

WAVV 2006
Chattanooga, TN



CICS TS RDO Hints and Tips

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Topics

- Resource Definition
- Objects to be Defined
- System Definition File (CSD)
- Resource Definition Online
- DFHCSDUP Batch Utility
- Automatic Installation
- System Programming
- Summary



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Resource Definition

Use of the CICS System Definition File (CSD) is **mandatory** for CICS TS:

- All transactions (PCT entries)
- All Programs and BMS mapsets (PPT entries)
- All VTAM terminals, MRO/ISC links and sessions, VSE Console (TCT entries)

Use of the CSD is now optional but *recommended* for:

- All VSAM files


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Resource Definition...

- Macro tables still supported
 - Command List Table (CLT)
 - Destination Control Table (DCT)
 - File Control Table (FCT)
 - Journal Control Table (JCT)
 - Monitoring Control Table (MCT)
 - Program List Table (PLT)
 - System Recovery Table (SRT)


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Resource Definition...

- Macro tables still supported...
 - Terminal Control Table (TCT)
 - Logical Device Codes (3601, 3770, 3790, LUTYPE 4)
 - SAM terminals
 - Remote terminals for Transaction Routing (MRO, LUTYPE 6.2)
 - Terminal List Table (TLT)
 - Temporary Storage Table (TST)
 - Transaction List Table (XLT)


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Resource Definition...

- Methods for defining CICS TS resources
 - Resource Definition Online (RDO)
 - Programs, transactions, VTAM terminals, VSAM files, sessions, connections
 - DFHCSDUP batch utility program
 - Programs, transactions, VTAM terminals, VSAM files, sessions, connections
 - Automatic installation (Autoinstall)
 - VTAM terminals, programs



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Resource Definition...

- Methods for defining CICS TS resources...
 - Macro definition (tables)
 - Files, SAM terminals
 - Everything else
 - System Programming Interface
 - Many resources
 - Not permanently recorded anywhere (CSD or table)



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Objects to be Defined

- Resources
 - Transactions, programs, files, terminals, etc.
 - Each must be defined as part of some Group
- Groups
 - Grouping of resources
 - Guidelines for groups
 - Keep groups small, <100 resource definitions per group
 - Logical groupings (by application, by control units, etc.)
 - Keep TYPETERMS in one group



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Objects to be Defined...

■ Lists

- A list of groups that CICS activates on a CICS **COLD** start
- Specified in SIT GRPLIST=list parameter
 - Up to 4 lists can be specified during startup
- GRPLIST *not* used on WARM or EMER restart
- Duplicate definitions
 - RDO definition replaces duplicates from macro table
 - Last group processed replaces duplicate in earlier groups



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System Definition File

- Repository for objects
 - Resources, groups, lists
- VSAM KSDS dataset
- Can be shared by multiple CICS partitions
 - Same VSE system
 - Multiple VSE systems
 - CICS TS and CICS/VSE 2.3
- Should back up regularly
 - Now a critical resource



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System Definition File...

■ Supplied Definitions

- CICS TS
 - DFHLIST - CICS startup list
 - DFHxxxx - CICS Groups
 - DFHxxxx - CICS Resources (Supplied CICS transactions, programs, terminals)
 - DFHTERM, DFHTYPE - Supplied CICS TERMINAL and TYPETERM definitions
 - DFH groups and lists are protected, copy to user defined group or list to modify



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System Definition File...

- Supplied Definitions ...
 - VSE/ESA
 - VSELIST - VSE CICS startup list (includes many DFH groups)
 - VSESPG, CEE, TCP/IP, VSEAI62 - VSE Groups
 - All except DFHxx - VSE Resources for IUI, DITTO, ICCF, etc.
 - VSETERM, VSETERM1, VSETYPE - Supplied VSE TERMINAL and TYPETERM definitions
 - VSE groups and lists are not protected and can be modified.
 - Copy to your own group to modified

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System Definition File...

Backup CSD

```

* $$ JOB JNM=CSDBACK, DISP=D, CLASS=A
// JOB CSDBACK
// LIBDEF PHASE, SEARCH=IJSYSRS.SYSLIB
// DLBL IJSYSUC, 'VSESP.USER.CATALOG', , VSAM
// PAUSE **** MOUNT OUTPUT TAPE FOR CSD BACKUP
// TLBL VSMBKUP, 'CSD.BACKUP', 100, '111111'
// ASSGN SYS005, 570
// EXEC IDCAMS, SIZE=AUTO
//     BACKUP (
//         CICS.CSD -
//     ) -
//     UNLD -
//     NOCOMPACT -
//     BUFFERS(3) -
//     STDLABEL(VSMBKUP)
/*
/&
* $$ E0J
    
```

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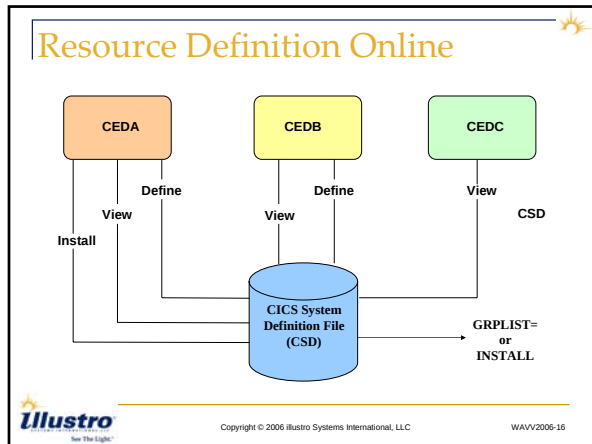
System Definition File...

Restore CSD

```

* $$ JOB JNM=CSDREST, DISP=L, CLASS=A
// JOB CSDREST RESTORE CICS CSD
// LIBDEF PHASE, SEARCH=IJSYSRS.SYSLIB
// PAUSE
// TLBL VSMREST, 'CSD.BACKUP', , '111111'
// ASSGN SYS004, 570
// EXEC IDCAMS, SIZE=AUTO
//     RESTORE OBJECTS (
//         CICS.CSD -
//     ) -
//     CATALOG(VSESP.USER.CATALOG) -
//     STDLABEL(VSMREST) -
//     UNLD -
//     BUFFERS(3)
/*
/&
* $$ E0J
    
```

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Resource Definition Online...

- Transactions
 - CEDA
 - Full set of RDO commands
 - Define, change, delete and activate (INSTALL) resource definitions
 - CEDB
 - All commands except INSTALL command
 - CEDC
 - Read only commands
 - VIEW, EXPAND, DISPLAY

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Resource Definition Online...

- Commands
 - Resource Management
 - DEFINE
 - Creates a resource definition
 - ALTER
 - Modify the attributes of a resource (or resources)
 - VIEW
 - Display the attributes of a resource (or resources)
 - COPY
 - Creates new resources from existing definitions

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Resource Definition Online...

■ Commands...

□ Resource Management...

■ DELETE

□ Delete resource definitions

■ MOVE

□ Change the groupings of resources

■ RENAME

□ Change the names of resources



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Resource Definition Online...

■ Commands...

□ List management

■ ADD

□ Adds a group to an existing list

□ Creates a new list if the list does not exist

■ REMOVE

□ Removes a group from a list

□ Deletes the list when the last group is removed

■ APPEND

□ Creates a new list from an existing list or combines lists



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Resource Definition Online...

■ Commands...

□ General Purpose

■ CHECK

□ Cross-checks definitions in a group or list

■ DISPLAY

□ Shows the names of groups or lists on the CSD file

■ EXPAND

□ Shows the contents of groups or lists

■ LOCK, UNLOCK

□ Controls update access to groups and lists



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Resource Definition Online...

■ Commands...

□ General Purpose...

■ INSTALL

□ Dynamically adds resources to the running CICS system

▪ Inactive resources replaced

▪ Active resources not replaced

□ Installed definitions stored in CICS global catalog

▪ Effective across WARM or EMER restart

□ Add new groups to list in SIT GRPLIST for CICS COLD start



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Resource Definition Online...

■ Example

□ Define (in a Group named DEMOGRP)

■ A VSAM KSDS named TESTFIL

■ A LSRPOOL named DEMOLSR

■ A Program named TESTPROG

■ A Transaction named TEST calling TESTPROG

■ A Transaction Class named TRANCL5

■ A Terminal named TRM1



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Resource Definition Online...

■ Example...

□ Install Group DEMOGRP

■ Allows testing

■ Remains installed across WARM and EMER starts

□ Add the Group to List VSELIST

■ Will be installed at every COLD start

□ Expand the group to view contents

□ Modify the Group

■ Copy, rename, and delete resources



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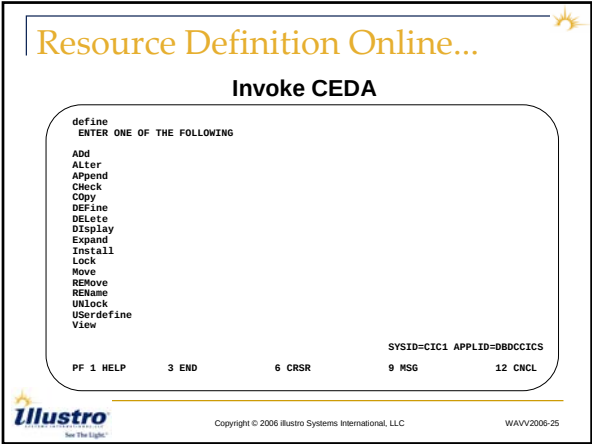
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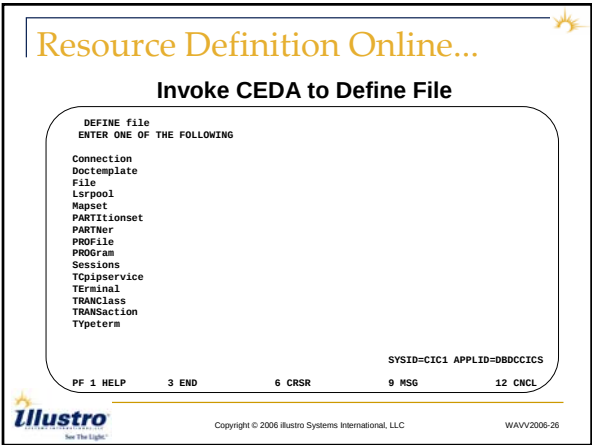


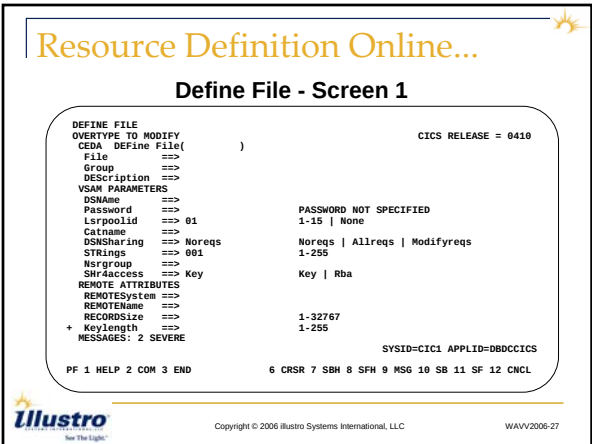
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Resource Definition Online...

Define File - Screen 2

DEFINE FILE

OVERTYPE TO MODIFY

CEDA Define File()

+ INITIAL STATUS

Status ==> Enabled

OpenTime ==> Firstref

BUFFERS

Databuffers ==> 2-32767

Indexbuffers ==> 1-32767

DATATABLE PARAMETERS

Table ==> No

Maxnumrecs ==> No | Cics | User

DATA FORMAT

RECONFormat ==> V

OPERATIONS

Add ==> No

Browse ==> No

Delete ==> No

READ ==> Yes

Update ==> No

MESSAGES: 2 SEVERE

CICS RELEASE = 0410

Enabled | Disabled | Unenabled

Firstref | Startup

2-32767

1-32767

No | Cics | User

16-16777215

V | F

No | Yes

No | Yes

No | Yes

Yes | No

No | Yes

PF 1 HELP 2 COM 3 END

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

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Resource Definition Online...

Define File - Screen 3

DEFINE FILE

OVERTYPE TO MODIFY

CEDA Define File()

+ AUTO JOURNALLING

Journal ==> No

JNLRead ==> No

JNLSYNRead ==> No

JNLUpdate ==> No

JNLAdd ==> No

JNLSYNWrite ==> Yes

RECOVERY PARAMETERS

Recovery ==> None

Pwrecovlog ==> No

CICS RELEASE = 0410

No | 1-99

None | Updateonly | Readonly | All

No | Yes

No | Yes

None | Before | After | All

Yes | No

None | Backoutonly | All

No | 1-99

MESSAGES: 2 SEVERE

SYSID=CIC1 APPLID=DDOCCICS

PF 1 HELP 2 COM 3 END

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

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Resource Definition Online...

View Error Messages - PF9

DEFINE FILE

MESSAGES - USE ENTER TO RETURN

S No GROUP value has been previously specified so there is no current value to assume.

S An object must be specified.

SYSID=CIC1 APPLID=DDOCCICS

PF 1 HELP

3 END

6 CRSR 7 SBH 8 SFH

10 SB 11 SF 12 CNCL

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Resource Definition Online...

Define File - Successful Define - Screen 1

OVERTYPE TO MODIFY

CEDA Define File(TESTFIL)

File : TESTFIL

Group : DEMOGRP

Description ==> THIS IS A TEST FILE

VSAM PARAMETERS

DSName ==>

Password ==> PASSWORD NOT SPECIFIED

Lsrpoolid ==> 10

1-15 | None

Catname ==>

DSNSharing ==> Noreqs

Noreqs | Allreqs | Modifyreqs

STRings ==> 005

1-255

Nsrgroup ==>

SHR4access ==> Key

Key | Rba

REMOTE ATTRIBUTES

RENOTESystem ==>

RENOTESize ==>

1-32767

RECORDSize ==>

1-255

+ Keylength ==>

1 New group DEMOGRP created.

SYSID=CIC1 APPLID=DDOCCICS

TIME: 16.30.44 DATE: 00.028

DEFINE SUCCESSFUL

PF 1 HELP 2 COM 3 END

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



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Resource Definition Online...

Define LSR Pool

define lsrpool

ENTER ONE OF THE FOLLOWING

Add

Alter

Append

Check

Copy

DEfine

DElete

Display

Expend

Install

Lock

Move

REMove

REName

UNlock

USerdefine

View

SYSID=CIC1 APPLID=DDOCCICS

PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL



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Resource Definition Online...

Define LSR Pool - Screen 1

DEFINE LSRPOOL 6(DEMOGRP)

OVERTYPE TO MODIFY

CEDA Define Lsrpool()

Lsrpool ==>

Group ==> DEMOGRP

Description ==>

Lsrpoolid ==> 01

1-15

Maxkeylength ==>

0-255

Sharelimit ==>

1-100

STRings ==>

1-255

DATA BUFFERS

DATA512 ==>

3-32767

DATA1K ==>

3-32767

DATA2K ==>

3-32767

DATA4K ==>

3-32767

DATA8K ==>

3-32767

DATA12K ==>

3-32767

DATA16K ==>

3-32767

DATA20K ==>

3-32767

+ DATA24K ==>

3-32767

+ S An object must be specified.

SYSID=CIC1 APPLID=DDOCCICS

PF 1 HELP 2 COM 3 END

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



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Resource Definition Online...

Define LSR Pool - Screen 2

```

DEFINE LSRPOOL G(DEMOGRP)
OVERTYPE TO MODIFY
CEDA Define Lsrpool(      )      CICS RELEASE = 0410
+ DATA28k ==> 3-32767
  DATA32k ==> 3-32767
INDEX BUFFERS
INDEX512 ==> 3-32767
INDEX1K ==> 3-32767
INDEX2K ==> 3-32767
INDEX50K ==> 3-32767
INDEX12K ==> 3-32767
INDEX16K ==> 3-32767
INDEX20K ==> 3-32767
INDEX24K ==> 3-32767
INDEX28K ==> 3-32767
INDEX32K ==> 3-32767

S An object must be specified.
SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define LSR Pool Successful Define - Screen 1

```

OVERTYPE TO MODIFY
CEDA Define Lsrpool( DEMOLSR )
Lsrpool : DEMOLSR
Group : DEMOGRP
Description ==>
Lsrpoolid ==> 06      1-15
Maxkeylength ==> 030  0-255
Sharelimit ==>      1-100
Strings ==> 010      1-255
DATA BUFFERS
DATA512 ==> 3-32767
DATA1K ==> 3-32767
DATA2K ==> 3-32767
DATA4K ==> 00010      3-32767
DATA8K ==> 00008      3-32767
DATA12K ==> 00014      3-32767
DATA16K ==> 3-32767
DATA20K ==> 3-32767
+ DATA24k ==> 3-32767

DEFINE SUCCESSFUL
PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Program

```

define prog
ENTER ONE OF THE FOLLOWING

Add
ALTER
Append
Check
Copy
DEfine
DElete
Display
Expand
Install
Lock
Move
REMove
REName
UNLock
USerdefine
View

SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP      3 END      6 CRSR      9 MSG      12 CNCL

```



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CICS Transaction Server for VSE/ESA

Resource Definition Online...

Define Transaction

define trans
ENTER ONE OF THE FOLLOWING

Add
Alter
Append
Check
Copy
DEFINE
DELETE
Display
Expand
Install
Lock
Move
REMOVE
Rename
UNlock
Userdefine
View

SYSID=CIC1 APPLID=DDCCICIS

PF 1 HELP3 END6 CRSR9 MSG12 CNCL



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Resource Definition Online...

Define Transaction - Screen 1

DEFINE TRANS
OVERTYPE TO MODIFY
CEDA DEFINE TRANSAction()CICS RELEASE = 0410

TRANSACTION ==>
Group ==> DEMOGRP
Description ==>
Program ==>
Twasize ==> 000000-32767
PROFILE ==> DFHCICST
Partitionset ==>
STATUS ==> EnabledEnabled | Disabled
PRIMEsize ==> 000000-55520
TASKDATALOC ==> BelowBelow | Any
TASKDATAKey ==> UserUser | Cics
STORageclear ==> NoNo | Yes
Runaway ==> SystemSystem | 0 | 500-2700000
Shutdown ==> DisabledDisabled | Enabled
REMOTE ATTRIBUTES
Dynamic ==> NoNo | Yes
+ REMOTESystem ==>
S An object must be specified.

SYSID=CIC1 APPLID=DDCCICIS

PF 1 HELP2 COM 3 END6 CRSR7 SBH8 SFH9 MSG10 SB11 SF12 CNCL



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Resource Definition Online...

Define Transaction - Screen 2

DEFINE TRANS
OVERTYPE TO MODIFY
CEDA Define TRANSAction()CICS RELEASE = 0410

+ REMOTEName ==>
TRProf ==>No | Yes
Localq ==>
SCHEDULING ==> 0010-255
Priority : NoNo | 1-10
Tclass ==>
TRANclass ==>
ALIASES
Alias ==>
TASKReq ==>
XTRandID ==>
TPName ==>
XTPName ==>
+ RECOVERY
S An object must be specified.

SYSID=CIC1 APPLID=DDCCICIS

PF 1 HELP2 COM 3 END6 CRSR7 SBH8 SFH9 MSG10 SB11 SF12 CNCL



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Resource Definition Online...

Define Transaction - Screen 3

```

DEFINE TRANS
OVERTYPE TO MODIFY
CEDA Define TRANSACTION(      )      CICS RELEASE = 0410
+ DTimout ==> No      No | 1-6800
  Indoubt ==> Backout  Backout | Commit | Wait
  REstart  ==> No      No | Yes
  SPurge   ==> No      No | Yes
  TPurge   ==> No      No | Yes
  DUMP     ==> Yes     Yes | No
  TRACE    ==> Yes     Yes | No
  Confdata ==> No      No | Yes
SECURITY
RESec     ==> No      No | Yes
CRSsec    ==> No      No | Yes
Extsec    : No      No | Yes
TRANSec   : 01      1-64
RS1       : 00      0-24 | Public

S An object must be specified.
SYSID=CIC1 APPLID=DDCCIC5

PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Transaction - Successful Define - Screen 1

```

OVERTYPE TO MODIFY
CEDA Define TRANSACTION( TEST )      CICS RELEASE = 0410
Transaction : TEST
Group       : DEMOGRP
Description ==> THIS IS A TEST TRANSACTION
Program     ==> TESTPR00
Twasize     ==> 00200      0-32767
PROFILE     ==> DFHCICST
Partitionset ==>
Status      ==> Enabled   Enabled | Disabled
PRIMedsize  : 00000      0-65520
TASKDATAkey ==> Any      Below | Any
TASKDATAkey ==> User     User | Cics
STOrageclear ==> No      No | Yes
Runaway     ==> System   System | 0 | 500-2700000
Shutdown    ==> Disabled Disabled | Enabled
REMOTE ATTRIBUTES
Dynamic      ==> No      No | Yes
+ REMOTESystem ==>
DEFINE SUCCESSFUL
TIME: 16.39.12 DATE: 00.028
PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Transaction Class

```

define tranclass
ENTER ONE OF THE FOLLOWING
Add
ALTER
Append
Check
Copy
DEFINE
DELeTe
DisPlay
Expand
Install
Lock
Move
REMove
REName
UNLock
USerdefine
View

SYSID=CIC1 APPLID=DDCCIC5

PF 1 HELP      3 END      6 CRSR      9 MSG      12 CNCL

```



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Resource Definition Online...

Define Transaction Class - Screen 1

DEFINE TRANCLASS
OVERTYPE TO MODIFY
CEDA Define TRANClass()
TRANClass ==>
Group ==>
Description ==>
CLASS LIMITS
Maxactive ==> 0-999
Purgethresh ==> No No | 1-1000000

MESSAGES: 2 SEVERE
SYSID=CIC1 APPLID=DDCCIC5
PF 1 HELP 2 COM 3 END 6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

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Resource Definition Online...

Define Transaction Class - Successful Define - Screen 1

OVERTYPE TO MODIFY
CEDA Define TRANClass(TRANCL5)
TRANClass : TRANCL5
Group : DEMOGRP
Description ==>
CLASS LIMITS
Maxactive ==> 005 0-999
Purgethresh ==> No No | 1-1000000

DEFINE SUCCESSFUL
PF 1 HELP 2 COM 3 END 6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL
TIME: 16.13.00 DATE: 00.131

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Resource Definition Online...

Define Terminal

define term
ENTER ONE OF THE FOLLOWING
Add
Alter
Append
Check
Copy
DEfIne
DELEte
DISplay
Expand
Install
Lock
Move
REMove
REName
UNlock
Userdefine
View

SYSID=CIC1 APPLID=DDCCIC5
PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL

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Resource Definition Online...

Define Terminal - Screen 1

```

DEFINE TERM
OVERTYPE TO MODIFY
CEDA Define Terminal(      )      CICS RELEASE = 0410
Terminal ==>
Group ==> DEMOGRP
Description ==>
AUTINSTModel ==> No      No | Yes | Only
AUTINSTName ==>
TERMINAL IDENTIFIERS
Typeterm ==>
NETname ==>
Consname ==>
REMOTESYSnet ==>
REMOTESYSNet ==>
Modename ==>
ASSOCIATED PRINTERS
PRINTER ==>
PRINTERCopy ==> No      No | Yes
+ ALTPRINTER ==>
S An object must be specified.

SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Terminal - Screen 2

```

DEFINE TERM
OVERTYPE TO MODIFY
CEDA Define Terminal(      )      CICS RELEASE = 0410
+ ALTPRINTCopy ==> No      No | Yes
SPOOLTo ==>
PIPELINE PROPERTIES
Pool ==>
Tasklimit ==> No      No | 1-32767
OPERATOR DEFAULTS
OPERID :
OPRPriority : 000      0-255
OPERRsl : 0      0-24,...
OPERSecurity : 1      1-64,...
PRESET SECURITY
USERid ==>
NATLang ==>
TERMINAL USAGES
Transaction ==>
TERmpriority ==> 000      0-255
+ Interservice ==> Yes      Yes | No
S An object must be specified.

SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Terminal - Screen 3

```

DEFINE TERM
OVERTYPE TO MODIFY
CEDA Define Terminal(      )      CICS RELEASE = 0410
+ PRINTER DATA
SPOOLDest ==> 00      0-24 | Public
SPOOLPRTrs1 ==> 00      0-59
SPOOLPRTr2 ==>
SPOOLFcb ==>
PRINTEDmsg ==> No      No | Yes
PRINTImmed ==> No      No | Yes
SESSION SECURITY
Securityname ==>
Attachsec ==> Local      Local | Identify | Verify | Persistent
| MixIdpe
BINDPassword ==>
PASSWORD NOT SPECIFIED
BINDSecurity ==> No      No | Yes
USEDfUser ==> No      No | Yes
S An object must be specified.

SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP 2 COM 3 END      6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL

```



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Resource Definition Online...

Define Terminal - Successful Define - Screen 1

OVERTYPE TO MODIFY

CEDA Define Terminal(TRM1)

Terminal : TRM1

Group : DEMOGRP

Description ==> THIS IS A TEST TERMINAL

AUTINSTModel ==> No No | Yes | Only

AUTINSTName ==>

TERMINAL IDENTIFIERS

Typeterm ==> DPH3270

Netname ==> RMLXYZ

Consnam ==>

RENOTESYSNet ==>

RENOTESYSNet ==>

Modename ==>

ASSOCIATED PRINTERS

PRINTER ==>

PRINTERCopy ==> No No | Yes

+ ALTPRINTER ==>

DEFINE SUCCESSFUL

PF 1 HELP 2 COM 3 END

SYSID=CIC1 APPLID=DBDCCICS

TIME: 16.42.31 DATE: 00.029

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



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Resource Definition Online...

Install Group

I g(demogrp)

ENTER ONE OF THE FOLLOWING

Add

Alter

Append

Check

Copy

Define

Delete

Display

Expand

Install

Lock

Move

REMOve

REName

UNlock

USerdefine

View

SYSID=CIC1 APPLID=DBDCCICS

PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL



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Resource Definition Online...

Install the Group - Results

I G(DEMOGRP)

OVERTYPE TO MODIFY

CEDA Install

All

Connection ==>

File ==>

Lsrpool ==>

Mapset ==>

PARTitionset ==>

PARTner ==>

PROFile ==>

PROgram ==>

TERminal ==>

TRANClass ==>

TRANSACTION ==>

Typeterm ==>

Group ==> DEMOGRP

INSTALL SUCCESSFUL

PF 1 HELP 3 END

SYSID=CIC1 APPLID=DBDCCICS

TIME: 10.45.07 DATE: 99.244

6 CRSR 7 SBH 8 SFH 9 MSG 10 SB 11 SF 12 CNCL



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Resource Definition Online...

Add the Group to a List

add g(demogrp) l(vselist)

ENTER ONE OF THE FOLLOWING

Add

ALter

APPend

ChEck

COpY

DEfIne

DELEte

DISplay

EXpand

InstaLL

LoCk

MoVe

RENoVe

REName

UNLoCk

USerdefine

ViEW

SYSID=CIC1

APPLID=DDOCCICS

PF 1 HELP

3 END

6 CRSR

9 MSG

12 CNCL



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Resource Definition Online...

Add Group to List - Results

ADD G(DEMOGRP) L(VSELIST)

OVERTYPE TO MODIFY

CEDA Add

Group ==> DEMOGRP

List ==> VSELIST

Before ==>

After ==>

ADD SUCCESSFUL

TIME: 11.08.00

DATE: 99.244

PF 1 HELP

3 END

6 CRSR

7 SBH

8 SFH

9 MSG

10 SB

11 SF

12 CNCL



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Resource Definition Online...

Expand Group to View Contents

ex g(demogrp)

ENTER ONE OF THE FOLLOWING

Add

ALter

APPend

ChEck

COpY

DEfIne

DELEte

DISplay

EXpand

InstaLL

LoCk

MoVe

RENoVe

REName

UNLoCk

USerdefine

ViEW

SYSID=CIC1

APPLID=DDOCCICS

PF 1 HELP

3 END

6 CRSR

9 MSG

12 CNCL



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Resource Definition Online...

Expand Group - Results

E G(DEMOGRP)
ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
DEMOLSR	LSRPOOL	DEMOGRP	00.131	14.20.41
TESTFIL	FILE	DEMOGRP	00.028	16.30.43
TESTPROG	PROGRAM	DEMOGRP	00.131	16.20.20
TRML	TERMINAL	DEMOGRP	00.131	16.21.13
TRANCLS	TRANCLASS	DEMOGRP	00.131	16.12.59
TEST	TRANSACTION	DEMOGRP	00.028	16.39.12

RESULTS: 1 TO 6 OF 6

PF 1 HELP

SYSID=CIC1 APPLID=DDCCICS

TIME: 96.21.24 DATE: 00.131

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Resource Definition Online...

Expand Group to View Transactions

ex g(demogrp) trans(*)
ENTER ONE OF THE FOLLOWING

Add
Alter
Append
Check
Copy
DEfine
DElete
DisPlay
Expand
Install
Lock
Move
REMove
REName
UNLock
USerdefine
View

SYSID=CIC1 APPLID=DDCCICS

PF 1 HELP 3 END 6 CSR 9 MSG 12 CNCL

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Resource Definition Online...

View Transactions - Results

EX G(DEMOGRP) TRANS(*)
ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
TEST	TRANSACTION	DEMOGRP	99.244	10.36.54

RESULTS: 1 TO 1 OF 1

PF 1 HELP

SYSID=CIC1 APPLID=DDCCICS

TIME: 11.26.13 DATE: 99.244

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Resource Definition Online...

Copy, Rename, Delete Resources in Group

E G(DEMOGRP)

ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
DENOLSR	LSRPOOL	DEMOGRP	00.131	14.20.41
TESTFIL	FILE	DEMOGRP	00.028	16.30.43
TESTPROG	PROGRAM	DEMOGRP	00.131	16.20.20
TRM1	TERMINAL	DEMOGRP	00.131	16.21.13
TRANCLS	TRANCLASS	DEMOGRP	00.131	16.12.59
TEST	TRANSACTION	DEMOGRP	00.028	16.39.12

RESULTS: 1 TO 6 OF 6

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=BDCCICS

TIME: 16.21.24 DATE: 00.131

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Resource Definition Online...

Copy, Rename, Delete Resources - Results

E G(DEMOGRP)

ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
DENOLSR	LSRPOOL	DEMOGRP	00.131	14.20.41
TESTFIL	FILE	DEMOGRP	*O AS (NEWFILE)	COPY SUCCESSFUL
PROG1	PROGRAM	DEMOGRP	*ENAME AS (PROG1)	RENAME SUCCESSFUL
			*EL	
TRANCLS	TRANCLASS	DEMOGRP	00.131	16.12.59
TEST	TRANSACTION	DEMOGRP	00.028	16.39.12

RESULTS: 1 TO 6 OF 6

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=BDCCICS

TIME: 16.24.25 DATE: 00.131

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Resource Definition Online...

Resultant Group

E G(DEMOGRP)

ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
DENOLSR	LSRPOOL	DEMOGRP	00.131	14.20.41
NEWFILE	FILE	DEMOGRP	00.131	16.24.24
TESTFIL	FILE	DEMOGRP	00.028	16.30.43
PROG1	PROGRAM	DEMOGRP	00.131	16.24.24
TRANCLS	TRANCLASS	DEMOGRP	00.131	16.12.59
TEST	TRANSACTION	DEMOGRP	00.028	16.39.12

RESULTS: 1 TO 6 OF 6

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=BDCCICS

TIME: 16.25.36 DATE: 00.131

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Resource Definition Online...

Forgot Group Names

DI GR(*)

ENTER COMMANDS

GROUP

CACIS

CADYNAM

CAEXPLOR

CAISH

CATOPSEC

CAVOLLIE

CEE

CICREXX

DDNJ

DFHSACCT

DFHSAFLA

DFHSDRSP

DFHSBR

DFHSCFLA

DFHSCTXT

DFHSDFLA

+ DFHSEXCI

RESULTS: 1 TO 17

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=DDCCICS

TIME: 16.25.36 DATE: 00.131

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Resource Definition Online...

What group is resource in

EX GR(*)

TRANS(CEDF)

ENTER COMMANDS

NAME	TYPE	GROUP	DATE	TIME
CEDF	TRANSACTION	DFHEDF	98.198	18.31.35
CEDF	TRANSACTION	ITSSPG	00.034	11.17.35
CEDF	TRANSACTION	VSESPG	00.032	09.59.25

RESULTS: 1 TO 17

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=DDCCICS

TIME: 16.25.36 DATE: 00.131

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DFHCS DUP Batch Utility

Prior Release CICS System Definition File

VSE Library with PCT, PPT, FCT, and/or TCT phases

Copy

Migrate

DFHCS DUP Batch Utility

CICS System Definition File (CSD)

Reports

JCL

Commands, definitions, etc

GRPLIST= or INSTALL

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DFHCSDUP Batch Utility...

- Manage the CSD File
- Report on CSD contents
- Extract data from the CSD
- Define and maintain resources in the CSD
- Migrate resources from macro tables
 - PCT, PPT, TCT, FCT



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DFHCSDUP Batch Utility...

- Commands
 - Manage the CSD file
 - INITIALIZE - create new CSD
 - UPGRADE - upgrade CSD with new release definitions
 - SERVICE - apply maintenance to CSD
 - VERIFY - release internal locks



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DFHCSDUP Batch Utility...

- Commands...
 - Report on the CSD file
 - LIST - produce listings of objects in CSD
 - Extract data from the CSD
 - EXTRACT - extract definitions from CSD
 - Migrate resources from macro tables
 - MIGRATE - convert PCT, PPT, TCT, and FCT table entries to RDO
 - Reads phases from VSE libraries



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DFHCSDUP Batch Utility...

■ Commands...

- Process objects
 - ADD, REMOVE a group to/from a list
 - ALTER a resource definition
 - APPEND a list to another list
 - COPY a group to another group
 - DEFINE a resource
 - DELETE a group or list
 - USERDEFINE a resource definition using your own defaults



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DFHCSDUP Batch Utility...

Define Resources

```
* $$ JOB JNM=DEFGROUP, DISP=D, CLASS=0
// JOB DEFGROUP   DEFINE GROUP DEMOGRP
// EXEC DFHCSDUP
DELETE G(DEMOGRP)
DEFINE FILE(TESTFIL)      GROUP(DEMOGRP)  LSRPOOL(10)
                          DA(6)          IN(5)
                          STRINGS(5)      BROWSE(YES)  UPDATE(YES)
                          RECORDS(F)      GROUP(DEMOGRP) PROGRAM(TESTPROG)
DEFINE TRANS(TEST)        TASKDATALOC(ANY)
                          TWA(200)
DEFINE PROGRAM(TESTPROG)  GROUP(DEMOGRP)  LANG(COBOL)
                          DATA(ANY)
/*
/&
* $$ E0J
```



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DFHCSDUP Batch Utility...

■ Migrate existing table definitions

- Remove IBM CICS and VSE entries from table source
- Use DFHxxx TYPE=GROUP, GROUP=name entries to generate multiple groups
 - OR
- Break each table up into smaller parts, each part becoming a group



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DFHCSDUP Batch Utility...

Using DFHxxx TYPE=GROUP

```

PRINT ON, NOGEN
DFHPPT TYPE=INITIAL, SUFFIX=JM
DFHPPT TYPE=GROUP, GROUP=A001
DFHPPT TYPE=ENTRY, PROGRAM=PROG01, PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY, PROGRAM=PROG02, PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY, PROGRAM=PROG03, PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY, PROGRAM=PROG04, PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY, PROGRAM=PROG05, PGMLANG=ASSEMBLER
DFHPPT TYPE=GROUP, GROUP=C001
DFHPPT TYPE=ENTRY, PROGRAM=PROG11, PGMLANG=COBOL
DFHPPT TYPE=ENTRY, PROGRAM=PROG12, PGMLANG=COBOL
DFHPPT TYPE=ENTRY, PROGRAM=PROG13, PGMLANG=COBOL
DFHPPT TYPE=ENTRY, PROGRAM=PROG14, PGMLANG=COBOL
DFHPPT TYPE=ENTRY, PROGRAM=PROG15, PGMLANG=COBOL
DFHPPT TYPE=FINAL
END

```


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DFHCSDUP Batch Utility...

- Migrate existing table definitions...
 - Assemble and linkedit table with CICS TS libraries
 - Use MIGRATE command to create CSD entries
 - Processes assembled table phases
 - Default group names are xxxnn where
 - xxx is table type (FCT, PPT, PCT, TCT)
 - nn is table suffix
 - TOGROUP(groupname) can be specified for PCT and PPT


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DFHCSDUP Batch Utility...

MIGRATE Job

```

* $$ JOB JNM=MIGR, DISP=D, CLASS=0
// JOB MIGR    MIGRATE CICS TABLE TO RDO
// LIBDEF PHASE, SEARCH=(PRD2.CONFIG, PRD1.BASE)
// EXEC DFHCSDUP
MIGRATE TABLE(DFHPPTJM)
/*
/&
* $$ E0J

```


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DFHCSDUP Batch Utility...

Output from MIGRATE Job

```

MIGRATE TABLE(DFHPPTJM)
DFHCAS120 I PRIMARY CSD OPENED; FILENAME: DFHCSD
DFHCAS144 I MIGRATION OF TABLE DFHPPTJM IN PROGRESS. DEFAULT GROUP IS PPTJM
DFHCAS143 I GROUP A001 CREATED.
DFHCAS159 I PROGRAM PROG01 DEFINED IN GROUP A001
DFHCAS159 I PROGRAM PROG02 DEFINED IN GROUP A001
DFHCAS159 I PROGRAM PROG03 DEFINED IN GROUP A001
DFHCAS159 I PROGRAM PROG04 DEFINED IN GROUP A001
DFHCAS159 I PROGRAM PROG05 DEFINED IN GROUP A001
DFHCAS143 I GROUP C001 CREATED.
DFHCAS159 I PROGRAM PROG11 DEFINED IN GROUP C001
DFHCAS159 I PROGRAM PROG12 DEFINED IN GROUP C001
DFHCAS159 I PROGRAM PROG13 DEFINED IN GROUP C001
DFHCAS159 I PROGRAM PROG14 DEFINED IN GROUP C001
DFHCAS159 I PROGRAM PROG15 DEFINED IN GROUP C001
DFHCAS140 I TOTAL PROGRAM DEFINITIONS CREATED: 10
DFHCAS101 I MIGRATE COMMAND EXECUTED SUCCESSFULLY.
DFHCAS123 I PRIMARY CSD CLOSED; FILENAME: DFHCSD
    
```

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Automatic Installation

- VTAM terminals and/or programs
- Create "models" using RDO or DFHCSDUP
 - Stored in CSD
- Program controlled
 - IBM or user programs
- Table entries dynamically created from models during CICS operation
 - Created only when needed

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Automatic Installation...

- Terminal Autoinstall
 - No need to pre-define each terminal to CICS
 - Input from
 - VTAM terminal definition
 - MDLTAB table (VTMMDL.B from IUI)
 - CICS Autoinstall Model Definitions
 - TERMINAL AUTOINSTMODEL
 - TYPETERM
 - Autoinstall Program

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Automatic Installation...

- Terminal Autoinstall...
 - Initialization parameters
 - AIEXIT exit program name
 - AILDELAY time delay before deletion following session termination
 - AIQMAX maximum number of concurrent installs
 - AIRDELAY time delay before deletion following emergency restart


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Automatic Installation...

- Terminal Autoinstall...
 - Autoinstall Program
 - Input
 - VTAM NETNAME, VTAM LOGON data
 - List of autoinstall models
 - Output
 - CICS TERMID
 - Autoinstall model to use
 - Associated CICS printer TERMIDs


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Automatic Installation...

- Terminal Autoinstall...
 - Autoinstall Program...
 - DFHZATDX and DFHZATDY (CICS-supplied)
 - Last four nonblank characters of VTAM NETNAME used for CICS TERMID
 - Documented in *CICS TS Customization Guide*
 - IESZATDX (VSE-supplied)
 - TERMID based on VSE/ESA naming conventions created by IUI terminal definition dialogs (Annn)
 - Uses VTAM model terminal support
 - Model name defined in IUI generated VTAM definitions
 - Documented in *VSE/ESA Networking Support*


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Automatic Installation...

- Program Autoinstall
 - Eliminates need to pre-define each application program to CICS
 - CICS passes program name to autoinstall program
 - Autoinstall program returns action to be taken
 - CICS dynamically creates PPT entry
 - CICS-supplied program DFHPGADX
 - Most installations can probably used unchanged
 - Modify or write your own


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Automatic Installation...

- Program Autoinstall...
 - Autoinstall Program
 - Controlled by initialization parameters
 - PGAEXIT=DFHPGADX|prog_name
 - PGAIPGM=ACTIVE|INACTIVE
 - PGAICTLG=MODIFY|NONE|ALL
 - Program input is name of program and object type
 - program, mapset, partitionset
 - Program output
 - Model name to be used
 - Specific definitions for program
 - Return code (install or not)


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Automatic Installation...

- Program Autoinstall...
 - Parameters that can be set
 - Autoinstall model name
 - Programming language
 - CEDF - yes or no
 - Data location - below or any
 - Execution key - CICS or user
 - Load attribute - reload, resident, transient, reusable
 - Use SVA copy - yes or no
 - Execution set - DPL subset or full
 - Remote attributes - system, program, transaction
 - Return code - install or do not install program


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Automatic Installation...

Default Program Autoinstall Model

OBJECT CHARACTERISTICS		CICS RELEASE = 0410
CEDA View Program(DFHPGAPG)		
Program	: DFHPGAPG	
Group	: DFHPGAPG	
Description	: DEFAULT PROGRAM FOR PROGRAM AUTOINSTALL	
Language	: Cobol Assembler C Pl1	
REload	: No Yes	
RESident	: No Yes	
USAge	: Normal Transient	
USEsvacopy	: No Yes	
Status	: Enabled Disabled	
RSI	: 00 0-24 Public	
Codf	: Yes No	
DATAlocation	: Below Any	
EXECKey	: User Cics	
REMOTE ATTRIBUTES		
RENOTESystem	:	
RENOTENAME	:	
Transid	:	
EXECUTIONset	: Fullapi Opisubset	

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System Programming

- New support in CICS TS
- EXEC CICS CREATE and DISCARD commands in user programs
 - CREATE most resources
 - DISCARD some resources
- Definitions in running system only
 - Do not affect definitions on CSD
 - Lost on COLD start
- Whenever you want

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Summary

- Resource Definition in the CSD
 - Facilitates definition and activation of PCT, PPT, TCT, and FCT resources in running CICS systems
 - Required for PCT, PPT, and TCT VTAM definitions
- Autoinstall for terminals and programs
 - Easier system definition
 - Possible reduced VS consumption

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