMPx)
 - Install the PTFs for APAR [PQ23273](#), [PQ24060](#), and [PQ26342](#)
- ▲ Co-exist CSD with CICS 2.3
 - SKPREPCO in ICCF Library 59
 - Define separate CSD/DLBL statement
 - Creates LIST (VSELSTO)
- ▲ Shared CSD with TS
 - SKPREPC2
 - Creates LIST (VSELST2)
 - ALTER SHR4
 - ◆ Consider transaction routing (CEDB)



INITIALIZING CICS WITH RDO

▲ START=COLD

1. CICS loads tables entries
2. Initialize List - first entry to last entry
3. Resources within group in ascending order
4. Duplicate resource between table and RDO - RDO used
5. Duplicate resource between groups - last definition used

▲ START=WARM/EMER

1. CICS loads tables entries (ie. DCT)
2. Tables updated with information from warm keypoint information
3. CSD is NOT used
4. Catalog information from RSD is used /GCD used

NOTE:

- INSTALL command changes will be reflected in a WARM/EMER start
- Changes to LIST will NOT be reflected in a WARM/EMER start
- ★ Be sure CEDA/INSTALL'ed resource(s) are updated in LIST if your installed resource is required with the next CICS COLDSTART

-Avoid mixed FCT and/or
TCT with RDO
file/terminal entries

-CICS TS ONLY-
NEWSIT=YES,(EXCEPT
CSD PARMS, FCT and
GRPLIST)

RDO TRANSACTIONS



▲ ONLINE

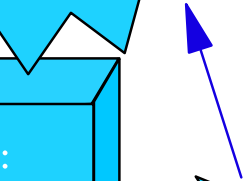
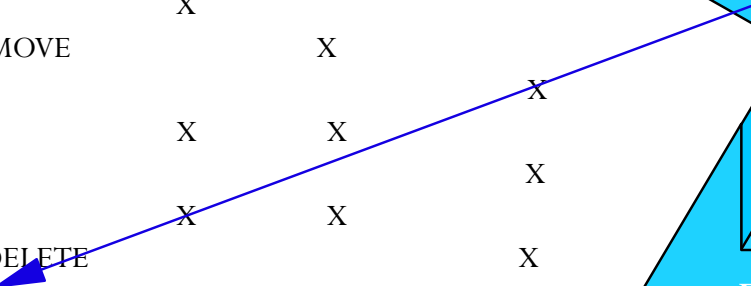
- CEDA
 - All commands
- CEDB
 - All commands (except INSTALL)
- CEDC
 - DISPLAY
 - EXPAND
 - VIEW

		LIST	GROUP	RESOURCE
APPEND	X			
ADD/REMOVE		X		
ALTER				X
CHECK	X	X		
COPY				X
DISPLAY	X	X		
DEFINE/DELETE				X
EXPAND	X	X		
INSTALL		X		X
LOCK/UNLOCK	X	X		
MOVE				X
RENAME				X
USERDEFINE				X
VIEW				X

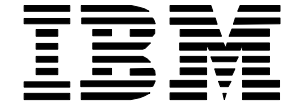
1) DEL w/
REMOVE,
deletes all
references
2) DEL last
resource deletes
group

EXCEPT:
Communications
Sessions,
Terminals, &
Types

CICS TS
ONLY



RDO COMMANDS...



▲ EXAMPLE 1

1. VIEW TR

OBJECT CHARACTERISTICS

CEDA View

TRansaction ==> cedf

Group ==> *

● RESULT BELOW:

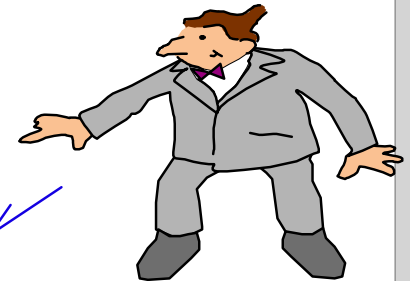
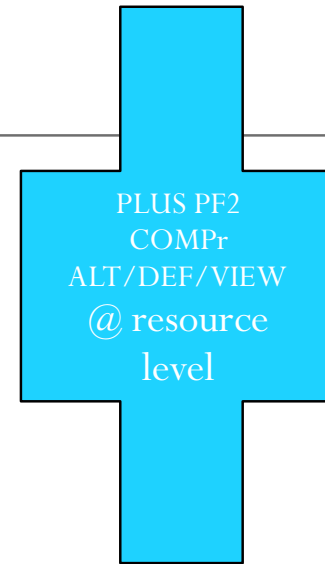
.....
ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIM
CEDF	TRANSACTION	DFHEDF	99.093
CEDF	TRANSACTION	MIGRPCT	99.096
CEDF	TRANSACTION	TESTCEDF	99.024
CEDF	TRANSACTION	VSESPG	95.143	17. ...
CEDF	TRANSACTION	WOLFF	97.016	18.....

RESULTS: 1 TO 2 OF 2

TIME: 18.59.47 DATE: 99.112

PF 1 HELP 3 END 4 TOP 5 BOF 6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



SYSID=CICT APPLID=DBDCCICS

4 TOP 5 BOF

RDO COMMANDS... (continued)



DI SPLAY

OVERTYPE TO MODIFY

CEDA DIsplay

Group ==> *

List ==>

RESULT BELOW:

.....

ENTER COMMANDS

GROUP

DFH\$ACCT

DFH\$AFLA

DFH\$BMSP

... and so on ...

TST2 TST3

VSESPG

VSETERM

VSETERM1

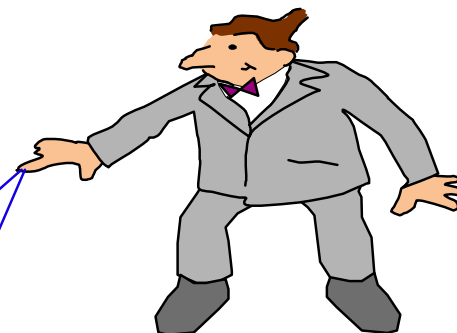
VSETYPE

WOLFF

RESULTS: 60 TO 68 OF 68

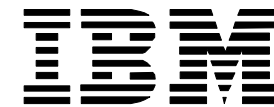
TIME: 19.32.12 DATE: 99.112

PF 1 HELP 3 END 4 TOP 5 BOT 6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



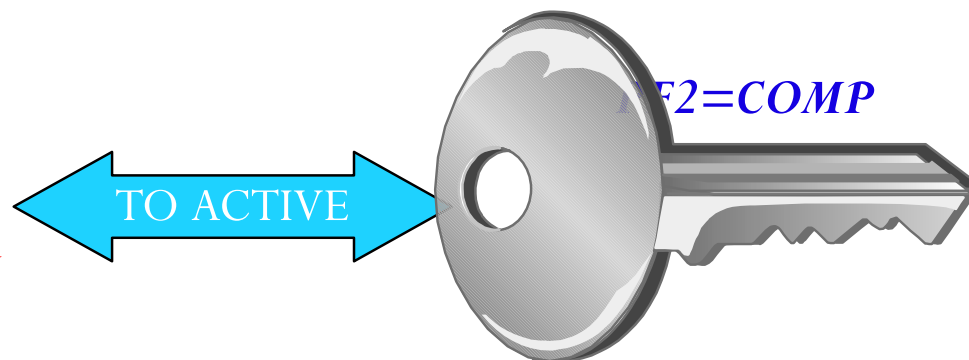
SYSID=CIC1 APPLID=DBDCCICS

RDO COMMANDS...

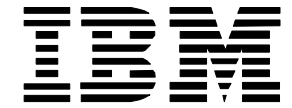


CICS TS *Obsolete attributes*

<u>Attributes</u>	<u>Resource Type</u>
<i>EXTSEC</i>	<i>TRANSACTION</i>
<i>INSERVICE</i>	<i>SESSION</i>
<i>OPERID</i>	<i>SESSION</i>
<i>OPERPRIORITY</i>	<i>TERMINAL</i>
	<i>SESSION</i>
<i>OPERRSL</i>	<i>SESSION</i>
	<i>TERMINAL</i>
<i>OPERSECURITY</i>	<i>SESSION</i>
	<i>TERMINAL</i>
<i>PRIMEDSIZE</i>	<i>TRANSACTION</i>
<i>RSL</i>	<i>MAPSET</i>
	<i>PARTITIONSET</i>
	<i>PROGRAM</i>
	<i>TRANSACTION</i>
<i>TCLASS</i>	<i>TRANSACTION</i>
<i>TRANSACTION</i>	<i>SESSION</i>
<i>TRANSEC</i>	<i>TRANSACTION</i>



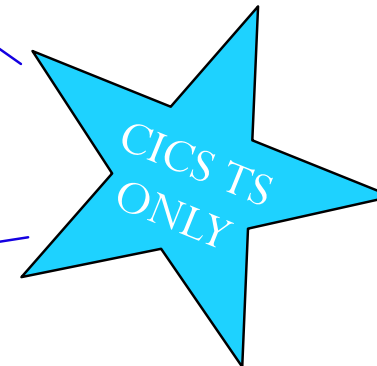
RDO BATCH UTILITY



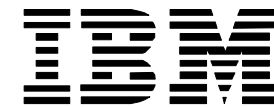
▲ DFHCSDUP

-EXEC/PARMs='UPPERCASE,CSD(READWRITE | READONLY),
PAGESIZE,NOCOMPAT'

- EXTRACT
- INITIALIZE
- LIST
- MIGRATE
- SERVICE
- UPGRADE
- VERIFY
- Commands that are similar to RDO
- ADD
- ★ ALTER
- APPEND
- COPY
- DEFINE
- DELETE
- REMOVE



RDO SECURITY



▲ RESOURCE SECURITY LEVEL CHECK

- MAPSET
- PARTITIONSET
- PROGRAM
- TRANSACTION

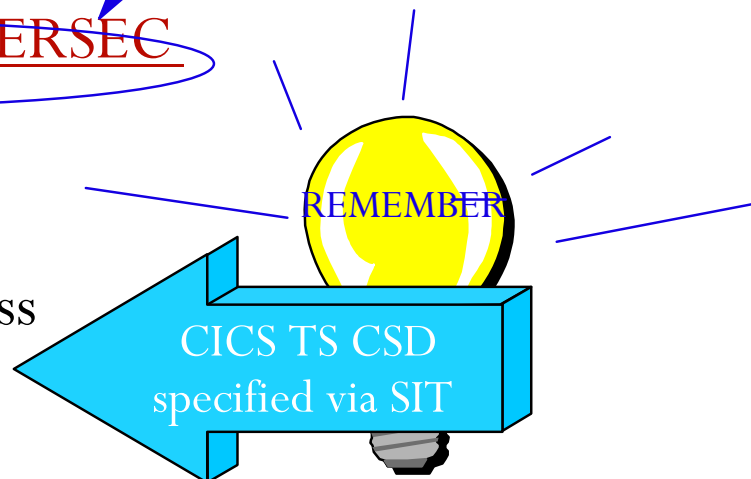


▲ TRANSACTIONS

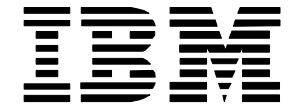
- CEDA, CEDB, CEDC
- LOCK command - write protect (lists and/or groups)
- TRANSEC and OPERSEC

▲ CSD

- Password
- FCT read only access



RDO BACKUP/RECOVERY



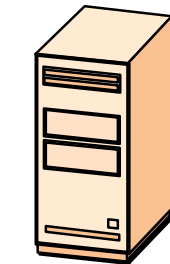
▲ CSD - BACKUP

- VSAM BACKUP/RESTORE
- VSAM REPRO - Reorganize data set
- VSAM EXPORT/IMPORT - Change DSName

- DFHCSDUP (EXTRACT)

- ★ EXEC CICS CREATE →

- ★ EXEC CICS DISCARD →



GCD



▲ SIT - RECOVERY

- FCT/CSD - LOG

- ★ CSDRECV=NONE, ALL BACKOUTONLY

- ★ CSDFRLOG=nnnn

- ★ CSDJID=NO,nn

AUTOINSTALL for PROGRAMS

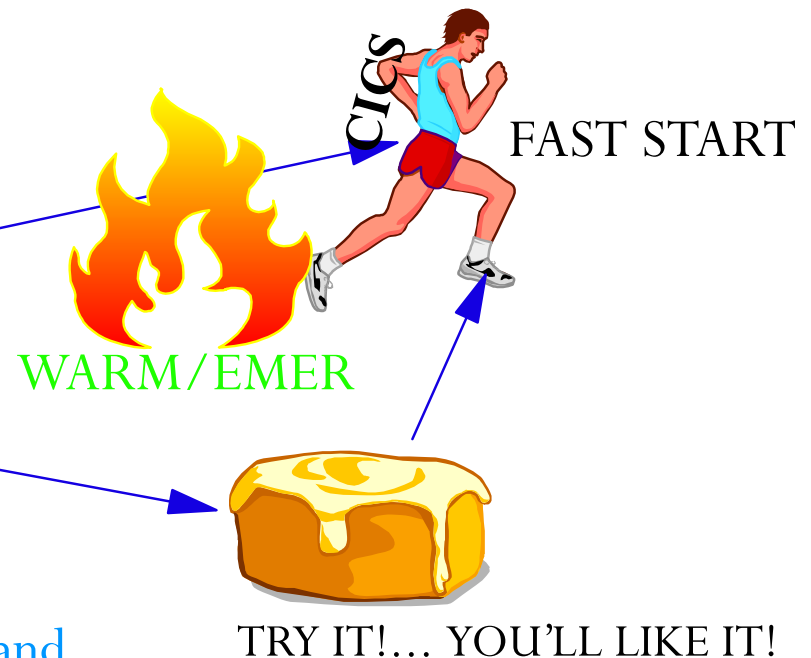
CICS TS ONLY

▲ PROGRAM AUTOINSTALL- Dynamically establish resources (programs, mapsets, and partitionsets) on demand bases.

- Effective use of storage/remove unused resources
- Reduce CICS startup time

▲ REQUIREMENTS

- SIT PARMs
- PGAICTLG=MODIFY, NONE ALL
- PGAIEXIT=DFHPGADX
- PGAIPGM=ACTIVE
- ALTER SIT PARM VIA
 - CEMT SET SYSTEM
 - EXEC CICS SET SYSTEM command



AUTOINSTALL for PROGRAMS

...continue

▲ INVOKE:

- CICS starts a transaction
- Application XTCL/LINK/LOAD
- ENABLE GLUEs and TRUEs
- ABEND program CICS XFER to specified program
- URM first time
- EXEC CICS send/receive MAPs/PART

▲ RESTRICTIONS - AUTOINSTALL prgs canNOT be autoinstalled:

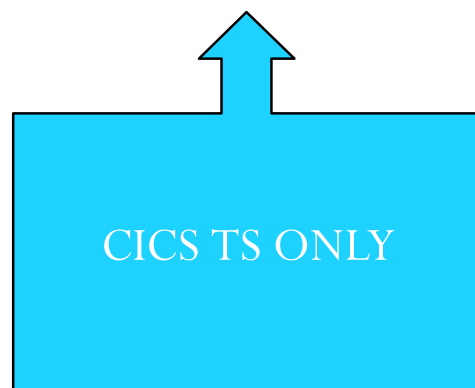
- Program
- Terminal /APPC connection
- Plus DFH prefix programs canNOT be autoinstalled

AUTOINSTALL for TERMINALS

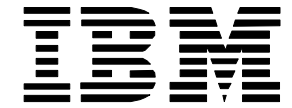
and **APPC connections**

▲ AUTOINSTALL:

- Defines and installs VTAM terminals dynamically in CICS' TCT when VTAM logons to CICS, and deletes the entries when VTAM logoffs CICS.
- ★ ALSO, can provide dynamic APPC connect



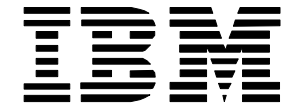
AUTOINSTALL: CONSIDERATIONS



▲ CRITERIA

- Reduce network definition workload
- Terminal virtual storage relief
- CICS Logon patterns for users
- Mixture of terminal types
- Access to multiple CICS systems
- ★ **APPC connection remain after sessions end**
- Methods used to:
 - Invoke transactions
 - Route messages
 - Recording statistics

AUTOINST TERMINALS



▲ ELIGIBLE TERMINALS

- VTAM locally attached 3270 terminals (non-SNA)
- VTAM logical Unit Type 0 terminals
- VTAM logical Unit Type 1 terminals
- VTAM logical Unit Type 2 terminals
- VTAM logical Unit Type 3 terminals
- VTAM logical Unit Type 4 terminals
- VTAM logical Unit Type 6.2 secondary single-session terminals

▲ INELIGIBLE TERMINALS

- PIPELINE terminals
- Automatic teller terminals
- Non-VTAM resources
- VTAM logical Unit Type 6.1 ISC and MRO sessions
- VTAM logical Unit Type 6.2 parallel-session systems

AUTOINSTALL REQUIREMENTS

▲ VTAM DEFINITION

- Correct LOGMODE information

▲ FCT entries

- CSD
 - Models defined: (limit active models to used only)
 - ◆ DFHTERM, VSETERM, or user defined
 - ◆ DFHTYPE, VSETYPE, or user defined

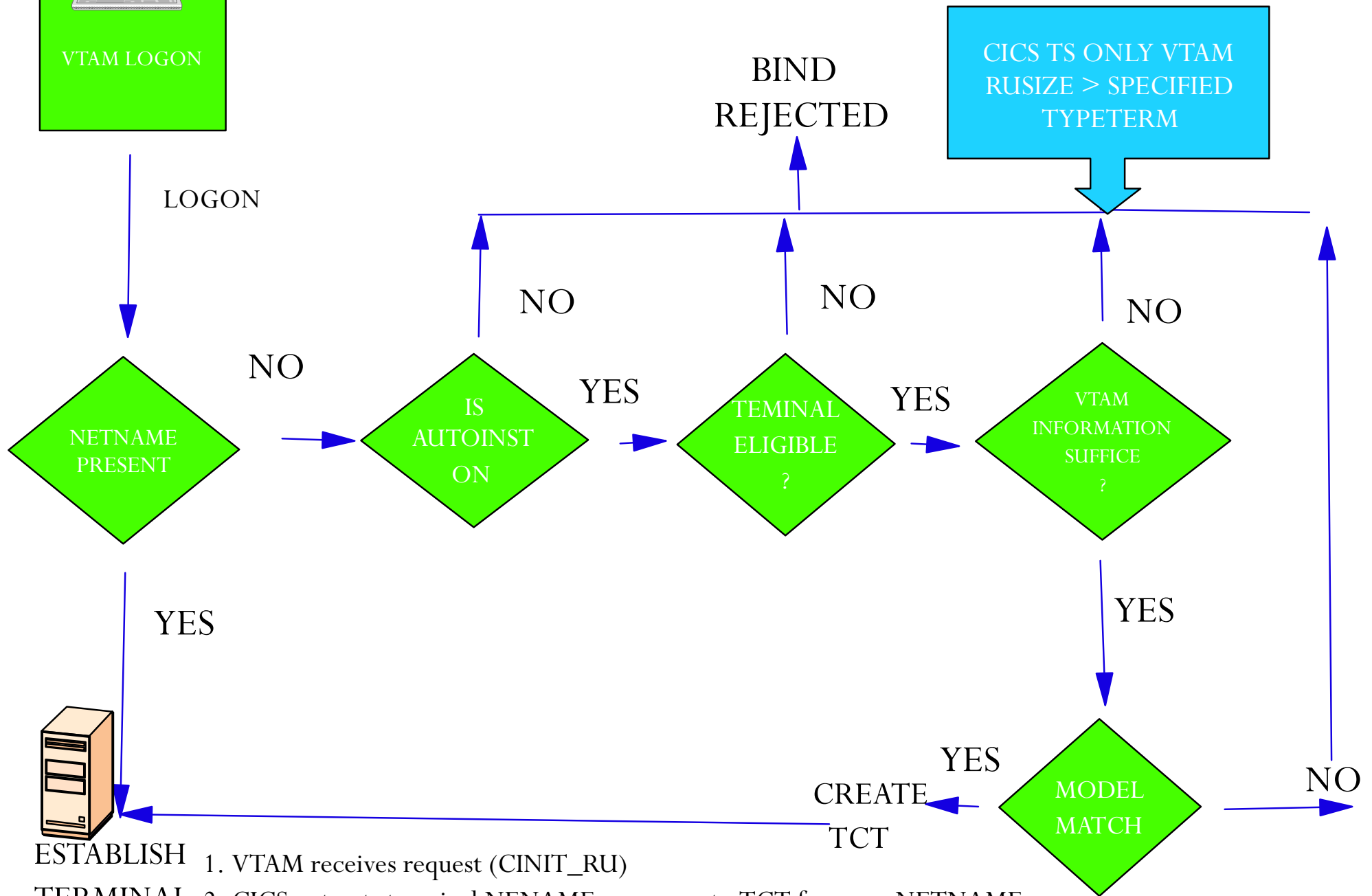
▲ RSD

- Loads TYPETERMS and TERMINAL models / GCD on CICS TS

▲ SIT

- AUTOINST=(100,DFHZATDX,700,0) is the default
 - Use last four characters for TERMID
- AUTOINST=(100,IESZATDX,700,0) is VSE supplied
 - uses first four characters for TERMID
 - Naming convention of VSE System Package
 - LOGMODE is IESINCLM
 - ★ IESZATDX includes APPC connection

TERMINAL AUTOINSTALL PROCESS



ESTABLISH

1. VTAM receives request (CINIT_RU)

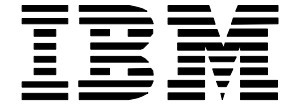
TERMINAL

2. CICS extracts terminal NENAME compares to TCT for same NETNAME

SESSION

3. If test conditions YES CICS issues OPNDST to VTAM establish session

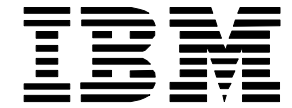
RDO USAGE TIDBITS



▲ MIGRATION

- CSD : DFHCSDUP - to migrate macro table to CSD
 - CSD group name for PCT or PPT must be NEW groupname
 - Attributes forced with transaction migration
 - ◆ DTB=YES
 - ◆ FDUMP=(ASRA,ASRB)
 - ◆ ANTICPG=NO
 - ★ SPURGE (CICS TS) means 'system purable' during deadlock timeout
 - SPURGE (CICS 2.3) means transaction purge during stall situation
 - Migration of PCT cannot exceed 4000 entries
 - Migrate a map with operand program results in a program definition
 - Migrate a program with operand USAGE=MAP results in a mapset
 - After migrating TCT source include MIGRATE=COMPLETE (less overhead)
 - ★ FCT migration canNOT include an entry for the CSD
 - ★ If the CSD is SHARED with lower release the update entries via the higher release

RDO TIDBITS...continue



▲ DFHCSDUP - MIGRATION EXAMPLE

```
// EXEC DFHCSDUP,SIZE=300K
```

```
MIGRATE TABLE(DFHTCTGP) TYPESGROUP(MIGRTCT)
```

```
DFH5120 I PRIMARY CSD OPENED; FILENAME: DFHCSD
```

```
DFH5164 W NO DEFINITION OF TERMINAL L77A    CREATED. THIS DUPLICATES
```

```
... and so on ...
```

```
... and so on ...
```

```
... and so on ...
```

```
... and so on ...
```

```
DFH5164 W NO DEFINITION OF TERMINAL L86P    CREATED. THIS DUPLICATES
```

```
DFH5102 I WARNING MESSAGE(S) ISSUED WHILE PROCESSING MIGRATE COMMAND.
```

```
MIGRATE TABLE(DFHPPTC2) TOGROUP(MIGRPPT)
```

```
DFH5144 I MIGRATION OF TABLE DFHPPTC2 TO GROUP MIGRPPT IN PROGRESS.
```

```
DFH5143 I GROUP MIGRPPT    CREATED.
```

```
DFH5143 I GROUP MIGRPPT    CREATED.
```

```
DFH5156 W PROGRAM DFHNEP    DID NOT MIGRATE. ITS PROPERTIES MATCH AN
```

```
.... and so on ....
```

```
.... and so on ....
```

```
.... and so on ....
```

```
.... and so on ....
```

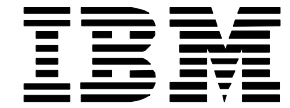
RDO USAGE TIDBITS ...



▲ INSTALLATION

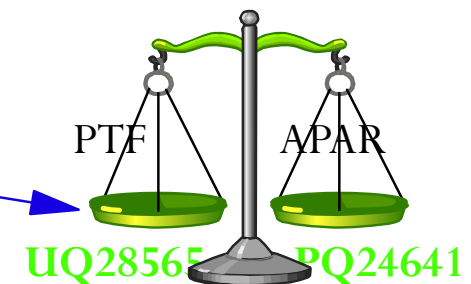
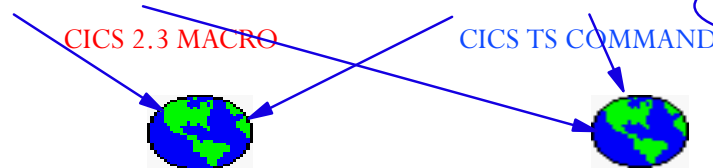
- CICS supplied RDO entries:
 - DFHxxxx prefixed
 - Locked resources (cannot be modified)
 - DHFLIST used with non-VTAM / CICS TS includes terminal models
 - DHFLIST2 includes models with terminal autoinstal (CICS 2.3 only)
- DFHxxx members are located in PRD1.BASE
- VSE supplied RDO entries:
 - VSExxxx prefixed, CEE, and TCPIP
- IESxxx members are located in IJSYSRS.SYSLIB
- CICS supplied transaction (i.e. CEDF) are RSLC=YES (CICS 2.3 only)
- ★ DFHFCTSP entries are NOT defined in the CSD
- ★ Define FILE resource with DSNAME and CAT removes DLBL requirement
- ★ Avoid defining the same file entries in a FCT and group list(s)
- ★ USE dual-purpose resource definition w/ MRO and Shared CSD
- ★ Avoid defining same TERMID when TCT mixed with group list(s)

RDO USAGE TIDBITS ...



- Interactive User Interface can create
 - VSETERMn (n=1-3)
 - VTAM ASLTAB for printers
- MRO definitions
 - Consider changing the mirror transaction DTIMOUT to a value
 - Define CSD as read only and unique LSR subpool (read integrity)
 - Invoke CEDB as a remote transaction
- For transaction routing, autoinstall on both systems or defined the TCT on each system.
- Implement a NEP program (IESZNEP)
- Remove unreferenced resources from production LIST
- Define your VSE console in the dummy TCT and specify TCT=NO (CICS 2.3 only)
- Specify DFHZCQ as RESIDENT=YES
- SKPREPC2 alters the CSD to SHAREOPT4
- In ICCF LIB 59

★ SKCONSI SKCSDFIL SKGCDFIL SKLCDFIL
 ■ IESZATDY IESZATCO IESZNEP (IESZNEPO)



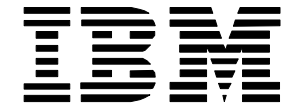
RDO TIDBITS ... continue



▲ OPERATION

- CICS startup opens the CSD as INPUT only
- CICS WARM or EMERGENCY startup does NOT open CSD
- Be sure to maintain backups of the CSD
- RDO INSTALL of program causes 'NEWCOPY' automatically
- ★ Invoke CEDA INSTALL from a console (EX: MSG F2,DATA=CEDA INSTALL GROUP(DAYAPPL))

RDO TIDBITS ... (*continued*)



▲ USER

- RDO Guide(appendix) provides a keyword cross-reference table (macro / RDO)
- Be aware of default values, force values, and dependent default values
- Use CEDA/CEDB CHECK command on resources before an INSTALL
- INSTALL command causes update to the RSD catalog information /GCD
- ★ CEMT DISCARD to remove INSTALL resources
- All resources in a INSTALL group must be inactive
- ★ Above statement applies (CICS TS/CONNECTION, SESSSION, TERM, and TYPETERM)
- If transaction CEDA/CEDB abends a DFHCSDUP VERIFY must be used to unlock resources
- VTAM RDO terminal may reference a BTAM printer
- All programs, maps, and partitionset must have unique names within the same list
- LOCK your TYPETERM and AUTOINST MODELS
- TYPETERM should be listed before TERMINAL
- SESSION must be in same group as CONNECTION
- Consider grouping resources by application
- UCTRANS not working
 - Check PROFILE for transaction
 - Check TYPETERM attribute
 - IUI escape to CICS with PFKEY (6 or 9)

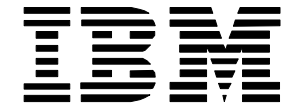
RDO PERFORMANCE



▲ VSAM files

- Specify KEYLEN with SHRCTL to avoid processing of catalog when LSR pool built
- Increase the size of the data CISIZE=16K and index CISIZE=2K for both files (RSD and CSD)
- Split the data components and index components
- Monitor CICS statistics (wait on STRNO)
- Monitor LISTCAT
 - Avoid secondary allocation (RSD)
 - Avoid CA split (reorganize)
- RSD
 - CICS START=COLD DELETE and DEFINE (RESUSE)/ [GCD](#) and [LCD](#)
 - Initialize with a high key record 999999 or x'FFFFFFFFFFFF'
- CSD
 - SHARE CSD as READ only data set
 - SPECIFY unique LSR subpool (avoid SHROPT4) Limits read integrity

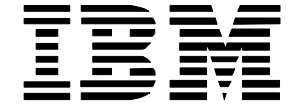
RDO PERFORMANCE...



▲ Usage

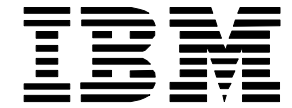
- LIST sequence
 - a. DFHSPI group
 - b. Transactions
 - c. Programs
 - d. Types
 - e. Models
 - f. Terminals
- REMOVE non-referenced groups from LIST /PGAIPGM=ACTIVE
- Group size
 - Limit resources 50 to 100
- ▲ AUTOINSTALL parameter restart delay=0 /AIRDELY=0
- ▲ Specify DFHZCQ as RESIDENT=YES

Reference Material



-
- ▲ CICS Publications
 - ▲ CICS 2.3 manuals
 - [Diagnosis Reference \(LY33-6074-02\)](#)
 - [Release Guide \(GC33-0700-02\)](#)
 - [Resource Definition \(Online\) SC33-0708-02\)](#)
 - [Customization Guide \(SC33-0707-02\)](#)
 - [Performance Guide \(SC33-0703-02\)](#)
 - [System Definition and Operation Guide \(SC33-0706-02\)](#)
 - [Problem Determination Guide\(SC33-0716-02\)](#)

Reference Material



(continued)

▲ CICS TS manuals

- ★ System Definition Guide (SC33-1651)
- ★ Resource Definition Guide (SC33-1653)
- ★ Migration Guide(GC33-1646-00)
- ★ Customization Guide (SC33-1652-00)
- ★ Recovery and Restart Guide (SC33-1666-00)
- ★ Operations and Utilities Guide (SC33-1654-00)
- ★ Release Guide (GC33-1645-00)
- ★ System Definition Guide (SC33-1651-00)
- ★ System Programming Reference (SC33-1659-00)
- ★ Resource Definition Guide (SC33-1653-00)

Reference Material



(continued)

- ▲ Bulletins
 - CICS/VS Terminal Definitions with Autoinstall Consideration (GG66-0288)
- ▲ **IBM International Technical Support Organization (Red Book)**
 - Migration to VSE/ESA 2.4 and CICS Transaction Server for VSE/ESA1.1 (SG24-5595)
- ▲ **VSE Publications**
 - Networking Support
 - Administration