

Unit 5. CICS Transactions

Objectives

CEDA Transaction.

CECI Transaction.

CEDF Transaction.

CMAC Transaction.

CEMT Transaction

CEOT Transaction.

CESN Transaction.

Figure: 5-1. Objectives

Notes:

Resource Definition Online

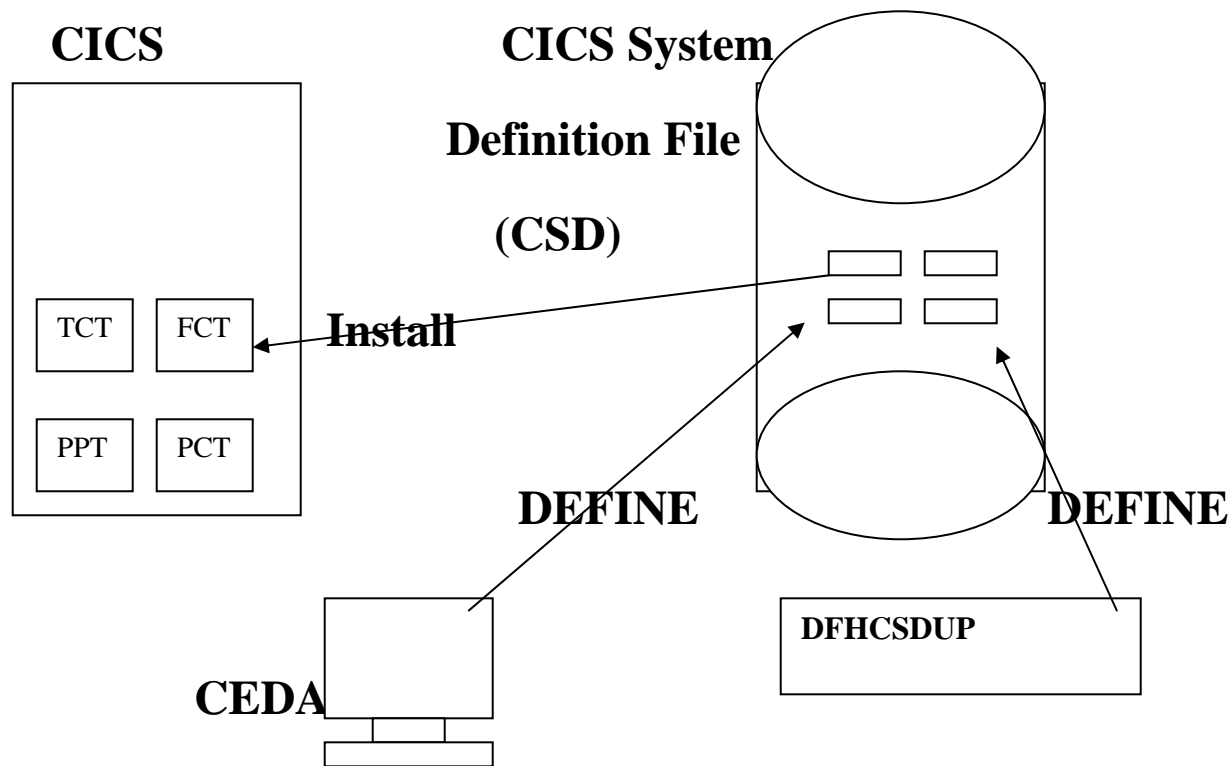


Figure: 5-2. Resource Definition Online

Notes:

CICS provides facilities for defining CICS resources and adding them dynamically to a running CICS System. The benefits of this are:

Increased system programming productivity.

Continuous system operation.

RDO consists of CSD and CEDA.

CEDA Transaction

CEDA Transaction is generally used for defining resources to CICS.

Resources are nothing but the entities that are managed by the CICS system such as:

- **Terminals**
- **Files (Database)**
- **Programs**
- **BMS maps**
- **Transactions**
- **Queues**
- **Connections to the other systems.**

Figure: 5-3. CEDA Transaction

Notes:

Dynamic Addition transaction (CEDA) can perform all the functions of RDO.

Two more Transactions, CEDB and CEDC perform a sub set of the functions of CEDA.

CICS System Definition Utility Program (DFHCSDUP).

Online Resources

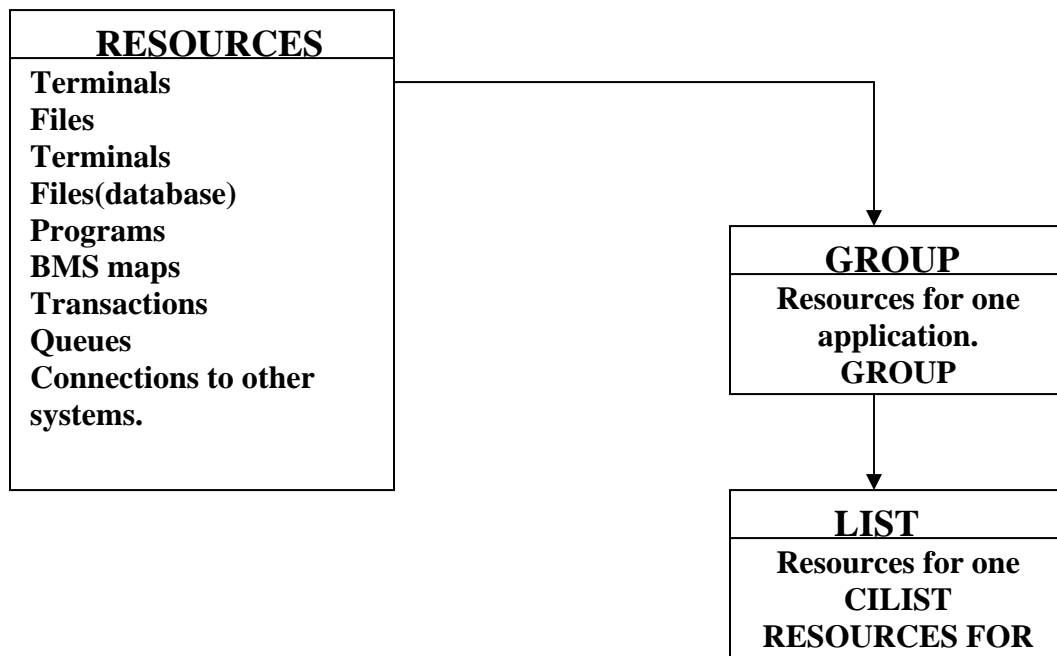


Figure: 5-4. Online Resources

Notes:

GROUP contains resource names. Resources always belong to user defined GROUP, and that GROUP normally represents all the resources associated with an application.

LIST contains group names. It represents all the applications for a CICS session.

CEDAMenu

ENTER ONE OF THE FOLL ENTER ONE OF THE FOLLOWING

**ADd
ALter
APpend
CHeck
COpy
DEFine
DELeTe
DIsplay
Expand
Install
Lock
Move
REMove
REName
UNlock
USerdefine
View**

SYSID=CE16 APPLID=PYNZ7C1

PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL

Figure: 5-5. CEDA Menu

Notes:

This the menu that you get after you key CEDA and press ENTER.

CEDA is a user friendly CICS supplied transaction.

CEDA DEFINE Menu

DEF
ENTER ONE OF THE FOLLOWING

Connection
File
Lsrpool
Mapset
PARTitionset
PARTNer
PROFile
PROGram
Sessions
TErминаl
TRANClass
TRANSaction
Typeterm

SYSID=CE16 APPLID=PYNZ7C1

PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL

Figure: 5-6. CEDA DEFINE Menu

Notes:

These are the resources that can be defined using CEDA in CICS/ESA version 4.

CEDA DEFINE PROGRAM Menu

```

DEF PROG
OVERTYPE TO MO  DEF TRAN
OVERTYPE TO MODIFY
CEDA DEFine PROGram(          )
PROGRAM          ==> cust01
Group           ==> customer
DEscription     ==> customer address update program
Language        ==> CObol | Assembler | Le370 | PL1
                ==> Rpg
RELoad          ==> No      No | Yes
RESident        ==> No      No | Yes
USAge           ==> Normal  No | Transient
USELpacopy      ==> No      No | Yes
Status          ==> Enabled  Enabled | Disabled
RSI             : 00        0-24 | Public
Cedf            ==> Yes     Yes | No
DAtalocation    ==> Below   Below | Any
EXECKey         ==> User    User | Cics
REMOTE ATTRIBUTES
REMOTESystem    ==>
+ REMOTEName     ==>

                                SYSID=CE16 APPLID=PYNZ7C1

PF 1  HELP      3  END      6  CRSR      9  MSG      12  CNCL

```

Figure: 5-7. CEDA DEFINE PROGRAM Menu

Notes :

⊕ Indicates the there are some more properties associated with the program.

CEDA DEFINE TRANSACTION Menu

```

DEF TRAN
OVERTYPE TO MO DEF TRAN
OVERTYPE TO MODIFY
CEDA DEFine TRAnsaction(      )
TRANSaction      ==>  xyz
Group            ==>  customer
DEscription      ==>  customer address update transaction
PROGram          ==>  cust01
TWAsize          ==>  0000      0-32767
PROFile          ==>  DFHCICST
PARtitionset     ==>
STAtus           ==>  Enabled      Enabled | Disabled
PRIMedsize       ==>  0000      0-65520
TASKDATAloc      ==>  Below      Below | Any
TASKDATAkey      ==>  User      User | Cics
STORageclear     ==>  No      No | Yes
RUUnaway         ==>  System      System | 0-2700000
SHutdown         ==>  Disabled    Disabled | Enabled
ISolate          ==>  Yes      Yes | No
REMOTE ATTRIBUTES
+ DYnamic         ==>  No      No | Yes

                                SYSID=CE16 APPLID=PYNZ7C1

PF 1  HELP      3  END      6  CRSR      9  MSG      12  CNCL

```

Figure: 5-8. CEDA DEFINE TRANSACTION Menu

Notes:

Using CEDA we can define the transaction with program.

CEDA INSTALL Menu

```
INSTALL
OVERTYPE TO MOD  INSTALL
OVERTYPE TO MODIFY
CEDA Install
All
Connection      ==>
File            ==>
Lsrpool         ==>
Mapset          ==>
PARTitionset    ==>
PARTNer         ==>
PROFile         ==>
PROGram         ==>
TClass          ==>
TErминаl        ==>
TRANSACTION     ==>
TYpeterm        ==>
Group           ==> MTPTRG
```

```
PF 1  HELP      3  END      6  CRSR      9  MSG      12  CNCL
SYSID=CE16 APPLID=PYNZ7C1
```

Figure: 5-9. CEDA INSTALL Menu

Notes:

When you have created a group of resource definitions, you need to INSTALL it using CEDA INSTALL GROUP command. This tells CICS to convert your group on the CSD file into a series of entries to be dynamically installed in the PCT, PPT, TCT or FCT of the running CICS system.

Groups are supplied containing definitions of resources which CICS itself needs.

CEDA ALTER Command Menu

OVERTYPE TO MODIFY		OVERTYPE TO MODIFY	
CICS RELEASE = 0410			
CEDA ALter File(SAMPS)			
File	: SAMPS		
Group	= = > xyz		
DEscription	= = >		
VSAM PARAMETERS			
DSNAME	= = > ABC.DEF.GHI		
Password	= = >	PASSWORD NOT SPECIFIED	
Lsrpoolid	= = > None	1-8 None	
DSNSharing	= = > Allreqs	Allreqs Modifyreqs	
STRings	= = > 006	1-255	
Nsrgroup	= = >		
REMOTE ATTRIBUTES			
REMOTESystem	= = >		
REMOTENAME	= = >	1-32767	
RECORDSIZE	= = >	1-255	
Keylength	= = >		
INITIAL STATUS			
+ STatus	= = > Enabled	Enabled Disabled Unenabled	
SYSID=CE16 APPLID=PYNZ7C1			
PF 1 HELP	3 END	6 CRSR	9 MSG 12 CNCL

Figure: 5-10. CEDA ALTER Command Menu

Notes:

Any change you make will not be effective in the CICS system until you have installed the resource.

CECI Transaction

The Command Level Interpreter allows you to

Execute CICS commands interactively at a terminal.

Test Commands before writing them in a program.

Generate test data.

Repair files.

Figure: 5-11. CECI Transaction

Notes:

The Command Level Interpreter or CECI as it is called after its transaction code, is a very useful tool for programmers.

The Command Interpreter can be useful to the programmer in two ways:

1. It provides an on-line reference to the syntax of the whole of the CICS API.
2. It provides a useful means of interaction with the system.

For example, security permitting, a record corrupted during program testing could be “repaired” interactively or temporary storage queues could be created or deleted.

CECI Menu

STATUS: ENTER ONE OF THE FOLLOWING

Abend	DEQ	Inquire	RECeive	STARTBr
ACquire	DISAbile	ISsue	RELEase	SUSpend
ADdress	DISCard	JouRnal	RESEtbr	SYncpoint
ALlocate	DUmp	LInk	RESYnc	Trace
ASKtime	ENABle	LOad	RETRieve	Unlock
ASSign	ENDbr	Monitor	RETUrn	Verify
Bif	ENQ	Perform	REWrite	WAIT
BUild	ENTer	POInt	ROute	WAITCics
CAnceL	EXtract	POP	SENd	WRITE
CHange	FEpi	POST	SET	WRITEQ
COLlect	FOrmattime	PURge	SIGNOff	Xctl
CONNect	FREE	PUSH	SIGNON	
CONVerse	FREEMain	Query	SPOOLClose	
CReate	GDs	READ	SPOOLOpen	
DELAy	GEtmain	READNext	SPOOLRead	
DELETE	Handle	READPrev	SPOOLWrite	
DELETEQ	IGNore	READQ	START	

PF 1 HELP 3 END 6 CRSR 9 MSG 12 CNCL

Figure: 5-12. CECI Menu

Notes:

CECI is invoked by simply entering the transaction code, CECI, and then a list of all CICS commands will be displayed on the screen.

The programmer can select from these and can then continue to be prompted to build up a request which may be syntax checked and executed.

The results of command execution, or any error messages, will be displayed interactively.

CECI READ FILE before execution

```

READ FILE (MAINTEC) INTO ( &A) RID ( 000030 )
STATUS : COMMAND EXECUTION COMPLETE           NAME =
EXEC CICS READ
  File ( 'MAINTEC' )
  < SYsid ( ) >
  ( SEt( ) | Into ( ) )
  < Length ( +00200 ) >
  RIdfld ( '000030' )
  < Keylength ( ) < GEneric > >
  < RBa | RRn | DEBRec | DEBKey >
  < GTeq | Equal >
  < Update < Token ( ) > >

RESPONSE :NORMAL           EIBRESP=+0000000000 EIBRESP2=+0000000000
PF 1 HELP 2 HEX 3 END           11 SF

```

Figure: 5-13. CECI READ FILE before execution

Notes:

Here the task is about to read record with the 000030 from the file MAINTREC.

You will notice from these displays that you can abbreviated the command and the operands, e.g. RID for RIDFLD, you cannot do this in an application program.

The CECS transaction provides the syntax display only.

CECI READ FILE after execution

```

READ FILE ( MAINTec ) INTO ( &A) RID ( 000030 )
STATUS : COMMAND EXECUTION COMPLETE                NAME =
EXEC CICS READ
  File ( 'MAINTec' )
  < SYsid ( ) >
  ( SEt(
    | Into ( '000030..VINAY    .. PAI ....          C01345604/05/1'....) )
  < Length ( +00200 ) >
  RIdfld ( '000030' )
  < Keylength ( ) < GEneric > >
  < RBa | RRn | DEBRec | DEBKey >
  < GTeq | Equal >
  < Update < Token ( ) > >

RESPONSE :NORMAL                EIBRESP=+0000000000 EIBRESP2=+0000000000
PF 1 HELP 2 HEX 3 END                11 SF

```

Figure: 5-14. CECI READ FILE after execution

Notes:

Here you can see that the command has executed without any error condition occurring, i.e. Response = Normal.

CECI READ FILE error

READ FILE (MAINTXX) INTO (&A) RID (000030)

STATUS : COMMAND EXECUTION COMPLETE

NAME =

EXEC CICS READ

File ('MAINTXX')

< SYsid () >

(SEt() | Into (' '))

< Length (+00000) >

RIdfld ('000030')

< Keylength () < GEneric > >

< RBa | RRn | DEBRec | DEBKey >

< GTeq | Equal >

< Update < Token () > >

**RESPONSE : FILENOTFOUND
PF 1 HELP 2 HEX 3 END**

**EIBRESP=+0000000012 EIBRESP2=+0000000001
11 SF**

Figure: 5-15. CECI READ FILE error

Notes :

The problem here is that the file MAINTXX has not been defined to CICS and hence it cannot be accessed.

CEDF Transaction

CEDF is a very powerful debugging tool to test CICS programs interactively at a screen.

It can run on 1 or 2 terminal mode.

Displays working-storage section, allows modification of working-storage.

Displays return codes after each execution.

Figure: 5-16. CEDF Transaction

Notes:

The best way to learn about EDF is to sit down at a terminal and use it to debug a program.

Invoking a CEDF Transaction

- **At transaction initialization.**
- **At the start of execution of every EXEC CICS command.**
- **At the end of execution of every command.**
- **At program termination.**
- **At normal task termination.**
- **When an ABEND occurs.**

Figure: 5-17. Invoking a CEDF Transaction

Notes:

EDF Screen – About to Execute a Command

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: ABOUT TO EXECUTE COMMAND
EXEC CICS READ
FILE ('ABC')
INTO (' ' '..')
LENGTH (200)
RIDFLD ('000010')
EQUAL
NOHANDLE

OFFSET:X'000772' LINE:00206 EIBFN=X'0602'

ENTER : CONTINUE

PF1 : UNDEFINED

PF2 : SWITCH HEX/CHAR

PF3 : UNDEFINED

PF4 : SUPPRESS DISPLAYS

PF5 : WORKING STORAGE

PF6 : USER DISPLAY

PF7 : SCROLL BACK

PF8 : SCROLL FORWARD

PF9 : STOP CONDITIONS

PF10 : PREVIOUS DISPLAY

PF11: UNDEFINED

PF12 : ABEND USER TASK

Figure: 5-18. EDF Screen – About to Execute Command

Notes:

In these notes are some screens that will give you an idea of the sort of displays you might receive from EDF in the course of a session.

The exact information displayed will depend upon the point at which execution has been intercepted.

EDF Screen – EIB Display

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: PROGRAM INITIATION

EIBTIME = 134728
EIBDATE = 97114
EIBTRNID = 'AH15'
EIBTASKN = 44
EIBTRMID = '2BGZ'

EIBCPOSN = 4
EIBCALEN = 0
EIBAID = X'7D'
EIBFN = X'0000'
EIBRCODE = X'000000000000'
EIBDS = '.....'
+ EIBREQID = '.....'

ENTER : CURRENT DISPLAY

PF1 : UNDEFINED

PF4 : SUPPRESS DISPLAYS

PF7 : SCROLL BACK

PF10 : PREVIOUS DISPLAY

PF2 : SWITCH HEX/CHAR

PF5 : WORKING STORAGE

PF8 : SCROLL FORWARD

PF11: NEXT DISPLAY

PF3 : UNDEFINED

PF6 : USER DISPLAY

PF9 : STOP CONDITIONS

PF12 : UNDEFINED

Figure: 5-19. EDF Screen – EIB Display

Notes:

EIB will provide information about EIBDATE, EIBCALEN, EIBTIME, and EIBRCODE etc.

EDF Screen – HEX and Field Address Display

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
 STATUS: COMMAND EXECUTION COMPLETE
 EXEC CICS READ
 FILE (X'D3C1D7C8D6D5C540')
 INTO (X'F0F0F0F0F1F00009C3C8D9C9E2E3C9D5C5000000C90004C8'.....)
 LENGTH (X'00C8')
 RIDFLD (X'F0F0F0F0F0F1F0')
 EQUAL
 NOHANDLE

OFFSET:X'000772' LINE:00206 EIBFN=X'0602'
 RESPONSE: NORMAL EIBRESP=X'00000000'

ENTER : CONTINUE		
PF1 : UNDEFINED	PF2 : SWITCH HEX/CHAR	PF3 : UNDEFINED
PF4 : SUPPRESS DISPLAYS	PF5 : WORKING STORAGE	PF6 : USER DISPLAY
PF7 : SCROLL BACK	PF8 : SCROLL FORWARD	PF9 : STOP CONDITIONS
PF10 : PREVIOUS DISPLAY	PF11: UNDEFINED	PF12 : ABEND USER TASK

Figure: 5-20. EDF Screen – HEX and Field Address Display

Notes:

By pressing PF2 you will get the output in hex format.

In addition you also get the address in storage of the various fields.

EDF Screen – Command Execution Complete

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: COMMAND EXECUTION COMPLETE
EXEC CICS READ
FILE ('ABC')
INTO ('000010...CHRISTY..S..DANIEL.....A00949801/01/1965PRES .'.....)
LENGTH (200)
RIDFLD ('000010')
EQUAL
NOHANDLE

OFFSET:X'000772' LINE:00206 EIBFN=X'0602'
RESPONSE: NORMAL EIBRESP=0

ENTER : CONTINUE
PF1 : UNDEFINED PF2 : SWITCH HEX/CHAR PF3 : UNDEFINED
PF4 : SUPPRESS DISPLAYS PF5 : WORKING STORAGE PF6 : USER DISPLAY
PF7 : SCROLL BACK PF8 : SCROLL FORWARD PF9 : STOP CONDITIONS
PF10 : PREVIOUS DISPLAY PF11: UNDEFINED PF12 : ABEND USER TASK

Figure: 5-21. EDF Screen – Command Execution Complete

Notes:

EDF Screen – About to Execute SEND MAP

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: ABOUT TO EXECUTE COMMAND
EXEC CICS SEND MAP
MAP ('MAP1')
FROM ('.....%.....%.....'.....)
LENGTH (300)
MAPSET ('MAPSET1')
TERMINAL
FREEKB
ERASE

OFFSET:X'000B52' LINE:00321 EIBFN=X'1804'

ENTER : CONTINUE

PF1 : UNDEFINED

PF2 : SWITCH HEX/CHAR

PF3 : UNDEFINED

PF4 : SUPPRESS DISPLAYS

PF5 : WORKING STORAGE

PF6 : USER DISPLAY

PF7 : SCROLL BACK

PF8 : SCROLL FORWARD

PF9 : STOP CONDITIONS

PF10 : PREVIOUS DISPLAY

PF11: UNDEFINED

PF12 : ABEND USER TASK

Figure: 5-22. EDF Session – About to Execute SEND MAP

Notes:

EDF Session – About to Execute SEND MAP

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: ABOUT TO EXECUTE COMMAND
EXEC CICS SEND MAP
MAP ('MAP1')
FROM ('.....%.....%.....'.....)
LENGTH (300)
MAPSET ('MAPSET1')
TERMINAL
FREEKB
ERASE

OFFSET:X'000B52' LINE:00321 EIBFN=X'1804'

ENTER : CONTINUE		
PF1 : UNDEFINED	PF2 : SWITCH HEX/CHAR	PF3 : UNDEFINED
PF4 : SUPPRESS DISPLAYS	PF5 : WORKING STORAGE	PF6 : USER DISPLAY
PF7 : SCROLL BACK	PF8 : SCROLL FORWARD	PF9 : STOP CONDITIONS
PF10 : PREVIOUS DISPLAY	PF11: UNDEFINED	PF12 : ABEND USER TASK

Figure: 5-23. EDF Session – About to Execute SEND MAP

Notes:

After this command gets executed the next screen displays the working storage contents (Record in storage).

EDF Session – Completion of SEND MAP

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: COMMAND EXECUTION COMPLETE
EXEC CICS SEND MAP
MAP ('MAP1')
FROM ('.....%.....%.....'.....)
LENGTH (300)
MAPSET ('MAPSET1')
TERMINAL
FREEKB
ERASE

OFFSET:X'000B52' LINE:00321 EIBFN=X'1804'
RESPONSE: NORMAL EIBRESP=0

ENTER : CONTINUE
PF1 : UNDEFINED PF2 : SWITCH HEX/CHAR PF3 : UNDEFINED
PF4 : SUPPRESS DISPLAYS PF5 : WORKING STORAGE PF6 : USER DISPLAY
PF7 : SCROLL BACK PF8 : SCROLL FORWARD PF9 : STOP CONDITIONS
PF10 : PREVIOUS DISPLAY PF11: UNDEFINED F12 : ABEND USER TASK

Figure: 5-24. EDF Session – Completion of SEND MAP

Notes:

EDF Session – Output of SEND MAP

APPLICATION FORM

EMPLOYEE NO. 000010
FIRST NAME CHRISTY
MIDDLE INIT. S
LAST NAME DANIEL
WORK DEPT. A00
PHONE NO. 9498
HIRE DATE 06/04/1990
JOB CODE PRES
AGE 23
SEX MALE
BIRTH DATE 16/04/1978
SALARY 50000.00
BONUS 1000.00
COMMISSION 4000.00

COMMAND => U

MESSAGES:

Figure: 5-25. EDF Session – Output of SEND MAP

Notes:

EDF Session – Output of SEND MAP

APPLICATION FORM

VALID COMMANDS ARE :

U = UPDATE , R = RETRIEVE , C=CANCEL

EMPLOYEE NO.

FIRST NAME

MIDDLE INIT.

LAST NAME

WORK DEPT.

PHONE NO.

HIRE DATE

JOB CODE

AGE

SEX

BIRTH DATE

SALARY

BONUS

COMMISSION

COMMAND => R

EMPLOYEE NO =>3352

DFHAC2206 14:12:45 PYNZ7CI Transaction NOTF has failed with abend AEIM.

Resource back out was successful.

Figure: 5-26. EDF Session – Output of SEND MAP

Notes:

EDF Session – End of Task

TRANSACTION: AA11 PROGRAM: PROGAA11 TASK: 0000044 APPLID: PYNZ7C1 DISPLAY: 00
STATUS: AOUT TO EXECUTE COMMAND
EXEC CICS RETURN
MAP ('MAP1')
TRANSID ('XYZ')
COMMAREA ('000010')
LENGTH (6)

OFFSET:X'00070C' LINE:00196 EIBFN=X'0E08'

ENTER : CONTINUE

PF1 : UNDEFINED

PF2 : SWITCH HEX/CHAR

PF3 : UNDEFINED

PF4 : SUPPRESS DISPLAYS

PF5 : WORKING STORAGE

PF6 : USER DISPLAY

PF7 : SCROLL BACK

PF8 : SCROLL FORWARD

PF9 : STOP CONDITIONS

PF10 : PREVIOUS DISPLAY

PF11: UNDEFINED

F12 : ABEND USER TASK

Figure: 5-27. EDF Session – End of Task

Notes:

CMAC Transaction

DFHCM01**Display On-line Messages and Codes**

Type the required message identifier, then press Enter.

Component ID

(for example, TC for Terminal Control
FC for File Control, etc.)

This field is required for messages in the form
DFHxyyyy, Where xx is the component ID.

Message Number

AEIM (for example, 1060,5718,or Abend Code
such as ASRA, etc.)

F3=EXIT to CICS

Figure: 5-28. CMAC Transaction

Notes:

CMAC ABEND Code Explanation

AEIM

EXPLANATION: NOTFND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

F3=Cancel

Figure: 5-29. CMAC ABEND Code Explanation

Notes:

CEMT Transaction

Functions:

- **Inquire**

Used to inquire on the status of a resource with the option of changing some of its properties.

- **Set**

This duplicates the facilities of the inquire function but can be used on non-3270 devices such as the console.

- **Perform**

This is for activities not concerned with the status of a resource e.g. taking a dump or closing down CICS.

- **Discard**

Used to delete a resource from CICS.

Figure: 5-30. CEMT Transaction

Notes:

CEMT Inquire can be used to find what tasks are currently running in CICS and if necessary selectively purge them.

CEMT Menu

STATUS : ENTER ONE OF THE FOLLOWING

**Discard
Inquire
Perform
Set**

PF 1 HELP 3 END

**SYSID=CE16 APPLID=PYNZ7C1
9 MSG**

Figure: 5-31. CEMT Menu

Notes:

To obtain the initial menu just key “CEMT” and press enter.

To obtain a list of the resources that can be inquired upon enter “INQUIRE” or simply “I”.

CEMT Inquire Menu

INQUIRE**STATUS : ENTER ONE OF THE FOLLOWING OR HIT ENTER FOR DEFAULT**

AUTInstmodel	IRBatch	TErminAl
AUTOinstall	IRC	TRAnSACTION
AUXtrace	Journalnum	TRDumpcode
Connection	Line	TSqueue
DEletshipped	MODename	Volume
DLIdatabase	MONitor	VTam
DSAs	Netname	
DSName	Artner	
DUmpds	PItrace	
FEConnection	PROFile	
FENode	PROGram	
FEPOol	STatistics	
FEPRopset	SYDumpcode	
FETarget	SYStem	
File	TAsk	
Gtftrace	TClass	
INttrace	TDqueue	

PF 1 HELP 3 END**SYSID=CE16 APPLID=PYNZ7C1
9 MSG**

Figure: 5-32. CEMT Inquire Menu

Notes:

In the menu the abbreviation for a resource is shown in uppercase although any number of the leading Characters is acceptable.

CEMT Inquire File

INQUIRE FILE

STATUS : RESULTS – OVERTYPE TO MODIFY

FIL(DFHCMACD) Vsa Clo Ena Rea

Sha

Max(00000000)

FIL(DFHCS D) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.DFHCS D

FIL(FILEA) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILEA

FIL(FILEB) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILEB

FIL(FILEC) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILEC

FIL(FILED) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILED

FIL(FILEE) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILEE

FIL(FILEF) Vsa Clo Une Rea Upd Add Bro Del

Sha

) Max(00000000)

Dsn(MTPL.CICS.FILEF

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-33. CEMT Inquire File.

Notes:

You can get to this screen more quickly by keying on a blank screen:

CEMT I FILE

Once you are in CEMT you stay in it until you press PF3.

CEMT is a conversational transaction.

CEMT Inquire Transaction

INQUIRE TRAN(M*)

STATUS : RESULTS – OVERTYPE TO MODIFY

Tra (MTP1) Pri(255) Pro (PROG1) Tcl (DFHTCL00) Ena Pur
Tra (MTP2) Pri(255) Pro (PROG2) Tcl (DFHTCL00) Ena Pur
Tra (MTP3) Pri(255) Pro (PROG3) Tcl (DFHTCL00) Ena
Tra (MTP4) Pri(255) Pro (PROG4) Tcl (DFHTCL00) Ena
Tra (MTP5) Pri(255) Pro (PROG5) Tcl (DFHTCL00) Ena
Tra (MTP6) Pri(255) Pro (PROG6) Tcl (DFHTCL00) Ena
Tra (MTP7) Pri(255) Pro (PROG7) Tcl (DFHTCL00) Ena Pur
Tra (MTP8) Pri(255) Pro (PROG8) Tcl (DFHTCL00) Ena
Tra (MTP9) Pri(255) Pro (PROG9) Tcl (DFHTCL00) Ena
Tra (MTPA) Pri(255) Pro (PROGA) Tcl (DFHTCL00) Ena
Tra (MTPB) Pri(255) Pro (PROGB) Tcl (DFHTCL00) Ena
Tra (MTPC) Pri(255) Pro (PROGC) Tcl (DFHTCL00) Ena Pur
Tra (MTPD) Pri(255) Pro (PROGD) Tcl (DFHTCL00) Ena
Tra (MTPE) Pri(255) Pro (PROGE) Tcl (DFHTCL00) Ena Pur
Tra (MTPF) Pri(255) Pro (PROGF) Tcl (DFHTCL00) Ena Pur
Tra (MTPG) Pri(255) Pro (PROGG) Tcl (DFHTCL00) Ena Pur
Tra (MTPH) Pri(255) Pro (PROGH) Tcl (DFHTCL00) Ena Pur

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-34. CEMT Inquire Transaction

Notes :

CEMT Inquire Program

INQUIRE PROG (MTP*)

STATUS : RESULTS - OVERTYPE TO MODIFY

Prog (MTPLPRG) Len (0000000) Ass Pro Ena Pri

Res (000) Use (0000000) Any Cex Ful

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-35. CEMT Inquire Program

Notes:

Changing the Status of a Resource - Before

INQUIRE TRAN(M*)

STATUS : RESULTS – OVERTYPE TO MODIFY

Tra (MTP1)	Pri(255)	Pro (PROG1)	Tcl (DFHTCL00)	Ena
Tra (MTP2)	Pri(255)	Pro (PROG2)	Tcl (DFHTCL00)	Ena
Tra (MTP3)	Pri(255)	Pro (PROG3)	Tcl (DFHTCL00)	Ena
Tra (MTP4)	Pri(255)	Pro (PROG4)	Tcl (DFHTCL00)	Dis
Tra (MTP5)	Pri(255)	Pro (PROG5)	Tcl (DFHTCL00)	Ena
Tra (MTP6)	Pri(255)	Pro (PROG6)	Tcl (DFHTCL00)	Ena
Tra (MTP7)	Pri(255)	Pro (PROG7)	Tcl (DFHTCL00)	Ena
Tra (MTP8)	Pri(255)	Pro (PROG8)	Tcl (DFHTCL00)	Ena
Tra (MTP9)	Pri(255)	Pro (PROG9)	Tcl (DFHTCL00)	Ena
Tra (MTPA)	Pri(255)	Pro (PROGA)	Tcl (DFHTCL00)	Ena
Tra (MTPB)	Pri(255)	Pro (PROGB)	Tcl (DFHTCL00)	Ena
Tra (MTPC)	Pri(255)	Pro (PROGC)	Tcl (DFHTCL00)	Ena
Tra (MTPD)	Pri(255)	Pro (PROGD)	Tcl (DFHTCL00)	Ena
Tra (MTPE)	Pri(255)	Pro (PROGE)	Tcl (DFHTCL00)	Ena
Tra (MTPF)	Pri(255)	Pro (PROGF)	Tcl (DFHTCL00)	Ena
Tra (MTPG)	Pri(255)	Pro (PROGG)	Tcl (DFHTCL00)	Ena
Tra (MTPH)	Pri(255)	Pro (PROGH)	Tcl (DFHTCL00)	Ena

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-36. Changing the Status of a Resource - Before

Notes:

Suppose you are been asked to disable a transaction MTP4, this can be done by the SET or INQUIRE facility.

Using INQUIRE facility:

First display the transactions using CEMT INQUIRE , then using the skip(or tab) Find the 'ena' field and over key it with 'dis' and press ENTER.

Using SET facility

CEMT SET TRANSACTION(MTP4) DISABLED

Or

CEMT S TRAN(MTP4) D

Changing the Status of a Resource - After

INQUIRE TRAN(M*)

STATUS : RESULTS – OVERTYPE TO MODIFY

Tra (MTP1)	Pri(255)	Pro (PROG1)	Tcl (DFHTCL00)	Ena	
Tra (MTP2)	Pri(255)	Pro (PROG2)	Tcl (DFHTCL00)	Ena	
Tra (MTP3)	Pri(255)	Pro (PROG3)	Tcl (DFHTCL00)	Ena	
Tra (MTP4)	Pri(255)	Pro (PROG4)	Tcl (DFHTCL00)	Dis	NORMAL
Tra (MTP5)	Pri(255)	Pro (PROG5)	Tcl (DFHTCL00)	Ena	
Tra (MTP6)	Pri(255)	Pro (PROG6)	Tcl (DFHTCL00)	Ena	
Tra (MTP7)	Pri(255)	Pro (PROG7)	Tcl (DFHTCL00)	Ena	
Tra (MTP8)	Pri(255)	Pro (PROG8)	Tcl (DFHTCL00)	Ena	
Tra (MTP9)	Pri(255)	Pro (PROG9)	Tcl (DFHTCL00)	Ena	
Tra (MTPA)	Pri(255)	Pro (PROGA)	Tcl (DFHTCL00)	Ena	
Tra (MTPB)	Pri(255)	Pro (PROGB)	Tcl (DFHTCL00)	Ena	
Tra (MTPC)	Pri(255)	Pro (PROGC)	Tcl (DFHTCL00)	Ena	
Tra (MTPD)	Pri(255)	Pro (PROGD)	Tcl (DFHTCL00)	Ena	
Tra (MTPE)	Pri(255)	Pro (PROGE)	Tcl (DFHTCL00)	Ena	
Tra (MTPF)	Pri(255)	Pro (PROGF)	Tcl (DFHTCL00)	Ena	
Tra (MTPG)	Pri(255)	Pro (PROGG)	Tcl (DFHTCL00)	Ena	
+ Tra (MTPH)	Pri(255)	Pro (PROGH)	Tcl (DFHTCL00)	Ena	

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-37. Changing the Status of a Resource - After

Notes :

The transaction MTP4 has been disabled.

NEW COPYing a Program - Before

```

INQUIRE PROG(MTPLA*1)
STATUS : RESULTS – OVERTYPE TO MODIFY
Prog ( MTPLAA1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAB1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAC1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAD1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAE1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAF1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAG1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
  Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
Prog ( MTPLAH1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
+   Res ( 000 ) Use ( 0000000 ) Bel Uex Ful

```

RESPONSE : NORMAL
PF 1 HELP 3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG

Figure: 5-38. Changing the Status of a Resource - Before

Notes :

The Processing Program Table (PPT) contains the disk address of each program that has been loaded since CICS start-up.

In a test environment a program will be translated, compiled and link-edited after changes have been made to the source code, in a production CICS system a bug in an application program may have to be corrected while CICS is running.

If a new version of a program is link-edited whilst CICS is running the PPT entry for the program must be updated with the new disk address.

If it is not done CICS will continue to use the old version of the program.

Using INQUIRE first display the program by CEMT | PROG and then key the word NEW alongside the entry for the program.

Using SET option you can key the following on a blank screen.

CEMT SET PROG(program-id) NEW

NEW COPYing a Program - After

```

INQUIRE PROG(MTPLA*1)
STATUS : RESULTS – OVERTYPE TO MODIFY
  Prog ( MTPLAA1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAB1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced      NORMAL
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAC1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAD1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAE1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAF1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAG1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
    Res ( 000 ) Use ( 0000000 ) Bel Uex Ful
  Prog ( MTPLAH1 ) Len ( 0000000 ) Cob Pro Ena Pri  Ced
+   Res ( 000 ) Use ( 0000000 ) Bel Uex Ful

RESPONSE : NORMAL
PF 1 HELP      3 END

SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19      DATE : 31.07.97
9 MSG

```

Figure: 5-39. Changing the Status of a Resource - After

NOTES :

The PPT entry for the MTPLAB1 program has been updated.

NEWCOPY has a disadvantage in that, if the target program is in use, that program is set to status of DISABLED. An alternative that allows multiple copies of a program to be used at any one time is PHASEIN. In full screen mode, just substitute PHA for NEW.

CEMT PERFORM Menu

PERFORM

STATUS : Enter one of the following

DELetshipped

DUmp

REConnect

RESet

SEcurity

SHUTdown

SNap

STatistics

SYSID=CE16 APPLID=PYNZ7C1

PF 1 HELP

3 END

9 MSG

Figure: 5-40. CEMT PERFORM Menu

Notes:

The main function of PERFORM is to shut down CICS, the shutdown is normal unless immediate is specified.

CEMT PERFORM SHUTDOWN

CEMT P SHUT IMM

It is also used to take CICS dumps

CEMT PERFORM SNAP

CEMT P SN

It is also used to remove a resource definition from CICS

CEMT DISCARD TRAN(MTP1)

Important Notice: Please don't try with PERFORM SHUTDOWN option until
and unless it is very much required.

CEOT Operator Transaction

STATUS : RESULTS - OVERTYPE TO MODIFY

**Ter (2BH1) Tra (CEOT) Pri (000) Pag Ins Ati Tti
Net (PGFS2BH1) Acq**

CEOT SYNTAX :

**< PAgeable | AUtopageable >
< ATi | NOAti >
< TTi | NOTti >**

**RESPONSE : NORMAL
PF 1 HELP 3 END**

**SYSID=CE16 APPLID=PYNZ7C1
TIME : 12.05.19 DATE : 31.07.97
9 MSG**

Figure: 5-41. CEOT Operator Transaction

Notes:

CEOT transaction gives useful information about a terminal and with this transaction an end user can change the status of their own terminal.

CESN Sign-on Transaction

Signon for CICS/ESA Release 4.1.0		APPLID PYNZ7C1
WELCOME TO THE MTPL EDUCATION AND TRAINING CICS SYSTEM		
Type your userid and password, then press ENTER :		
userid.....MTPLABC	Groupid.....	
Password.....		
Language.....		
New Password.....		
DFHCE3520 Please type your userid.		
F3 = Exit		

Figure: 5-42. CESN Sign-on Transaction

Notes:

This is the screen you get to sign-on to CICS.

To sign-off from CICS you have to enter CESF LOGOFF.