Installing the Natural CICS Interface

This document describes step by step how to install the Natural CICS Interface.

The following topics are covered:

- Prerequisites
- Installation Tape for the Natural CICS Interface
- Naming Conventions for the Natural CICS Interface
- Installation Procedure for the Natural CICS Interface
- Installation Verification

Before starting the installation procedure of Natural under CICS, you should have read the section concerning the system control mechanism, see System Control under CICS (section Natural under CICS in the Natural TP Monitor Interfaces documentation).

See also Natural under CICS in the Natural TP Monitor Interfaces documentation for information on the following topics:

- NCISCPCB Generation Parameters
- NCMPRM Macro Parameters
- Customization of VSAM RRDS Roll Files
- NCISCPRI Warnings and Error Messages

Prerequisites

- Base Natural must be installed under OS/390 or VSE/ESA.
- CICS/ESA or CICS/VSE must be installed.
  Version as specified under Operating/Teleprocessing Systems Required in the current Natural Release Notes.
- If you want to install the swap manager module NATSWPMG, you must have included it during installation of Natural under OS/390, where it is optional.

Installation Tape for the Natural CICS Interface

Installation Tape - OS/390 Systems

The installation tape contains the datasets listed in the table below. The sequence of the datasets is shown in the **Report of Tape Creation** which accompanies the installation tape.

Dataset Name	Contents
NCI*nnn*.LOAD	CICS-dependent load modules
NCI*nnn*.SRCE	CICS-dependent source programs and macros

The notation *nnn* in dataset names represents the version number of the product.

Copying the Tape Contents to Disk

If you are using System Maintenance Aid (SMA), refer to the SMA documentation (included on the current edition of the Natural documentation CD).

If you are **not** using SMA, follow the instructions below.

This section explains how to:

- Copy data set COPY.JOB from tape to disk.
- Modify this data set to conform with your local naming conventions.

The JCL in this data set is then used to copy all data sets from tape to disk.

If the datasets for more than one product are delivered on the tape, the dataset COPY.JOB contains the JCL to unload the datasets for all delivered products from the tape to your disk.

After that, you will have to perform the individual install procedure for each component.

Step 1 - Copy data set COPY.JOB from tape to disk

The data set COPY.JOB (label 2) contains the JCL to unload all other existing data sets from tape to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* --------------------------------
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,,DEFER),
// VOL=(,RETAIN,SER=<Tnnnnn>),
// LABEL=(2,SL)
//SYSUT2 DD DSN=<hilev>.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=<vvvvvv>,
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```


Where:

<*hilev*>	is a valid high level qualifier
<*Tnnnnn*>	is the tape number
<*vvvvvv*>	is the desired volser

Step 2 - Modify COPYTAPE.JOB

Modify the COPYTAPE.JOB to conform with your local naming conventions and set the disk space parameters before submitting this job:

- Set HILEV to a valid high level qualifier.
- Set LOCATION to a storage location.
- Set EXPDT to a valid expiration date.

Step 3 - Submit COPY.JOB

Submit COPY.JOB to unload all other data sets from the tape to your disk.

Installation Tape - VSE/ESA Systems

The installation tape contains the dataset listed below. The sequence of the datasets on tape is shown in the **Report of Tape Creation** which accompanies the installation tape.

Dataset Name	Contents
NCI*nnn*.LIBR	Natural/CICS installation libraries

The notation *nnn* in dataset names represents the version number of the product.

Copying the Tape Contents to Disk

If you are using System Maintenance Aid (SMA), refer to the SMA documentation (included on the current edition of the Natural documentation CD).

If you are **not** using SMA, follow the instructions below.

This section explains how to:

- Copy data set COPYTAPE.JOB from tape to library.
- Modify this member to conform with your local naming conventions.

The JCL in this member is then used to copy all data sets from tape to disk.

If the datasets for more than one product are delivered on the tape, the member COPYTAPE.JOB contains the JCL to unload the datasets for all delivered products from the tape to your disk, except the datasets that you can directly install from tape, for example, Natural INPL objects.

After that, you will have to perform the individual install procedure for each component.

Step 1 - Copy data set COPYTAPE.JOB from tape to disk

The data set COPYTAPE.JOB (file 5) contains the JCL to unload all other existing data sets from tape to disk. To unload COPYTAPE.JOB, use the following sample JCL:


```
* $$ JOB JNM=LIBRCAT,CLASS=0,                                          +
* $$ DISP=D,LDEST=(*,UID),SYSID=1
* $$ LST CLASS=A,DISP=D
// JOB LIBRCAT
* ***************************************
*     CATALOG COPYTAPE.JOB TO LIBRARY
* ***************************************
// ASSGN SYS004,NNN                              <------  tape address
// MTC REW,SYS004
// MTC FSF,SYS004,4
ASSGN SYSIPT,SYS004
// TLBL IJSYSIN,'COPYTAPE.JOB'
// EXEC LIBR,PARM='MSHP; ACC S=lib.sublib'       <------- for catalog
/*
// MTC REW,SYS004
ASSGN SYSIPT,FEC
/*
/&
* $$ EOJ
```

Where:

NNN	is the tape address
lib.sublib	is the library and sublibrary of the catalog

Step 2 - Modify COPYTAPE.JOB

Modify COPYTAPE.JOB to conform with your local naming conventions and set the disk space parameters before submitting this job:

Step 3 - Submit COPYTAPE.JOB

Submit COPYTAPE.JOB to unload all other data sets from the tape to your disk.

Naming Conventions for the Natural CICS Interface

The following naming conventions apply for Natural under CICS:

ncip	A common system prefix of 1 to 5 characters; for example, NCI41. This prefix is determined by the value of the parameter PREFIX in the Natural/CICS parameter module; see also Step 3 of the Installation Procedure described below. It is followed by specific characters to make up the names of the following objects:
***ncip*CB**	Natural/CICS system directory; for example, NCI41CB.
***ncip*R1 to *ncip*R9**	Natural/CICS VSAM RRDS roll files (optional).
***ncip*XFA**	Natural/CICS 3270 Bridge XFAINTU exit.

Installation Procedure for the Natural CICS Interface

This section describes the actual installation steps.

When link-editing the Natural nucleus or its subcomponents, you may receive IEW2646I or IEW2660W messages, which can be ignored.

Step 1: Allocate the VSAM RRDS Roll Files for Natural (optional)

(Job I008, Step 2200)

This step must only be performed if VSAM roll files are used as CICS roll facility.

For optimum performance, which means without CI/CA splits, the Natural CICS Interface uses VSAM RRDS files for roll files.

Step 2: Assemble and Pre-Link the Roll-File Initialization Module (optional)

(Job I070, Step 2205)

This step must only be performed if VSAM roll files are used as roll facility.

This step creates an executable batch module which is used in Step 12.

Assemble and link/catalog the module NCISCPRI for initializing a roll-file.

Step 3: Create the Natural/CICS Parameter Module

(Job I070, Steps 2220, 2225)

The Natural/CICS parameter module NCIPARM contains a macro NCMPRM, which contains parameters specific to the Natural CICS Interface.

You can generally use the default values for all parameters. Modify only the values of those parameters whose default values do not suit your requirements. The only mandatory parameter without a default value is the common Natural/CICS prefix.

To simplify the Natural/CICS parameter module installation process, the source module NCIPARM contains the NCMPRM macro request with parameter PREFIX=&SYSPARM. Thus, when generating a Natural/CICS parameter module, assemble the NCIPARM source module with assembler option SYSPARM=*prefix* rather than editing the source module.

The individual parameters are described in the section NCMPRM Macro Parameters (in the Natural TP Monitor Interfaces documentation).

Edit, assemble and link/catalog the Natural/CICS parameter module NCIPARM.

Step 4: Assemble the Natural CICS Interface Module

(Job I070, Step 2230)

Preprocess, assemble and link/catalog the Natural CICS Interface module NCISTART.

Keep in mind that with each installation of a new CICS release, the NCISTART module must be reassembled and linked.

Notes:

- If you are not using the most recent CICS version, the pre-compile step may result in a non-zero return code because of CICS commands being used that are unknown to your preprocessor.
- When linking NCISTART, the following modules receive an IEW0461/IEW2454W error message: NCIPARM, DFHEAI0 and DFHEI1. This is normal and is resolved in the final link-edit.

Step 5: Create the System Directory

(Job I070, Steps 2245, 2250)

The Natural CICS Interface system directory is generated by assembling and linking the source module NCISCPCB.

For OS/390, you find a basic example source in dataset NAT*nnn*.JOBS and a comprehensive example source in dataset NCI*nnn*.SRCE.

For VSE/ESA, you find a basic example source in sublibrary NAT*nnn*J and a comprehensive example source in sublibrary NCI*nnn*.

For a description of the individual macros and parameters contained in NCISCPCB, refer to NCISCPCB Generation Parameters (in the Natural TP Monitor Interfaces documentation).

Edit, assemble and link/catalog module NCISCPCB.

Step 6: Assemble the Natural/CICS External CALLNAT Interface Module (optional)

(Job I070, Step 2270)

This step must only be performed if you want to use the Natural/CICS external CALLNAT interface.

Assemble the Natural/CICS external CALLNAT interface module NCIXCALL.

If you have an NCIXCALL module from Natural Version 3.1 or 2.3, enter a new name for this old NCIXCALL in the SYSPARM parameter, for example NCIXCI23. In Job I080, Step 2270, the old NCIXCALL must be relinked with the name you have specified here.

Keep in mind that with each installation of a new CICS release, the NCIXCALL module must be reassembled and linked.

Notes:

- If you are not using the most recent CICS version, the pre-compile step may result in a non-zero return code because of CICS commands being used that are unknown to your preprocessor.
- When linking NCISTART, the following modules receive an IEW0461/IEW2454W error message: NCIPARM, DFHEAI0 and DFHEI1. This is normal and is resolved in the final link-edit.

Step 7: Assemble the Natural/CICS NEP Interface Module (optional)

(Job I070, Step 2275)

This step must only be performed if you want to use the Natural/CICS node error program (NEP).

Assemble the Natural CICS Interface module NCIZNEP.

Keep in mind that with each installation of a new CICS release, the NCIZNEP module must be reassembled and linked.

Notes:

- If you are not using the most recent CICS version, the pre-compile step may result in a non-zero return code because of CICS commands being used that are unknown to your preprocessor.
- When linking NCISTART, the following modules receive an IEW0461/IEW2454W error message: NCIPARM, DFHEAI0 and DFHEI1. This is normal and is resolved in the final link-edit.

Step 8: Assemble the Natural CICS Interface XFAINTU Exit (optional)

(Job I070, 2280)

This step must be performed only if you want to use Natural via the CICS 3270 Bridge.

Assemble the Natural CICS Interface module NCIXFATU.

Keep in mind that with each installation of a new CICS release, the NCIXFATU module must be reassembled and linked.

Notes:

- If you are not using the most recent CICS version, the pre-compile step may result in a non-zero return code because of CICS commands being used that are unknown to your preprocessor.
- When linking NCISTART, the following modules receive an IEW0461/IEW2454W error message: NCIPARM, DFHEAI0 and DFHEI1. This is normal and is resolved in the final link-edit.

Step 9: Create the Natural Parameter Module

(Job I080, Steps 2210, 2220)

Create the Natural parameter module for CICS.

The following parameters in the parameter module must be modified for the installation:

`FNAT=(`*`dbid`*`,`*`fnat`*`)`
`FUSER=(`*`dbid`*`,`*`fuser`*`)`

For *dbid*, *fnat* and *fuser* use the values you specified when loading the system files; see Installation Procedure for Natural under OS/390 or Installation Procedure for Natural under VSE/ESA.

For all other parameters, you can generally use the default values. Modify only the values of those parameters whose default values do not suit your requirements.

For a description of the individual parameters contained in the parameter module, refer to the Natural Parameter Reference documentation.

Edit, assemble and link/catalog the parameter module.

Step 10: Link the Natural/CICS Nucleus

(Job I080, Step 2230)

Link the executable Natural/CICS nucleus *ncistart* into your CICS user library.

Adapt the INCLUDE instruction for the parameter module to the name of the parameter module created in the previous step.

If you want to install the swap manager module NATSWPMG, you must have included it during installation of Natural under OS/390, where it is optional.

Non-Shared Nucleus:
The following paragraph only applies if you are not using System Maintenance Aid.

If you do not wish to use a shared Natural nucleus under CICS:

Merge all INCLUDE instructions and corresponding DD cards from Job I060, Step 0105 (shared nucleus) into Job I080, Step 2230 (front-end).

Step 11: Link the Natural System Directory

(Job I080, Step 2250)

Link the Natural system directory into your CICS user library with module name *ncip*CB (see Naming Conventions for the Natural CICS Interface).

The Natural system directory must be linked with option NORENT in OS/390.

Step 12: Link the Roll-File Initialization Module (optional)

(Job I080, Step 2265)

This step must only be performed if VSAM roll files are used as CICS roll facility.

Link the VSAM roll file initialization module into your CICS user library.

Platform:	Requirement:
OS/390	This link step has already been performed in Step 2 (job I070, step 2205).

Step 13: Link the Natural/CICS External CALLNAT Interface Module (optional)

(Job I080, Steps 2270, 2271)

This step must only be performed if you want to use the Natural/CICS external CALLNAT interface.

Link the Natural/CICS external CALLNAT interface module NCIXCALL.

Step 2270 is needed if NCIXCALL has been installed in the same CICS with Natural Version 2.3.
The Natural Version 2.3 NCIXCALL must then be relinked with a new name, for example NCIXCI23 (see Step 6). This way, you can preserve the old Version 2.3 name "NCIXCALL" for Version 4.1, which avoids that you have to relink all your programs using NCIXCALL.

Step 2271 links the module NCIXCALL for Version 2.3.

Step 14: Link the Natural/CICS NEP Interface Module (optional)

(Job I080, Step 2275)

This step must only be performed if you want to use the Natural/CICS node error program (See also CICS Node Error Program Considerations for Natural in the Natural CICS Interface documentation).

Link the Natural CICS Interface module NCIZNEP.

Step 15: Link the Natural/CICS XFAINTU Exit (optional)

(Job I080, Step 2280)

This step must be performed only if you want to use Natural via the CICS 3270 Bridge (See also CICS 3270 Bridge Support in the Natural CICS Interface documentation).

Link the CICS Interface module NCIXFATU under the name *ncip*XFA (see Naming Conventions for the Natural CICS Interface).

Step 16: Initialize the VSAM Roll Files (optional)

(Job I081, Step 2200)

This step must only be performed if VSAM roll files are used as CICS roll facility.

Initialize the VSAM roll files.

This step must be repeated for all roll files used if roll-files are the primary roll-facility.

As a direct (random) access type file, a VSAM RRDS file has to be formatted.

For the Natural/CICS VSAM roll files, formatting is done by the NCISCPRI program. To execute the NCISCPRI program, the Natural roll file to be initialized has to be assigned with file name ROLL in the JCL DD (OS/390) or DLBL (VSE/ESA) statement respectively. No other parameter input is required for NCISCPRI; all data required for file initialization is obtained by SHOWCB VSAM macro calls.

When running Natural/CICS under VSE/ESA-type operating systems:
An end-of-data (/*) statement must be supplied in the JCL stream for compatibility reasons, although no parameter input is required by the NCISCPRI utility.

For a description of the messages that may be output during this step, refer to NCISCPRI Warnings and Error Messages (in the Natural TP Monitor Interfaces documentation).

Step 17: Customize CICS

(Job I005)

Create CICS RDO entries for CICS.

Note:
It is generally recommended to put all Natural version-dependent components such as programs, transactions and files in a separate resource group, in the following denoted as "natgroup".

Add the following definitions to your CICS system:

a) Program Definitions

- A program definition for the executable Natural module (*ncistart* being the name of the Natural/CICS nucleus as specified in Step 10):

```
DEFINE PROGRAM (ncistart) GROUP (natgroup) LANGUAGE(ASSEMBLER)                  *
  DESCRIPTION (NATURAL/CICS V41 DRIVER COMPONENT)
```

Platform:	Requirement:
CICS 4.1 or above	The following parameter value can and should be set in the CICS program definition: DATALOCATION(ANY)

- A program definition for the Natural/CICS system directory (mandatory):

```
DEFINE PROGRAM (ncipCB) GROUP (natgroup) LANGUAGE(ASSEMBLER)                  *
  DESCRIPTION (NATURAL/CICS V41 SYSTEM DIRECTORY)
```

- A program definition for the shared Natural nucleus (optional):

```
DEFINE PROGRAM (natshr41) GROUP (natgroup) LANGUAGE(ASSEMBLER)                *  DESCRIPTION (NATURAL V41 SHARED NUCLEUS)
```

  (*natshr41* being the name of the environment-independent nucleus part - see also Natural Shared Nucleus (in the Natural Operations for Mainframes documentation) - as specified with the NUCNAME session parameter. The default name is NATSHR41.)
  Note that specifications of EXECKEY or DATALOCATION for the shared Natural nucleus are irrelevant, as the shared Natural nucleus "inherits" all attributes from the executable Natural module (see NCISTART above) because it is involved by BALR and not by CICS means.

- To access a shared Natural nucleus in the LPA/ELPA under OS/390:

  Specify USELPACOPY(YES) for this program definition.

- To access a shared Natural nucleus in the SVA under VSE/ESA with CICS Version 4.1 and above:

  Specify USESVACOPY(YES) for this program definition.

- A program definition for the 3GL CALLNAT interface (optional):

```
DEFINE PROGRAM (ncixcall) GROUP (natgroup) LANGUAGE(ASSEMBLER)                *
  DESCRIPTION (NATURAL/CICS V41 EXTERNAL CALLNAT INTERFACE)
```

Platform:	Requirement:
CICS 4.1 or above	The following parameter value can and should be set in the CICS program definition: DATALOCATION(ANY)

- A program definition for the node error program (optional):

```
DEFINE PROGRAM (nciznep) GROUP(natgroup) LANGUAGE(ASSEMBLER)                  *
  EXECKEY(CICS) DESCRIPTION (NATURAL/CICS V41 NODE ERROR PROGRAM)
```

- A program definition for the XFAINTU global user exit (optional):

```
DEFINE PROGRAM (ncipXFA) GROUP (natgroup) LANGUAGE(ASSEMBLER)                 *
  EXECKEY(CICS) DESCRIPTION (NATURAL/CICS XFAINTU GLUE)
```

Important Note for CICS Version 4.1 and above:
Programs being involved by BALR, for example, shared Natural nucleaus, Adabas linkage interface or external programs called by Natural using standard linkage conventions (SET CONTROL ’P=S’), "inherit" the program attributes (for example, EXECKEY or DATALOCATION) from the Natural module available (see NCISTART above).

b) Transaction Definitions

It is recommended to define or choose a CICS profile for the Natural transactions with the following:

```
DEFINE PROFILE (natprof) GROUP (natgroup) SCRNSIZE (ALTERNATE) INBFMH (ALL)
```

- A transaction definition for the Natural transaction:

```
DEFINE TRANSACTION (ncitransact) GROUP (natgroup)                    *
  PROGRAM (ncistart) TWASIZE(128) DUMP(NO)                             *  PROFILE (natprof)
```

  (*ncitransact* being the name of the Natural/CICS user transaction code and
  ncistart being the name of the Natural/CICS nucleus as specified in Step 10.)

- A transaction definition for the Natural internal message switching transaction:

```
DEFINE TRANSACTION (nmsg) GROUP (natgroup)                           *
  PROGRAM (ncistart) TWASIZE(128) DUMP(NO)                           *  PROFILE (natprof)
```

  (*ncistart* being the name of the Natural/CICS nucleus as specified in Step 10) and
  nmsg being the name of the Natural/CICS message switching transaction code as defined in the MSGTRAN parameter, in the section
  Parameters in Macro NCMPRM (in the Natural TP Monitor Interfaces documentation). The default name is NMSG.

- The Natural message switching facility requires this transaction to be defined in CICS.

Platform:	**Requirement:**
CICS 4.1 or above	The following parameter values can and should be set in the CICS transaction definitions for Natural: TASKDATALOC(ANY) Setting TASKDATALOC(ANY) may have impact on non-Natural programs called by Natural, see the CICS Manual for details.
CICS 4.1 or above	The following parameter value can be set in the CICS transaction definition: ISOLATE(YES)

  For the impact of transaction isolation, see also THRDSZE - Thread Size (in the TP Monitor Interface documentation, section Natural under CICS).

c) File Definitions

- One entry in the FCT for each Natural CICS Interface VSAM roll file (only if VSAM roll files are to be used):

```
DFHFCT TYPE=FILE,                      *
       FILE=ncipR1,                    *
       ACCMETH=VSAM,                   *
       RECFORM=(FIXED,BLOCKED),        *
       SERVREQ=(UPDATE,DELETE,ADD),    *
       FILSTAT=(ENABLED,OPENED),       *
       BUFND=5,STRNO=3
```

  and correspondingly for all other roll files.
  Local shared resources (LSR) should be used whenever possible. If multiple LSR pools are supported, one pool should be dedicated exclusively to Natural CICS roll files.

d) Transient Data Destinations

- Two or (alternatively) three entries in the DCT for the Natural remote job entry facility NATRJE (OS/390 only):
  When submitting a job to JES with the following *two* entries, the internal reader is started on CLOSE of the destination:

```
DFHDCT TYPE=SDSCI,DSCNAME=NATRJE,TYPEFLE=OUTPUT
DFHDCT TYPE=EXTRA,DSCNAME=NATRJE,DESTID=nrje,OPEN=DEFERRED
```

  (*nrje* being the name of the Natural CICS submit destination as defined in the RJEDEST parameter, see the section NCMPRM Macro Parameters (in the Natural TP Monitor Interfaces documentation). The default name is NRJE.)

- Additionally, the following DD statement is required in the CICS startup JCL:

```
//NATRJE DD SYSOUT=(*,INTRDR),DCB=(RECFM=F,LRECL=80,BLKSIZE=80)
```

  When submitting a job to JES with the following *three* entries, the Natural CICS Interface deals with an indirect destination that will not be closed:

```
DFHDCT TYPE=SDSCI,DSCNAME=NATRJE,TYPEFLE=OUTPUT
DFHDCT TYPE=EXTRA,DSCNAME=NATRJE,DESTID=name,OPEN=INITIAL
DFHDCT TYPE=INDIRECT,DESTID=nrje,INDDEST=name
```

  (*nrje* being the name of the Natural CICS submit destination as defined in the RJEDEST parameter, see the section NCMPRM Macro Parameters (in the Natural TP Monitor Interfaces documentation). The default name is NRJE.
  (*name* being the name of the corresponding indirect destination.)
  It is the user's responsibility to either add an "/*EOF" card as the very last card in the job stream or use the corresponding NATRJE exit. When detecting the "/*EOF" card, JES submits the previous job stream.

- Optionally, you can add entries in the DCT for the Natural CICS error message logging facility. For Natural error messages, you can use:

A destination that is already defined in CICS (for example, CSSL); then no extra DCT entry is required.

An extra partition destination as a synonym for an existing CICS message destination:
DFHDCT TYPE=INDIRECT,DESTID=*nerr*,INDDEST=*name*

- An extra file:

```
DFHDCT TYPE=SDSCI,              *
       DSCNAME=NATMSG,          *
       RECFORM=VARUNB,          *
       RECSIZE=nnn,             *
       TYPEFLE=OUTPUT

DFHDCT TYPE=EXTRA,              *
       DSCNAME=NATMSG,          *
       DESTID=nerr,             *
       OPEN=INITIAL
```

  (*nerr* being the name of the Natural CICS error message destination as defined in the MSGDEST parameter, in the section NCMPRM Macro Parameters (in the Natural TP Monitor Interfaces documentation). The default name is NERR.
  You can change the RECFORM format from VARUNB (variable unblocked) to VARBLK (variable blocked), for example.
  Natural and the Natural CICS interface messages have a length of up to 120 bytes. Therefore, the record size (RECSIZE) *nnn* should be at least 124 bytes for variable record format or 120 bytes for fixed record format.
  When using a disk file:
  Sufficient disk space must be reserved for this dataset; under OS/390, a DD statement, or, under VSE/ESA, a

DLBL statement must be added to the CICS startup JCL.

- Optionally, you can add two entries in the DCT for the Natural CICS session statistics:

```
DFHDCT TYPE=SDSCI,              *
       DSCNAME=NATLOG,          *
       RECFORM=VARBLK,          *
       BLKSIZE=4628,            *
       RECSIZE=4624,            *
       DEVICE=DISK (parameter valid for VSE/ESA only)

DFHDCT TYPE=EXTRA,              *
       TYPEFLE=OUTPUT,          *
       DSCNAME=NATLOG,          *
       DESTID=nlog,             *
       OPEN=INITIAL
```

(*nlog* being the name of the Natural CICS logging destination as defined in the parameter LOGDEST (in the Natural TP Monitor Interfaces documentation). The default name is NLOG.) Sufficient disk space must be reserved for this dataset; under OS/390, a DD statement, or, under VSE/ESA, a DLBL statement must be added to the CICS startup JCL.

e) Other Definitions

OS/390 or z/OS only:

Add the following system abend codes to a CICS System Recovery Table (SRT):

0D6	To protect CICS against failing Roll Server and/or Authorized Services Manager requests (via PC instructions) by Natural.
01D	To protect CICS against failing data space cache requests by Natural.
DC2	To protect CICS against failing memory object cache requests by Natural.

Installation Verification

1. Enter CICS from a user’s terminal and type in the Natural transaction code.
2. Proceed with the steps described in the section Installation Verification for TP Monitor Interface.

