

1

Configuration Management

Configuration management strategy

Configuration of the SPM is controlled by entities called data schema tables. Individual tuples in the data schema tables allow for a variety of features and applications to be provisioned. This strategy is used for provisioning of circuit packs, lines, and trunks.

Tools and utilities

Data Schema

Data schema tables are accessed using the MAP display commands.

2 Configuration Management



3

Configuration management procedures

Provisioning a DLC RM

At the MAP level

1

lf	Do
there are no DLCs provisioned	Procedure 2
there are two DLCs provisioned	It is not necessary to perform this procedure. Only 2 DLC RMs are required for the PRI application. Go to Procedure 59.

2 To add a DLC protection group, access table MNPRTGRP by typing

>TABLE MNPRTGRP

and pressing the Enter key.

3 Begin the table addition by typing

>ADD

and pressing the Enter key.

4 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table PMLOADS.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

GRPKEY:

>SPM 0 DLC_GRP 1

```
SELECTOR:
        >DLC_GRP
        SWCHMODE:
        >NRVTV
        ALRMCTRL:
        >NOSPARE MJ RPT
        >
        TUPLE TO BE ADDED:
        SPM 0 DLC_GRP 1 DLC_GRP NRVTV (NOSPARE MJ
        RPT)$
        ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
        >Y
        TUPLE ADDED
5
     Exit table MNPRTGRP by typing
     >QUIT
     and pressing the Enter key.
6
     Access table MNNODE by typing
     >TABLE MNNODE
     and pressing the Enter key.
7
     Position on the tuple for the SPM being modified by typing
     >POS SPM <spm_no>
     and pressing the Enter key.
     where
        spm_no
          is the SPM number (0 to 63)
     Example
     >POS SPM 0
```

Example of MAP display

NODEKEY	ALIAS	NODEINFO
SPM O	SPM_0_0D	DMSCP 0 SYNC INTERNAL 15 (COT 60) (DTMF 60) (ECAN 60) (TONESYN 60) (MF 60) \$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (SYSBNA CR RPT) (MANBNA MJ RPT) (COTLOW MN RPT) (DTMFLOW MN RPT) (ECANLOW MN RPT) (TONESLOW MN RPT) (MFLOW MN RPT) (CMRLOW MN RPT) \$ (PRAB SPM250) \$

8 Ensure the proper EXECs are datafilled for Table MNNODE.

Valid EXECs for offices

Office type	Valid EXEC
DMS100/200	PRAB SPMEX
DMS250	PRAB SPM250
DMS500	PRAB SPMEX

9

If the EXECs	Do
are datafilled properly	Procedure 25
not datafilled properly	Procedure 10

- **10** Change the tuple to the proper EXEC for the office by performing the following the following steps.
 - **a** Begin the table change by typing

>CHA

and pressing the enter key.

b For each unchanged prompt, press the Enter key. The only value entered in this step should be the new value.

Example

This example changes the EXEC from (PRAB SPM250) to (PRAB SPMEX)

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y ALIAS: SPM_0_0D > CLASS: DMSCP > FLOOR: 1 > CLKMODE: SYNC > CLKREF: INTERNAL > LEDTIMER: 15 > RSRUTLIM: COT 60 > RSRUTLIM: DTMF 60 > RSRUTLIM: ECAN 60 > RSRUTLIM: TONESYN 60 > RSRUTLIM: MF 60 > RSRUTLIM: > ALRMCTRL: SYSB CR RPT > ALRMCTRL: MANB MJ RPT > ALRMCTRL: ISTB MN RPT > ALRMCTRL: SYSBNA CR RPT

> ALRMCTRL: MANBNA MJ RPT > ALRMCTRL: COTLOW MN RPT > ALRMCTRL: DTMFLOW MN RPT > ALRMCTRL: ECANLOW MN RPT > ALRMCTRL: TONESLOW MN RPT > ALRMCTRL: MFLOW MN RPT > ALRMCTRL: CMRLOW MN RPT > EXECTAB: (PRAB SPM250) >PRAB SPMEX

EXECTAB:

\$

Perform the following steps to activate the changes to EXECTAB in SPM 0:

1: MANBSY the CEM if it's not already MANBSY.

- 2: RTS the inactive CEM.
- 3. Perform an SPM SWACT
- 4. MANBSY the new inactive CEM
- 5. RTS the new inactive CEM.

TUPLE TO BE CHANGED:

SPM 0 SPM0_00D DMSCP 0 SYNC INTERNAL 15 (COT 60) (DTMF 60) (ECAN 60) (TONESYN 60) (MF 60) \$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT)(SYSBNA CR RPT) (MANBNA MJ RPT)(COTLOW MN RPT) (DTMFLOW MN RPT) (ECANLOW MN RPT) (TONESLOW MN RPT)

7

\$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE CHANGED The following steps will activate the static data that was modified in Procedure 10. Exit the table by typing

(MFLOW MN RPT) (CMRLOW MN RPT) (PRAB SPMEX)

>QUIT

11

12

and pressing the Enter key.

13 Post the SPM being modfied by typing

>POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the number of the SPM being modified (0 to 63)

Example of MAP display

 SPM
 #
 InSv
 Class: DMSCP

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A

14 Select the inactive CEM by typing

>SELECT <inactive_cem>

and pressing the Enter key.

where

inactive_cem

is the number of the inactive CEM

15 Busy the inactive CEM by typing

>BSY

and pressing the Enter key.

16 Return the inactive CEM to service by typingRTS

and pressing the Enter key.

17 Access the PROT level of the MAP by typing >PROT

and pressing the Enter key.

Example of MAP display

SPM # InSv Prot Grp: CEM Mode: N/A Schema: N/A ShO U R A Stat ShO U R A Stat ShI U R A Stat ShI U R A Stat 10 -- - - ----3 -- - - ----3 -- - - ----10 -- - - ----4 -- - - ---- 11 -- - - ----4 -- - - ---- 11 -- - - ----6 -- - - ---- 13 -- - - ----6 -- - - ---- 13 -- - ----7 0 W A InSv 14 -- - - ----7 -- - - ---- 14 -- - - ----

18 Perform a protection switch on the CEMs by typing

>MANUAL

and pressing the Enter key.

19 Exit the protection level by typing

>QUIT

and pressing the Enter key.

20 Select the previously active CEM by typing

>SELECT <inactive_cem>

and pressing the Enter key.

where

inactive_cem

is the number of the previously active CEM

21 Busy the CEM by typing

>BSY

and pressing the Enter key.

22 Return the CEM to service by typing >RTS

and pressing the Enter key.

23 Access the PROT level of the MAP by typing >PROT

and pressing the Enter key.

Example of MAP display

SPM # InSv			
Prot Grp: CEM	Mode: N/A	Sche	ema: N/A
ShO U R A Stat	ShO U R A Stat	Sh1 U R A Stat	Sh1 U R A Stat
1	8 1 S A InSv	1	8
2	9	2	9
3	10	3	10
4	11	4	11
5	12	5	12
6	13	6	13
7 0 W I InSv	14	7	14

24 Perform a protection switch by typing

>MANUAL

and pressing the Enter key.

25 Return to the CI level of the MAP by typing

>QUIT ALL

and pressing the Enter key.

26 Access table MNCKTPAK by typing

>TABLE MNCKTPAK

and pressing the Enter key.

27 Begin the table addition by typing

>ADD

and pressing the Enter key.

28 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

```
>ADD
```

CPKKEY:

>SPM 0 1 1

CPKTYPE: >DLC UNITNO: >0

DLCGRPID:

>1

WKRSPR:

>WORKING

ALRMCTRL:

>SYSB CR RPT

ALRMCTRL:

>MANB MJ RPT

ALRMCTRL:

>ISTB MN RPT

ALRMCTRL:

>PROTFAIL CR RPT

ALRMCTRL:

>\$

PEC:

>NTLX72AA

RELEASE:

>01

LOAD:

>DLC16CF

TUPLE TO BE ADDED:

SPM 0 0 1 DLC 1 1 WORKING (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (PROTFAIL CR RPT) \$ NTLX72AA 01 DLC16CF

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

30 Begin the table addition by typing

>ADD

and pressing the Enter key.

31 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

>ADD CPKKEY: >SPM 0 1 7 **CPKTYPE**: >DLC UNITNO: >1 DLCGRPID: >1 WKRSPR: >SPARE ALRMCTRL: >SYSB CR RPT ALRMCTRL: >MANB MJ RPT ALRMCTRL: >ISTB MN RPT ALRMCTRL: >PROTFAIL CR RPT ALRMCTRL: >\$ PEC:

>NTLX72AA

RELEASE:

>01

LOAD:

>DLC16CF

TUPLE TO BE ADDED:

SPM 0 1 7 DLC 1 SPARE (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (PROTFAIL CR RPT) \$ NTLX72AA 01 DLC16CF

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

32 Exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

33 Access table MNPRIID by typing

>TABLE MNPRIIID

and pressing the Enter key.

34 Begin the table addition by typing

>ADD

and pressing the Enter key.

35 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNPRIIID.

```
>ADD
```

```
PRIIDKEY:

>SPM 0 1

INTID:

>1

TUPLE TO BE ADDED:

SPM 0 1 1
```

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

36 Exit table MNPRIIID by typing

>QUIT

and pressing the Enter key.

At the equipment frame

- **37** Ensure ESD precautions are utilized. Verify that ESD wrist strap is connected properly.
- **38** Remove the NTLX60AA filler packs from the appropriate slots.
- **39** Insert the NTLX72AA DLC RMs in the appropriate slots.

At the MAP level

40 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the number of the SPM being modified (0 to 63)

Example of MAP display

 SPM
 0 InSv Class: DMSCP

 Shlf0 SL A Stat
 Shlf0 SL A Stat
 Shlf1 SL A Stat
 Shlf1 SL A Stat

 DSP 0
 1 A InSv CEM 1
 8 I InSv DLC 0
 1 A Off1
 ---- 8 - ---

 ---- 2 - --- OC3 0
 9 I InSv
 ---- 2 - --- 9 - ---

 ---- 3 - --- OC3 1
 10 A InSv
 ---- 3 - --- 10 - ---

 ---- 4 - ---- 11 - --- 3 - --- 12 - --- 11 - ---

 ---- 5 - --- 12 - --- 5 - --- 12 - --- 12 - ---

 ---- 6 - ---- 13 - --- 6 - ---- 13 - ---

 CEM 0
 7 A InSv
 ----- 14 - ---- 14 - ----

 41
 Select the DLCs by typing
 >SELECT DLC ALL
 and pressing the Enter key.

42 Busy the DLCs by typing >BSY ALL

and pressing the Enter key.

Confirm the BSY command by typing
Commune Der Commune by typing
>Y
and pressing the Enter Key
and pressing the Enter key.
Lead the DLOs with their setting to her trucks
Load the DLCs with their software by typing
>LOADMOD ALL

and pressing the Enter key.

45 Confirm the LOADMOD command by typing >Y

and pressing the Enter key.

46 Perform an out-of-service test on the DLCs by typing >TST ALL

and pressing the Enter key.

47 Confirm the test by typing

>Y

43

44

and pressing the Enter key.

48 Return the DLCs to service by typing >RTS ALL

and pressing the Enter key.

49 Confirm the RTS command by typing >Y

and pressing the Enter key.

50 Perform an in-service test on the DLCs by typing >TST ALL

and pressing the Enter key.

51 Confirm the TST command by typing >Y

and pressing the Enter key.

- 52 Verify the DLCs are working properly. Monitor logs and the SPM for five minutes. If any problems arise, contact your next level of support.
- 53 Access the PROT level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

 SPM # ISTb Prot Grp: DLC_GRP 1 Mode: Non-revertive Schema: m_for_n

 sh0 U R A Stat Sh0 U R A Stat Sh1 U R A Stat Sh1 U R A Stat

 1 --- - - ---- 8 --- 1 0 W A InSv

 2 -- - - --- 9 --- 2 --- 9 -- - ---- 9

 3 -- - ---- 10 -- - ---- 3 -- - --- 10

 4 -- - - ---- 11 -- - ---- 4

 5 -- - ---- 12 --- 12

 6 -- - ---- 13 --- 13

 7 -- - --- 14 -- - --- 7

54 Determine if the spare DLC is also inactive.

Note: In the example above, DLC 1 slot 7 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DLC ("S" under the 'R' column).

55 Protection switch the active DLC with the inactive spare DLC by typing

>MANUAL <active_dlc> <spare_dlc>

and pressing the Enter key.

where

active_dlc

is the number of an active DLC

spare_dlc

is the number of the inactive spare DLC

Example

>MANUAL 0 1

56 Confirm the protection switch by typing

>Y

and pressing the Enter key.

57 Protection switch from the spare DLC back to the newly inactive DLC by typing

>MANUAL <spare_dlc> <inactive_dlc>

and pressing the Enter key.

where

spare_dlc is the number of the spare DLC

inactive dlc

is the number of the newly inactive DLC

Example

>MANUAL 1 0

58 Confirm the protection switch by typing

>Y

and pressing the Enter key.

59 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL

and pressing the Enter key.



Configuration management procedures

Provisioning a DSP RM

At the MAP level

1 Determine the Protection status of the DSPs assigned to the SPM being modified. Verify that the RMID and the ProtWhomID fields are the same number for each of the DSPs by typing

>SPMRESMAN SPM <spm_no> DSP <dsp_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

dsp_no is the DSP number (0 to 27)

Example response of SPM with no protection switched DSPs

SPM 0 ProtGroup: RMID		WhomID	ProtGrp	Safe to Change?
DSP 0 23 DSP 1 24 DSP 2 25	ACTIVE	23 24 25	1 1 1	NO NO NO
201 2 20	INACTIVE	26	1	NO

Example response of SPM with protection switched DSPs:

SPM 0 ProtGroup: 1 RMID Activity ProtWhomID ProtGrp Safe to Change?

ACTIVE	25	1	NO
ACTIVE	24	1	NO
INACTIVE	26	1	NO
ACTIVE	23	1	NO
	ACTIVE INACTIVE	ACTIVE 24 INACTIVE 26	ACTIVE 24 1 INACTIVE 26 1

Note: In the second example above, DSP 0 was protection switched with the spare DSP (DSP 3), then DSP 2 (currently inactive) was protection switched with DSP 0. To get the DSPs in the proper state, first protection switch DSP 0 with DSP 2 and then protection switch DSP 3 with DSP 0.

2 Post the SPM by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no
is the SPM number (0 to 63)

Example of MAP display

 SPM
 0 InSv Loc: Site HOST Floor
 1 Row AA FrPos
 0

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A Stat
 S

Note: In this example DSP 3 in slot 12 of shelf 1 is the spare DSP and Inactive (I).

3 Select a DSP assigned to the SPM being modified by typing

>SELECT DSP <dsp_no>

and pressing the Enter key.

where

dsp_no

is the DSP number (0 to 27)

4 Enter the protection level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

SPM 0 InSv Prot Grp: DSP_GRP 1 Mode: Non-revertive Schema: m_for_n Sh0 U R A Stat Sh1 U R A Stat Sh1 U R A Stat 1 --- 8 --- 1 2 --- 9 --- 2 --- 9 0 W A InSv 3 --- 10 ---- 3 ---- 10 1 W A InSv 4 ---- 11 ---- 5 ---- 11 2 W A InSv 5 ---- 12 ---- 5 ----- 12 3 S I InSv 6 ---- 13 ----- 7 ----- 14 ------

Note: In the example above, DSP 3 in slot 12 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).

5 Determine there are any working DSPs that are protection switched using the results from the SPMRESMAN command in Procedure 1.

lf	Do
no working DSP is protection switched	Procedure 10
any working DSP is protection switched	Procedure 6

6 Using the information gathered during Procedure 1, protection switch the DSP, indicated by the ProtWhomID field of the currently Inactive DSP, with the Inactive DSP by typing

>MANUAL <prot_dsp> <inactive_dsp>

and pressing the Enter key.

where

prot_dsp

is the number of the DSP in the inactive DSP's ProtWhomID field from Procedure 1

inactive_dsp

is the number of an inactive DSP

Example

>MANUAL 3 0

7 Confirm the protection switch by typing

>Y

and pressing the Enter.

8 Determine the Protection status of the DSPs assigned to the SPM being modified by typing

>SPMRESMAN SPM <spm_no> DSP <dsp_no>

and pressing the Enter key.

where

spm_no
is the SPM number (0 to 63)

dsp_no

is the DSP number (0 to 27)

9 Using the output of Procedure 8, verify that the RMID and the ProtWhomID fields are the same number for each of the DSPs.

If the SPM has	Do
any protection switched DSPs	Procedure 6
no protection switched DSPs	Procedure 16

10 Ensure that the inactive DSP is the Spare. Then protection switch the inactive DSP with one of the active DSPs by typing

>MANUAL <active_dsp> <inactive_dsp>

and pressing the Enter key.

where

active_dsp

is the number of an active DSP from Procedure 2

inactive_dsp

is the number of the inactive DSP

Example

>MANUAL 0 3

11 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

SPM 0 InSv			
Prot Grp: DSP_GR	P 1 Mode: Non-	revertive Sch	nema: m_for_n
ShO U R A Stat	ShO U R A Stat	Sh1 U R A Stat	Sh1 U R A Stat
1	8	1	8
2	9	2	9 0 W I InSv
3	10	3	10 1 W A InSv
4	11	4	11 2 W A InSv
5	12	5	12 3 S A InSv
б	13	б	13
7	14	7	14

- 12 Verify that the DSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 11, DSP 0 in slot 9 of the upper shelf is now inactive ("I" under the 'A' column) and the spare DSP ("S" under the 'R' column) is now active.
- **13** Protection switch back to the original DSP by typing

>MANUAL <spare_dsp> <inact_dsp>

and pressing the Enter key.

where

spare_dsp

is the number of the newly active DSP

inact_dsp

is the number of the previously active DSP from Procedure 10

Example

>MANUAL 3 0

14 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

 SPM # InSv

 Prot Grp: DSP_GRP 1
 Mode: Non-revertive
 Schema: m_for_n

 Sh0 U R A Stat
 Sh0 U R A Stat
 Sh1 U R A Stat
 Sh1 U R A Stat

 1 --- --- 8
 --- 1
 --- 8

 2 --- --- 9
 ---- 2
 --- 9
 0 W A InSv

 3 --- --- 10
 --- 3
 --- --- 10
 1 W A InSv

 4 --- ---- 11
 --- 5
 ---- 11
 2 W A InSv

 5 -- ---- 13
 ---- 5
 ---- 13
 S I InSv

 6 -- ---- 14
 ----- 7
 ---- 14

15 Verify that the DSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 14, DSP 3

	in slot 9 of the upper shelf is now inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).
16	Exit the PROT level by typing
	>QUIT
	and pressing the Enter key.
17	Select the spare DSP by typing
	>SELECT DSP <spare_dsp></spare_dsp>
	and pressing the Enter key.
	where
	<pre>spare_dsp is the number of the spare DSP</pre>
18	Busy the spare DSP by typing
	>BSY
	and pressing the Enter key.
19	Offline the spare DSP by typing
	>OFFL
	and pressing the Enter key.
20	Exit to the CI level of the MAP by typing
	>QUIT ALL
	and pressing the Enter key.
21	Access table MNCKTPAK by typing
	>TABLE MNCKTPAK
	and pressing the Enter key.
22	Position on the tuple that holds the information on the spare DSP by typing
	>POS SPM <spm_no> <shelf_no> <slot_no></slot_no></shelf_no></spm_no>
	and pressing the Enter key.
	where
	<pre>spm_no is the SPM number (0 to 63)</pre>
	shelf_no is the shelf number (0 or 1)
	slot_no is the slot number (1 to 14)

Example

>POS SPM 0 1 12

23 Remove the tuple by typing

>DEL

and pressing the Enter key.

Note: It is recommended that the spare DSP is deleted and re-added as a working DSP. The final DSP tuple in table MNCKTPAK should be added as the spare DSP.

24 Confirm the deletion by typing

>Y

and pressing the Enter key.

25 Begin the table addition by typing

>ADD

and pressing the Enter key.

26 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

>ADD	
CPKKEY:	
>SPM 0 1 12	
CPKTYPE:	
>DSP	
UNITNO:	
>3	
DSPGRPID:	
>1	
WKRSPR:	
>WORKING	
RSRTYPE:	
>COT 12	
RSRTYPE:	

25

```
>DTMF 12
RSRTYPE:
>$
ALRMCTRL:
>SYSB CR RPT
ALRMCTRL:
>MANB MJ RPT
ALRMCTRL:
>ISTB MN RPT
ALRMCTRL:
>PROTFAIL CR RPT
ALRMCTRL:
>$
PEC:
>NTLX65BA
RELEASE:
>01
LOAD:
>DSP16CK
```

TUPLE TO BE ADDED:

SPM0112DSP31WORKING (COT12)(DTMF12)\$ (SYSBCRRPT)(MANBMJRPT)(ISTBMNRPT)(PROTFAILCRRPT)\$NTLX65BA01DSP16CK

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

27 Repeat steps 25 and 26 to add additional DSPs. Datafill the final DSP as a spare DSP. All others should be datafilled as working. When all DSPs have been datafilled, exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

At the equipment frame

- **28** Remove the NTLX60AA filler modules from the appropriate slot(s).
- 29 Insert the new DSP (NTLX65) resource module(s) into the appropriate slot(s). Wait for the resource module(s) to pass the self test. This will take several minutes.

Note: The red and green LEDs will illuminate while the self test is being performed. The red LED will extinguish.

At the MAP level

30 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

Example of MAP display

SPM 0 InSv Loc: Site HOST Floor 1 Row AA FrPos 0

```
      Shlf0
      SL A Stat
      Shlf0
      SL A Stat
      Shlf1
      SL A Stat
      Shlf1
      SL A Stat

      -----
      1
      -----
      CEM 1
      8
      A InSv
      -----
      1
      -----
      8
      -----

      -----
      2
      -----
      OC3 0
      9
      A InSv
      -----
      DSP 0
      9
      A InSv

      -----
      3
      -----
      OC3 1
      10
      I InSv
      -----
      2
      -----
      DSP 1
      10
      A InSv

      -----
      4
      -----
      VSP 3
      11
      A InSv
      -----
      DSP 2
      11
      A InSv

      -----
      5
      -----
      VSP 2
      12
      A InSv
      VSP 4
      5
      A InSv
      DSP 3
      12
      A Offl

      -----
      6
      -----
      VSP 1
      13
      A InSv
      VSP 5
      6
      A InSv
      DSP 4
      13
      I Offl

      CEM 0
      7
      I InSv
      VSP 0
      14
      A InSv
      -----
      14
      -----
```

31 Select one of the new DSPs just added to the SPM by typing

>SELECT DSP <dsp_no>

and pressing the Enter key.

where

dsp_no

is the number of a newly added DSP (0 to 27)

32 Busy the selected DSP by typing

>BSY

and pressing the Enter key.

33 Perform a RESETMOD on the DSP by typing>RESETMOD FW

and pressing the Enter key.

34 Load the DSP with the DSP software load by typing >LOADMOD

and pressing the Enter key.

35 Perform an out-of-service test on the DSP by typing>TST

and pressing the Enter key.

36 Return the DSP to service by typing

>RTS

and pressing the Enter key.

37

lf	Do
additional DSPs were added	Procedure 31
no additional DSPs were added	Procedure 38

- **38** Verify the DSPs are working properly. Monitor logs and the SPM for five minutes. If any problems arise, contact your next level of support.
- **39** Access the PROT level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

40 Determine if the spare DSP is also inactive.

Note: In the example above, DSP 4 in slot 13 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).

41 Protection switch an active DSP with the inactive spare DSP by typing

>MANUAL <active_dsp> <spare_dsp>

and pressing the Enter key.

where

active_dsp is the number of an active DSP

spare_dsp
is the number of the inactive spare DSP

Example

>MANUAL 0 4

42 Confirm the protection switch by typing

>Y

and pressing the Enter key.

43 Protection switch from the spare DSP back to the newly inactive DSP by typing

>MANUAL <spare_dsp> <inactive_dsp>

and pressing the Enter key.

where

spare_dsp

is the number of the spare DSP

inactive_dsp

is the number of the newly inactive DSP

Example

>MANUAL 4 0

44 Confirm the protection switch by typing

>Y

and pressing the Enter key.

45 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL

and pressing the Enter key.



Configuration management procedures

Provisioning an SRM

At the MAP level

1 Access table PECINV by typing

>TABLE PECINV

and pressing the Enter key.

2 Determine if the NTLX44AA peccode has been previously datafilled by typing

>POS NTLX44AA

and pressing the Enter key.

If the tuple is	Do
found	Procedure 6
not found	Procedure 3

- 3 Contact the next level of support and obtain the current baseline release and exceptions associated with the pack. Then add the NTLX44AA peccode to the table.
- 4 Begin the table addition by typing

>ADD

and pressing the Enter key.

5 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table PECINV.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y PEC: >NTLX44AA SSYSBASE: >SPMHW 01 \$ SSYSBASE: >\$ TUPLE TO BE ADDED: NTLX44AA (SPMHW 01 \$)\$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table PECINV by typing >QUIT and pressing the Enter key. Determine the location of the SRM loads by typing >DISKUT;LF <disk_volume> and pressing the Enter key. where disk volume is the name of the SRM load volume Exit the DISKUT level by typing >QUIT ALL and pressing the Enter key. Access table PMLOADS by typing >TABLE PMLOADS 10 Determine if the SRM load is present by typing >POS srm_load_name and pressing the Enter key. where srm_load_name is the load name for the SRM

6

7

8

9

Example

11

12

>POS SYN16BK

If the SRM load is		Do	
found		Procedure 1	3
not found		Procedure 1	1
Begin the table additi	ion by typ	bing	
>ADD			
and pressing the Ent	er key.		
Answer each of the pr the table range.	ompts wi	ith the required	d datafill provided b
Example			
This is an exampl	e of data	filling table PN	ILOADS.
>ADD			
ENTER Y TO CO	NTINUE	PROCESSING	G OR N TO QUIT
>Y			
LOADNAME:			
>SYN16BK			
ACTFILE:			
>SYN16BK_0000	01		
ACTVOL:			
>S00DSPM			
BKPFILE:			
>SYN16BK_0000	01		
BKPVOL:			
>S01DSPM			
UPDACT: N			
>			
	DDED:		
TUPLE TO BE A			
TUPLE TO BE A SYN16BK			
	SYN16	ЗК_000001	S00DSPM

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

13 Exit table PMLOADS by typing >QUIT

and pressing the Enter key.

14 Access table MNPRTGRP by typing

>TABLE MNPRTGRP

and pressing the Enter key.

15 Begin the table addition by typing

>ADD

and pressing the Enter key.

16 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNPRTGRP.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

GRPKEY:

>SPM 2 SRM_GRP 1

SELECTOR:

>SRM_GRP

SWCHMODE:

>NRVTV

SPARING:

>UNSPARED

TUPLE TO BE ADDED:

SPM 2SRM_GRP 1SRM_GRP NRVTVUNSPAREDENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

17 Exit table MNPRTGRP by typing >QUIT

and pressing the Enter key.

18 Access table MNCKTPAK by typing

>TABLE MNCKTPAK

and pressing the Enter key.

19 Begin the table addition by typing

>ADD

and pressing the Enter key.

20 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

>ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y CPKKEY: >SPM 0 0 6 **CPKTYPE:** >SRM UNITNO: >0 SRMGRPID: >1 WKRSPR: >WORKING ALRMCTRL: >SYSB CR RPT ALRMCTRL: >MANB MJ RPT ALRMCTRL:

>ISTB MN RPT ALRMCTRL: >HLDOVR MJ RPT ALRMCTRL: >HLDOVR24 CR RPT ALRMCTRL: >LOR MJ RPT ALRMCTRL: >\$ BITSALM: >LOS MJ RPT BITSALM: >AIS MJ RPT BITSALM: >OOF MJ RPT BITSALM: >MTIE MN RPT BITSALM: >TLD MJ RPT BITSALM: >BPV MN RPT BITSALM: >CRC MN RPT BITSALM: >\$ BITSAINFO: >DS1 ESF BITSBINFO: >DS1 ESF BITSOUTINFO: >\$ Note: BITSOUTINFO is disabled for SP16. PQL_ARR:

>NA

Note: If SF is datafilled in the BITSAINFO and BITSBINFO, PQL_ARRAY must be datafiled as STU.

REV:

>N

PEC:

>NTLX44AA

RELEASE:

>01

LOAD:

>SYN16CT

TUPLE TO BE ADDED:

SPM 0 0 6 SRM 0 1 WORKING (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (HLDOVR MJ RPT) (HLDOVR24 CR RPT) (LOR MJ RPT) \$ (LOS MJ RPT) (AIS MJ RPT) (OOF MJ RPT) (MTIE MN RPT) (TLD MJ RPT) (BPV MN RPT) (CRC MN RPT) \$ DS1 ESF DS1 ESF \$ NA N NTLX44AA 01 SYN16CT

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

21 Exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

At the equipment frame

- 22 Ensure ESD precautions are utilized. Verify that ESD wrist strap is connected properly.
- **23** Remove the NTLX60AA Filler packs from card slot 6 in the lower shelf (shelf 0) of the SPM being modified.
- **24** Insert the SRM in card slot 6 in the lower shelf (shelf 0) of the SPM being modified.

Note: Wait for the SRM to complete self test, which will take several minutes.

25 Connect the NTLX5110 cable assembly for the 15 pin and 9 pin DSUB connectors.

At the MAP level

26 Post the SPM to be updated by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the number of the SPM to be upgraded (0 to 63) *Example of a MAP screen:*

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A Stat
 Shlf1
 SL A Stat
 Shlf1
 SL A Stat

 ---- 1
 --- CEM 1
 8
 I
 InSv
 DLC 0
 1
 A
 InSv
 ---- 8

 ---- 2
 --- OC3
 0
 9
 A
 InSv
 ---- 2
 DSP
 0
 9
 A
 InSv

 ---- 3
 --- OC3
 1
 0
 I
 InSv
 ---- DSP
 0
 9
 A
 InSv

 ---- 4
 --- 11
 --- DSP
 1
 A
 InSv

 ---- 5
 --- 12
 --- DSP 3
 12
 A
 InSv

 SRM 0
 6
 A
 OffL
 13
 ---- 6
 DSP 4
 13
 I
 INSv

 CEM 0
 7
 A
 InSv

27 Select the SRM by typing

>SELECT SRM 0

and pressing the Enter key.

28 Busy the SRM by typing >BSY

and pressing the Enter key.

29 Load the SRM with the SRM software load by typing >LOADMOD

and pressing the Enter key.

30 Return the SRM to service by typing >RTS

and pressing the Enter key.

31 Access the BITS level of the MAP by typing >BITS

Example of MAP display

SPM 2	2	SRM 0				
LinkNo		BitsName	Status	State	SSM	AlmSev
0		BITSA	InAct	OffL	NIL	
1		BITSB	InAct	OffL	NIL	
2		BITSOUT		Uneq	NIL	

32 Busy the links by typing

>BSY <link_no>

and pressing the Enter key.

where

link_no

is the link number (0 or 1)

33 Return the links to service by typing

>RTS <link_no>

and pressing the Enter key.

where

link_no

is the link number (0 or 1)

- 34 Repeat steps 32 and 33 for each BITS link.
- **35** Ensure the BITS links are both InSv, and verify one link is ACTIVE and the other INACTIVE.
- **36** If any BITS link or SRM alarms arise, clear them using the appropriate procedure.
- 37 Return to the CI level of the MAP screen by typing

>QUIT ALL

and pressing the Enter key.

38 In order to use the SRM for ESI timing, another SRM must be added on a separate SPM. Repeat steps 14 through 37 to add an SRM to another SPM.

Note: Although it essentially acts as a spare SRM, the second SRM should still be datafilled as working in Table MNCKTPAK.

39 Access table SYNCLK by typing

>TABLE SYNCLK

>LIST

and pressing the Enter key.

41 Determine the current timing configuration for the SPM using the following table.

Timing configuration cross-reference

Timing type	Example tuple
Master-external	0 STRAT3 MASTEXT F1000 ANALOG T50 OFF
Master-internal	0 STRAT3 MASTINT
OC3 line timing	0 STRAT3 SLAVE SPM 32 OC3 SPM 33 OC3
Slave	0 STRAT3 SLAVE DTC 0 0 0 DTC 1 0 0

42 Exit table SYNCLK by typing

>QUIT

and pressing the Enter key.

43

44

If the current timing configuration	is Do
Master-External or Slave	Procedure 44
any other configuration	Procedure 45
Drop synchronization on the MS clock by performing the following sequence of commands:	
>MAPCI;MTC;MS;CLOCK;DPSYNC	
This action will degrade SPM performance.	I OC-3 SYNC
Do you wish to continue?	
>Y	
Request to Drop Syncronizati Submitted	on on Clock 1:
Request to Drop Synchronizat Passed	ion on Clock 1:
>QUIT ALL	

45 Return to table SYNCLK by typing

>TABLE SYNCLK

and pressing the Enter key.

46

If the current timing configuration is	Do
Master-external	Procedure 47
Master-internal	Procedure 48
OC3 line timing	Procedure 49
Slave	Procedure 50

47 Change the timing configuration from Master-external to ESI timing by performing the following steps:

Note: The SPM numbers datafilled in table SYNCLK should match the numbers of the SPM in which the SRM were datafilled.

a Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from Master-external to ESI timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

CLKTYPE: STRAT3

>

OFFCONF: MASTEXT

>SLAVE

LKO_PTYP:

>SPM

LKO_PNUM

```
LKO_RMTYP
```

>SRM

LK1_PTYP

>SPM

LK1_PNUM

>3

LK1_RMTYP

>SRM

Perform a BUSY (BSYMS) and RTS (RTSMS) without OOBAND option to each MS to setup the new clock configuration.

TUPLE TO BE CHANGED:

0 STRAT3 SLAVE SPM 2 SRM SPM 33 SRM

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE CHANGED

c Exit table SYNCLK by typing

>QUIT

and pressing the Enter key.

- **d** Go to Procedure 51.
- **48** Change the timing configuration from Master-internal to ESI timing by performing the following steps:

Note: The SPM numbers datafilled in table SYNCLK should match the numbers of the SPM in which the SRM were datafilled.

a Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from Master-internal to ESI timing.

>CHA

43

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y CLKTYPE: STRAT3 > OFFCONF: MASTINT >SLAVE LKO_PTYP: >SPM LKO_PNUM >2 LKO RMTYP >SRM LK1_PTYP >SPM LK1_PNUM >3 LK1 RMTYP >SRM Perform a BUSY (BSYMS) and RTS (RTSMS) without OOBAND option to each MS to setup the new clock configuration. TUPLE TO BE CHANGED: 0 STRAT3 SLAVE SPM 2 SRM SPM 33 SRM ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE CHANGED c Exit table SYNCLK by typing >QUIT and pressing the Enter key.

d Go to Procedure 51.

	-			
49		Change the timing configuration from OC3 line timing to ESI ming by performing the following steps:		
	ma	te: The SPM numbers datafilled in table SYNCLK should atch the numbers of the SPM in which the SRM were tafilled.		
	а В	egin the table change by typing		
	>	СНА		
	a	nd pressing the Enter key.		
	b M	lodify the tuple as needed.		
		Example		
		This example changes the timing mode from OC3 line timing to ESI timing.		
		>CHA		
		ENTER Y TO CONTINUE PROCESSING OR N TO QUIT		
		>Y		
		CLKTYPE: STRAT3		
		>		
		OFFCONF: SLAVE		
		>SLAVE		
		LKO_PTYP: SPM		
		>		
		LKO_PNUM: 32		
		>2		
		LKO_RMTYP		
		>SRM		
		LK1_PTYP: SPM		
		>		
		LK1_PNUM: 33		
		>3		
		LK1_RMTYP		
		>SRM		
		TUPLE TO BE CHANGED:		
		0 STRAT3 SLAVE SPM 2 SRM SPM 3 SRM		

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE CHANGED

c Exit table SYNCLK by typing

>QUIT

and pressing the Enter key.

- d Go to Procedure 51.
- **50** Change the timing configuration from Slave to ESI timing by performing the following steps:

Note: The SPM numbers datafilled in table SYNCLK should match the numbers of the SPM in which the SRM were datafilled.

a Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from Slave to ESI timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

>

CLKTYPE: STRAT3

OFFCONF: SLAVE

>

LKO_PTYP: DTC

>SPM

LKO_PNUM

>2

LKO_RMTYP

```
>SRM
```

46

```
LK1_PTYP: DTC

>SPM

LK1_PNUM

>3

LK1_RMTYP

>SRM

TUPLE TO BE CHANGED:

0 STRAT3 SLAVE SPM 2 SRM SPM 33 SRM

ENTER Y TO CONFIRM, N TO REJECT OR E TO

EDIT.

>Y

TUPLE CHANGED

C Exit table SYNCLK by typing

>QUIT

and pressing the Enter key.
```

51

	If the original configuration was	Do
	Master-External or Master-Internal	Procedure 52
	OC3 line timing or Slave	Procedure 59
52	Access the MS clock by typing	
	>MAPCI;MTC;MS	
	and pressing the Enter key.	
53	Busy the slave MS by typing	
	>BSY <slave_ms></slave_ms>	
	and pressing the Enter key.	
	where	
	slave_ms is the number of the slave	MS
54	Return the slave MS to service	by typing
	>RTS <slave_ms></slave_ms>	
	and pressing the Enter key.	

where

slave ms is the number of the slave MS 55 Switch the master clock to the mate MS by typing >SWMAST and pressing the Enter key. 56 Busy the new slave MS by typing >BSY <slave ms> and pressing the Enter key. where slave_ms is the number of the new slave MS 57 Return the new slave MS to service by typing >RTS <slave_ms> and pressing the Enter key. where slave ms is the number of the new slave MS 58 Switch back to the original master MS by typing >SWMAST and pressing the Enter key. Access the Clock level of the MS by typing 59 >MAPCI;MTC;MS;CLOCK

Example of MAP display

```
Message Switch Clock Shelf 0 Inter-MS Link 0 1

MS 0 . Master . . .

MS 1 . Slave . . .

Shelf 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2

Card 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6

Chain | |

MS 0 . . . . . . - - . - - - - - - - . . . . . .

MS 1 . . . . . . - - . - - - - - - - . . . . . .

Card 02 Alm Stat %Adj Src | Car Stat Sp PM RMTyp SSM

MS 0 . . . Fr +05.5 Nil | Lk0 Smp - SPM 002 SRM PRS

MS 1 . . . Syn -03.0 Ms0 | Lk1 Idl - SFM 003 SRM DUS

Links Slipping: NA out of NA
```

- 60 Confirm the timing reference SRM and the SPMs just datafilled appear as references at the CLOCK level. Column "PM" should indicate SPM <number>, and column "RMTyp" should indicate SRM.
- 61 Initiate synchronization on the MS clock by typing

>SYNC

and pressing the Enter key.

Example MAP display when SYNC command is entered

```
Message Switch Clock Shelf 0 Inter-MS Link 0 1
MS 0 . Master . . .
MS 1 . Slave . . .
Shelf 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
Card 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
Chain | |
MS 0 . . . . . . - - . - - - - - - - - . . . . . .
MS 1 . . . . . . - - . - - - - - - - . . . . . . .
Card 02 Alm Stat %Adj Src | Car Stat Sp PM RMTyp SSM
MS 0 . . . Lkg +05.7 Lk0 | Lk0 Lck - SPM 002 SRM PRS
MS 1 . . Syn -02.2 Ms0 | Lk1 Id1 - SPM 003 SRM DUS
Links Slipping: NA out of NA
```

Note: The SYNC command may take several minutes to complete.

Example MAP display when SYNC command is completed

```
Message Switch Clock Shelf 0 Inter-MS Link 0 1

MS 0 . Master . . .

MS 1 . Slave . . .

Shelf 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2

Card 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6

Chain | |

MS 0 . . . . . . - - . - - - - - - - - . . . . . .

MS 1 . . . . . . - - . - - - - - - - - - . . . . . .

Card 02 Alm Stat %Adj Src | Car Stat Sp PM RMTyp SSM

MS 0 . . . Syn +05.7 Lk0 | Lk0 Lck - SPM 002 SRM PRS

MS 1 . . . Syn -03.0 Ms0 | Lk1 Idl - SPM 003 SRM DUS

Links Slipping: NA out of NA
```

- **62** For further assistance, contact the personnel responsible for the next level of support.
- 63 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL



Configuration management procedures

Provisioning a VSP RM

At the MAP level

1

2

If there are	Do
VSPs currently assigned to the SPM being modified	Procedure 2
no VSPs currently assigned to the SPM being modified	Procedure 23
Determine the Protection status SPM being modified. Verify that ields are the same number for	t the RMID and the ProtWhomID

>SPMRESMAN SPM <spm_no> VSP <vsp_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

vsp_no is the VSP number (0 to 27)

Example response of SPM with no protection switched VSPs

SPM 0ProtGroup: 1RMIDActivity ProtWhomIDProtGrpSafe to Change?VSP 0 14ACTIVE141NOVSP 1 13ACTIVE131NOVSP 2 12ACTIVE111NO

Example response of SPM with protection switched VSPs:

SPM 0 ProtGroup: 1 RMID Activity ProtWhomID ProtGrp Safe to Change?

VSP 014	ACTIVE	12	1	NO
VSP 113	ACTIVE	13	1	NO
VSP 212	INACTIVE	11	1	NO
VSP 311	ACTIVE	14	1	NO

Note: In the second example above, VSP 0 was protection switched with the spare VSP (VSP 3), then VSP 2 (currently inactive) was protection switched with VSP 0. To get the VSPs in the proper state, first protection switch VSP 0 with VSP 2 and then protection switch VSP 3 with VSP 0.

3 Post the SPM by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no
is the SPM number (0 to 63)

Example of MAP display

SPM 0 InSv L	oc: Site HOST Floor 1 Row AA FrPos 0
Shlf0 SL A Stat	Shlf0 SLAStat Shlf1 SLAStat Shlf1 SL AStat
1	CEM 1 8 A InSv 1 8
2	OC3 0 9 A InSv 2 DSP 0 9 A InSv
3	OC3 1 10 I InSv 3 DSP 1 10 A InSv
4	VSP 3 11 A InSv 4 DSP 2 11 A InSv
5	VSP 2 12 A InSv VSP 4 5 A InSv DSP 3 12 I InSv
6	VSP 1 13 A InSv VSP 5 6 I InSv 13
CEM 0 7 I InSv	VSP 0 14 A InSv 7 14

Note: VSP 3 in slot 11 of lower shelf is Inactive (I)

4 Select a VSP assigned to the SPM being modified by typing

>SELECT VSP <vsp_no>

and pressing the Enter key.

where

vsp_no is the VSP number (0 to 27)

5 Enter the protection level of the MAP by typing

>PROT

Example of MAP display

Note: In the example above, VSP 3 in slot 11 of the lower shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

6 Determine there are any working VSPs that are protection switched using the results from the SPMRESMAN command in Procedure 2.

lf	Do
no working VSP is protection switched	Procedure 11
any working VSP is protection switched	Procedure 7

7 Using the information gathered during Procedure 2, protection switch the VSP, indicated by the ProtWhomID field of the currently Inactive VSP, with the Inactive VSP by typing

>MANUAL <prot_vsp> <inactive_vsp>

and pressing the Enter key.

where

prot_vsp

is the number of the VSP in the inactive VSP's ProtWhomID field from Procedure 2

inactive_vsp

is the number of an inactive VSP

Example

>MANUAL 3 0

8 Confirm the protection switch by typing

>Y

9	Determine the Protection status of the VSPs assigned to the
	SPM being modified by typing

>SPMRESMAN SPM <spm_no> VSP <vsp_no>

and pressing the Enter key.

where

spm_no
is the SPM number (0 to 63)

vsp_no

is the VSP number (0 to 27)

10 Using the output of Procedure 9, verify that the RMID and the ProtWhomID fields are the same number for each of the VSPs.

11 Ensure that the inactive VSP is the Spare. Then protection switch the inactive VSP with one of the active VSPs by typing

>MANUAL <active_vsp> <inactive_vsp>

and pressing the Enter key.

where

active_vsp

is the number of an active VSP from Procedure 3

inactive_vsp

is the number of the inactive VSP

Example

>MANUAL 0 3

12 Confirm the protection switch by typing

>Y

Example of MAP display

```
SPM # ISTb
```

- 13 Verify that the VSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 12, In the example above, VSP 3 in slot 11 of the lower shelf is active ("A" under the 'A' column) and is the spare VSP ("S" under the 'R' column).
- 14 Protection switch back to the original VSP by typing

```
>MANUAL <spare_vsp> <inact_vsp>
```

and pressing the Enter key.

where

spare_vsp

is the number of the newly active VSP

inact_vsp

is the number of the previously active VSP from Procedure 11

Example

>MANUAL 3 0

15 Confirm the protection switch by typing

>Y

Example of MAP display

```
SPM 0
```

 Prot Grp: VSP_GRP 1
 Mode: Non-revertive
 Schema: m_for_n

 Sh0 U R A Stat
 Sh0 U R A Stat
 Sh1 U R A Stat
 Sh1 U R A Stat

 1
 --- 8
 - ---

 2
 - 9
 -

 3
 - --- 3
 - 9

 4
 - --- 10
 - ---

 5
 - 11
 3 S I
 InSv
 4
 - 12
 -

 6
 - 13
 1 W A InSv
 6
 - --- 13
 -

- 16 Verify that the VSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 15, In the example above, VSP 3 in slot 11 of the lower shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).
- **17** Exit the PROT level of the MAP by typing

>QUIT

and pressing the Enter key.

18 Select the spare VSP by typing

>SELECT VSP <spare_vsp>

and pressing the Enter key.

where

spare_vsp

is the number of the spare VSP

19 Busy the spare VSP by typing >BSY

and pressing the Enter key.

20 Offline the VSP by typing >OFFL

and pressing the Enter key.

21 Exit to the CI level of the MAP by typing >QUIT ALL

	If there are	Do	
	no VSPs on the SPM	Procedure 23	
	any VSPs on the SPM	Procedure 31	
Access table PMLOADS by typing			
	>TABLE PMLOADS		
	and pressing the Enter key.		
Ensure that the appropriate loads for VSPs being added are properly datafilled. If they are not present, add them to the ta			
	<i>Note:</i> The DSP load contains software.	s the VSP, as well as the DSP	
	Exit table PMLOADS by typing		
	>QUIT		
	and pressing the Enter key.		
	lf you	Do	
-	are adding VSPs for the first time	Procedure 27	
	have previously added VSPs to this	Procedure 31	
	SPM		
	SPM	ping	
	SPM Access table MNPRTGRP by ty	ping	
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP	ping	
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key.		
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin >ADD		
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin >ADD		
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with	g	
		g	
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with the table range.	g the required datafill provided l	
	SPM Access table MNPRTGRP by ty >TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with the table range. Example	g the required datafill provided l	
	SPM Access table MNPRTGRP by ty TABLE MNPRTGRP and pressing the Enter key. Begin the table addition by typin ADD and pressing the Enter key. Answer each of the prompts with the table range. Example This is an example of datafill	g the required datafill provided b	

```
SELECTOR:
```

>VSP_GRP

SWCHMODE:

>NRVTV

ALRMCTRL:

>NOSPARE MJ RPT

TUPLE TO BE ADDED:

SPM 0 VSP_GRP 1 VSP_GRP NRVTV NOSPARE MJ RPT ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

ENIER I IO CONFIRM, N IO REJECI OR E IO E

>Y

TUPLE ADDED

30 Exit table MNPRTGRP by typing

>QUIT

and pressing the Enter key.

31 Access table MNCKTPAK by typing

>TABLE MNCKTPAK

and pressing the Enter key.

32

lf you	Do	
are adding VSPs for the first time	Procedure 37	
have previously added VSPs to this SPM	Procedure 33	

33 Position on the spare VSP assigned to the SPM being modified by typing

>POS SPM <spm_no> <shelf_no> <slot_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

shelf_no

is the shelf number (0 or 1)

slot_no

is the slot number (1 to 14)

34 Delete the tuple for the spare VSP from table MNCKTPAK for the SPM being modified by typing

>DEL

and pressing the Enter key.

35 Confirm the deletion by typing

>Y

and pressing the Enter key.

- **36** Re-add the VSP that was just deleted as a working VSP.
- **37** Begin the table addition by typing

>ADD

and pressing the Enter key.

38 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

>ADD **CPKKEY:** >SPM 0 1 5 CPKTYPE: >VSP UNITNO: >4 VSPGRPID: >1 WKRSPR: >WORKING RSRTYPE: >ECAN 260 RSRTYPE: >\$ ALRMCTRL: >SYSB CR RPT ALRMCTRL:

>MANB MJ RPT

ALRMCTRL:

>ISTB MN RPT

ALRMCTRL:

>PROTFAIL CR RPT

ALRMCTRL:

>\$

PEC:

>NTLX66BA

RELEASE:

>01

LOAD:

>DSP16CK

TUPLE TO BE ADDED:

SPM015VSP41WORKING (ECAN 260)\$ (SYSBCR RPT) (MANB MJ RPT) (ISTB MN RPT) (PROTFAILCR RPT) \$NTLX66BA01DSP16CK

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

Note 1: The NTLX66AA and NTLX66BA VSPs can have 1 to 260 ECAN resources assigned. The NTLX85AA and NTLX86AA can have 1 to 336 ECAN resources assigned.

Note 2: The DSP load contains the NTLX66AA and NTLX66BA VSP, as well as the DSP software.

Note 3: The NLTX85AA and NTLX86AA use the COH load.

39 Repeat steps 37 and 38 to add additional VSPs. Datafill the final VSP as a spare VSP. All others should be datafilled as working. When all VSPs have been datafilled, exit table MNCKTPAK by typing

>QUIT

At the equipment frame

- **40** Remove the NTLX60AA filler modules from the appropriate slot(s).
- 41 Insert the new VSP resource module(s) into the appropriate slot(s). Wait for the resource module(s) to pass the self test. This will take several minutes.

Note: The red and green LEDs will illuminate while the self test is being performed. The red LED will extinguish.

At the MAP level

42 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

SPM 0 InSv Loc: Site HOST Floor 1 Row AA FrPos 0

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A Stat
 Shlf1
 SL A Stat

 ---- 1
 CEM 1
 8
 A InSv
 1
 8

 ---- 2
 OC3
 0
 9
 A InSv
 2
 DSP
 0
 9
 A InSv

 ---- 3
 OC3
 1
 10
 I InSv
 3
 DSP
 0
 9
 A InSv

 ---- 4
 OC3
 1
 10
 I InSv
 3
 DSP
 1
 A InSv

 ---- 4
 VSP 3
 11
 A Off1
 4
 DSP 2
 11
 A InSv

 ---- 5
 VSP 2
 12
 A InSv
 VSP 4
 5
 I Off1
 DSP 3
 12
 A InSv

 ----- 6
 VSP 1
 13
 A InSv
 DSP 4
 13
 I InS

Note: In the above example, VSP 4 was added to the SPM as the spare.

43 Select one of the offline VSPs by typing

>SELECT VSP <offl_vsp>

and pressing the Enter key.

where

offl_vsp

is the number of an offline VSP

44 Busy the selected VSP by typing

>BSY

and pressing the Enter key.

45 Perform a RESETMOD on the selected VSP by typing >RESETMOD FW

and pressing the Enter key.

46 Load the selected VSP with its software by typing >LOADMOD and pressing the Enter key.

47 Test the selected VSP by typing >TST

and pressing the Enter key.

48 Return the selected VSP to service by typing

>RTS

and pressing the Enter key.

lf	Do
additional VSPs need to be tested	Procedure 43
no additional VSPs need to be tested	Procedure 49

49 Enter the PROT level of the MAP by typing

>PROT

and pressing the Enter key.

SPM 0 ISTb

Prot Grp: VSP_0	GRP 1 Mode: N	Ion-revertive Schema: m_for_n
Sh0 U R A Stat	Sh0 U R A Stat	Sh1 U R A Stat Sh1 U R A Stat
1	8	1 8
2	9	2 9
3	10	3 10
4	11 3 W A InSv	4 11
5	12 2 W A InSv	5 4 S I InSv 12
6	13 1 W A InSv	6 13
7	14 0 W A InSv	7 14

Determine if the spare VSP is inactive.

Note: In the example above, VSP 4 in slot 5 of the upper shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

50

If the SPM being modified Do originally had

any VSPs assigned to it	Procedure 51	
no VSPs assigned to it	Procedure 59	

51 Protection switch an active VSP with the spare VSP by typing

>MANUAL <active_vsp> <spare_vsp>

and pressing the Enter key.

where

active_vsp is the number of an active VSP

spare_vsp
is the number of the spare VSP

Example

>MANUAL 0 4

52 Confirm the protection switch by typing

>Y

and pressing the Enter key.

53 Allow three minutes to pass before proceeding to the next step. The MAP terminal should eventually look similar to the following example:

SPM 0 ISTb

Prot Grp: VSP_0	GRP 1	Mode: No	on-revertive	Scl	nema	: m_for_n
Sh0 U R A Stat	Sh0	U R A Stat	Sh1 U R A	Stat	Sh1	U R A Stat
1	8 -		1		8	
2	9 -		2		9	
3	10 -		3		10	
4	11 3	3 W A InSv	4		11	
5	12 2	2 W A InSv	5 4 S A	InSv	12	
6	13	1 W A InSv	6		13	
7	14 (0 W I InSv	7		14	

54 Verify the VSP performed the protection switch by viewing the MAP terminal.

Note: In the example above, VSP 4 in slot 5 of the upper shelf is active ("A" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

55 Protection switch back from the spare VSP to the newly inactive VSP by typing

>MANUAL <spare_vsp> <inactive_vsp>

and pressing the Enter key.

where

spare_vsp

is the number of the spare VSP

inactive_vsp

is the number of the newly inactive VSP

 Example

 >MANUAL 4 0

 SPM # ISTb

 Prot Grp: VSP_GRP 1 Mode: Non-revertive Schema: m_for_n

 Sh0 UR A Stat Sh0 UR A Stat Sh1 UR A Stat Sh1 UR A Stat

 1 --- - --- 8 --- - 1 --- 8 -- - --

 2 -- - --- 9 -- - --- 2 --- 9 -- - --

 3 -- - --- 10 -- - --- 3 -- - -- 10 -- - ---

 4 -- - - --- 11 3 W A InSv

 5 -- - --- 12 2 W A InSv

56 Verify the VSP performed the protection switch by viewing the MAP terminal.

Note: In the example above, VSP 4 in slot 5 of the upper shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

57

58

59

60

61

If VSPs	Do		
were added to the SPM for the first time	Procedure 58		
previously were assigned to the SPM	Procedure 59		
Repeat Steps 51 through 57 for	r each working VSP.		
<i>Note:</i> Ensure that after all working VSPs have been protection switched, that the Spare VSP is Inactive.			
Exit the the CI level of the MAP by typing			
>QUIT ALL			
and pressing the Enter key.			
Using the information from your next level of support, add the entries associated with the SPM being modified into table SPMECAN.			
If there are any ECAN requirem assigned to the SPM(s) modifie appropriate trunk sub groups in	ed, add the ECAN option to the		
You have completed this proced	lure		

62 You have completed this procedure.



Configuration management procedures

De-provisioning a DLC RM

At the MAP level

1 Determine the Protection status of the DLCs assigned to the SPM being modified. Verify that the RMID and the ProtWhomID fields are the same number for each of the DLCs by typing

>SPMRESMAN SPM <spm_no> DLC <dlc_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

dlc_no is the DLC number (0 or 1)

Example response of SPM with no protection switched DLCs

Example response of SPM with protection switched DLCs:

SPM 0 ProtGroup: 1						
RMID		Activity	ProtWhomID	ProtGrp	Safe to Change?	
DLC	0 8	ACTIVE	9	1	NO	
DLC	19	ACTIVE	9	1	NO	

Note: In the second example above, DLC 0 was protection switched with the spare DLC (DLC 1). To get the DLCs in the proper state, protection switch DLC 0 with DLC 1.

2	Post the SPM	by typing
---	--------------	-----------

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

Example of MAP display

SPM 0 InSv Class: DMSCP

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A Stat
 Shlf1
 SL A Stat

 DSP 0
 1
 A InSv
 CEM 1
 8
 I
 InSv
 DLC 0
 1
 A InSv
 ---- 8

 ---- 2
 ---- 0C3 0
 9
 I
 InSv
 ---- 2
 ---- 9

 ---- 3
 ---- 10
 A
 InSv
 ---- 10

 ---- 4
 ---- 11
 ---- 4
 ---- 11

 ---- 5
 12
 5
 12

 ---- 6
 13
 6
 13
 13
 14
 14
 14
 14
 14
 <t

Note: In this example DLC 1 in slot 7of shelf 1 is the spare DLC and Inactive (I)

3 Select a DLC assigned to the SPM being modified by typing

>SELECT DLC <dlc_no>

and pressing the Enter key.

where

dlc_no

is the DLC number (0 to 1)

4 Enter the protection level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

 SPM
 0
 InSv

 Prot Grp:
 DLC_GRP 1
 Mode:
 Non-revertive
 Schema:
 m_for_n

 Sh0
 U
 R
 A
 Stat
 Sh0
 U
 R
 A
 Stat
 Sh1
 U
 R
 A
 Stat

 1
 --- ---- 1
 0
 W
 A
 InSv
 8

 2
 - 9

 3
 - 9

Note: In the example above, DLC 1 in slot 7 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DLC ("S" under the 'R' column).

5 Determine if there are any working DLCs that are protection switched using the results from the SPMRESMAN command in Procedure 1.

lf	Do
no working DLC is protection switched	Procedure 10
any working DLC is protection switched	Procedure 6

6 Using the information gathered during Procedure 3, protection switch the DLC, indicated by the ProtWhomID field of the currently Inactive DLC, with the Inactive DLC by typing

>MANUAL <prot_dlc> <inactive_dlc>

and pressing the Enter key.

where

prot_dlc

is the number of the DLC in the inactive DLC's ProtWhomID field from Procedure 1

inactive_dlc

is the number of an inactive DLC

Example

>MANUAL 1 0

7 Confirm the protection switch by typing

>Y

and pressing the Enter.

8 Determine the Protection status of the DLCs assigned to the SPM being modified by typing

>SPMRESMAN SPM <spm_no> DLC <dlc_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

dlc_no

is the DLC number (0 to 27)

- **9** Using the output of Procedure 8, verify that the RMID and the ProtWhomID fields are the same number for each of the DLCs.
- **10** Ensure that the inactive DLC is the Spare. Then protection switch the inactive DLC with the active DLC by typing

>MANUAL <active_dlc> <inactive_dlc>

and pressing the Enter key.

where

active_dlc

is the number of the active DLC from

inactive_dlc

is the number of the inactive DLC

Example

>MANUAL 0 1

11 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

SPM 0 II	nSv		
Prot Grp:	DLC_GRP 1	Mode: Non-revertive	Schema: m_for_n
ShO U R A	Stat ShO U	R A Stat Sh1 U R A	A Stat Sh1 U R A Stat
1	8	10 SI	InSv 8
2	9	2	9
3	10	3	10
4	11	4	11
5	12	5	12
б	13	б	13
7	14	7 1 W A 1	InSv 14

- 12 Verify that the DLC performed the protection switch by viewing the MAP display screen. In the example in Procedure 11, DLC 0 in slot 1 of the upper shelf is now inactive ("I" under the 'A' column) and the spare DLC ("S" under the 'R' column) is now active.
- **13** Protection switch back to the original DLC by typing

>MANUAL <spare_dlc> <inact_dlc>

and pressing the Enter key.

where

spare_dlc

is the number of the newly active DLC

inact_dlc

is the number of the previously active DLC from Procedure 10

Example

>MANUAL 1 0

14 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

SPM 0 InSv Prot Grp: DLC_GRP 1 Mode: Non-revertive Schema: m_for_n 1 --2 --3 --- - ---- 10 --- - ---- 3 -- - - ---- 10 -- - ----- - ---- 4 -- - - ---- 11 -- - ----- - ---- 5 -- - - ---- 12 -- - ----4 --- - ---- 11 --5 --- - ---- 12 -б --- - ---- 13 --- - ---- 6 -- - - ---- 13 -- - ----- - ---- 14 -------7 1 S I InSv 14 -----7 --

- **15** Verify that the DLC performed the protection switch by viewing the MAP display screen. In the example in Procedure 14, DLC 3 in slot 1 of the upper shelf is now inactive ("I" under the 'A' column) and is the spare DLC ("S" under the 'R' column).
- **16** Exit the PROT level by typing

>QUIT

and pressing the Enter key.

17 Select the spare DLC by typing

>SELECT DLC <inactive_dlc)

and pressing the Enter key.

where

inactive_dlc

is the number of the inactive DLC

18 Busy the inactive DLC by typing

>BSY

and pressing the Enter key.

19 Offline the inactive DLC by typing

>OFFL

20		
	If you are removing	Do
	the active DLC RM	Procedure 21
	the spare DLC RM	Procedure 24
21	Select the active DLC to be dele	eted by typing
	>SELECT DLC <active_dlc:< th=""><th>></th></active_dlc:<>	>
	and pressing the Enter key.	
	where	
	active_dlc is the number of the active	e DLC to be removed (0 or 1)
22	Busy the DLC by typing	
	>BSY FORCE	
	and pressing the Enter key.	
23	Offline the DLC by typing	
	>OFFL	
	and pressing the Enter key.	
24	Exit to the CI level of the MAP b	y typing
	>QUIT ALL	
	and pressing the Enter key.	
At the	e equipment frame	
25	Remove the DLC RM(s) from the	e appropriate slot (s)
26	Insert an NLTX60AA filler modul frame.	e in each unoccupied slot on the
At the	e MAP level	
27	Access table MNCKTPAK by typ	bing
	>TABLE MNCKTPAK	
	and pressing the Enter key.	
28	Position on the DLC to be delete	ed by typing
	>POS SPM <spm_no> <shel:< th=""><th>f_no> <slot_no></slot_no></th></shel:<></spm_no>	f_no> <slot_no></slot_no>
	and pressing the Enter key.	
	where	

spm_no is the SPM number (0 to 63)				
	shelf_no is the shelf number (0 or 1)			
		slot_no is the slot number (1 to 14	4)	
	E>	Example		
	>1	POS 0 1 7		
29	Re	Remove the tuple by typing		
	>I	>DEL		
	ar	nd pressing the Enter key.		
30	С	Confirm the deletion by typing		
	>3	>Y		
	ar	and pressing the Enter key.		
31	Repeat Steps 28 through 30 if both DLCs are being deleted.			
32				
	11	f you are removing	Do	
	b	oth DLCs	Procedure 42	
	one DLC		Procedure 33	
33	Re-add the remaining DLC to MNCKTPAK by performing the following steps:			
	a Begin the table addition by typing			
		>ADD		
		and pressing the Enter key.		
	b	Answer each of the prompts with the required datafill provided by the table range.		
	Example			

This is an example of datafilling table MNCKTPAK.

```
>ADD
CPKKEY:
>SPM 0 1 1
CPKTYPE:
```

>DLC UNITNO: >0 DLCGRPID: >1 WKRSPR: >WORKING ALRMCTRL: >SYSB CR RPT ALRMCTRL: >MANB MJ RPT ALRMCTRL: >ISTB MN RPT ALRMCTRL: >PROTFAIL CR RPT ALRMCTRL: >\$ PEC: >NTLX72AA **RELEASE:** >01 LOAD: >DLC16CF TUPLE TO BE ADDED:

SPM 0 1 1 DLC 0 1 WORKING (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (PROTFAIL CR RPT) \$ NTLX72AA 01 DLC16CF ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

Note: This step should only serve as an example. The actual datafill should be identical to the previous datafill of the DLC, except that it should be added as "WORKING".

34 Exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

35 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

Example of MAP display

 SPM
 0
 InSv
 Class: DMSCP

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A

36 Select the DLC by typing

>SELECT DLC <dlc_no>

and pressing the Enter key.

where

dlc_no

is the number of the DLC added in Procedure 33

37 Busy the DLC by typing

>BSY

and pressing the Enter key.

38 Perform a RESETMOD on the DLC by typing >RESETMOD FW

and pressing the Enter key.

39 Load the DLC with the DLC software load by typing >LOADMOD

>RTS

and pressing the Enter key.

- **41** Verify that the DLC is functioning properly. Monitor logs and the SPM for five minutes. If any problems arise, contact your next level of support.
- 42 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL



Configuration management procedures

De-provisioning a DSP RM

At the MAP level

1 Determine the Protection status of the DSPs assigned to the SPM being modified. Verify that the RMID and the ProtWhomID fields are the same number for each of the DSPs by typing

>SPMRESMAN SPM <spm_no> DSP <dsp_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

dsp_no is the DSP number (0 to 27)

Example response of SPM with no protection switched DSPs

SPM	0						
Prot	Gro	up: 1					
		RMID	Activity	ProtWhomID	ProtGrp	Safe to	Change?
DSP	0	23	ACTIVE	23	1		NO
DSP	1	24	ACTIVE	24	1		NO
DSP	2	25	ACTIVE	25	1		NO
DSP	3	26	INACTIVE	26	1		NO

Example response of SPM with protection switched DSPs:

SPM	0					
Prot	Gro	up: 1				
		RMID	Activity	ProtWhomID	ProtGrp	Safe to Change?
DSP	0	23	ACTIVE	25	T	NO
DSP	1	24	ACTIVE	24	1	NO
DSP	2	25	INACTIVE	26	1	NO
DSP	3	26	ACTIVE	23	1	NO

Note: In the second example above, DSP 0 was protection switched with the spare DSP (DSP 3), then DSP 2 (currently inactive) was protection switched with DSP 0. To get the DSPs in the proper state, first protection switch DSP 0 with DSP 2 and then protection switch DSP 3 with DSP 0.

2 Post the SPM by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

Example of MAP display

 SPM
 0
 InSv
 Loc:
 Site
 HOST
 Floor
 1
 Row AA
 FrPos
 0

 Shlf0
 SL
 A
 Stat
 Shlf0
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat

 ---- 1
 --- CEM
 1
 8
 A
 InSv
 ---- 1
 --- 8

 ---- 2
 --- OC3
 0
 9
 A
 InSv
 ---- DSP
 0
 9
 A
 InSv

 ---- 3
 --- OC3
 1
 10
 I
 InSv
 ---- DSP
 1
 0
 A
 InSv

 ---- 4
 ---- VSP
 3
 11
 A
 InSv
 VSP
 DSP
 1
 A
 InSv

 ----- 5
 ---- VSP
 1
 A
 InSv
 VSP
 5
 A
 <

Note: In this example DSP 3 in slot 12 of shelf 1 is the spare DSP and Inactive (I)

3 Select a DSP assigned to the SPM being modified by typing

>SELECT DSP <dsp_no>

and pressing the Enter key.

where

dsp_no

is the DSP number (0 to 27)

Enter the protection level of the MAP by typing>PROT

and pressing the Enter key.

Example of MAP display

SPM 0 InSv		
Prot Grp: DSP_GRP 1	Mode: Non-revertive Sche	ma: m_for_n
ShO U R A Stat ShO	J R A Stat Sh1 U R A Stat	Shl U R A Stat
1 8 -	1	8
2 9 -	2	9 0 W A InSv
3 10 -	3	10 1 W A InSv
4 11 -	4	11 2 W A InSv
5 12 -	5	12 3 S I InSv
6 13 -	б	13
7 14 -	7	14

Note: In the example above, DSP 3 in slot 12 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).

5 Determine there are any working DSPs that are protection switched using the results from the SPMRESMAN command in Procedure 1.

lf	Do
no working DSP is protection switched	Procedure 10
any working DSP is protection switched	Procedure 6

6 Using the information gathered during Procedure 1, protection switch the DSP, indicated by the ProtWhomID field of the currently Inactive DSP, with the Inactive DSP by typing

>MANUAL <prot_dsp> <inactive_dsp>

and pressing the Enter key.

where

prot_dsp

is the number of the DSP in the inactive DSP's ProtWhomID field from Procedure 1

inactive_dsp

is the number of an inactive DSP

Example

>MANUAL 3 0

7 Confirm the protection switch by typing

>Y

8 Determine the Protection status of the DSPs assigned to the SPM being modified by typing

>SPMRESMAN SPM <spm_no> DSP <dsp_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

dsp_no

is the DSP number (0 to 27)

9 Using the output of Procedure 8, verify that the RMID and the ProtWhomID fields are the same number for each of the DSPs.

If the SPM has	Do
any protection switched DSPs	Procedure 6
no protection switched DSPs	Procedure 16

10 Ensure that the inactive DSP is the Spare. Then protection switch the inactive DSP with one of the active DSPs by typing

>MANUAL <active_dsp> <inactive_dsp>

and pressing the Enter key.

where

active_dsp

is the number of an active DSP from Procedure 2

inactive_dsp

is the number of the inactive DSP

Example

>MANUAL 0 3

11 Confirm the protection switch by typing

>Y

Example of MAP display

SPM 0 InSv			
Prot Grp: DSP_GRI	P 1 Mode: Non	-revertive Sch	iema: m_for_n
Sh0 U R A Stat	ShO U R A Stat	Sh1 U R A Stat	Sh1 U R A Stat
1	8	1	8
2	9	2	9 0 W I InSv
3	10	3	10 1 W A InSv
4	11	4	11 2 W A InSv
5	12	5	12 3 S A InSv
б	13	б	13
7	14	7	14

- 12 Verify that the DSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 11, DSP 0 in slot 9 of the upper shelf is now inactive ("I" under the 'A' column) and the spare DSP ("S" under the 'R' column) is now active.
- **13** Protection switch back to the original DSP by typing

>MANUAL <spare_dsp> <inact_dsp>

and pressing the Enter key.

where

spare_dsp

is the number of the newly active DSP

inact_dsp

is the number of the previously active DSP from Procedure 10

Example

>MANUAL 3 0

14 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

SPM 0 InSv			
Prot Grp: DSP_GP	AP 1 Mode: Non-re	evertive Sch	ema: m_for_n
ShO U R A Stat	ShO U R A Stat	Sh1 U R A Stat	Sh1 U R A Stat
1	8	1	8
2	9	2	9 0 W A InSv
3	10	3	10 1 W A InSv
4	11	4	11 2 W A InSv
5	12	5	12 3 S I InSv
б	13	б	13
7	14	7	14

15 Verify that the DSP performed the protection switch by viewing the MAP display screen. In the example in Procedure 14, DSP 3

in slot 9 of the upper shelf is now inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).

16 lf Do Procedure 17 the spare DSP needs to be changed to a working DSP the new DSP will be added as a Procedure 27 working DSP 17 Exit the PROT level by typing >QUIT and pressing the Enter key. 18 If re-allocating the resources or islands on the remaining DSPs is required, perform the appropriate procedures and return to this step. 19 Verify that the remaining DSPs are functioning properly. 20 Select the spare DSP by typing >SELECT DSP <spare_dsp> and pressing the Enter key. where spare_dsp is the number of a spare DSP 21 Busy the spare DSP by typing >BSY and pressing the Enter key. 22 Offline the spare DSP by typing >OFFL and pressing the Enter key. 23 Select a working DSP to be deleted by typing >SELECT DSP <dsp_no> and pressing the Enter key. where dsp_no is the number of an active DSP

24 Busy the DSP by typing

>BSY FORCE

and pressing the Enter key.

25 Offline the DSP by typing >OFFL

and pressing the Enter key.

- 26 Repeat Steps 23 through 25 for each DSP to be removed.
- 27 Exit to the CI level of the MAP by typing

>QUIT ALL

and pressing the Enter key.

At the equipment frame

- **28** Remove the DSP RM(s) from the appropriate slot (s)
 - *Note:* Leave the DSP located after the last in-service DSP assigned in its original slot. It will be used as the spare DSP.
- **29** Insert an NLTX60AA filler module in each unoccupied slot on the frame.

At the MAP level

30 Access table MNCKTPAK by typing

>TABLE MNCKTPAK

and pressing the Enter key.

31 Position on the DSP to be deleted by typing

>POS SPM <spm_no> <shelf_no> <slot_no>

and pressing the Enter key.

where

```
spm_no
is the SPM number (0 to 63)
shelf_no
is the shelf number (0 or 1)
slot_no
is the slot number (1 to 14)
Example
>POS 0 1 12
```

32 Remove the tuple by typing

>DEL

and pressing the Enter key.

33 Confirm the deletion by typing

>Y

and pressing the Enter key.

Note: You will receive a warning about the last inactive unit in the DSP protection group when deleting the spare DSP. This warning can be ignored, as a new spare DSP will be added in Procedure 35.

- **34** Repeat Steps 31 through 33 for each DSP being deleted.
- **35** Re-add the spare DSP to the slot located after the last inservice DSP by performing the following steps.
 - **a** Begin the table addition by typing

>ADD

and pressing the Enter key.

b Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table MNCKTPAK.

>ADD
CPKKEY:
>SPM 0 1 11
CPKTYPE:
>DSP
UNITNO:
>3
DSPGRPID:
>1
WKRSPR:
>SPARE
RSRTYPE:
>COT 12

RSRTYPE:

>DTMF 12

RSRTYPE:

>\$

ALRMCTRL:

>SYSB CR RPT

ALRMCTRL:

>MANB MJ RPT

ALRMCTRL:

>ISTB MN RPT

ALRMCTRL:

>PROTFAIL CR RPT

ALRMCTRL:

>\$

PEC:

>NTLX65BA

RELEASE:

>01

LOAD:

>DSP16CK

TUPLE TO BE ADDED:

SPM0111DSP31SPARE (COT12) (DTMF12)\$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MNRPT) (PROTFAIL CR RPT)\$ NTLX65BA01DSP16CK

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

Note: This step should only serve as an example. The actual datafill should be identical to the previous datafill of the DSP.

36 Exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

37 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no is the SPM number (0 to 63)

Example of MAP display

 SPM
 0
 InSv
 Loc: Site
 HOST
 Floor
 1
 Row AA
 FrPos
 0

 Shlf0
 SL A Stat
 Shlf0
 SL A Stat
 Shlf1
 SL A Stat

 ---- 1
 CEM 1
 8
 A
 InSv
 1
 8

 ---- 2
 OC3
 0
 9
 A
 InSv
 DSP
 0
 9
 A
 InSv

 ---- 3
 OC3
 1
 0
 I
 InSv
 DSP
 0
 9
 A
 InSv

 ---- 3
 OC3
 1
 0
 I
 InSv
 DSP
 0
 9
 A
 InSv

 ---- 4
 VSP
 3
 11
 A
 InSv
 VSP
 4
 A
 InSv

38 Select the new spare DSP by typing

>SELECT DSP <spare_dsp>

and pressing the Enter key.

where

spare_dsp

is the number of the DSP added in Procedure 35

39 Busy the DSP by typing

>BSY

and pressing the Enter key.

40 Perform a RESETMOD on the DSP by typing

>RESETMOD FW

and pressing the Enter key.

41 Load the DSP with the DSP software load by typing >LOADMOD

and pressing the Enter key.

42 Return the DSP to service by typing >RTS

- **43** Verify that the DSPs are functioning properly. Monitor logs and the SPM for five minutes. If any problems arise, contact your next level of support.
- 44 Access the PROT level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

 SPM 0 ISTb Prot Grp: DSP_GRP 1 Mode: Non-revertive Schema: m_for_n

 Sh0 U R A Stat Sh0 U R A Stat Sh1 U R A Stat Sh1 U R A Stat

 1 -- - - - --- 8 --- 1 -- - - - 8 -- - --

 2 -- - - --- 9 -- - 2 -- - - 9 0 W A InSv

 3 -- - - --- 10 -- - - --- 3 -- - --- 10 1 W A InSv

 4 -- - - ---- 11 -- - - --- 4 -- - --- 11 2 S I InSv

 5 -- - --- 12 -- - --- 5 -- --- 12 -- ---- 13 -- ---

 6 -- - ---- 13 -- ---- 14 -----

 7 ------ 14 ------ 7 -----

45 Determine if the spare DSP is also inactive.

Note: In the example above, DSP 4 in slot 11 of the upper shelf is inactive ("I" under the 'A' column) and is the spare DSP ("S" under the 'R' column).

46 Protection switch an active DSP with the inactive spare DSP by typing

>MANUAL <active_dsp> <spare_dsp>

and pressing the Enter key.

where

active_dsp

is the number of an active DSP

spare_dsp

is the number of the inactive spare DSP

Example

>MANUAL 0 2

47 Confirm the protection switch by typing

>Y

and pressing the Enter key.

48 Protection switch from the spare DSP back to the newly inactive DSP by typing

>MANUAL <spare_dsp> <inactive_dsp>

where

spare_dsp

is the number of the spare DSP

inactive_dsp is the number of the newly inactive DSP

Example

>MANUAL 2 0

49 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL



Configuration management procedures

De-provisioning an SRM

At the MAP level

1 Access table SYNCLK by typing >TABLE SYNCLK

and pressing the Enter key.

2 List the tuples in the table by typing

>LIST ALL

and pressing the Enter key.

Example of a MAP screen:

CLKKEY CLKDATA					OI	FCI	DATA		
0	STRAT3	SLAVE	SPM	30	SRM	SPM	32	SRM	

3

If the SRM you are removing	Do
appears in the table	Procedure 4
does not appear in the table	Procedure 20

4 Drop synchronization on the MS clock by performing the following sequence of commands:

>MAPCI;MTC;MS;CLOCK;DPSYNC

This action will degrade SPM OC-3 SYNC performance. Do you wish to continue? Request to Drop Syncronization on Clock 1: Submitted

Request to Drop Synchronization on Clock 1: Passed

>QUIT ALL

5 Return to table SYNCLK by typing

>TABLE SYNCLK

and pressing the Enter key.

6

If you are changing the timing con-	Do	
figuration to		

Master-external	Procedure 7
Master-internal	Procedure 8
OC3 line timing	Procedure 9
Slave	Procedure 10

- 7 Change the timing configuration from ESI timing to Master-external by performing the following steps:
 - **a** Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from ESI to Master-external timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
CLKTYPE: STRAT3
>
OFFCONF: SLAVE
>MASTEXT
EXTFREO:

>F1000

EXTSEL:

>ANALOG

EXTTERM:

>T50

EXTALARM:

>OFF

Perform a BUSY (BSYMS) and RTS (RTSMS) without OOBAND option to each MS to setup the new clock configuration.

TUPLE TO BE CHANGED:

0 STRAT3 MASTEXT F1000 ANALOG T50 OFF

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE CHANGED

- **c** Go to Procedure 11.
- 8 Change the timing configuration from ESI timing to Master-internal by performing the following steps:
 - **a** Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from ESI to Master-internal timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

CLKTYPE: STRAT3

>

OFFCONF: SLAVE

>MASTINT

Perform a BUSY (BSYMS) and RTS (RTSMS) without OOBAND option to each MS to setup the new clock configuration.

TUPLE TO BE CHANGED:

0 STRAT3 MASTINT

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE CHANGED

- c Go to Procedure 11.
- **9** Change the timing configuration from ESI timing to OC3 line timing by performing the following steps:
 - a Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from ESI to OC3 line timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

>

CLKTYPE: STRAT3

OFFCONF: SLAVE

JFFCONF• SLAVE

>

LKO_PTYP:SPM

>

LKO_PNUM:2

>32

LK0_RMTYP:SRM

>0C3

LK1_PTYP:SPM

>

LK1_PNUM:3

>33

LK1_RMTYP:SRM

>0C3

Perform a BUSY (BSYMS) and RTS (RTSMS) without OOBAND option to each MS to setup the new clock configuration.

TUPLE TO BE CHANGED:

0 STRAT3 SLAVE SPM 32 OC3 SPM 33 OC3 ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE CHANGED

- c Go to Procedure 11.
- **10** Change the timing configuration from ESI timing to Slave by performing the following steps:
 - a Begin the table change by typing

>CHA

and pressing the Enter key.

b Modify the tuple as needed.

Example

This example changes the timing mode from ESI to slave timing.

>CHA

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
CLKTYPE: STRAT3
>
OFFCONF: SLAVE
>
LK0_PTYP:
>DTC

92

```
LK0_PNUM:
           >0
           LK0_CCT:
           >0
           LK0_REG:
           >0
           LK1_PTYP:
           >DTC
           LK1_PNUM:
           >1
           LK1 CCT:
           >0
           LK1_REG:
           >0
           Perform a BUSY (BSYMS) and RTS (RTSMS)
           without OOBAND option to each MS to setup
           the new clock configuration.
           TUPLE TO BE CHANGED:
           0 STRAT3 SLAVE DTC 0 0 0 DTC 1 0 0
           ENTER Y TO CONFIRM, N TO REJECT OR E TO
           EDIT.
           >Y
           TUPLE CHANGED
     c Go to Procedure 11.
11
     Access the MS clock by typing
     >MAPCI;MTC;MS
     and pressing the Enter key.
12
     Busy the slave MS by typing
     >BSY <slave_ms>
     and pressing the Enter key.
     where
        slave ms
          is the number of the slave MS
```

Note: The SYNC command may take several minutes to complete.

20 Return to the MAP level by typing

>QUIT ALL

and pressing the Enter key.

21 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the number of the SPM to modify (0 to 85)

Example of a MAP screen:

 SPM
 31
 ISTb
 Loc: Site HOST Floor
 1 Row P FrPos
 2

 Shlf1
 Sl A Stat
 Shlf1
 Sl A Stat
 Shlf2
 Sl A Stat
 Shlf2
 Sl A Stat
 Shlf2
 Sl A Stat

 DSP
 2
 1 A Insv CEM
 1 8
 I Insv VSP
 2
 1 A Insv
 --- 8

 DSP
 4
 2 A Insv OC3
 0
 9
 A Insv
 --- 2
 ---- VSP
 6
 9
 A Insv

 --- 3
 I Insv OC3
 1
 10
 I Insv
 --- 3
 ---- 10

 --- 4
 I Insv
 --- 4
 ---- 11

 --- 5
 ---- 12
 ---- 5
 ---- 12

 SRM
 6
 A ISTb
 -- 13
 A Insv
 -- 6
 ---- 13

 CEM
 0
 7
 A Insv
 VSP
 4
 14
 A Insv
 --- 14

22 Select the SRM by typing

>SELECT SRM 0

and pressing the Enter key.

Example of a MAP screen:

SPM 31 SRM 0 Act InSv Interface: Loc : Row B FrPos 6 ShPos 6 ShId 0 Slot 6 Prot Grp : 1 Default Load: SYN16BF Prot Role: Working

23 Access the BITS level by typing

>BITS

and pressing the Enter key.

Example of MAP display

SPM 2	SRM 0				
LinkNo	BitsName	Status	State	SSM	AlmSev
0	BITSA	Act	InSv	NIL	
1	BITSB	InAct	InSv	NIL	
2	BITSOUT		Uneq	NIL	

Busy the links by typing	
>BSY <link_no></link_no>	
and pressing the Enter key.	
where	
link_no	
is the link number (0 or 1	1)
Offline the links by typing	
>OFFL <link_no></link_no>	
and pressing the Enter key.	
where	
link_no is the link number (0 or <i>1</i>	1)
Repeat Steps 24 and 25 for each	,
Return to the SRM level by typ	
>QUIT	
and pressing the Enter key.	
and pressing the Litter Ney.	
Determine the state of the SRI	M by looking at the final column of dure 22. Do
Determine the state of the SRI the first row of ouput in Proce	dure 22.
Determine the state of the SRI the first row of ouput in Procee If the SRM state is	dure 22.
Determine the state of the SRI the first row of ouput in Procee If the SRM state is	dure 22. Do Procedure 29
Determine the state of the SRI the first row of ouput in Procee If the SRM state is INSV MANB	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Procee If the SRM state is INSV MANB OFFL	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY and pressing the Enter key.	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY and pressing the Enter key. Offline the SRM by typing	dure 22. Do Procedure 29 Procedure 30
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY and pressing the Enter key. Offline the SRM by typing >OFFL	dure 22. Do Procedure 29 Procedure 30 Procedure 31
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY and pressing the Enter key. Offline the SRM by typing >OFFL and pressing the Enter key.	dure 22. Do Procedure 29 Procedure 30 Procedure 31
Determine the state of the SRI the first row of ouput in Proceed If the SRM state is INSV MANB OFFL Busy the SRM by typing >BSY and pressing the Enter key. Offline the SRM by typing >OFFL and pressing the Enter key. Exit to the CI level olf the MAF	dure 22. Do Procedure 29 Procedure 30 Procedure 31

32 Access table MNCKTPAK by typing

>TABLE MNCKTPAK

and pressing the Enter key.

33 Position on the SRM tuple by typing

>POS SPM <spm_no> 0 6

and pressing the Enter key.

where

spm_no

is the number of the SPM (0 to 63)

Example of a MAP screen:

SPM 32 0 6 SRM 0 1 WORKING (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (HLDOVR MJ RPT) (HLDOVR24 CR RPT) (LOR MJ RPT) \$ (LOS CR RPT) (AIS MJ RPT) (OOF MJ RPT) (MTIE MN RPT) (TLD MJ RPT) (BPV MN RPT) (CRC MN RPT) \$ DS1 ESF DS1 ESF \$ NA N NTLX44AA 01 SYN16BF

34 Remove the tuple from datafill by typing

>DELETE

and pressing the Enter key.

35 Confirm the removal by typing

and pressing the Enter key.

36 Exit the table by typing >QUIT

and pressing the Enter key.

37 Access table MNPRTGRP by typing

>TABLE MNPRTGRP

and pressing the Enter key.

38 Position on the SRM protection group tuple by typing >POS SPM <spm_no> SRM_GRP 1 Example of a MAP screen:

SPM 32 SRM_GRP 1 SRM_GRP NRVTV UNSPARED

39 Remove the tuple by typing **>DELETE**

and pressing the Enter key.

40 Confirm the removal by typing >Y

and pressing the Enter key.

41 Exit the table by typing >QUIT

and pressing the Enter key.

42 Access table MNNODE by typing

>TABLE MNNODE

and pressing the Enter key.

43 Position on the SPM being modified by typing

>POS SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the number of the SPM (0 to 63)

Example of a MAP screen:

SPM 31 0D2 DMSCP 1 SYNC INTERNAL 15 (COT 60) (DTMF 60) (ECAN 60) (TONESYN 60) (MF 60) \$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (SYSBNA CR RPT) (MANBNA MJ RPT) (COTLOW MN RPT) (DTMFLOW MN RPT) (ECANLOW MN RPT) (TONESLOW MN RPT) (MFLOW MN RPT) (CMRLOW MN RPT) \$ \$

44 Depending on the newl timing configuration, it may or may not be necessary to modify this tuple.

ocedure 45
ocedure 47

45 Begin table modification by typing

>CHA

and pressing the Enter key.

46 For each unchanged prompt, press the Enter key. The only value entered in this step should be the new value.

Example

98

This example changes the timing mode from INTERNAL to LOOP. >CHA ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y ALIAS: 0D2 > CLASS: DMSCP > FLOOR: 1 > CLKMODE: SYNC > CLKREF: INTERNAL >LOOP LEDTIMER: 15 > RSRUTLIM: COT 60 > RSRUTLIM: DTMF 60 > RSRUTLIM: ECAN 60 > RSRUTLIM: TONESYN 60 > RSRUTLIM: MF 60 > RSRUTLIM: > ALRMCTRL: SYSB CR RPT > ALRMCTRL: MANB MJ RPT

```
>QUIT
```

>Y

>

>

>

>

>

>

>

ALRMCTRL: ISTB MN RPT

ALRMCTRL: SYSBNA CR RPT

ALRMCTRL: MANBNA MJ RPT

ALRMCTRL: COTLOW MN RPT

ALRMCTRL: DTMFLOW MN RPT

ALRMCTRL: ECANLOW MN RPT

ALRMCTRL: TONESLOW MN RPT

47

```
TUPLE CHANGED
Exit table MNNODE by typing
```

> ALRMCTRL: MFLOW MN RPT > ALRMCTRL: CMRLOW MN RPT > EXECTAB: > TUPLE TO BE CHANGED: SPM 31 0D2 DMSCP 1 SYNC LOOP 15 (COT 60) (DTMF 60) (ECAN 60) (TONESYN 60) (MF 60) \$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (SYSBNA CR RPT) (MANBNA MJ RPT) (COTLOW MN RPT) (DTMFLOW MN RPT) (ECANLOW MN RPT) (TONESLOW MN RPT) (MFLOW MN RPT) (CMRLOW MN RPT) \$ \$

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

and pressing the Enter key.

At the equipment frame

- **48** Ensure ESD precautions are utilized. Verify that ESD wrist strap is connected properly.
- **49** At the front of the SPM, disconnect the Dsub 9 pin (if attached) and 15 pin connectors from the front of the NTLX44xx in slot 6, lower shelf of the SPM being modified.
- **50** Remove the NTLX44AA from slot 6 of the lower shelf of the SPM being modified.
- 51 Insert a NTLX60AA Filler pack into slot 6 of the lower shelf of the SPM being modified.
- 52 If required, unwrap the transmit and receive leads, for the BITSA and BITSB timing sources, from the terminal strip of the NTLX5110 cable assembly. Remove any additional leads connected to the terminal strip. Use electrical tape to insulate the leads.
- **53** If required, remove from the frames and rack, the cables running from the timing sources to the SPM.
- **54** If required, remove the mounting screws securing the terminal strip to the SPME frame and remove the NTLX5110 cable assembly from the frame.
- 55 You have completed this procedure.



Configuration management procedures

De-provisioning a VSP RM

At the MAP level

1

If you are deleting	Do
all VSPs	Remove all ECAN options in table TRKSGRP from trunk sub-groups assigned to the SPM being modifed.
one or more VSPs (but not all)	Modify table TRKSGRP so that the number of trunk sub-groups requiring the ECAN option does not overload the remaining VSPs.

2 Determine the Protection status of the VSPs assigned to the SPM being modified. Verify that the RMID and the ProtWhomID fields are the same number for each of the VSPs by typing

>SPMRESMAN SPM <spm_no> VSP <vsp_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

vsp_no

is the VSP number (0 to 27)

Example response of SPM with no protection switched VSPs

SPM	0						
Prot	Gro	up: 1					
		RMID	Activity	ProtWhomID	ProtGrp	Safe to	Change?
VSP	0	14	ACTIVE	14 1		NO	
VSP	1	13	ACTIVE	13 1		NO	
VSP	2	12	ACTIVE	12 1		NO	
VSP	3	11	ACTIVE	11 1		NO	
VSP	4 1	9 INAC	CTIVE 19 1	NO			

Example response of SPM with protection switched VSPs:

SPM	0						
Prot	Gro	up: 1					
		RMID	Activity	ProtWhomID	ProtGrp	Safe to	Change?
VSP	0	14	ACTIVE	11 1		NO	
VSP	1	13	ACTIVE	13 1		NO	
VSP	2	12	ACTIVE	11 1		NO	
VSP	3	11	INACTIVE	19 1		NO	
VSP	4	19	ACTIVE	14 1 NO			

Note: In the second example above, VSP 0 was protection switched with the spare VSP (VSP 4), then VSP 3 (currently inactive) was protection switched with VSP 0. To get the VSPs in the proper state, first protection switch VSP 0 with VSP 3 and then protection switch VSP 4 with VSP 0.

3 Post the SPM by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

```
spm_no
```

is the SPM number (0 to 63)

Example of MAP display

 SPM
 0
 InSv
 Loc:
 Site
 HOST
 Floor
 1
 Row AA
 FrPos
 0

 Shlf0
 SL
 A
 Stat
 Shlf0
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat

 ---- 1
 --- 0C3
 0
 9
 A
 InSv
 ---- 2
 --- 8

 ---- 2
 --- 0C3
 0
 9
 A
 InSv
 ---- 2
 --- NSP
 9
 A
 InSv

 ---- 3
 --- 0C3
 1
 1
 InSv
 ---- 3
 --- VSP
 1
 0
 A
 InSv

 ---- 4
 ---- VSP
 3
 11
 A
 InSv
 VSP
 VSP
 1
 A
 InSv
 Nov
 VSP
 1
 A
 InSv
 InSv
 Sot
 1
 <t

Note: In this example VSP 3 in slot 12 of shelf 1 is the spare VSP and Inactive (I)

>SELECT VSP <vsp_no>

and pressing the Enter key.

where

vsp_no

is the VSP number (0 to 27)

5 Enter the protection level of the MAP by typing

>PROT

and pressing the Enter key.

Example of MAP display

```
SPM 0 ISTb
```

Prot Grp: VSP_GRP 1 Mode: Non-revertive Schema: m_for_n ShO U R A Stat ShO U R A Stat Sh1 U R A Stat Sh1 U R A Stat 1 -- - - ----8 -- - - ----1 -- - - ----8 -- - - ----2 -- - 9 -- - ---- 2 -- - ---- 9 -- - ----3 -- - - ----10 -- - - ----3 -- - - ----10 -- - - ----4 -- - - ---- 11 3 W A InSv 4 -- - - ---- 11 -- - - ----5 -- - - ----12 2 W A InSv 5 4 S I InSv 12 -- - - ----6 -- - - --- 13 1 W A InSv 6 -- - - --- 13 -- - ----7 -- - - ----14 0 W A InSv 7 -- - - ----14 -- - - ----

Note: In the example above, VSP 4 in slot 5 of the upper shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

6 Determine there are any working VSPs that are protection switched using the results from the SPMRESMAN command in Procedure 2.

lf	Do
no working VSP is protection switched	Procedure 11
any working VSP is protection switched	Procedure 7
Jsing the information gatheres witch the VSP, indicated by t currently Inactive VSP, with th	
MANULAL COROL WEDS Sir	

```
>MANUAL <prot_vsp> <inactive_vsp>
```

and pressing the Enter key.

where

7

prot_vsp

is the number of the VSP in the inactive VSP's ProtWhomID field from Procedure 2

inactive_vsp

is the number of an inactive VSP

Example

>MANUAL 4 0

8 Confirm the protection switch by typing

>Y

and pressing the Enter.

9 Determine the Protection status of the VSPs assigned to the SPM being modified by typing

>SPMRESMAN SPM <spm_no> VSP <vsp_no>

and pressing the Enter key.

where

```
spm_no
```

is the SPM number (0 to 63)

```
vsp_no
```

is the VSP number (0 to 27)

10 Using the output of Procedure 9, verify that the RMID and the ProtWhomID fields are the same number for each of the VSPs.

If the SPM has	Do
any protection switched VSPs	Procedure 6
no protection switched VSPs	Procedure 17

11 Ensure the inactive VSP is the spare. Then protection switch it with an active VSP by typing

>MANUAL <active_vsp> <spare_vsp>

and pressing the Enter key.

where

active_vsp

is the number of an active VSP

spare_vsp

is the number of the spare VSP

Example

MANUAL 0 3

12 Confirm the protection switch by typing

>Y

and pressing the Enter key.

Example of MAP display

 SPM
 0
 ISTb

 Prot Grp:
 VSP_GRP 1
 Mode:
 Non-revertive
 Schema:
 m_for_n

 Sh0 U R A Stat
 Sh0 U R A Stat
 Sh1 U R A Stat

 1
 - --- 8
 - ---

 2
 - --- 1
 - ---

 3
 --- 9
 - --- 8

 3
 --- 1
 - --- 8

 4
 --- 3
 ---- 10
 - ----

 5
 11
 3
 S
 A InSv
 5
 11

 6
 13
 1
 W A InSv
 6
 13

13 Verify the VSP performed the protection switch by viewing the MAP display from Procedure 12.

Note: In the example above, VSP 3 in slot 11 of the lower shelf is active ("A" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

14 Protection switch back to the orginal VSP by typing

>MANUAL <spare_vsp> <inactive_vsp>

and pressing the Enter key.

where

spare_vsp is the number of the spare VSP

inactive_vsp

is the number of the previously active VSP

Example

>MANUAL 3 0

15 Confirm the protection switch by typing

>Y

Example of MAP display

SPM	I O ISTD
Pr	ot Grp: VSP_GRP 1 Mode: Non-revertive Schema: m_for_n
	10 U R A Stat ShO U R A Stat ShI U R A Stat ShI U R A Stat
	8 8 1 8 8 9 2 9
	3
	11 3 S I InSv 4 11
	5 12 2 W A InSv 5 12
	5 13 1 W A InSv 6 13 7 14 0 W A InSv 7 14
/	2 14 0 W A InSv 7 14
16	Verify the VSP performed the protection switch by viewing the MAP display from Procedure 15.
	<i>Note:</i> In the example above, VSP 3 in slot 11 of the lower shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).
17	Exit the PROT level of the map by typing
	>QUIT
	and pressing the Enter key.
18	Select the spare VSP for the SPM being modified by typing
	>SELECT VSP <spare_vsp></spare_vsp>
	and pressing the Enter key.
	where
	<pre>spare_vsp is the number of the spare VSP</pre>
19	Busy the spare VSP for the SPM being modified by typing
	>BSY
	and pressing the Enter key.
20	Offline the VSP for the SPM being modified by typing
	>OFFL
	and pressing the Enter key.
21	Select a VSP to be removed by typing
	>SELECT VSP <vsp_no></vsp_no>
	and pressing the Enter key.
22	Busy the selected VSP by typing

22 Busy the selected VSP by typing >BSY

	and pressing the Enter key.
23	Offline the selected VSP by typing
	>OFFL
	and pressing the Enter key.
24	Repeat Steps 21 through 23 for each VSP to be removed.
25	Exit to the CI level of the MAP by typing
	>QUIT ALL
	and pressing the Enter key.
26	Access table MNCKTPAK by typing
	>TABLE MNCKTPAK
	and pressing the Enter key.
27	Position on the spare VSP by typing
	>POS SPM <spm_no> <shelf_no> <slot_no></slot_no></shelf_no></spm_no>
	and pressing the Enter key.
	where
	spm_no is the SPM number (0 to 63)
	<pre>shelf_no is the shelf number (0 or 1)</pre>
	slot_no is the slot number (1 to 14)
	Example
	>POS SPM 0 1 5
28	Delete the tuple for the spare DSP by typing
	>DEL
	and pressing the Enter key.
29	Confirm the deletion by typing
	>¥
	and pressing the Enter key.
30	Position on the VSP to be removed by typing
	>POS SPM <spm_no> <shelf_no> <slot_no></slot_no></shelf_no></spm_no>
	and pressing the Enter key.
	where

.

spm_no is the SPM number (0 to 6	3)
shelf_no is the shelf number (0 or 1)
slot_no is the slot number (1 to 14)
Example	
POS SPM 0 0 11	
Delete the tuple for the VSP by	typing
>DEL	
and pressing the Enter key.	
Confirm the deletion by typing	
>Y	
and pressing the Enter key.	
Repeat Steps 30 through 32 for	each VSP to be deleted.
If you are removing	
ii you are removing	Do
all VSPs from the SPM being modified	Do Procedure 39
all VSPs from the SPM being	Procedure 39
all VSPs from the SPM being modified one or more (but not all) VSPs from	Procedure 39 Procedure 35
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the ney last assigned working VSP.	Procedure 39 Procedure 35 At available slot position after the
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the new	Procedure 39 Procedure 35 At available slot position after the
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the ney last assigned working VSP. Begin the table addition by typin	Procedure 39 Procedure 35 At available slot position after the
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the ney last assigned working VSP. Begin the table addition by typin >ADD	Procedure 39 Procedure 35 At available slot position after the
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the ney last assigned working VSP. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with	Procedure 39 Procedure 35 At available slot position after the
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the new last assigned working VSP. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with the table range.	Procedure 39 Procedure 35 At available slot position after the g the required datafill provided by
all VSPs from the SPM being modified one or more (but not all) VSPs from the SPM being modified Re-add the spare VSP to the nex last assigned working VSP. Begin the table addition by typin >ADD and pressing the Enter key. Answer each of the prompts with the table range. Example	Procedure 39 Procedure 35 At available slot position after the g the required datafill provided by

>SPM 0 0 11

>ECAN 260 RSRTYPE: >\$ ALRMCTRL: >SYSB CR RPT ALRMCTRL: >MANB MJ RPT ALRMCTRL: >ISTB MN RPT ALRMCTRL: >PROTFAIL CR RPT ALRMCTRL: >\$ PEC: >NTLX66BA RELEASE: >01 LOAD: >DSP16CK TUPLE TO BE ADDED: SPM 0 0 11 VSP 3 1 WORKING (ECAN 260) \$ (SYSB CR RPT) (MANB MJ RPT) (ISTB MN RPT) (PROTFAIL CR RPT) \$ NTLX66BA 01 DSP16CK ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

CPKTYPE:

UNITNO:

VSPGRPID:

WKRSPR:

RSRTYPE:

>VSP

>3

>1

>Y

TUPLE ADDED

Note 1: The NTLX66AA and NTLX66BA VSPs can have 1 to 260 ECAN resources assigned. The NTLX85AA and NTLX86AA can have 1 to 336 ECAN resources assigned.

Note 2: The DSP load contains the NTLX66AA and NTLX66BA VSP, as well as the DSP software.

Note 3: The NLTX85AA and NTLX86AA use the COH load.

38 Exit table MNCKTPAK by typing

>QUIT

and pressing the Enter key.

At the equipment frame

39 At the front of the SPM being modified, remove the VSP RM(s) from the appropriate slot(s).

Note: Do not remove the VSP RM to be used as the spare VSP from its slot.

40 Insert NTLX60AA filler packs into the appropriate slots.

At the MAP level

41 Post the SPM being modified by typing

>MAPCI;MTC;PM;POST SPM <spm_no>

and pressing the Enter key.

where

spm_no

is the SPM number (0 to 63)

Example of MAP display

 SPM
 #
 InSv
 Loc:
 Site
 HOST Floor
 1
 Row AA FrPos
 0

 Shlf0
 SL
 A
 Stat
 Shlf0
 SL
 A
 Stat
 Shlf1
 SL
 A
 Stat</td

Note: In the above example, VSP 3 was re-added as the spare VSP.

42	Select the spare VSP by typing
	>SELECT VSP <spare_vsp></spare_vsp>
	and pressing the Enter key.
	where
	spare_vsp is the number of the spare VSP
43	Busy the spare VSP by typing
-10	>BSY
	and pressing the Enter key.
44	Perform a RESETMOD on the spare VSP by typing
	>RESETMOD FW
	and pressing the Enter key.
45	Load the spare VSP with its software by typing
	>LOADMOD
40	and pressing the Enter key.
46	Return the spare VSP to service by typing
	>RTS
	and pressing the Enter key.
47	Verify that the VSPs are all functioning properly. Allow five minutes before proceeding to the next step.
48	Return to the SPM level by typing
	>QUIT
	and pressing the Enter key.
_	
Exar	mple of MAP display
SPM	
VSE	2 8 3 I InSv OC3 1 10 I InSv 3 DSP 1 10 A InSv 2 6 4 A InSv VSP 3 11 I InSv 4 DSP 2 11 A InSv
	5 VSP 2 12 A InSv 5 DSP 3 12 A InSv
	6 VSP 1 13 A InSv 6 DSP 4 13 A InSv
CEM	4 0 7 I InSv VSP 0 14 A InSv 7 VSP 7 14 A InSv
49	Select the VSPs assigned to the SPM being modified by typing
	SSET.FOT VSD ALL

>SELECT VSP ALL

and pressing the Enter key.

50 Enter the PROT level of the MAP by typing >PROT

and pressing the Enter key.

Example of MAP display

SPM # ISTb		
Prot Grp: VSP_	GRP 1 Mode: Non-revertive Schema: m_for_n	
ShO U R A Stat	ShO U R A Stat ShI U R A Stat ShI U R A Sta	t
1	8 1	-
2	9 2 9	-
3	10 3 10	-
4	11 3 S I InSv 4 11	-
5	12 2 W A InSv 5 12	-
б	13 1 W A InSv 6 13	-
7	14 0 W A InSv 7 14	-

51 Determine if the spare VSP is also inactive using the MAP display from Procedure 50.

Note: In the example above, VSP 3 in slot 11 of the lower shelf is inactive ("I" under the 'A' column) and is the spare VSP ("S" under the 'R' column).

52 Protection switch an active VSP with the spare VSP by typing

>MANUAL <active_vsp> <spare_vsp>

and pressing the Enter key.

where

active_vsp

is the number of an active VSP

spare_vsp

is the number of the spare VSP

Example

>MANUAL 0 3

53 Confirm the protection switch by typing

>Y

and pressing the Enter key.

54 Protection switch back from the spare VSP to the currently inactive VSP by typing

>MANUAL <spare_vsp> <inactive_vsp>

and pressing the Enter key.

where

spare_vsp

is the number of the spare VSP

inactive_vsp

is the number of the newly inactive VSP

Example

>MANUAL 3 0

55 Confirm the protection switch by typing

>Y

and pressing the Enter key.

56 You have completed this procedure. Return to the CI level of the MAP screen by typing

>QUIT ALL

and pressing the Enter key.



Configuration management procedures

Provisioning an ISUP trunk

At the MAP level

1 Access table CLLI by typing >TABLE CLLI

and pressing the Enter key.

2 Begin the table addition by typing

>ADD

and pressing the Enter key.

3 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table CLLI. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y CLLI: >SPMISUP ADNUM: >444 TRKGRSIZ: >24 ADMININF: >SPM_ISUP_TRUNK TUPLE TO BE ADDED: ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

TUPLE ADDED

4 Exit table CLLI by typing >QUIT

and pressing the Enter key.

5 Access table TRKGRP by typing

>TABLE TRKGRP

and pressing the Enter key.

6 Begin the table addition by typing

>ADD

and pressing the Enter key.

7 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

GRPKEY:

>SPMISUP

GRPTYP:

>T2

TRAFSNO: 0

>

PADGRP: NPDGP

>

NCCLS: NCIT

>

TRAFCLS: NIL

>

SELSEQ: MIDL > DIGSOUT: 3 >0 TOLL:N > PRTNM: NPRT > SCRNCL: NSCR > SNPA: >919 STS: >919 ORIGSRCE: LCL > VDESEL: N > DIGREGEN: >N OPTION: >\$ TUPLE TO BE ADDED: SPMISUP T2 0 ELO NCRT NIL MIDL 0 N NPRT NSCR 919 LCL N N \$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table TRKGRP by typing

>QUIT

8

and pressing the Enter key.

DMS-SPM SP17

9	Access table TRKSGRP	by	typing
---	----------------------	----	--------

>TABLE TRKSGRP

and pressing the Enter key.

10 Begin the table addition by typing >ADD

and pressing the Enter key.

11 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

SGRPKEY:

>SPMISUP 0

Note: The SPM handles ABBIT freezes to 1AESS switches differently than DTCs. The ABBITs are permanently frozen 'high'. If a site has trunks going to a 1AESS from both DTCs and SPMs, then the SPM trunks in that trunk group must be in a different trunk sub-group. Another TRKSGRP must be built with a different SGRPKEY (ex: 1) for the SPM to 1AESS. See the note below for the ABCNTL field and the note below on the ADJNODE field.

CARDCODE:

>DS1SIG

SGRPVAR:

>C7UP

DIR: 2W

>

ESUPR: N

>F

SAT:

>N

ECSTAT: UNEQ

>

ABCNTL: NONE

>ACTIVEA

Note: The SPM handles ABBIT freezes to 1AESS switches differently than DTCs. The ABBITs are frozen permanently high at "1" and the ABCTL field in table TRKSGRP must be set to NONE, instead of ACTIVEA, as it is in DTCs.

If the trunk group terminates to a 1AESS switch from an SPM, the ABCNTL field must be to NONE. Also see the note above for the SGRPKEY field and the note below on the ADJNODE field.

The ABCNTL field needs to be set to NONE prior to trunk members being added to table TRKMEM and C7TRKMEM. If the field is changed after the trunk members have been added to these tables, the tuples for the trunk members will need to be deleted and readded to these two tables.

PROTOCOL:

>Q764

CONTCHK:

>THRL

COTREQ: 0

>

ADJNODE:

>ISUP

Note: The ADJNODE field will be datafilled as ESS1A if ISUP ABBIT freeze is required. See the notes on the SGRPKEY field and the ABCTL field above.

OPTION:

>\$

TMRNAME:

>NIL

GLARETYP:

>CIC

TUPLE TO BE ADDED:

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED 12 Exit table TRKSGRP by typing >QUIT and pressing the Enter key. 13 Access table TRKMEM by typing >TABLE TRKMEM and pressing the Enter key. 14 Begin the table addition by typing >ADD and pressing the Enter key. 15 Answer each of the prompts with the required datafill provided by the table range. Example This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y CLLI: >SPMISUP EXTRKNM: >1 SGRP: >0 PMTYPE: >SPM SPMNO: >16 SPMCKTNO:

SPMISUP 0 DS1SIG C7UP 2W F N UNEQ ACTIVEA Q764

THRL 10 ISUP \$ NIL CIC

>9 SPMCKTTS: >1 TUPLE TO BE ADDED: SPMISUP 1 0 SPM 16 9 1 ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table TRKMEM by typing >QUIT and pressing the Enter key. Access table ISUPDEST by typing >TABLE ISUPDEST and pressing the Enter key. Begin the table addition by typing >ADD and pressing the Enter key. Answer each of the prompts with the required datafill provided by the table range. Example This is an example of datafilling table TRKGRP. >ADD >Y DESTKEY:

16

17

18

19

>ADD
ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
DESTKEY:
>SPMISUP 0
ISUPROUT:
>C7RTESET1
TUPLE TO BE ADDED:
SPMISUP 0 C7RTESET1
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
>Y

TUPLE ADDED

20 Exit table ISUPDEST by typing

and pressing the Enter key.

21 Access table C7TRKMEM by typing >TABLE C7TRKMEM

and pressing the Enter key.

22 Begin the table addition by typing

>ADD

and pressing the Enter key.

23 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y MEMKEY: >SPMISUP 1 CIC: >444 TUPLE TO BE ADDED: SPMISUP 1 444 ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table C7TRKMEM by typing >QUIT and pressing the Enter key. You have successfully completed this procedure.

24



Configuration management procedures

Provisioning a PRI-250 trunk

At the MAP level

1 Access table CLLI by typing >TABLE CLLI

and pressing the Enter key.

2 Begin the table addition by typing

>ADD

and pressing the Enter key.

3 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table CLLI.
>ADD
ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
CLLI:
>WITS1NISPMO
ADNUM:
>126
TRKGRSIZ:
>24
ADMININF:
>WITS_NI2_SPMO
TUPLE TO BE ADDED:

WITS1NISPM0 126 24 WITS_NI2_SPM0

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

4 Exit table CLLI by typing

>QUIT

and pressing the Enter key.

5 Access table CLLICDR by typing

>TABLE CLLICDR

and pressing the Enter key.

Note: Table CLLICDR is required for PRI-250 trunks.

6 Begin the table addition by typing

>ADD

and pressing the Enter key.

7 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

CLLINAME:

>WITS1NISPM0

EXTNUM:

>126

TUPLE TO BE ADDED:

WITS1NISPM0 126

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

8 Exit table CLLICDR by typing

>QUIT

and pressing the Enter key. Access table TRKGRP by typing >TABLE TRKGRP and pressing the Enter key. Begin the table addition by typing >ADD and pressing the Enter key. Answer each of the prompts with the required datafill provided by the table range. Example This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y **GRPKEY:** >WITS1NISPM0 **GRPTYP**: >PRA250 TRAFSNO: 0 > PADGRP: NPDGP > NCCLS: NCIT > CUSTOMER: UCS > SELSEQ: MIDL > TRAFCLS: NIL > TIMEBIAS: 0 >

9

10

```
SNPA: 001
   >
  LTID
   >PRI 10
   ZONE: 0
   >
   FASTIDGT: 15
   >
  BCNAME:
   >SPEECH
  TSUSR: 160
   >
   OPTION:
   >$
  TUPLE TO BE ADDED:
   WITS1NISPMO PRA250 0 NPDGP NCIT UCS MIDL NIL
   0 001 (PRI 10) $ 0 15 SPEECH 160 $
   ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
   >Y
  TUPLE ADDED
Exit table TRKGRP by typing
>QUIT
and pressing the Enter key.
Access table TRKSGRP by typing
>TABLE TRKSGRP
and pressing the Enter key.
Begin the table addition by typing
>ADD
and pressing the Enter key.
Answer each of the prompts with the required datafill provided by
the table range.
   Example
```

12

13

14

This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y SGRPKEY: >WITS1NISPM0 0 CARDCODE: >DS1SIG SGRPVAR: >ISDN PSPDSEIZ: 15 >20 PARTDIAL: 15 >20 VERSION: >87Q931 CRLENGTH: >2 BCHNEG: N > BCHGLARE: >STAND IFCLASS: >NETWORK CONFIG: >PT_PT LOCATION: >USER SAT: N > ECSTAT: UNEQ >

TRKGRDTM: >25 L1FLAGS: N > PARMNAME: >DEFAULT PMTYPE: >SPM SPMNO: >0 SPMCKTNO: >21 SPMCKTTS: >24 DCHRATE: >64k HDLCTYPE: >HLDC PMTYPE: >\$ OPTION: >\$ TUPLE TO BE ADDED: WITS1NISPMO 0 DS1SIG ISDN 20 20 87Q931 2 N STAND NETWORK PT_PT USER N UNEQ 25 N DEFAULT SPM 0 21 24 64K HDLC \$ \$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table TRKSGRP by typing

>QUIT

and pressing the Enter key.

DMS-SPM SP17

Access table TRKMEM by typing
>TABLE TRKMEM
and pressing the Enter key.
Begin the table addition by typing
>ADD
and pressing the Enter key.
Answer each of the prompts with the required datafill provided by the table range.
Example
This is an example of datafilling table TRKGRP.
>ADD
ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
CLLI:
>WITS1NISPM0
EXTRKNM:
>1
SGRP:
>0
PMTYPE:
>SPM
SPMNO:
>0
SPMCKTNO:
>21
SPMCKTTS:
>1
TUPLE TO BE ADDED:
WITS1NISPMO 1 0 SPM 0 21 1
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
>Y
TUPLE ADDED

20	Exit table TRKMEM by typing
	>QUIT
	and pressing the Enter key.
21	Access table LTDEF by typing
	>TABLE LTDEF
	and pressing the Enter key.
22	Begin the table addition by typing
	>ADD
	and pressing the Enter key.
23	Answer each of the prompts with the required datafill provided by the table range.
	Example
	This is an example of datafilling table TRKGRP.
	>ADD
	ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
	>Y
	LTKEY:
	>PRI 10
	LTAP:
	>B
	LTCLASS:
	>PRA
	NUMBCHNL:
	>23
	NUMCALLS:
	>23
	INCCALLS:
	>12
	OUTCALLS:
	>11
	:

>NTNAPRI

ISSUE: >V1 **PROFNAME:** >NIL OPTION: >NOPMD OPTION: >\$ TUPLE TO BE ADDED: PRI 10 B PRA 23 23 12 11 NTNAPRI V1 NIL (NOPMD) \$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table LTDEF by typing >QUIT and pressing the Enter key. Access table LTMAP by typing >TABLE LTMAP and pressing the Enter key. Begin the table addition by typing >ADD and pressing the Enter key. Answer each of the prompts with the required datafill provided by the table range. Example This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y LTKEY: >PRI 10

24

25

26

```
MAPTYPE:
         >CLLI
         CLLI:
         >WITS1NISPM0
         OPTION:
         >TEI
        TEI:
         >0
        OPTION
         >$
        TUPLE TO BE ADDED:
         PRI 10 CLLI WITS1NISPM0 (TEI 0) $
        ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
         >Y
        TUPLE ADDED
28
      Exit table LTMAP by typing
      >QUIT
      and pressing the Enter key.
29
      Access table TRKGRP1 by typing
      >TABLE TRKGRP1
      and pressing the Enter key.
30
      Begin the table addition by typing
      >ADD
      and pressing the Enter key.
31
      Answer each of the prompts with the required datafill provided by
      the table range.
         Example
         This is an example of datafilling table TRKGRP.
         >ADD
         ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
         >Y
         CLLI:
```

>WITS1NISPM0 **GRPTYP**: >PRA250 LCDDUR: >0 SPARE1: N >Y SPARE2: N >Y SPARE3: >0 SPARE4 >0 TUPLE TO BE ADDED: WITS1NISPMO PRA250 0 Y Y 0 0 ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table TRKGRP1 by typing >QUIT

and pressing the enter key.

32

33 You have successfully completed this procedure.



Configuration management procedures

Provisioning a PTS MF trunk

At the MAP level

1 Access table CLLI by typing >TABLE CLLI

and pressing the Enter key.

2 Begin the table addition by typing

>ADD

and pressing the Enter key.

3 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP.
>ADD
ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
CLLI:
>GOS3TIMF
ADNUM:
>109
TRKGRSIZ:
>24
ADMININF:
>SPM_MF_TO_SAGE
TUPLE TO BE ADDED:

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

4 Exit table CLLI by typing >QUIT

and pressing the Enter key.

5 Access table TRKGRP by typing

>TABLE TRKGRP

and pressing the Enter key.

6 Begin the table addition by typing

>ADD

and pressing the Enter key.

7 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP.

>ADD

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

GRPKEY:

>G0S3TIMF

GRPTYP:

```
>TI
```

TRAFSNO: 0

>

PADGRP: NPDGP

>ELO

NCCLS: NCIT

>NCRT

TRAFCLS: NIL

>

PRTNM: NPRT > SCRNCL: NSCR > SNPA: >613 STS: >613 ORIGSRCE: LCL > VDESEL: N > DIGREGEN: >N OPTION: >\$ TUPLE TO BE ADDED: GOS3TIMF TI O ELO NCRT NIL NPRT NSCR 613 613 LCL N N \$ ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT. >Y TUPLE ADDED Exit table TRKGRP by typing 8 >QUIT and pressing the Enter key. Access table TRKSGRP by typing 9 >TABLE TRKSGRP and pressing the Enter key. 10 Begin the table addition by typing >ADD and pressing the Enter key.

11 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y SGRPKEY: >GOS3TIMF 0 CARDCODE: >DS1SIG SGRPVAR: >STD DIR: 2W >IC IPULSTYP: >MF ISTARTSG: >WK OVLP: N > PSPDSEIZ: 15 >7 PARTDIAL: >7 CCONT: >NO RNGBCK: >NO ESUPR: N > SAT:

>N

REMBSY:

>N

DIALMODE:

>C

ECSTAT: UNEQ

>

TUPLE TO BE ADDED:

G0S3TIMF DS1SIG STD IC MF WK N 7 7 NO NO N N N C UNEQ $\$

ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.

>Y

TUPLE ADDED

12 Exit table TRKSGRP by typing

>QUIT

and pressing the Enter key.

13 Access table TRKMEM by typing

>TABLE TRKMEM

and pressing the Enter key.

14 Begin the table addition by typing

>ADD

and pressing the Enter key.

15 Answer each of the prompts with the required datafill provided by the table range.

Example

This is an example of datafilling table TRKGRP. >ADD ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y CLLI: >GOS3TIMF EXTRKNUM:

```
>1
  SGRP:
  >0
  PMTYPE:
  >SPM
  SPMNO:
  >3
  SPMCKTNO:
  >97
  SPMCKTTS:
  >1
  TUPLE TO BE ADDED:
  GOS3TIMF 1 0 SPM 3 97 1
  ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
  >Y
  TUPLE ADDED
Exit table TRKMEM by typing
>QUIT
```

and pressing the Enter key.

17 You have successfully completed this procedure.



Configuration management procedures

Regardless of trunk type, provisioning data is modified the same way. The following procedure gives an example for modifying a PTS MF trunk.

Modifying a trunk

At the MAP level

1 Access the table to modify by typing

>TABLE <table_name>

where

table_name

is the name of the table containing the tuple to be modified

and pressing the Enter key.

Example

>TABLE TRKGRP

2 Position on the tuple to modify by tuping

>POS <tuple_key>

where

tuple_key

is the name of the tuple (typically the first entry)

and pressing the Enter key.

Example

This example positions on the tuple created for a PTS trunk in the Procedure, "Provisioning a PTS MF trunk," on page 135.

>POS G0S3TIMF

G0S3TIMF TI 0 ELO NCRT NIL NPRT NSCR 613 613 LCL N N $\$

3 Begin the table modification by typing

>CHA

and pressing the Enter key.

4 For each unchanged prompt, press the Enter key. The only value entered in this step should be the new value.

Example

This example changes the SNPA code in table TRKGRP from 613 to 614.

>CHA ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y GRPTYP: TI > TRAFSNO: 0 > PADGRP: ELO > NCCLS: NCRT > TRAFCLS: NIL > PRTNM: NPRT > SCRNCL: NSCR > SNPA: 613 >614 STS: 613 > ORIGSRCE: LCL > VDESEL: N

>
DIGREGEN: N
>
OPTION: \$
>
TUPLE TO BE CHANGED:
G0S3TIMF TI 50 ELO NCRT NIL NPRT NSCR 614 613
LCL N N \$
ENTER Y TO CONFIRM, N TO REJECT OR E TO EDIT.
>Y
TUPLE CHANGED
Foit the table bet mine

5 Exit the table by typing

>QUIT

and pressing the Enter key.

6 You have successfully completed this procedure.



De-provisioning an ISUP trunk

At the MAP level

1 Access table C7TRKMEM by typing >TABLE C7TRKMEM

and pressing the Enter key.

2 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS SPMISUP

3 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y TUPLE DELETED WARNING: CURRENTLY NOT POSITIONED

4	Exit table C7TRKMEM by typing
	>QUIT
	and pressing the Enter key.
5	Access table ISUPDEST by typing
	>TABLE ISUPDEST
	and pressing the Enter key.
6	Position on the tuple to remove by typing
	>POS clli
	and pressing the Enter key.
	where
	clli
	is the CLLI identifier for the tuple
Exam	ple
>POS	SPMISUP
7	Delete the tuple by typing
	>DEL
	and pressing the Enter key.
	Example
	The example that follows deletes a tuple from the table.
	>DEL
	ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
	>Y
	TUPLE DELETED
	WARNING: CURRENTLY NOT POSITIONED
8	Exit table ISUPDEST by typing
	>QUIT
	and pressing the Enter key.
9	Access table TRKMEM by typing
	>TABLE TRKMEM
	and pressing the Enter key.

```
10 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple
```

Example

>POS SPMISUP

11 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

12 Exit table TRKMEM by typing

>QUIT

and pressing the Enter key.

13 Access table TRKSGRP by typing >TABLE TRKSGRP

and pressing the Enter key.

14 Position on the tuple to remove by typing >POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS GOS3TIMF

15 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT
>Y
TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

16 Exit table TRKSGRP by typing

and pressing the Enter key.

17 Access table TRKGRP by typing >TABLE TRKGRP

and pressing the Enter key.

18 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS SPMISUP

19 Delete the tuple by typing>DELand pressing the Enter key.

Example

The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y TUPLE DELETED WARNING: CURRENTLY NOT POSITIONED 20 Exit table TRKGRP by typing >QUIT and pressing the Enter key. 21 Access table CLLI by typing >TABLE CLLI and pressing the Enter key. 22 Position on the tuple to remove by typing >POS clli and pressing the Enter key. where clli is the CLLI identifier for the tuple Example >POS SPMISUP 23 Delete the tuple by typing >DEL and pressing the Enter key. Example The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

		-
24	Exit table CLLI by typing	
	>QUIT	
	and pressing the Enter key.	



De-provisioning a PRI trunk

At the MAP level

1 Access table TRKGRP1 by typing >TABLE TRKGRP1

and pressing the Enter key.

2 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

3 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y TUPLE DELETED WARNING: CURRENTLY NOT POSITIONED

4	Exit table TRKGRP1 by typing			
	>QUIT			
	and pressing the enter key.			
5	Access table LTMAP by typing			
	>TABLE LTMAP			
	and pressing the Enter key.			
6	Position on the tuple to remove by typing			
	>POS ltgrp ltnum			
	and pressing the Enter key.			
	where			
	Itgrp is logical terminal group.			
	Itnum is logical terminal number (1-1022)			
Exam	ple			
>POS	PRI 10			
7	Delete the tuple by typing			
	>DEL			
	and pressing the Enter key.			
	Example			
	The example that follows deletes a tuple from the table.			
	>DEL			
	ENTER Y TO CONTINUE PROCESSING OR N TO QUIT			
	>Y			
	TUPLE DELETED			
	WARNING: CURRENTLY NOT POSITIONED			
8	Exit table LTMAP by typing			
	>QUIT			
	and pressing the Enter key.			
9	Access table LTDEF by typing			
	>TABLE LTDEF			

and pressing the Enter key.

10 Position on the tuple to remove by typing >POS ltgrp ltnum

and pressing the Enter key.

where

is logical terminal group.

ltnum

is logical terminal number (1-1022)

Example

>POS PRI 10

11 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

12 Exit table LTDEF by typing

>QUIT

and pressing the Enter key.

13 Access table TRKMEM by typing >TABLE TRKMEM

and pressing the Enter key.

14 Position on the tuple to remove by typing >POS clli and pressing the Enter key. where clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

15 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

16 Exit table TRKMEM by typing

>QUIT

and pressing the Enter key.

17 Access table TRKSGRP by typing

>TABLE TRKSGRP

and pressing the Enter key.

18 Position on the tuple to remove by typing >POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

19 Delete the tuple by typing **>DEL**

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

20 Exit table TRKSGRP by typing

>QUIT

and pressing the Enter key.

21 Access table TRKGRP by typing >TABLE TRKGRP

and pressing the Enter key.

22 Position on the tuple to remove by typing >POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

23 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y

WARNING: CURRENTLY NOT POSITIONED

- 24 Exit table TRKGRP by typing >QUIT and pressing the Enter key.
- 25 Access table CLLICDR by typing >TABLE CLLICDR and pressing the Enter key.

Note: Table CLLICDR is required for PRI-250 trunks.

26 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

27 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

28 Exit table CLLICDR by typing >QUIT

and pressing the Enter key.

156

29 Access table CLLI by typing

>TABLE CLLI

and pressing the Enter key.

30 Position on the tuple to remove by typing >POS clli and pressing the Enter key. where

clli

is the CLLI identifier for the tuple

Example

>POS WITS1NISPM0

31 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT

>Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

32 Exit table CLLI by typing

>QUIT

and pressing the Enter key.



De-provisioning a PTS trunk

At the MAP level

1 Access table TRKMEM by typing >TABLE TRKMEM

and pressing the Enter key.

2 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS GOS3TIMF

3 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y TUPLE DELETED WARNING: CURRENTLY NOT POSITIONED

4	Exit table TRKMEM by typing			
	>QUIT			
	and pressing the Enter key.			
5	Access table TRKSGRP by typing			
	>TABLE TRKSGRP			
	and pressing the Enter key.			
6	Position on the tuple to remove by typing			
	>POS clli			
	and pressing the Enter key.			
	where			
	clli			
	is the CLLI identifier for the tuple			
Exam	ple			
>POS	GOS3TIMF			
7	Delete the tuple by typing			
	>DEL			
	and pressing the Enter key.			
	Example			
	The example that follows deletes a tuple from the table.			
	>DEL			
	ENTER Y TO CONTINUE PROCESSING OR N TO QUIT			
	>Y			
	TUPLE DELETED			
	WARNING: CURRENTLY NOT POSITIONED			
8	Exit table TRKSGRP by typing			
	>QUIT			
	and pressing the Enter key.			
9	Access table TRKGRP by typing			
	>TABLE TRKGRP			
	and pressing the Enter key.			

```
10 Position on the tuple to remove by typing

>POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple
```

Example

>POS GOS3TIMF

11 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table. >DEL ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y

TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

12 Exit table TRKGRP by typing

>QUIT

and pressing the Enter key.

13 Access table CLLI by typing

>TABLE CLLI

and pressing the Enter key.

14 Position on the tuple to remove by typing >POS clli

and pressing the Enter key.

where

clli

is the CLLI identifier for the tuple

Example

>POS GOS3TIMF

15 Delete the tuple by typing

>DEL

and pressing the Enter key.

Example

The example that follows deletes a tuple from the table.

>DEL

ENTER Y TO CONTINUE PROCESSING OR N TO QUIT >Y TUPLE DELETED

WARNING: CURRENTLY NOT POSITIONED

16 Exit table CLLI by typing >QUIT

and pressing the Enter key.



Provisioning a span of ISUP trunks

At the MAP level

- 1 Follow the Procedure, "Provisioning an ISUP trunk," on page 115 to provision a single ISUP trunk.
- 2 To add an additional ISUP trunk, first access table TRKMEM by typing

>TABLE TRKMEM

and pressing the Enter key.

- 3 Add an additional tuple to table TRKMEM exactly as the original tuple provisioned in the Procedure, "Provisioning an ISUP trunk", with the following exceptions:
 - extrknum Make this value different from the orginal tuple's value. It is recommended that external trunk numbers are assigned sequentially.
 - spmcktts Make this value different from the orginal tuple's value. It is recommended that circuit time slot numbers are assigned sequentially.

Example datafill for table TRKMEM

SPMISUP 2 0 SPM 16 9 2	
SPMISUP 3 0 SPM 16 9 3	
SPMISUP 4 0 SPM 16 9 4	

4 Exit table TRKMEM by typing

>QUIT

and pressing the Enter key.

5 Access table C7TRKMEM by typing

>TABLE C7TRKMEM

and pressing the Enter key.

- 6 Add an additional tuple to table C7TRKMEM exactly as the original tuple provisioned in the Procedure, "Provisioning an ISUP trunk", with the following exceptions:
 - extrknum Enter the value from Step 3 of this procedure.
 - cic Make this value different from the orginal tuple's value. It is recommended that CIC numbers are assigned sequentially.

Example

Example datafill for table IC7TRKMEM

SPMISUP 2 445 SPMISUP 3 446 SPMISUP 4 447

7 Exit table C7TRKMEM by typing

>QUIT

and pressing the Enter key.

8

lf	Do
you need to add additional tuples	Procedure 2
you do not need to add additional tuples	Procedure 9



Provisioning a span of PRI-250 trunks

At the MAP level

- 1 Follow the Procedure, "Provisioning a PRI-250 trunk," on page 123 to provision a single PRI trunk.
- 2 To add an additional PRI trunk, access table TRKMEM by typing

>TABLE TRKMEM

and pressing the Enter key.

- 3 Add an additional tuple to table TRKMEM exactly as the original tuple provisioned in the Procedure, "Provisioning a PRI-250 trunk", with the following exceptions:
 - extrknum Make this value different from the orginal tuple's value. It is recommended that external trunk numbers are assigned sequentially.
 - spmcktts Make this value different from the orginal tuple's value. It is recommended that circuit time slot numbers are assigned sequentially.

Example datafill for table TRKMEM

SPMISUP 2 0 SPM 16 9 2 SPMISUP 3 0 SPM 16 9 3 SPMISUP 4 0 SPM 16 9 4

4

lf	Do
you need to add additional tuples	Procedure 3
you do not need to add additional tuples	Procedure 5
Exit table TRKMEM by typing	

5 Exit table TRKMEM by typing

>QUIT

and pressing the Enter key.



Provisioning a span of PTS MF trunks

At the MAP level

- 1 Follow the Procedure, "Provisioning a PTS MF trunk," on page 135 to provision a single PRI trunk.
- 2 To add an additional PTS trunk, access table TRKMEM by typing

>TABLE TRKMEM

and pressing the Enter key.

- 3 Add an additional tuple to table TRKMEM exactly as the original tuple provisioned in the Procedure, "Provisioning a PTS MF trunk," on page 135, with the following exceptions:
 - extrknum Make this value different from the orginal tuple's value. It is recommended that external trunk numbers are assigned sequentially.
 - spmcktts Make this value different from the orginal tuple's value. It is recommended that circuit time slot numbers are assigned sequentially.

Example datafill for table TRKMEM

SPMISUP 2 0 SPM 16 9 2 SPMISUP 3 0 SPM 16 9 3 SPMISUP 4 0 SPM 16 9 4

4

5

lf	Do	
you need to add additional tuples	Procedure 3	
you do not need to add additional tuples	Procedure 5	
Exit table TRKMEM by typing		

>QUIT

and pressing the Enter key.



Procedure for relocating SPM Host Linksets

At the MAP level

1 Identify a provisioned ENET shelf / card to which the re-location is to be done.

The ENET shelf / card should be datafilled in table ENCDINV. The card should be a DS_512_ INTERFACE card.

2 Post the ENET card and identify an unequipped port.

>MAPCI;MTC;ENET;SHELF 0/1; CARD #

The specified port should not be equipped.

Note: An unequipped port is indicated by a "-" at the MAP (refer to the figure below).

CM Flt Ist M	IOD Net b 1DDUOS . M	2 SPM *C*		2C.	
CARD	ENET Syster	n Matrix S	Shelf 0 1 2 3		
	Plane 0 .				
2	Plane 1 .				
3 QueryEN_					
	SHELF 00 Slot				
5 Deload_	123	3456 78 90123	3456 78901234	56789012	345678
	Plane 0 .				
	Plane 1 .	• •• ••••	••••		• •
8 Rts_					
	CARD 29 Front			s	
	Xpt				
	Plane 0 .				
	Plane 1 . rts 0 link 0	•			
14 Link	ILS U IIIK U				
15 System					
16 Matrix					
17 Card					
18 Trnsl					
TEAM26					
Time 11:28	>				

3	Use the change command on the tuple in table MNLINK to determine the MS ports corresponding to the linkset being relocated.
	Do not enter 'Yes' when asked for confirmation
	<i>Note:</i> POS on the tuple corresponding to the linkset to be relocated in table MNLINK. Issue a 'cha'nge command.
4	Ensure that the MS ports corresponding to the linkset to be relocated are in Insv state.
	>MAPCI;MTC;MS:SHELF;CARD #
	The MS ports displayed in step 3 are to be in INSV state.
	Note: The INSV MS port is indicated as a '.' on the MAP terminal.
5	Post the linkset to be relocated.
	>MAPCI;MTC;NET;SHELF#;CARD#
	<i>Note:</i> This posts the ENET card to which the linkset are connected.
6	Busy the linkset to be re-located.
	>BSY 0 link #
	>BSY 1 link #
	Ensure that both links, from CEM0 and its corresponding mate-link from CEM1, are set to MANB state.
	The links can be made busy at MAPCI level:
	MAPCI;MTC;ENET;SHELF 0/1; CARD #;
7	Offline the linkset to be re-located.
	>OFFL 0 link #
	>OFFL 1 link #
	Ensure that both links, from CEM0 and its corresponding mate-link from CEM1, are set to Offline state.
	The links can be made offline at MAPCI level:
	MAPCI;MTC;ENET;SHELF 0/1; CARD #;
8	Post the SPM and ensure the SPM is in INSV/ISTB state
	>MAPCI;MTC;PM;POST SPM #
9	BSY, INB all the trunks connected to the linkset (note below) that is Offlined.
	>MAPCI;MTC;TRKS;TTP; POST D SPM #

>POST S CFL

```
>BSY ALL
```

>POST D SPM #

>POST S MB

>BSY INB ALL

Observe the trunks connected to the linkset which is Offlined change to CFL state. The trunks should be set to MB state before they are set INB state.

Ensure that there are no trunks connected to the SPM which are in CFL state. All the trunks which were in CFL state earlier due to the relocation are to be in INB state.

Note: ALL the trunks on this SPM that were previously (prior to SPM Host Link Relocation) in CFL state will also be affected due to this step. They will all be taken MB and INB. This will not affect any CallP, as the trunks would already be in CFL state prior to this step.

10 Execute the 'cha'nge command on the corresponding tuple in table MNLINK

>TABLE MNLINK

>pos SPM #

```
>cha < corresponding link characteristics >
```

Note the MS port data corresponding to the relocated linkset displayed.

Changing the shelf / card / slot properties of only one linkset at a time is allowed during a change operation.

Note: Contact the next level of support if

• the tuple change operation was not successful.

or

- SPM311 logs with error string as "Error in SPM Hostlink Relocation." are generated after the change command is executed.
- **11** Post the card on which the links were previously located.

>MAPCI;MTC;ENET;SHELF 0/1; CARD #;

Observe that the port corresponding to the link is now unequipped. An unequipped port is indicated by a "-" at the MAP (refer to the following figure).

Net PM СМ MS IOD CCS Lns Trks Ext APPL CM Flt Istb 1DDUOS . 2 SPM *C* 2C.. 4 FSP

 CM Flt
 Isto
 <thIsto</th>
 <thIsto</th>
 <thIsto</th>
 • *C* М CARD 3 QueryEN_ 4 Locate_ SHELF 00 Slot 1111111 11122222 22222333 333333 4 Locace_ 5 Deload_ Plane 0 123456 78 90123456 78901234 56789012 345678 7 Bsy_ 8 Rts_ 9 Offl_ CARD 29 Front: Back: DS-512 Links L0 Xpt I/F 0 1 2 3 10 11 RExTst_ Plane 0 . 12 Plane 1 . . . – . . . - . . . rts O link O 13 14 Link_ 15 System 16 Matrix 17 Card_ 18 Trnsl_ TEAM26 Time 11:28 >

12 Post the card to which the links have been relocated.

>MAPCI;MTC;ENET;SHELF 0/1; CARD #;

Observe that the link is now in Offline state. An Offline link is indicated by a "O" at the MAP (refer to the figure above).

- **13** Physically re-locate the link from CEM0. This link corresponds to the link on CEM0 of the linkset to be re-located.
- 14 Physically re-locate the link from CEM1. This link corresponds to the link on CEM1 of the linkset to be re-located.
- **15** BSY the MS ports corresponding to the relocated linkset (refer to step 9 and use the displayed information to determine the MS ports corresponding to the relocated links).

>MAPCI;MTC;MS;SHELF;CARD #

>BSY <0/1> port#

Ensure both MS ports are set to MANB state (indicated by a 'M' on the MAP display).

16 Busy the re-located linkset.

>BSY 0 link #

>BSY 1 link #

Observe that both links, from CEM0 and its corresponding mate-link from CEM1, are set to MANB state.

The links can be made busy at MAPCI level:

MAPCI;MTC;ENET;SHELF 0/1; CARD #;

17 RTS the re-located linkset.

>RTS 0 link #

>RTS 1 link #

Observe that both links, from CEM0 and its corresponding mate-link from CEM1, are set to INSV state.

18 RTS the MS ports corresponding to the relocated linkset.

>MAPCI;MTC;MS;SHELF;CARD#

>RTS <0/1> port #

Observe that both ports are set to INSV state (represented as a '.' on the MAP display.

Observe that the SPM is back to INSV state after the relocation.

19 RTS the trunks that are affected by the relocation (note below).

```
>MAPCI;MTC;TRKS;TTP;POST D SPM #
```

>POST S INB

```
>MB ALL
```

- >POST D SPM #
- >POST S MB
- >RTS ALL

The trunks affected by the move are already set to INB state. The trunks are first set to MB state before they are RTSed.

Note: ALL the trunks on this SPM that were previously (prior to SPM Host Link Relocation) in INB or MB state will also be affected due to this step. Therefore, any trunks that had been intentionally placed into INB or MB state will now be brought back into service. Those chosen trunks need to be returned to their desired state (INB or MB).