3746/9x0 - T3 La Gaude

06/07/2001

NPM Enhancements

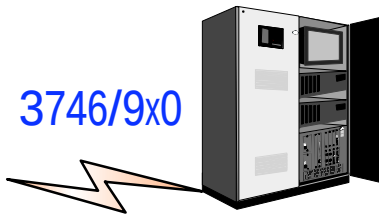




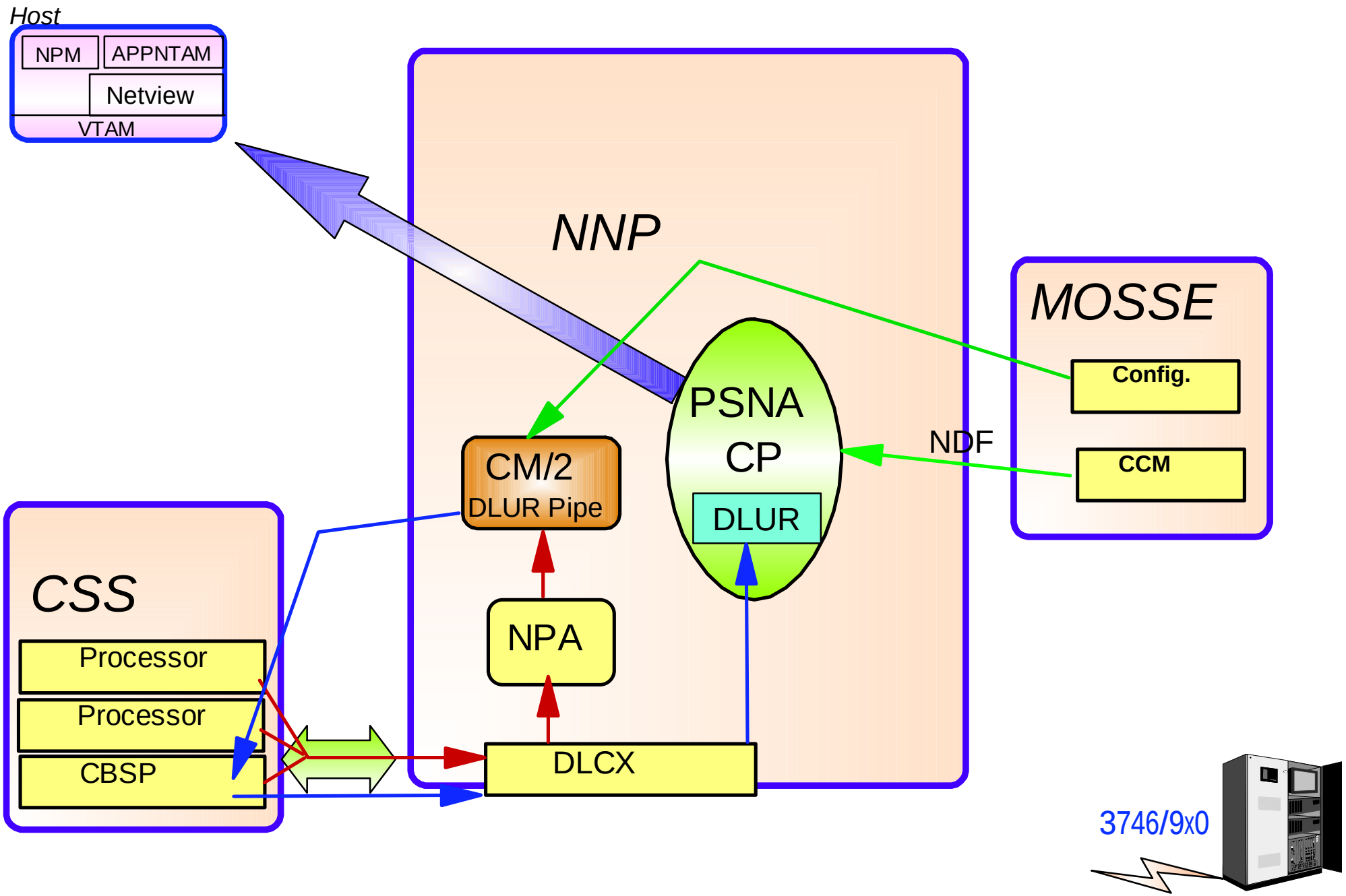
Denis ESTEVE
Philippe NOAILLY

Overview

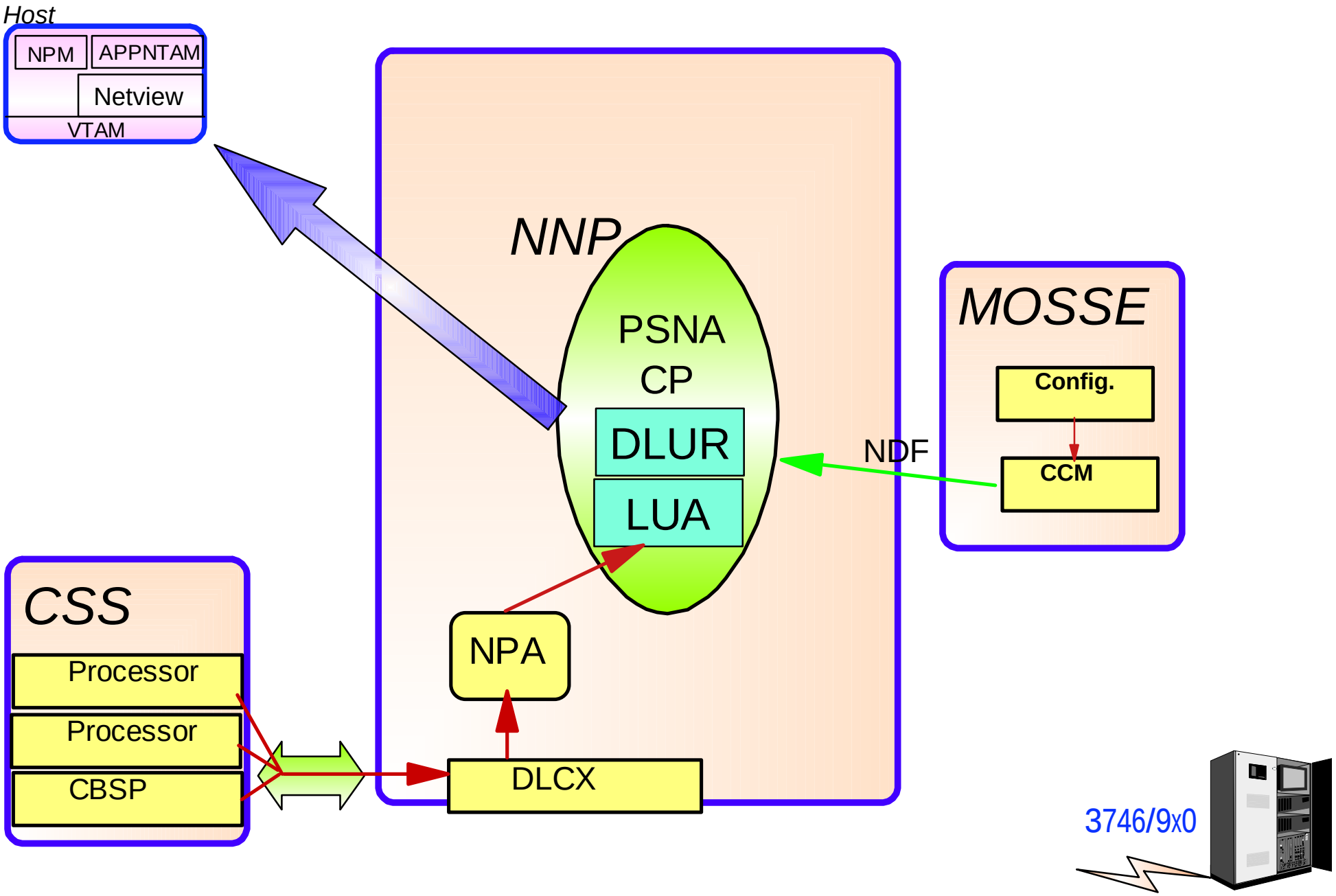
- NPA without CM/2
- Enhanced NPM reporting of Line Processor statistics
- Report NNP statistics to NPM



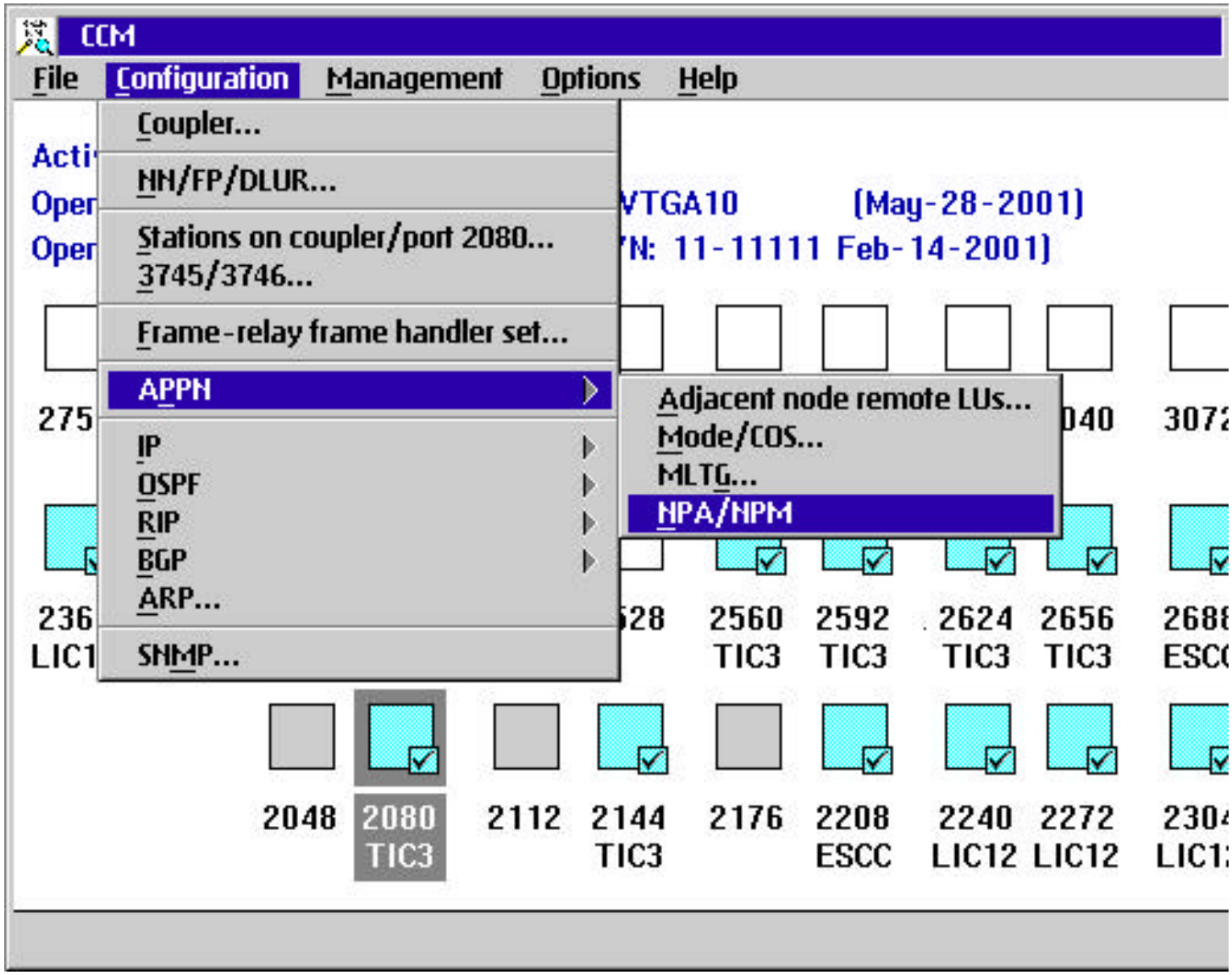
3746 Today NPA with CM/2

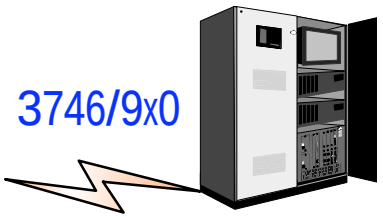


3746 NPA without CM/2 solution



3746 NPA without CM/2 Configuration





3746 NPA without CM/2 Configuration

NPA/NPM

Define Dependant LU Server

Link Name : NPAPU

DLUS Primary : SYSTA.ENIM

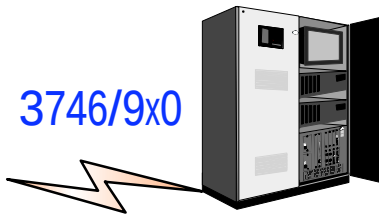
DLUS Backup : SYSTA.CNM1

Define LUA

LU Name : NPALU

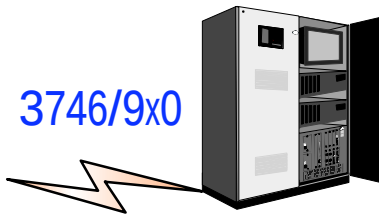
NAU Address :

OK Cancel Help



Enhanced NPM reporting

- Line Processor statistics are now available on NPM panels. Were previously obtainable via reports only.
- Start collection now available for the 3746 resource
- Use the NPM Review function towards the 3746 resource
- Scroll left (F5) to review the 17 Line processor statistics:
  - CPU utilization
  - Buffer utilization
  - Fast program storage utilization
- Line Processor 1 is the CBSP



Enhanced NPM reporting

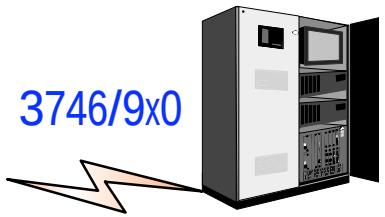
```
FNM03RVP                          NPM V2R6   5655-043
                                    NETWORK MANAGEMENT
                                  NETWORK REVIEW DATA

Command ===>
Insert DYN to get dynamic (real time) data
Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59
Slowdown Limit: 0

End          Interval Resource   CCU     <-  Free Buffer ->      Channel
Time         hh:mm:ss Name       Util    QLen   High    Low   Interm  Hold
15:04:29         0:18 NNBS07      100       0      0      0        0     0
15:05:14         0:45 NNBS07      100       0      0      0        0     0
15:05:59         0:45 NNBS07      100       0      0      0        0     0




PF 1=HELP      3=END       5=RIGHT     9=SUMMARY  12=RETURN   15=NCP
PF16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```



Enhanced NPM reporting

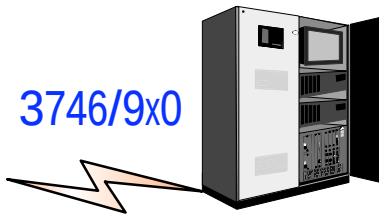
```
FNM03CU4                          NPM V2R6   5655-043
                                    NETWORK MANAGEMENT
                          NETWORK REVIEW DATA FOR 3746 LINE PROCESSOR

 Command ===>
 Insert DYN to get dynamic (real time) data
 Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
 Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59

 End        Interval Resource     Type  CPU Ut. Buf Ut. Prg Ut.
 Time       hh:mm:ss Name        (2080  (2080   (2080   (2080
                                  2111)  2111)   2111)   2111)
 15:04:29      0:18 NNBS07        CBSP       0      20      41
 15:05:14      0:45 NNBS07        CBSP       0      20      41
 15:05:59      0:45 NNBS07        CBSP       0      20      41




 PF 1=HELP      3=END       4=LEFT      5=RIGHT     9=SUMMARY  12=RETURN
 PF15=NCP      16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```



Enhanced NPM reporting

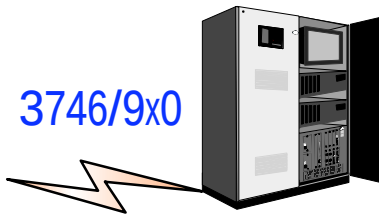
```
FNM03CU5                          NPM V2R6   5655-043
                                    NETWORK MANAGEMENT
                          NETWORK REVIEW DATA FOR 3746 LINE PROCESSOR

 Command ===>
 Insert DYN to get dynamic (real time) data
 Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
 Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59

 End        Interval Resource     Type  CPU Ut. Buf Ut. Prg Ut.
 Time       hh:mm:ss Name        (2176  (2176   (2176   (2176
                                  2239)  2239)   2239)   2239)
 15:04:29       0:18 NNBS07       ESCP       0      20      75
 15:05:14       0:45 NNBS07       ESCP       0      20      75
 15:05:59       0:45 NNBS07       ESCP       0      20      75




 PF 1=HELP      3=END       4=LEFT      5=RIGHT     9=SUMMARY  12=RETURN
 PF15=NCP      16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```



Enhanced NPM reporting

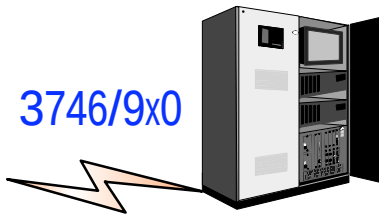
```
FNM03CUE                        NPM V2R6   5655-043
                                  NETWORK MANAGEMENT
                        NETWORK REVIEW DATA FOR 3746 LINE PROCESSOR

 Command ===>
 Insert DYN to get dynamic (real time) data
 Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
 Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59

 End        Interval Resource     Type  CPU Ut. Buf Ut. Prg Ut.
 Time       hh:mm:ss Name        (2240  (2240   (2240   (2240
                                  2303)  2303)   2303)   2303)
 15:04:29       0:18 NNBS07        CLP       0      20      46
 15:05:14       0:45 NNBS07        CLP       0      20      46
 15:05:59       0:45 NNBS07        CLP       0      20      46




 PF 1=HELP      3=END       4=LEFT      5=RIGHT     9=SUMMARY  12=RETURN
 PF15=NCP      16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```



Enhanced NPM reporting

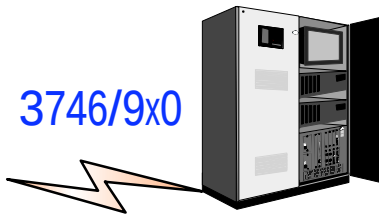
```
FNM03CUG                          NPM V2R6   5655-043
                                    NETWORK MANAGEMENT
                          NETWORK REVIEW DATA FOR 3746 LINE PROCESSOR

 Command ===>
 Insert DYN to get dynamic (real time) data
 Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
 Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59

 End        Interval Resource     Type  CPU Ut. Buf Ut. Prg Ut.
 Time       hh:mm:ss Name        (2496  (2496   (2496   (2496
                                  2559)  2559)   2559)   2559)
 15:04:29       0:18 NNBS07        TRP       0      20      30
 15:05:14       0:45 NNBS07        TRP       0      20      30
 15:05:59       0:45 NNBS07        TRP       0      20      30

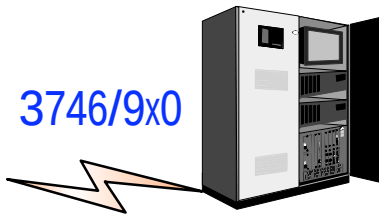



 PF 1=HELP      3=END       4=LEFT      5=RIGHT     9=SUMMARY  12=RETURN
 PF15=NCP      16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```



Report NNP statistics to NPM

- NNP Statistics now reported to NPM using the same means as for line processors
- Statistics include:
  - CPU utilization
  - APPN buffer utilization
  - APPN memory utilization
- NNP statistics are displayed after the 17th line processor (line addr. 3072-3135)



Report NNP statistics to NPM

```
FNM03CUL                          NPM V2R6   5655-043
                                    NETWORK MANAGEMENT
                    NETWORK REVIEW DATA FOR 3746 NETWORK NODE PROCESSOR

 Command ===>
 Insert DYN to get dynamic (real time) data
 Host Name = LOCAL      Resource Name = NNBS07     Data Type = NCP DETAIL
 Date/Time: from  06/06/01  15:04:29  to  06/06/01  15:05:59

 End        Interval Resource                      APPN     APPN
 Time       hh:mm:ss Name          Type  CPU Ut. Buf Ut.  Mem Ut.

 15:04:29      0:18 NNBS07          NNP      30      40      75
 15:05:14      0:45 NNBS07          NNP      32      40      68
 15:05:59      0:45 NNBS07          NNP      45      40      72




 PF 1=HELP      3=END       4=LEFT      9=SUMMARY  12=RETURN   15=NCP
 PF16=ROUTER   17=LINE     20=APPL     24=TERMINAL
```

