

## Updating VTAM/NCP Source and reloading Procedures

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### **Reloading new NCP modules:**

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The three basic SNA host S/390 communication products are - **SSP, NCP** and **VTAM**. The System Support Program, or SSP, is a utility that allows you to generate the NCP definition facility (NDF). In addition, SSP loads the NCP load modules that are needed in the communications controller. The SSP performs this function in two ways. You can use the loader utility provided by SSP, or you a loader facility provided by an access method.

#### **Activate new NCP via VTAM:**

Vary old NCP major node inactive:

**V NET,ID=oldmod,INACT,I** *Production System*

Vary old NCP major node inactive:

**V NET,ID=oldmod,INACT,I** *Test System*

Vary new NCP, with a LOAD option, Active

**V NET,ID=newmod,LOAD=YES** *Production system*

**IST270I LOAD OF newmod COMPLETE - LOAD MODULE = newmod**  
**IST464I LINK STATION 520-S HAS CONTACTED newmod SA 62**  
**IST093I newmod ACTIVE**

Vary the test system NCP active using productions NCP module:

**V NET,ID=newmod,ACT** *Test System*

**IST093I M01 ACTIVE**

*Test System*

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### **Generating new NCP modules:**

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1. Edit 'SYS3.VTAMLST(mod)' - For major changes increment number.
2. Generate NCP using the *SSP utility* - 'SYS3.NCP.CNTL(GENNCP2)'. Change the source member name, in the JCL, before submitting job. The NCP generating job will create a new dataset with expanded source statements for NTRI, token-ring definitions, called '-SYS3.VTAMLST.NEWDEFN'. Delete any previous dataset before running job.
3. Copy the new VTAM/NCP source definitions, from file 'SYS3.VTAMLST.NEWDEFN', to VTAM member '**newmod**'.
4. You may now reload the 3745 FEP with the new generated NCP module. Also, change the VTAM startup member **ATCCON01/2** with the new VTAM member name '**newmod**'

## NCP Generation JCL

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//NCPGEN JOB (010000,0025),'NCP GEN WITH SSP 4.6',CLASS=S,
// NOTIFY=XYZ,MSGCLASS=X,REGION=6M,TIME=1440
//* TYPRUN=HOLD
//*
//NDF EXEC PGM=ICNRTNDF
//STEPLIB DD DSN=NCPT.V4R6.SSPLIB,DISP=SHR
//*YSPRINT DD SYSOUT=* REPORT FILE
//SYSPRINT DD DSN=SYS3.VTAM.NCPLIST(+1),DISP=(,CATLG,DELETE),
// UNIT=SYSDA,SPACE=(TRK,(6,2)),VOL=SER=SYS002,
// DCB=MODEL.DSCB
//PRINTER DD SYSOUT=* SUMMARY FILE
//*
//***** NCP SOURCE NUMBER *****
//*
//GENDECK DD DSN=SYS3.VTAMLST(newmod),DISP=SHR
//*****
//SYSLIB DD DSN=NCPT.V7R6.SNCPMAC1,DISP=SHR NCP MACRO LIB V7R6
//**
//***** NEWDEFN=YES FOR SOURCE GENERATION
//NEWDEFN DD DSN=SYS3.VTAMLST.NEWDEFN,DISP=(,CATLG,DELETE),
//* UNIT=SYSDA,SPACE=(TRK,(4,2)),
// UNIT=SYSDA,SPACE=(TRK,(4,2)),VOL=SER=SYS002,
// DCB=BLKSIZE=3200
//DBWORKFL DD DSN=&&WORKF,DISP=(,DELETE), NDF'S WORK DATA
// SPACE=(CYL,(2,1))
//**
//***** TABLE 1 (SOURCE, LISTINGS & OBJECTS)
//TBL1SRCE DD DSN=&&SRCE1,DISP=(,DELETE),UNIT=SYSDA,
// SPACE=(CYL,(3,1)),DCB=BLKSIZE=3200
//TBL1LIST DD DSN=&&TBL1LIST,DISP=(NEW,PASS), ASM LIST (TABLE-1)
// SPACE=(CYL,(80,20)),UNIT=SYSDA
//TBL1OBJ DD DSN=SYS3.NCP.OBJ(ICNTABL1),DISP=OLD
//*BL1LIST DD DSN=XYZ.NCP.TBL1LIST,DISP=(,CATLG,DELETE),
//* VOL=SER=TSO001,
//* SPACE=(CYL,(25,5)),UNIT=SYSDA,
//* DCB=BLKSIZE=3630
//*BL1OBJ DD DSN=SYS3.NCP.OBJ1(ICNTABL1),DISP=(,CATLG,DELETE),
//* UNIT=SYSDA,VOL=SER=KLSYS1,
//* SPACE=(CYL,(1,1,1)),DCB=BLKSIZE=3200
//**
//***** TABLE 2 (SOURCE, LISTINGS & OBJECTS)
//TBL2SRCE DD DSN=&&SRCE2,DISP=(,DELETE),UNIT=SYSDA,
// SPACE=(CYL,(15,10)),DCB=BLKSIZE=3200
//TBL2LIST DD DSN=&&TBL2LIST,UNIT=SYSDA,DISP=(NEW,PASS),
// SPACE=(CYL,(15,5))
//TBL2OBJ DD DSN=SYS3.NCP.OBJ(ICNTABL2),DISP=OLD
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(20,10)),DISP=(,DELETE)
//LNKSTMT DD DSN=&&LNKFL,DISP=(,PASS), LINK EDIT STATEMENTS
// UNIT=SYSDA,SPACE=(CYL,(2,1)),
// DCB=(BLKSIZE=3200)
//*
//* *****
//* RUN THE LINK EDIT AS LONG AS NO ERROR OCCURRED DURING NDF
//* *****
//LINK EXEC PGM=HEWL,COND=(0,LT),
// PARM='LIST,NCAL,MAP,LET,SIZE=(7800K,512K)' 3745
//* PARM='LIST,NCAL,MAP,ALIGN2,LET,SIZE=(7800K,512K)' 3720
//* *****
//* THE FILE OF LINK EDIT CONTROL STATEMENTS PASSED FROM STEP 1
//SYSLIN DD DSN=*.NDF.LNKSTMT,VOL=REF=*.NDF.LNKSTMT,
// DISP=(OLD,DELETE)
//* THE LIBRARY OF TABLE OBJECTS PASSED FROM STEP 1
//SYSPUNCH DD DSN=SYS3.NCP.OBJ,DISP=SHR
//ANCPMOD1 DD DSN=NCPT.V7R6.ANCPMOD1, PREASSEMBLED OBJ V7R6
// DISP=SHR
//SYSLMOD DD DSN=NCPT.LOAD,DISP=SHR NCP LOAD MODULES
//*YSLMOD DD DUMMY ** TESTING ONLY **
//SYSUT1 DD UNIT=SYSDA,SPACE=(2048,(800,100)) LINK EDIT WORK
//SYSPRINT DD SYSOUT=*
/*
```