



.....

```

NN      NN      CCCCCCCC  PPPPPPPP  SSSSSSSS  TTTTTTTTTT  AAAAAA  MM      MM      SSSSSSSS  EEEEEEEEEE
NN      NN      CCCCCCCC  PPPPPPPP  SSSSSSSS  TTTTTTTTTT  AAAAAA  MM      MM      SSSSSSSS  EEEEEEEEEE
NN      NN      CC        PP      PP  SS        TT        AA      AA  MMMM  MMMM  SS        EE
NN      NN      CC        PP      PP  SS        TT        AA      AA  MMMM  MMMM  SS        EE
NNNN    NN      CC        PP      PP  SS        TT        AA      AA  MM  MM  MM  SS        EE
NNNN    NN      CC        PP      PP  SS        TT        AA      AA  MM  MM  MM  SS        EE
NN      NN      CC        PPPPPPPP  SSSSSS    TT        AA      AA  MM      MM  SSSSSS  EEEEEEEEEE
NN      NN      CC        PPPPPPPP  SSSSSS    TT        AA      AA  MM      MM  SSSSSS  EEEEEEEEEE
NN      NN      CC        PP      SS        TT        AAAAAAAAAA  MM      MM  SS        EE
NN      NN      CC        PP      SS        TT        AAAAAAAAAA  MM      MM  SS        EE
NN      NN      CC        PP      SS        TT        AA      AA  MM      MM  SS        EE
NN      NN      CC        PP      SSSSSSSS  TT        AA      AA  MM      MM  SSSSSSSS  EEEEEEEEEE
NN      NN      CCCCCCCC  PP      SSSSSSSS  TT        AA      AA  MM      MM  SSSSSSSS  EEEEEEEEEE

```

....  
....  
....

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SSSSSS
LL      II     SSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 %TITLE 'X.25 Server Module Parsing'
2 0002 0 MODULE NCPSTAMSE (IDENT = 'V04-000',LIST(NOOBJECT)) =
3 0003 1 BEGIN
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: Network Control Program (NCP)
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 States and data for the parsing of NCP X.25 server module parameters
36 0036 1
37 0037 1 ENVIRONMENT: VAX/VMS Operating System
38 0038 1
39 0039 1 AUTHOR: Tim Halvorsen, July 1981
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 V03-009 PRD0069 Paul R. DeStefano 24-Feb-1984
44 0044 1 Accept 'KNOWN' as 'KNOWN DESTINATIONS'.
45 0045 1 Prompt for destination name when 'DESTINATION'
46 0046 1 parameter is entered without specifying a name.
47 0047 1
48 0048 1 V03-008 PRD0060 Paul R. DeStefano 05-Feb-1984
49 0049 1 Allow OBJECT parameter to accept both name and number.
50 0050 1
51 0051 1 V03-007 RPG0007 Bob Grosso 11-Nov-1982
52 0052 1 Make IPR 132 corrections.
53 0053 1 Remove node and file name prompt.
54 0054 1
55 0055 1 V03-006 RPG0006 Bob Grosso 15-Sep-1982
56 0056 1 Flag qualifier for ALL check.
57 0057 1

```

58	0058	1	V03-005	RPG0005	Bob Grosso	08-Sep-1982
59	0059	1			Change use of HXPS to HEX for CALL VALUE and CALL MASK.	
60	0060	1				
61	0061	1	V03-004	TMH0004	Tim Halvorsen	19-Aug-1982
62	0062	1			Remove FILE from the list of X25-SERVER wide paramter	
63	0063	1			prompting list, since it's a destination parameter.	
64	0064	1			Fix CALL MASK and CALL VALUE, so that they are sent	
65	0065	1			as HI in the NICE message.	
66	0066	1				
67	0067	1	V03-003	RPG0003	Bob Grosso	03-Aug-1982
68	0068	1			Prompt for ALL for CLEAP X-S DEST dest.	
69	0069	1			Add State and File.	
70	0070	1				
71	0071	1	V3-002	RPG0002	Bob Grosso	26-Jul-1982
72	0072	1			Add X29-Server, using common parsing.	
73	0073	1				
74	0074	1	V001	TMH0001	Tim Halvorsen	05-Apr-1982
75	0075	1			Fix prompting for DESTINATION parameters if none are	
76	0076	1			specified on the command line.	
77	0077	1				--

```
.. 79      0078 1 %SBTTL 'Definitions'
.. 80      0079 1
.. 81      0080 1
.. 82      0081 1  INCLUDE FILES:
.. 83      0082 1
.. 84      0083 1
.. 85      0084 1      LIBRARY 'LIBS:NMALIBRY';
.. 86      0085 1      LIBRARY 'LIBS:NCPLIBRY';
.. 87      0086 1      LIBRARY 'SYS$LIBRARY:TPAMAC';
.. 88      0087 1
.. 89      0088 1
.. 90      0089 1  EXTERNAL REFERENCES:
.. 91      0090 1
.. 92      0091 1
.. 93      0092 1      ACT_DFN          ! Action routine externals
.. 94      0093 1
.. 95      0094 1  EXTERNAL
.. 96      0095 1      NCP$GL_QUALPRS;    ! Record that a qualifier was present so that
.. 97      0096 1      ! the check for ALL will work correctly
.. 98      0097 1
.. 99      0098 1
.. 100     0099 1  LITERALS
.. 101     0100 1
.. 102     0101 1
.. 103     0102 1  LITERAL
.. 104     0103 1      QUALPRESENT = 1;    ! flag that a qualifier was present on the command line
```

```

: 106      0104 1 %SBTTL 'Set Parameter blocks'
: 107      0105 1
: 108      0106 1
: 109      0107 1      Set X25-SERVER Parameter Blocks
: 110      0108 1
: 111      0109 1
: 112      P 0110 1      BUILD_PCL
: 113      P 0111 1
: 114      P 0112 1      (MSE,                               ! Module X25-SERVER
: 115      P 0113 1
: 116      P 0114 1      DST, TKN,          PCXS_DST, .
: 117      P 0115 1
: 118      P 0116 1      CTM, NUMW,          PCXS_CTM, .
: 119      P 0117 1      MCI, NUMW,          PCXS_MCI, .
: 120      P 0118 1      NOD, NADR,          PCXS_NOD, .
: 121      P 0119 1      USR, TKN,          PCXS_USR, .
: 122      P 0120 1      PSW, TKN,          PCXS_SPW, .
: 123      P 0121 1      ACC, TKN,          PCXS_ACC, .
: 124      P 0122 1      OBJ, OBJ,          PCXS_OBJ, .
: 125      P 0123 1      PRI, NUMB,          PCXS_PRI, .
: 126      P 0124 1      CMK, HEX,          PCXS_CMK, .
: 127      P 0125 1      CVL, HEX,          PCXS_CVL, .
: 128      P 0126 1      GRP, TKN,          PCXS_GRP, .
: 129      P 0127 1      NUM, TKN,          PCXS_NUM, .
: 130      P 0128 1      SAD, SAD,          PCXS_SAD, .
: 131      P 0129 1
: 132      P 0130 1      STA, NUMB,          PCXS_STA, .
: 133      P 0131 1      FIL, TKN,          PCXS_FIL, .
: 134      P 0132 1
: 135      P 0133 1      . END, . . .
: 136      P 0134 1
: 137      P 0135 1      )
: 138      P 0136 1
: 139      P 0137 1      BUILD_PBK
: 140      P 0138 1
: 141      P 0139 1      (MSE,                               ! Module X25-SERVER
: 142      P 0140 1
: 143      P 0141 1      CTM, NUMW, . . .
: 144      P 0142 1      DST, TKN, . . .
: 145      P 0143 1      KDS, LITB, NMA$C_ENT_KNO, MSE_DST, ! KNOWN DESTINATIONS
: 146      P 0144 1      MCI, NUMW, . . .
: 147      P 0145 1      NOD, NADR, . . .
: 148      P 0146 1      USR, TKN, . . .
: 149      P 0147 1      PSW, TKN, . . .
: 150      P 0148 1      ACC, TKN, . . .
: 151      P 0149 1      OBJ, OBJ, . . .
: 152      P 0150 1      PRI, NUMB, . . .
: 153      P 0151 1      CMK, HEX, . . .
: 154      P 0152 1      CVL, HEX, . . .
: 155      P 0153 1      GRP, TKN, . . .
: 156      P 0154 1      NUM, TKN, . . .
: 157      P 0155 1      SAD, SAD, . . .
: 158      P 0156 1
: 159      P 0157 1      STAON, LITB, NMA$C_STATE_ON, MSE_STA,
: 160      P 0158 1      STAOFF, LITB, NMA$C_STATE_OFF, MSE_STA,
: 161      P 0159 1      FIL, TKN, . . .
: 162      P 0160 1

```

```
.. 163           0161 1      )  
.. 164           0162 1  
.. 165           0163 1 BIND   PDB$G_MSE_ENT = UPLIT BYTE(0, %ASCIC 'X25-SERVER');  
.. 166           0164 1  
.. 167           P 0165 1      BUILD_SDB  
.. 168           0166 1      (MSE, -NMASC_ENT_MOD, MSE_ENT, MSE)  
.. 169           0167 1  
.. 170           0168 1 BIND   PDB$G_M9S_ENT = UPLIT BYTE(0, %ASCIC 'X29-SERVER');  
.. 171           0169 1  
.. 172           P 0170 1      BUILD_SDB  
.. 173           0171 1      (M9S, -NMASC_ENT_MOD, M9S_ENT, MSE)
```

.....

```

: 175      0172  1 %SBTTL 'Clear Parameter blocks'
: 176      0173  1
: 177      0174  1
: 178      0175  1      Clear X25-SERVER Parameter Blocks
: 179      0176  1
: 180      0177  1
: 181      P 0178  1      BUILD_PCL
: 182      P P 0179  1
: 183      P P 0180  1      (CSE,                               ! Module X25-SERVER
: 184      P P 0181  1
: 185      P P 0182  1      DST, TKN,          PCXS_DST, .
: 186      P P 0183  1
: 187      P P 0184  1      CTM, LITB,          PCXS_CTM, .
: 188      P P 0185  1      MCI, LITB,          PCXS_MCI, .
: 189      P P 0186  1      NOD, LITB,          PCXS_NOD, .
: 190      P P 0187  1      USR, LITB,          PCXS_USR, .
: 191      P P 0188  1      PSW, LITB,          PCXS_PSW, .
: 192      P P 0189  1      ACC, LITB,          PCXS_ACC, .
: 193      P P 0190  1      OBJ, LITB,          PCXS_OBJ, .
: 194      P P 0191  1      PRI, LITB,          PCXS_PRI, .
: 195      P P 0192  1      CMK, LITB,          PCXS_CMK, .
: 196      P P 0193  1      CVL, LITB,          PCXS_CVL, .
: 197      P P 0194  1      GRP, LITB,          PCXS_GRP, .
: 198      P P 0195  1      NUM, LITB,          PCXS_NUM, .
: 199      P P 0196  1      SAD, LITB,          PCXS_SAD, .
: 200      P P 0197  1
: 201      P P 0198  1      STA, LITB,          PCXS_STA, .
: 202      P P 0199  1      FIL, LITB,          PCXS_FIL, .
: 203      P P 0200  1
: 204      P P 0201  1      . END, . . .
: 205      P P 0202  1
: 206      P P 0203  1      )
: 207      P P 0204  1
: 208      P P 0205  1      BUILD_PBK
: 209      P P 0206  1
: 210      P P 0207  1      (CSE,                               ! Module X25-SERVER
: 211      P P 0208  1
: 212      P P 0209  1      ALL, LITB, 0, VRB_ALL,
: 213      P P 0210  1
: 214      P P 0211  1      CTM, LITB, 0, .
: 215      P P 0212  1      DST, TKN,
: 216      P P 0213  1      KDS, LITB, NMA$C_ENT_KNO, CSE_DST,      ! KNOWN DESTINATIONS
: 217      P P 0214  1      MCI, LITB, 0, .
: 218      P P 0215  1      NOD, LITB, 0, .
: 219      P P 0216  1      USR, LITB, 0, .
: 220      P P 0217  1      PSW, LITB, 0, .
: 221      P P 0218  1      ACC, LITB, 0, .
: 222      P P 0219  1      OBJ, LITB, 0, .
: 223      P P 0220  1      PRI, LITB, 0, .
: 224      P P 0221  1      CMK, LITB, 0, .
: 225      P P 0222  1      CVL, LITB, 0, .
: 226      P P 0223  1      GRP, LITB, 0, .
: 227      P P 0224  1      NUM, LITB, 0, .
: 228      P P 0225  1      SAD, LITB, 0, .
: 229      P P 0226  1
: 230      P P 0227  1      STA, LITB, 0, .
: 231      P P 0228  1      FIL, LITB, 0, .

```



..	232	P	0229	1	
..	233		0230	1	)
..	234		0231	1	
..	235	P	0232	1	BUILD_SDB
..	236	P	0233	1	
..	237		0234	1	(CSE, NMA\$C_ENT_MOD, MSE_ENT, CSE)
..	238		0235	1	
..	239	P	0236	1	BUILD_SDB
..	240	P	0237	1	
..	241		0238	1	(C9S, NMA\$C_ENT_MOD, M9S_ENT, CSE)

```
243 0239 1 %SBTTL 'Prompt strings'
244 0240 1
245 0241 1
246 0242 1 Build prompt strings
247 0243 1
248 0244 1
249 0245 1 BIND
250 0246 1
251 P 0247 1 PROMPT_STRINGS
252 PP 0248 1 (MSE,
253 PP 0249 1
254 PP 0250 1 DAT, ' (DESTINATION name, or KNOWN): ',
255 PP 0251 1 DST, ' DESTINATION (1-16 characters): ',
256 PP 0252 1
257 PP 0253 1 CTM, 'Counter timer (1-65535 seconds): ',
258 PP 0254 1 MCI, 'Maximum circuits (1-65535): ',
259 PP 0255 1
260 PP 0256 1 ACC, 'Account name (1-39 characters): ',
261 PP 0257 1 CMK, 'Call mask (1-32 hex digits): ',
262 PP 0258 1 CVL, 'Call value (1-32 hex digits): ',
263 P 0259 1 !! FIL, 'File (filename.typ): ',
264 PP 0260 1 GRP, 'Group name (1-16 characters): ',
265 P 0261 1 !! NOD, 'Node name (node-name, address): ',
266 PP 0262 1 NUM, 'Number (1-16 characters): ',
267 PP 0263 1 OBJ, 'Object (name or number): ',
268 PP 0264 1 PSW, 'Password (1-39 characters): ',
269 P 0265 1 PRI, 'Priority (0-255): ',
270 P 0266 1 SAD, 'Subaddress range (Range): ',
271 P 0267 1 STA, 'State (ON, OFF): ',
272 P 0268 1 USR, 'User name (1-16 characters): ',
273 0269 1 ),
274 0270 1
275 P 0271 1 PROMPT_STRINGS
276 P 0272 1 (CSE,
277 PP 0273 1
278 PP 0274 1 DAT, ' (DESTINATION name, or KNOWN): ',
279 P 0275 1 DST, ' DESTINATION (1-16 characters): ',
280 P 0276 1
281 P 0277 1 ALL, 'All X.25 server parameters (Y, N): ',
282 P 0278 1 ALL2, 'All X.25 server destination parameters (Y, N): ',
283 PP 0279 1
284 P 0280 1 CTM, 'Counter timer (Y, N): ',
285 P 0281 1 MCI, 'Maximum circuits (Y, N): ',
286 P 0282 1
287 P 0283 1 ACC, 'Account name (Y, N): ',
288 P 0284 1 CMK, 'Call mask (Y, N): ',
289 P 0285 1 CVL, 'Call value (Y, N): ',
290 P 0286 1 FIL, 'File (Y, N): ',
291 P 0287 1 GRP, 'Group name (Y, N): ',
292 P 0288 1 NOD, 'Node name (Y, N): ',
293 P 0289 1 NUM, 'Number (Y, N): ',
294 P 0290 1 OBJ, 'Object (Y, N): ',
295 P 0291 1 PSW, 'Password (Y, N): ',
296 P 0292 1 PRI, 'Priority (Y, N): ',
297 P 0293 1 SAD, 'Subaddress range (Y, N): ',
298 P 0294 1 STA, 'State (Y, N): ',
299 P 0295 1 USR, 'User name (Y, N): ',
```

NCPSTAMSE  
V04-000

X.25 Server Module Parsing  
Prompt strings

; 300

0296 1 );

L 13  
16-Sep-1984 01:03:20  
14-Sep-1984 12:48:30

VAX-11 Bliss-32 V4.0-742  
[NCP.SRC]NCPSTAMSE.B32;1

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(5)

NC  
VO

.....

```
.. 302 0297 1 %SBTTL 'Declare entry points to TPARSE tables'  
.. 303 0298 1  
.. 304 0299 1  
.. 305 0300 1      Declare entry points to this TPARSE table  
.. 306 0301 1  
.. 307 0302 1  
.. 308 0303 1 $INIT_STATE (NCP$G_STTBL_MSE, NCP$G_KYTBL_MSE);  
.. 309 0304 1  
.. 310 0305 1 FORWARD  
.. 311 0306 1      ST_M9S: VECTOR [0],      ! Set X29-Server  
.. 312 0307 1      ST_CSE: VECTOR [0],      ! Clear X25-SERVER  
.. 313 0308 1      ST_C9S: VECTOR [0];      ! Clear X29-SERVER  
.. 314 0309 1  
.. 315 0310 1 GLOBAL BIND  
.. 316 0311 1      NCP$G_STTBL_M9S = ST_M9S,  
.. 317 0312 1      NCP$G_KYTBL_M9S = NCP$G_KYTBL_MSE,  
.. 318 0313 1      NCP$G_STTBL_CSE = ST_CSE,  
.. 319 0314 1      NCP$G_KYTBL_CSE = NCP$G_KYTBL_MSE,  
.. 320 0315 1      NCP$G_STTBL_C9S = ST_C9S,  
.. 321 0316 1      NCP$G_KYTBL_C9S = NCP$G_KYTBL_MSE;
```

```
323 0317 1 %SBTTL 'SET X25-SERVER and X29-SERVER Module Parameters'  
324 0318 1  
325 0319 1  
326 0320 1 SET/DEFINE MODULE X25-SERVER parameter states  
327 0321 1  
328 0322 1  
329 P 0323 1 $STATE (ST_MSE,  
330 P 0324 1 ((ST_MS_COMMON))  
331 0325 1 );  
332 0326 1  
333 P 0327 1 $STATE (  
334 P 0328 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_MSE),  
335 0329 1 );  
336 0330 1  
337 0331 1  
338 0332 1  
339 0333 1 SET/DEFINE MODULE X29-SERVER parameter states  
340 0334 1  
341 0335 1  
342 P 0336 1 $STATE (ST_M9S,  
343 P 0337 1 ((ST_MS_COMMON))  
344 0338 1 );  
345 0339 1  
346 P 0340 1 $STATE (  
347 P 0341 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_M9S),  
348 0342 1 );
```

```

350 0343 1 |
351 0344 1 | Share common states and data structures for X25-Server and X29-Server
352 0345 1 | X25-Server was here first and the naming convention was not changed to
353 0346 1 | reflect the shared nature of the states.
354 0347 1 |
355 P 0348 1 $STATE (ST_MS_COMMON,
356 P 0349 1 (TPAS_EOS, ST_MSE_PMT_DAT),
357 P 0350 1 (TPAS_LAMBDA, ST_MSE_DAT)
358 0351 1 );
359 0352 1 |
360 0353 1 |
361 0354 1 | Determine which x25 server sub-database we are talking about
362 0355 1 | (due to grouping restrictions, the command must not mix
363 0356 1 | sub-database parameters). The sub-database may be either
364 0357 1 | x25 server or destination parameters.
365 0358 1 |
366 P 0359 1 $STATE (ST_MSE_PMT_DAT,
367 0360 1 (TPAS_LAMBDA,, ACT$PRMPT,,, PMT$G_MSE_DAT));
368 0361 1 |
369 P 0362 1 $STATE (ST_MSE_DAT, ! Determine whether DESTINATION parameters
370 P 0363 1 ('DESTINATION', ST_MSE_DAT_DST),
371 P 0364 1 ('KNOWN', ST_MSE_DAT_KWN),
372 P 0365 1 (TPAS_LAMBDA)); ! Else, assume SERVER-wide
373 0366 1 |
374 0367 1 |
375 0368 1 |
376 0369 1 | Prompt for normal server parameters
377 0370 1 |
378 P 0371 1 $STATE (
379 P 0372 1 (TPAS_EOS), ! Start prompting if EOS
380 P 0373 1 (TPAS_LAMBDA,ST_MSE_PRC)); ! Else, try parsing parameters
381 0374 1 |
382 P 0375 1 PROMPT_STATES
383 P 0376 1 (MSE,
384 P 0377 1 CTM, MCI, STA)
385 P 0378 1 |
386 0379 1 |
387 P 0380 1 $STATE (
388 P 0381 1 (TPAS_LAMBDA, ST_MSE_DOIT));
389 0382 1 |
390 0383 1 |
391 0384 1 |
392 0385 1 | Prompt for destination parameters
393 0386 1 |
394 P 0387 1 $STATE (ST_MSE_DAT_DST,
395 P 0388 1 (TPAS_LAMBDA));
396 P 0389 1 |
397 P 0390 1 |
398 P 0391 1 COMMAND_PROMPT
399 P 0392 1 (MSE, DST, NCP$_INVKEY,
400 P 0393 1 ((SE_DEST_NAME),, ACT$SAVPRM, QUALPRESENT, NCP$GL_QUALPRS, PBK$G_MSE_DST));
401 0394 1 |
402 P 0395 1 $STATE (ST_MSE_PMT_DST,
403 P 0396 1 (TPAS_EOS), ! Start prompting if EOS
404 P 0397 1 (TPAS_LAMBDA,ST_MSE_PRC)); ! Else, try parsing parameters
405 0398 1 |
406 0399 1 |

```

```

: 407 P 0400 1 PROMPT_STATES
: 408 P 0401 1 (MSE,
: 409 P 0402 1 ACC, CMK, CVL, GRP, NUM, OBJ, PSW,
: 410 0403 1 PRI, SAD, USR)
: 411 0404 1
: 412 P 0405 1 $STATE (ST_MSE_DOIT,
: 413 P 0406 1 (TPAS_LAMBDA, TPAS_EXIT),
: 414 0407 1 );
```

.....

```
: 416      0408 1 |  
: 417      0409 1 |  
: 418      0410 1 |  
: 419      0411 1 |  
: 420      P 0412 1 $STATE (ST_MSE_DAT_KWN,  
: 421      P 0413 1 (TPAS_EOS, ST_MSE_PMT_DST, ACT$SAVPRM,,, PBK$G_MSE_KDS),  
: 422      P 0414 1 ('DESTINATIONS', ST_MSE_PMT_DST, ACT$SAVPRM,,, PBK$G_MSE_KDS),  
: 423      0415 1 );
```

Dispatch on KNOWN keyword during prompting



```
425 0416 1  
426 0417 1  
427 0418 1  
428 0419 1  
429 0420 1  
430 P 0421 1 $STATE (ST_MSE_PRC,  
431 P 0422 1  
432 P 0423 1 ((SE_ALL), ST_MSE_DOIT),  
433 P 0424 1  
434 P 0425 1 DISPATCH_STATES  
435 P 0426 1 (MSE,  
436 P 0427 1  
437 P 0428 1 ACC, 'ACCOUNT',  
438 P 0429 1 CAL, 'CALL',  
439 P 0430 1 CTM, 'COUNTER',  
440 P 0431 1 DST, 'DESTINATION',  
441 P 0432 1 FIL, 'FILE',  
442 P 0433 1 GRP, 'GROUP',  
443 P 0434 1 KWN, 'KNOWN',  
444 P 0435 1 MCI, 'MAXIMUM',  
445 P 0436 1 NOD, 'NODE',  
446 P 0437 1 NUM, 'NUMBER',  
447 P 0438 1 OBJ, 'OBJECT',  
448 P 0439 1 PSW, 'PASSWORD',  
449 P 0440 1 PRI, 'PRIORITY',  
450 P 0441 1 SAD, 'SUBADDRESSES',  
451 P 0442 1 STA, 'STATE',  
452 P 0443 1 USR, 'USER',  
453 P 0444 1 )  
454 P 0445 1  
455 P 0446 1 ,(TPAS_EOS, ST_MSE_DOIT)  
456 0447 1 )
```

```
.. 458      0448 1  
.. 459      0449 1  
.. 460      0450 1      Dispatch on KNOWN keyword  
.. 461      0451 1  
.. 462      0452 1  
.. 463      P 0453 1  $STATE (ST_MSE_PRC_KWN,  
.. 464      0454 1      ((SE_MSE_KWN), ST_MSE_PRC));  
.. 465      0455 1  
.. 466      P 0456 1  $STATE (SE_MSE_KWN,  
.. 467      P 0457 1  
.. 468      P 0458 1      KEYWORD_STATE  
.. 469      P 0459 1      (MSE,  
.. 470      P 0460 1  
.. 471      P 0461 1      KDS, 'DESTINATIONS',  
.. 472      P 0462 1  
.. 473      0463 1      ));  
.. 474      0464 1  
.. 475      0465 1  
.. 476      0466 1      Dispatch on CALL keyword  
.. 477      0467 1  
.. 478      0468 1  
.. 479      P 0469 1  $STATE (ST_MSE_PRC_CAL,  
.. 480      P 0470 1  
.. 481      P 0471 1      DISPATCH_STATES  
.. 482      P 0472 1      (MSE,  
.. 483      P 0473 1  
.. 484      P 0474 1      CMK, 'MASK',  
.. 485      P 0475 1      CVL, 'VALUE',  
.. 486      P 0476 1  
.. 487      0477 1      ));  
.. 488      0478 1  
.. 489      0479 1  
.. 490      0480 1      Dispatch on STATE keyword  
.. 491      0481 1  
.. 492      0482 1  
.. 493      P 0483 1  $STATE (ST_MSE_STA,  
.. 494      P 0484 1  
.. 495      P 0485 1      KEYWORD_STATE  
.. 496      P 0486 1      (MSE,  
.. 497      P 0487 1  
.. 498      P 0488 1      STAON, 'ON',  
.. 499      P 0489 1      STAOFF, 'OFF',  
.. 500      P 0490 1  
.. 501      0491 1      ));
```

```
.. 503      0492  1
.. 504      0493  1
.. 505      0494  1
.. 506      0495  1
.. 507      0496  1
.. 508      P 0497  1
.. 509      P P 0498  1
.. 510      P P 0499  1
.. 511      P P 0500  1
.. 512      P P 0501  1
.. 513      P P 0502  1
.. 514      P P 0503  1
.. 515      P P 0504  1
.. 516      P P 0505  1
.. 517      P P 0506  1
.. 518      P P 0507  1
.. 519      P P 0508  1
.. 520      P P 0509  1
.. 521      P P 0510  1
.. 522      P P 0511  1
.. 523      P P 0512  1
.. 524      P P 0513  1
.. 525      P P 0514  1
.. 526      P 0515  1
.. 527      0516  1

Process states

PROCESS_STATES
(MSE,

ACC, .
CMK, .
CVL, .
CTM, 'TIMER',
DST, .
FIL, .
GRP, .
MCI, 'CIRCUITS',
NOD, .
NUM, .
OBJ, .
PSW, .
PRI, .
SAD, .
USR, .
STA, .
)
```

```
529      0517 1  |
530      0518 1  |
531      0519 1  |
532      0520 1  |
533      0521 1  |
534      P 0522 1  |
535      P 0523 1  |
536      P 0524 1  |
537      P 0525 1  |
538      P 0526 1  |
539      P 0527 1  |
540      P 0528 1  |
541      P 0529 1  |
542      P 0530 1  |
543      P 0531 1  |
544      P 0532 1  |
545      P 0533 1  |
546      P 0534 1  |
547      P 0535 1  |
548      P 0536 1  |
549      P 0537 1  |
550      P 0538 1  |
551      P 0539 1  |
552      0540 1  |
```

Subexpression states

SUB EXPRESSIONS  
(MSE,

CTM, TPAS DECIMAL,  
MCI, TPAS DECIMAL,  
NOD, (SE\_NODE\_ID),  
USR, (SE\_ACC\_USR),  
PSW, (SE\_ACC\_PSW),  
ACC, (SE\_ACC\_ACC),  
OBJ, (SE\_OBJECT\_ID),  
PRI, TPAS DECIMAL,  
CMK, (SE\_HEX\_NUM),  
CVL, (SE\_HEX\_NUM),  
GRP, (SE\_GRP\_NAME),  
M, (SE\_DTE\_NUMBER),  
AD, (SE\_SUBADR\_RANGE),

FIL, (SE\_FILE\_ID),  
)

```
554 0541 1 %SBTTL 'CLEAR X25-SERVER Module Parameters'  
555 0542 1  
556 0543 1  
557 0544 1  
558 0545 1  
559 0546 1  
560 P 0547 1 $STATE (ST_CSE,  
561 P 0548 1 ((ST_CS_COMMON))  
562 0549 1 )  
563 0550 1  
564 P 0551 1 $STATE (  
565 P 0552 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_CSE),  
566 0553 1 )  
567 0554 1  
568 0555 1  
569 0556 1  
570 0557 1  
571 0558 1  
572 P 0559 1 $STATE (ST_C9S,  
573 P 0560 1 ((ST_CS_COMMON))  
574 0561 1 )  
575 0562 1  
576 P 0563 1 $STATE (  
577 P 0564 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_C9S),  
578 0565 1 )  
579 0566 1
```

```

581 0567 1 |
582 0568 1 | Share common states and data structures for X25-Server and X29-Server
583 0569 1 | X25-Server was here first and the naming convention was not changed to
584 0570 1 | reflect the shared nature of the states.
585 0571 1 |
586 P 0572 1 $STATE (ST_CS_COMMON,
587 P 0573 1 (TPAS_EOS, ST_CSE_PMT_DAT),
588 P 0574 1 (TPAS_LAMBDA, ST_CSE_DAT)
589 0575 1 );
590 0576 1 |
591 0577 1 |
592 0578 1 | Determine which x25 server sub-database we are talking about
593 0579 1 | (due to grouping restrictions, the command must not mix
594 0580 1 | sub-database parameters). The sub-database may be either
595 0581 1 | x25 server or destination parameters.
596 0582 1 |
597 0583 1 |
598 P 0584 1 $STATE (ST_CSE_PMT_DAT,
599 0585 1 (TPAS_LAMBDA,, ACT$PRMPT,,, PMT$G_CSE_DAT));
600 0586 1 |
601 P 0587 1 $STATE (ST_CSE_DAT, ! Determine whether DESTINATION parameters
602 P 0588 1 ('DESTINATION', ST_CSE_DAT_DST),
603 P 0589 1 ('KNOWN', ST_CSE_DAT_KWN),
604 0590 1 (TPAS_LAMBDA)); ! Else, assume SERVER-wide
605 0591 1 |
606 0592 1 |
607 0593 1 | Prompt for normal server parameters
608 0594 1 |
609 0595 1 |
610 P 0596 1 $STATE (
611 P 0597 1 (TPAS_EOS), ! Start prompting if EOS
612 0598 1 (TPAS_LAMBDA,ST_CSE_PRC)); ! Else, try parsing parameters
613 0599 1 |
614 P 0600 1 QUERY_STATES
615 P 0601 1 (CSE,
616 P 0602 1
617 0603 1 ALL, CTM, FIL, MCI, STA)
618 0604 1 |
619 P 0605 1 $STATE (
620 0606 1 (TPAS_LAMBDA, ST_CSE_DOIT));
621 0607 1 |
622 0608 1 |
623 0609 1 | Prompt for destination parameters
624 0610 1 |
625 0611 1 |
626 P 0612 1 $STATE (ST_CSE_DAT_DST,
627 0613 1 (TPAS_LAMBDA));
628 0614 1 |
629 P 0615 1 COMMAND_PROMPT
630 P 0616 1 (CSE, DST, NCP$_INVKEY,
631 P 0617 1
632 0618 1 ((SE_DEST_NAME),, ACT$SAVPRM,,, PBK$G_CSE_DST));
633 0619 1 |
634 P 0620 1 $STATE (ST_CSE_PMT_DST,
635 P 0621 1 (TPAS_EOS), ! Start prompting if EOS
636 0622 1 (TPAS_LAMBDA,ST_CSE_PRC)); ! Else, try parsing parameters
637 0623 1 |

```

```
: 638 P 0624 1 QUERY_STATES_S  
: 639 P 0625 1 (CSE,  
: 640 P 0626 1 ALL, ALL2,  
: 641 P 0627 1 ACC, ACC, CMK, CMK, CVL, CVL, GRP, GRP, NOD, NOD, NUM, NUM,  
: 642 0628 1 OBJ, OBJ, PSW, PSW, PRI, PRI, SAD, SAD, USR, USR)  
: 643 0629 1  
: 644 P 0630 1 $STATE (ST_CSE_DOIT,  
: 645 P 0631 1 (TPAS_LAMBDA, TPAS_EXIT),  
: 646 0632 1 );
```

.....

```
: 648      0633 1 |  
: 649      0634 1 |      Dispatch on KNOWN keyword during prompting  
: 650      0635 1 |  
: 651      0636 1 |  
: 652      P 0637 1 $STATE (ST_CSE DAT KWN,  
: 653      P 0638 1 (TPAS_EOS, ST_CSE_PMT_DST, ACT$SAVPRM,,, PBK$G_CSE_KDS),  
: 654      P 0639 1  
: 655      P 0640 1 ('DESTINATIONS', ST_CSE_PMT_DST, ACT$SAVPRM,,, PBK$G_CSE_KDS),  
: 656      0641 1 );
```

.....



```
658 0642 1
659 0643 1
660 0644 1 Dispatch States
661 0645 1
662 0646 1
663 P 0647 1 $STATE (ST_CSE_PRC,
664 P 0648 1
665 P 0649 1 DISPATCH_STATES
666 P 0650 1 (CSE,
667 P 0651 1
668 P 0652 1 ALL, 'ALL',
669 P 0653 1 ACC, 'ACCOUNT',
670 P 0654 1 CAL, 'CALL',
671 P 0655 1 CTM, 'COUNTER',
672 P 0656 1 DST, 'DESTINATION',
673 P 0657 1 FIL, 'FILE',
674 P 0658 1 GRP, 'GROUP',
675 P 0659 1 KWN, 'KNOWN',
676 P 0660 1 MCI, 'MAXIMUM',
677 P 0661 1 NOD, 'NODE',
678 P 0662 1 NUM, 'NUMBER',
679 P 0663 1 OBJ, 'OBJECT',
680 P 0664 1 PSW, 'PASSWORD',
681 P 0665 1 PRI, 'PRIORITY',
682 P 0666 1 SAD, 'SUBADDRESSES',
683 P 0667 1 STA, 'STATE',
684 P 0668 1 USR, 'USER',
685 P 0669 1 )
686 P 0670 1
687 P 0671 1 ,(TPAS_EOS, ST_CSE_DOIT)
688 0672 1 );
```

```
690 0673 1  
691 0674 1  
692 0675 1      Dispatch on KNOWN keyword  
693 0676 1  
694 0677 1  
695 P 0678 1 $STATE (ST_CSE_PRC_KWN,  
696 0679 1 ((SE_CSE_KWN), ST_CSE_PRC));  
697 0680 1  
698 P 0681 1 $STATE (SE_CSE_KWN,  
699 P 0682 1  
700 P 0683 1 KEYWORD_STATE  
701 P 0684 1 (CSE,  
702 P 0685 1  
703 P 0686 1 KDS, 'DESTINATIONS',  
704 P 0687 1  
705 0688 1 ));  
706 0689 1  
707 0690 1  
708 0691 1      Dispatch on CALL keyword  
709 0692 1  
710 0693 1  
711 P 0694 1 $STATE (ST_CSE_PRC_CAL,  
712 P 0695 1  
713 P 0696 1 DISPATCH_STATES  
714 P 0697 1 (CSE,  
715 P 0698 1  
716 P 0699 1 CMK, 'MASK',  
717 P 0700 1 CVL, 'VALUE',  
718 P 0701 1  
719 0702 1 ));
```

```

: 721      0703 1
: 722      0704 1
: 723      0705 1
: 724      0706 1
: 725      0707 1
: 726      P 0708 1
: 727      P 0709 1
: 728      P 0710 1
: 729      P 0711 1
: 730      P 0712 1
: 731      P 0713 1
: 732      P 0714 1
: 733      P 0715 1
: 734      P 0716 1
: 735      P 0717 1
: 736      P 0718 1
: 737      P 0719 1
: 738      P 0720 1
: 739      P 0721 1
: 740      P 0722 1
: 741      P 0723 1
: 742      P 0724 1
: 743      P 0725 1
: 744      P 0726 1
: 745      P 0727 1
: 746      P 0728 1
: 747      0729 1

```

Process states

PROCESS\_STATES  
(CSE,

ALL, .  
ACC, .  
CMK, .  
CVL, .  
CTM, 'TIMER',  
DST, .  
FIL, .  
GRP, .  
MCI, 'CIRCUITS',  
NOD, .  
NUM, .  
OBJ, .  
PSW, .  
PRI, .  
SAD, .  
STA, .  
USR, .  
)

```

: 749      0730 1
: 750      0731 1
: 751      0732 1
: 752      0733 1
: 753      0734 1
: 754      P 0735 1
: 755      P 0736 1
: 756      P 0737 1
: 757      P 0738 1
: 758      P 0739 1
: 759      P 0740 1
: 760      P 0741 1
: 761      P 0742 1
: 762      P 0743 1
: 763      P 0744 1
: 764      P 0745 1
: 765      P 0746 1
: 766      P 0747 1
: 767      P 0748 1
: 768      P 0749 1
: 769      P 0750 1
: 770      P 0751 1
: 771      P 0752 1
: 772      P 0753 1
: 773      P 0754 1
: 774      P 0755 1
: 775      0756 1

```

Subexpression states

SUB EXPRESSIONS  
(CSE,

ALL, TPAS\_EOS,

CTM, TPAS\_LAMBDA,  
MCI, TPAS\_LAMBDA,  
NOD, TPAS\_LAMBDA,  
USR, TPAS\_LAMBDA,  
PSW, TPAS\_LAMBDA,  
ACC, TPAS\_LAMBDA,  
OBJ, TPAS\_LAMBDA,  
PRI, TPAS\_LAMBDA,  
CMK, TPAS\_LAMBDA,  
CVL, TPAS\_LAMBDA,  
GRP, TPAS\_LAMBDA,  
NUM, TPAS\_LAMBDA,  
SAD, TPAS\_LAMBDA,

FIL, TPAS\_LAMBDA,  
STA, TPAS\_LAMBDA,  
)

```
: 777      0757 1 %SBTTL 'Define Subexpressions'  
: 778      0758 1  
: 779      0759 1  
: 780      0760 1  
: 781      0761 1  
: 782      0762 1  
: 783      0763 1  
: 784      0764 1  
: 785      0765 1  
: 786      0766 1  
: 787      0767 1  
: 788      0768 1  
: 789      0769 1  
: 790      0770 1  
: 791      0771 1  
: 792      0772 1  
: 793      0773 1  
: 794      0774 1
```

Define Subexpressions from Library

SEM_ALL	: All parameter
SEM_NODE_ID	: Node ID
SEM_DTE_NUMBER	: DTE call number string
SEM_FILE_ID	: File spec
SEM_GRP_NAME	: Group name
SEM_DEST_NAME	: Destination name
SEM_SUBADR_RANGE	: Subaddress range
SEM_ACCESS	: Access control strings
SEM_HEX_NUM	: Hex strings
SEM_QUOT_STR	: Quoted string
SEM_OBJECT_ID	: Object name/number
SEM_QUERY	: Query state subexpressions

NCPSTAMSE  
V04-000

X.25 Server Module Parsing  
Define Subexpressions

: 796  
: 797

0775 1 END  
0776 0 ELUDOM

E 15  
16-Sep-1984 01:03:20  
14-Sep-1984 12:48:30

VAX-11 Bliss-32 V4.0-742  
[NCP.SRC]NCPSTAMSE.B32:1

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NC  
VO

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