

FLIPCHART  
ISSUE 9

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### SYSTEM MANAGEMENT ACCESS PORT STATUS

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845552223

**NOTES:**

1. TO GAIN CONTROL OF THE ADMINISTRATION PROCEDURES, TYPE 1 THEN <CR>. TO RELEASE CONTROL OF THE ADMINISTRATION PROCEDURES, TYPE 1 THEN <CR>.
2. TO GAIN CONTROL OF THE MAINTENANCE PROCEDURES, TYPE 2 THEN <CR>. TO RELEASE CONTROL OF THE MAINTENANCE PROCEDURES, TYPE 2 THEN <CR>.
3. TO GAIN CONTROL OF THE TAPE SUBSYSTEM, TYPE 3 THEN <CR>. TO RELEASE CONTROL OF THE TAPE SUBSYSTEM, TYPE 3 THEN <CR>.
4. IF ERROR CODE 76 IS DISPLAYED, PROCEDURE MODE HAS ALREADY BEEN USED BY ANOTHER AGENT TO GAIN CONTROL OF ONE OF THE MODES. FIELDS 11-15 DISPLAY ENCODES THAT TELL WHICH

- PORT HAS CONTROL OF THE GIVEN MODE. FIELDS 4-10 DISPLAY A CODE THAT TELLS WHICH AGENT HAS CONTROL OF THE GIVEN MODE.
5. IF MAAP IS LEFT UNUSED IN PROCEDURE MODE FOR 10 MINUTES, PROCEDURE MODE DEFAULTS THE CURRENT PORT STATUS(FIELDS 1, 2, AND 3) TO ALL ZEROS TO PREVENT BLOCKING OTHER AGENTS TRYING TO ACCESS THE SYSTEM.
  6. IF MAAP IS LEFT UNUSED IN A PROCEDURE OTHER THAN PROCEDURE MODE FOR 24 HOURS, PROCEDURE MODE DEFAULTS THE CURRENT PORT MODE STATUS TO ALL ZEROS TO PREVENT BLOCKING OTHER AGENTS TRYING TO ACCESS THE SYSTEM.

CURRENT PORT			AGENTS					MODE CONTROLLERS					SYS MGMT PORT STATUS
ADMIN	MAINT	TAPE	REMOTE PORT 0	REMOTE PORT 1	PSEUDO PORT 0	PSEUDO PORT 1	DCIU PORT	ADMIN	MAINT	TAPE	RAMP	SMAP	
1	2	3	4	5	6	7	8	9	10	11	12	13	<b>MODE</b>

TYPES OF TERMINALS VS PROC

WD	1	2		1	1	1	1	2	1	2	1	2	3	4	1	2	1	2	3	4	1	2	1	2	3	4	1	2	3	4	1	2	3	4	1	2									
TERMINAL PROC	000	000	001	003	012	026	026	051	052	052	053	053	054	054	054	055	055	056	057	057	058	059	059	059	059	059	059	063	063	070	070	070	070	075	076	211	2	275	283	285	290				
7406D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7407D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
WORD 1A																																													

✓ MEANS THIS TYPE OF TERMINAL  
CAN BE ADMINISTERED BY THIS  
PROC/WORD.

BLANK MEANS CANNOT.

TYPES OF  
TERMINALS

TERM

FIELD LIMITS: 13 = VMAAP  
 FIELDS 1-3: 14 = PARKTAPE  
 0 = NOT ACTIVE 15-29 = OTHER  
 1 = ACTIVE 30-59 = AP16  
 FIELDS 4-8: 60 = CSM - TELCO  
 0 = UNUSED 61-69 = CSM - CUSTOMER  
 1 = MAAP 80 = LAMP  
 2 = RMATS 1 100 = TRANSLATION AUDIT  
 3 = RMATS 2  
 4 = INADS-GREEN  
 5 = INADS-RED  
 6 = REMOTE CARRIER GRP MAINT  
 7 = TRACS  
 8 = SHARP  
 9 = SHOPS  
 10 = RUNTAPE  
 11 = DELAYED TERMINATION  
 12 = EMAP

FIELDS 9-13:  
 - = MODE NOT ACTIVE  
 0 = LOCAL MAAP  
 1 = REMOTE PORT 0  
 2 = REMOTE PORT 1  
 3 = PSEUDO PORT 0  
 4 = PSEUDO PORT 1  
 5 = DCIU

WORD 1A

SYS  
 MGMT  
 PORT STATUS

MODE

| | | | | | | | | | | | | | | | | | | | | | | |

TYPES OF TERMINALS VS PROC

WD	1	2	1	1	1	3	1	2	1	2	3	4	1	2	1	1	2	3	4	1	2	1	2	3	4	1	1	2	2	1	1									
TERMINAL PROC	000	000	001	003	012	026	026	051	052	052	053	053	054	054	054	055	055	056	057	057	058	059	059	059	059	063	063	070	070	070	070	075	076	211	275	283	285	290		
SINGLE-APPR TERM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
72 SERIES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
73 SERIES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
74 SERIES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
515 BCT,	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
510 BCT, 7404D, PDM TDM DTDM ADFTC AP32 4-PORT EIA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ MEANS THIS TYPE OF TERMINAL  
CAN BE ADMINISTERED BY THIS  
PROC/WORD.

BLANK MEANS CANNOT.

TYPES OF  
TERMINALS

TERM

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## RUN TAPE

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1. RUN TAPE (TRANSLATION UPDATE) IS ACTIVATED BY PRESSING 'RUN TAPE' 'EXECUTE'. THE WAIT LIGHT IS ON DURING THE 'RUN TAPE' SEQUENCE (DUPLICATED SYSTEMS ONLY). FIELDS 1 AND 2 DISPLAY THE STATUS OF THE RUN TAPE.
2. FIELD 3 SHOWS THE NUMBER OF TIMES A TAPE OPERATION FAILED AND WAS RESTARTED DURING THE ONLINE TRANSLATION UPDATE. IF NO ERROR CODE IS DISPLAYED, THE UPDATE COMPLETED SUCESSFULLY. IF THIS FIELD IS NOT DASHED OR ZERO, FOLLOW THE NORMAL ERROR REPORTING PROCEDURE.
3. FIELD 4 SHOWS THE NUMBER OF TIMES A TAPE OPERATION FAILED AND WAS RESTARTED DURING THE OFF-LINE TRANSLATION UPDATE. IF NO ERROR CODE IS DISPLAYED THE UPDATE COMPLETED SUCCESSFULLY. IF THIS FIELD IS NOT DASHED OR ZERO, FOLLOW THE NORMAL ERROR REPORTING PROCEDURE.
4. AFTER THE UPDATE IS SUCCESSFULLY COMPLETED OR AN ERROR INTERRUPTS THE UPDATE, SUBSEQUENT PRESSING OF 'RUN TAPE' 'EXECUTE' UPDATES ONLY THE ONLINE TAPE AND FILED 1 DISPLAYS A 3 DURING UPDATE.

UPDATE  
STATUS

1

UPDATE  
OPERATION

2

ONLINE  
RESETS

3

OFFLINE  
RESETS

4

RUN TAPE

TPE

FIELD LIMITS:

FIELD 1:

- 1 = ONLINE TRANSLATION UPDATE IS BEING PERFORMED
- 2 = OFFLINE TRANSLATION UPDATE IS BEING PERFORMED
- 3 = SUBSEQUENT ONLINE TRANSLATION UPDATE
- = UPDATE(S) COMPLETED OR ERROR DETECTED

FIELD 2:

- 1 = TRANSLATION MEMORIES ARE BEING COMPARED  
(DUPLICATED SYSTEMS ONLY). IF NOT IDENTICAL,  
ERROR CODE 75 IS DISPLAYED.
- 2 = TRANSLATIONS ON TAPE ARE BEING UPDATED
- 3 = TRANSLATIONS ON TAPE ARE BEING COMPARED TO MEMORY
- 4 = TAPE IS BEING PARKED.  
WHEN FIELD 1 = 2, OFFLINE TRANSLATION UPDATE IS BEING INITIALIZED.

FIELD 3:

- , 0 = THE UPDATE COMPLETED SUCCESSFULLY
- 1-9 = NUMBER OF TIMES A TAPE OPERATION FAILED AND WAS RESTARTED  
DURING THE ONLINE TRANSLATION UPDATE

FIELD 4:

- = THE UPDATE COMPLETED SUCCESSFULLY
- 0-9 = NUMBER OF TIMES A TAPE OPERATION FAILED AND WAS RESTARTED  
DURING THE OFFLINE TRANSLATION UPDATE

WORD 1A

RUN TAPE

TPE



SPECIAL ERROR CODES:

- 80-YOU CANNOT ACCESS THE ONLINE TAPE SUBSYSTEM, REPORT TROUBLE.
- 81-THE ONLINE SIDE IS ON HOLDOVER POWER.
- 82-MANUAL DIAGNOSTICS PRECLUDE DOING AN ONLINE RUNTAPE.
- 83-THE ONLINE TAPE FAILED TO COMPLETE THE UPDATE.
- 84-THE ONLINE TAPE CARTRIDGE IS NOT IN THE TAPE DRIVE.
- 85-YOU CANNOT ACCESS THE OFFLINE PROCESSOR.
- 86-THE ONLINE TAPE CARTRIDGE IS WRITE PROTECTED.
- 87-THE ONLINE COMPARE OPERATION FAILED TO COMPLETE.
- 88-THE ONLINE TRANSLATION AND TAPE DO NOT COMPARE.
- 89-YOU CANNOT INITIATE AN OFFLINE RUNTAPE, REPORT TROUBLE.
- 90-YOU CANNOT ACCESS THE OFFLINE TAPE SUBSYSTEM. REPORT TROUBLE.
- 91-THE OFFLINE SIDE IS ON HOLDOVER POWER.
- 92-MANUAL DIAGNOSTICS PRECLUDE DOING AN OFFLINE RUNTAPE.
- 93-THE OFFLINE TAPE FAILED TO COMPLETE THE UPDATE.
- 94-THE OFFLINE TAPE CARTRIDGE IS NOT IN THE TAPE DRIVE.
- 96-THE OFFLINE TAPE CARTRIDGE IS WRITE PROTECTED.

- 97-THE OFFLINE COMPARE OPERATION FAILED TO COMPLETE.
- 98-THE OFFLINE TRANSLATION AND TAPE DO NOT COMPARE.

WORD 1B

RUN TAPE

TPE



FLIPCHART  
ISSUE 9

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### SINGLE TERMINAL TRANSLATION

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**INPUT FIELDS:**

DISPLAY: 1 OR 2-6  
 ADD: 1-9  
 REMOVE: 1-9  
 CHANGE: 1 OR 2-9, BUT NOT BOTH  
 NEXT DATA: DISPLAYS THE PROCEDURES IN FIELD 11 THAT CONTAIN TRANSLATION THAT MUST BE REMOVED BEFORE A GIVEN EXTENSION IN THIS PROCEDURE CAN BE REMOVED.

**SPECIAL ERROR CODES:**

81-THE EQUIPMENT IN FIELDS 2-6 IS INCOMPATIBLE WITH THE PORT TYPE IN FIELD 8.  
 82-CHANGE EITHER THE EXTENSION OR THE EQUIPMENT LOCATION, BUT NOT BOTH. THE EXTENSION OR EQUIPMENT LOCATION MUST BE ASSIGNED BEFORE A CHANGE CAN BE MADE. TO ISOLATE THE CONFLICT, DISPLAY THE EXTENSION, THEN CLEAR THE DISPLAY, AND DO A DISPLAY ON THE EQUIPMENT LOCATION.  
 83-A TEST LINE IS ALREADY ASSIGNED FOR THE MODULE IN FIELD 2.  
 84-ONLY CIRCUITS 0.1 CAN BE USED FOR FACILITY TEST.

85-REMOVE ALL OCCURRENCES OF THIS EXTENSION FROM THE PROCEDURES SHOWN IN FIELD 11 BEFORE REMOVING THE EXTENSION HERE.  
 86-CLASS OF SERVICE 31 IS RESERVED AND CANNOT BE CHANGED.  
 87-EXTENSION CANNOT BE REMOVED BECAUSE IT HAS STORED MESSAGES.  
 88-CANNOT ASSIGN THE 24TH TIME SLOT IN A REMOTE CARRIER GROUP.  
 89-PORT TYPE MUST BE ON-PREMISE OR OFF-PREMISE FOR PORTS ASSIGNED TO A REMOTE CARRIER GROUP.  
 90-DS1 BOARD DOES NOT USE ROBBED BIT SIGNALLING; CANNOT ASSIGN THE PORT AS A LINE.

WORD 1	TERMINAL EQUIPMENT LOCATION					CLASS OF SERVICE	PORT TYPE	DISABLED SIGNALLING	DISPLAY ONLY		SINGLE TERMINAL TRANS	
	EXTENSION OR VDN	MODULE	CABINET	CARRIER	SLOT				CIRCUIT	RECENT DISCONNECT		USE THE PROCEDURE(S) SHOWN
	1	2	3	4	5	6	7	8	9	10	11	000

SPECIAL ERROR CODES CONTINUED:

- 91-THE NUMBER OF CIRCUITS PER SLOT ON A DS1 BOARD HAS BEEN EXCEEDED.  
92-THE SLOT ALREADY HAS A TRUNK ASSIGNED, YOU CANNOT ADD A LINE.  
93-DCP DATA LINES ARE THE ONLY MULTI APPEARANCE TERMINALS THAT CAN BE ASSIGNED AS A HOT LINE. SEE PROC 000 WORD 3.  
94-CHANGE IS NOT ALLOWED WHEN A VECTOR DIRECTORY NUMBER (VDN) IS INDICATED IN FIELDS 1 OR 8.  
95-THE EXTENSION CANNOT BE CHANGED OR REMOVED BECAUSE IT HAS A PERSONAL LIST OR DEFAULT DIALING ASSIGNED. USE PROC 059 WORD 1 TO REMOVE THIS LIST, OR USE PROC 059 WORD 4 TO REMOVE DEFAULT DIALING.  
96-THE ACD MEMBER FLAG MUST BE SET IN PROC 010 WORD 1 FOR THIS CLASS OF SERVICE.

NOTES:

1. USE PROC 075 WORD 1 TO FIND ALL EXTENSIONS WITH SAME CLASS OF SERVICE.
2. TO ADD AN EXTENSION FOR MULTI APPEARANCE TERMINAL OR DATA MODULE, ENTER DATA IN FIELDS 1 AND 7 ONLY.
3. A REMOVE ROUTINE ON AN ASSIGNED EXTENSION PLACES IT IN RECENT DISCONNECT. A REMOVE ROUTINE ON AN EXTENSION IN RECENT DISCONNECT COMPLETELY REMOVES THE EXTENSION. SEE PROC 003 WORD 1.
4. A TOUCH-TONE HOTLINE TERMINAL WHICH USES MANUAL DIGIT ENTRY MUST BE ASSIGNED TO A TOUCH-TONE COS, AND SUCH A ROTARY TERMINAL TO A ROTARY COS.
5. TO ADD A VDN ENTER DATA IN FIELDS 1, 7 AND 8 ONLY.
6. ALL MODULE PROCESSORS MUST BE EQUIPPED WITH 380D CIRCUIT PACKS TO ADMINISTER AN OFF-PREMISE EXTENSION.

WORD 1A

SINGLE  
TERMINAL  
TRANS

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EQUIPMENT LOCATION TO CHANNEL CONVERSION  
FOR A LINE ON DSI TRUNK BOARD.

SLOT \ CKT	0	1	2	5	6	7
0	13	14	15	18	19	20
1	13	14	15	1	2	3
2	16	17	18	4	5	6
3	19	20	21	7	8	9
4	22	23	24	10	11	12

EQUIPMENT LOCATION TO CHANNEL  
NUMBER CONVERSION FOR DSI LINE  
ONLY CONFIGURATION.

SLOT \ CKT	0	1	2
0	5	6	7
1	13	14	15
2	18	19	20
3	1	2	3
4	4	5	6
5	7	8	9
6	10	11	12
7	13	14	15
8	16	17	18
9	19	20	21
10	22	23	24

FIELD LIMITS:

- FIELD 1: -, 000-99999
- FIELD 2: 0-30
- FIELD 3: 0-7
- FIELD 4: 0-3
- FIELD 5: 0-3, 5-8, 13-16, 18-21
- FIELD 6: 0-7
- FIELD 7: -, 1-30, 32-63
- FIELD 8:
  - = EXTENSION ADMINISTERED  
IN PROC 052
  - 1 = ON-PREMISE EXTENSION
  - 2 = OFF-PREMISE EXTENSION
  - 3 = TEST LINE
  - 4 = VECTOR DIRECTORY NUMBER
  - 5 = RESERVED FOR OSS
  - 6 = OFF-PREMISE EXTENSION  
WITH TERMINAL BALANCE
  - 9 = DSI OPS LINE

FIELD 9:

- = FOR NON DSI OPS LINE
- 0 = SIGNALLING ENABLED FOR DSI OPS LINE
- 1 = SIGNALLING DISABLED FOR DSI OPS LINE

FIELD 10:

- 0 = EXTENSION IS NOT IN RECENT DISCONNECT
- 1 = EXTENSION IS IN RECENT DISCONNECT  
(SEE PROC 003 WORD 1)

FIELD 11: 000-999

WORD 1B

SINGLE  
TERMINAL  
TRANS

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FLIPCHART  
ISSUE 9

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**SINGLE TERMINAL -  
FEATURE AND RESTRICTION GROUP**

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**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-10  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-10 TO DISCONTINUE SERVICE, ENTER  
 A DASH IN FIELD 2 OR A 0 IN FIELDS  
 3-10 AND USE THE CHANGE ROUTINE.  
 NEXT DATA: DISPLAYS ALL ASSIGNED EXTENSIONS

**SPECIAL ERROR CODES:**

81-ASSIGNMENT OF MESSAGE RETRIEVAL REQUIRES A CALL COVERAGE  
 GROUP TO BE ASSIGNED.  
 82-AP OR AUDIX NUMBER IS REQUIRED.  
 83-AN EXTENSION NUMBER CANNOT HUNT TO ITSELF OR AN ASSOCIATE  
 EXTENSION.  
 84-THE ACD SPLIT IN THE COVERAGE GROUP IS ASSOCIATED WITH A  
 DIFFERENT AP OR AUDIX THAN THE ONE ASSIGNED IN FIELD 8 OR  
 10. USE PROC 026 TO FIND THE OTHER AP OR AUDIX.

85-USE THE DISPLAY ROUTINE IN WORD 1 TO IDENTIFY THE PROC THAT  
 MUST BE USED TO ADMINISTER THIS EXTENSION.  
 86-EVEN NUMBERED COVERAGE MUST BE ASSIGNED IN THE DUAL PATH  
 SECTION.  
 87-EXTENSION MUST BE REMOVED IN PROC 026 WORD 3 BEFORE IT CAN  
 BE REMOVED IN THIS PROC.  
 88-CURRENT LWC HAS UNACCESSSED MESSAGES FOR THIS EXTENSION.  
 89-THE VDN IN THE COVERAGE GROUP REFERENCES AN ACD SPLIT WHICH  
 IS ASSOCIATED WITH A DIFFERENT AP/AUDIX THAN THE ONE  
 ASSIGNED IN FIELD 8 OR FIELD 10.

WORD 2	EXTENSION	HUNT TO	AUX ANI NUMBER	CALL PICKUP GROUP	ATND CONTROL OF VOICE TERMINAL GROUP	CALL COVERAGE		AP	LWC DESTINATION	AUDIX	SINGLE TERMINAL FEATURE		
						COVERAGE GROUP	MESSAGE RETRIEVAL						
	1		2	3		4	5	6	7	8	9	10	000

SPECIAL ERROR CODES CONTINUED:

90-THE CALL PICKUP GROUP TRANSLATIONS FOR THIS EXTENSION ARE INCORRECT.  
THIS COULD LEAD TO SERIOUS SWITCH PROBLEMS, INCLUDING SWITCH RELOAD.  
FOLLOW THE STANDARD ESCALATION PROCEDURE.

NOTES:

1. USE PROC 076 WORD 1 TO FIND ALL EXTENSIONS THAT HUNT TO THIS EXTENSION.
2. CALL PICKUP, ATND CONTROL OF VOICE TERM AND CALL COVERAGE GROUPS CAN BE SEARCHED WITH PROC 075 WORD 1.
3. ADFTC'S HUNT TO EACH OTHER IN THE ORDER THAT THEY WERE ASSIGNED IN PROC 051 AND 052. PROC 000 WORD 2 DOES DISPLAY THE HUNTING ADFTC'S, BUT DOES NOT ALLOW THE ASSIGNMENT OF HUNTING TO ADFTC'S. IF AN EXTENSION IS ONLY GIVEN A CLASS OF SERVICE IN PROC 000, IT CAN BE ASSIGNED AS A HUNT EXTENSION. IF IT LATER IS ASSIGNED AS ADFTC, IT IS REMOVED FROM THE EXTENSION HUNTING AND ASSIGNED AS ADFTC HUNTING.

FIELD LIMITS:

FIELD 1: 000, 99999

FIELD 2: 000, 99999

FIELD 3: 0-1

FIELD 4: 0-999

FIELD 5: 0-63

FIELD 6:

- = NO COVERAGE

0 = NOT ASSIGNED

1-1999 = SINGLE PATH

2000-4095 = DUAL PATH

FIELD 7:

0 = NO MESSAGE RETRIEVAL

1 = MESSAGE RETRIEVAL

FIELD 8:

0 = NOT ASSIGNED

1-7 = ASSIGNED TO  
MESSAGE CENTER

FIELD 9:

0 = NOT ASSIGNED

1 = SWITCH

2 = AP

3 = AUDIX

FIELD 10: RANGE = 0-8

0 = NOT ASSIGNED

1-8 = ASSIGNED

WORD 2A

SINGLE  
TERMINAL  
FEATURE

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FLIPCHART  
ISSUE 9

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**SINGLE TERMINAL  
MISCELLANEOUS FEATURES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
ADD: 1-4  
REMOVE: NOT ALLOWED  
CHANGE: 2-4  
NEXT DATA: DISPLAYS ALL ASSIGNED EXTENSIONS

**SPECIAL ERROR CODES:**

81-THIS EXTENSION IS NOT ON-PREMISE OR OFF-PREMISE, OR THE EXTENSION NUMBER OF A DATA MODULE.  
82-THIS EXTENSION IS NOT THE EXTENSION NUMBER OF A DATA MODULE.  
85-USE THE DISPLAY ROUTINE IN WORD 1 TO IDENTIFY THE PROCEDURE THAT MUST BE USED TO ADMINISTER THIS EXTENSION.

**NOTES:**

1. A DATA MODULE HOT LINE WILL DIAL THE DEFAULT DIAL TELEPHONE NUMBER FOR THE DATA MODULE. AN ANALOG HOT LINE WILL DIAL THE TELEPHONE NUMBER STORED IN PERSONAL LIST A, ITEM 1.

**FIELD LIMITS:**

FIELD 1: -, 000-99999  
FIELD 2:  
0 = NOT A HOT LINE  
1 = IS A HOT LINE  
FIELD 3:  
0 = NOT SUPPORTED  
1 = SUPPORTED

**FIELD 4:**

0 = DISABLED  
1 = ENABLED

WORD 3

EXTENSION

HOT LINE

DSC  
MESSAGE

AAMW

1

2

3

4

**SINGLE  
TERMINAL  
MISC.**

**000**

FLIPCHART  
ISSUE 9

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**EXTENSION NPA - NXX/PARTITION ASSIGNMENT**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 3 OR 4  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1, 3 AND 4 OR 1-4  
NEXT DATA: DISPLAYS ALL EXTENSIONS IN A PARTITION. NEXT DATA CAN STEP ON FIELD 4 ONLY IF TENANT SERVICE FEATURE IS NOT ADMINISTERED.

**SPECIAL ERROR CODES:**

81-EXTENSION MUST BE ASSIGNED IN PROC 000 WORD 1 AND CANNOT BE AN ASSOCIATED EXTENSION.  
82-FIRST EXTENSION NUMBER CANNOT BE GREATER THAN LAST EXTENSION NUMBER.  
83-NPA-NXX NUMBERS MUST BE ASSIGNED TO THE ENTERED NPA-NXX DESIGNATOR IN PROC 354 WORD 3 BEFORE CHANGING IN THIS WORD.

**NOTES:**

1. WHEN EXTENSION IS ASSIGNED IN PROC 000 WORD 1, THE EXTENSION IS DEFAULTED TO EXTENSION PARTITION 0.
2. TO REMOVE AN EXTENSION FROM AN EXTENSION PARTITION, RE-ASSIGN THE EXTENSION TO EXTENSION PARTITION 0 WITH THE CHANGE OPERATION.

WORD 4

FIRST  
EXTENSION

1

LAST  
EXTENSION

2

EXTENSION  
PARTITION

3

NPA-NXX  
DESIGNATOR

4

DISPLAY ONLY

INVALID EXTENSION

5

EXTENSION  
NPA-NXX

**000**

NOTES CONTINUED:

3. IF BOTH EXTENSION (FIELD 1) AND PARTITION (FIELD 3) ARE GIVEN, THE DISPLAY OPERATION WILL WORK ON THE EXTENSION.
4. USE PROC 354 WORD 2 TO DETERMINE THE TYPE OF THE INVALID EXTENSION.
5. IF FIELD 2 IS NOT ENTERED, INFORMATION ASSOCIATED WITH THE FIRST EXTENSION NUMBER WILL BE CHANGED. IF FIELD 2 IS ENTERED, INFORMATION ASSOCIATED WITH THE EXTENSION BLOCK SPECIFIED BY THE FIRST AND LAST EXTENSION NUMBERS WILL BE CHANGED.
6. IF TENANT SERVICES IS NOT ACTIVATED IN PROC 276, FIELD 3 MUST BE DASHED.

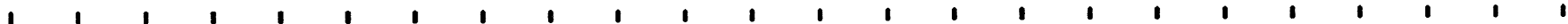
FIELD LIMITS:

- FIELD 1: 000-99999
- FIELD 2: 001-99999
- FIELD 3: -, 0-999
- FIELD 4: -, 1-99
- FIELD 5: 000-99999

WORD 4A

EXTENSION  
NPA-NXX

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**TERMINAL TRANSLATION - MULTIPLE EXTENSION**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: 1 AND 2  
REMOVE: 1-2  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL ASSOCIATED EXTENSIONS

SPECIAL ERROR CODES:

81-THE ASSOCIATED EXTENSION IS NOT RELATED TO THE PRIMARY EXTENSION.  
82-AN ASSOCIATED NUMBER CANNOT ALSO BE A PRIMARY EXTENSION.  
83-AN ASSOCIATED EXTENSION CANNOT HAVE BEEN PREVIOUSLY ASSIGNED USING PROC 000 WORD 1.  
84-PRIMARY & ASSOCIATED NUMBERS MUST HAVE AT LEAST 3 DIGITS.  
85-THE NUMBER OF DIGITS IN AN ASSOCIATED EXTENSION MUST EQUAL THE NUMBER OF DIGITS IN A PRIMARY EXTENSION.

86-AN ASSOCIATED EXTENSION CANNOT HAVE BEEN PREVIOUSLY ASSIGNED AS AN LDN.  
87-USE PROC 026 WORD 2 TO CHANGE THE ASSOCIATED EXTENSION OF AN ACD SPLIT.  
88-CANNOT REMOVE ASSOCIATED EXTENSION THAT IS ASSIGNED TO NAME DISPLAY IN PROC 012 WORD 1.

FIELD LIMITS:  
FIELDS 1 & 2: 000-99999

PRIMARY  
EXTENSION

ASSOCIATED  
EXTENSION

1

2

TERM TRANS  
MULT EXT

001

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ISSUE 9

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**RECENTLY DISCONNECTED  
EXTENSIONS**

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INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2  
NEXT DATA: DISPLAYS ALL EXTENSIONS IN THE  
RECENT DISCONNECT STATE

SPECIAL ERROR CODES:

81-USE PROC 000 WORD 1 TO REMOVE THE EXTENSION. THIS PLACES  
THE ASSIGNED EXTENSION INTO THE RECENT DISCONNECT STATE.

NOTES:

1. CHANGING THE RECENT DISCONNECT STATE INTERVAL VALUE TO '0'  
TAKES THE EXTENSION OUT OF RECENT DISCONNECT, LEAVING THE  
EXTENSION ALLOCATED BUT UNASSIGNED. CHANGING THE RECENT  
DISCONNECT STATE INTERVAL ON AN UNASSIGNED EXTENSION TO A  
VALUE GREATER THAN 0, PUTS THE EXTENSION BACK INTO RECENT  
DISCONNECT.

FIELD LIMITS:

FIELD 1: 000-99999

FIELD 2:

- = EXTENSION NOT IN RECENT DISCONNECT

0 = EXTENSION NUMBER UNASSIGNED

1-511 = DAYS

FIELD 2:

1-511 = DAYS

WORD 1

EXTENSION  
NUMBER

DAYS  
REMAINING  
IN  
RECENT  
DISCONNECT

DISPLAY ONLY

DEFAULT RECENT  
DISCONNECT  
INTERVAL

RECENTLY  
DISC EXT

**003**

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FLIPCHART  
ISSUE 9

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**EXTENSION CLASS OF SERVICE - FEATURES**

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845552223

INPUT FIELDS:

DISPLAY: 1  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 3-10, 13-17, 19-23  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

83-FIELD 15 CANNOT BE CHANGED FOR COS 31.

FIELD LIMITS:

FIELD 1: 1-63  
 FIELD 3:  
 0 = DISABLED  
 1 = ENABLED  
 FIELD 4:  
 0 = DISABLED  
 1 = ENABLED  
 2 = ENABLED (DON'T ANSWER ONLY)

WORD 1	CLASS OF SERVICE	-	AUTOMATIC CALLBACK	CALL FWD		CALL HOLD	CALL NUMBER DISPLAY	PRIORITY CALLING	CALL WAITING	OVERRIDE	-	-	PRIORITY PAGING	CONF 3 PARTY/ TRANSFER	TT DIAL	TIMED RECALL INACTIVE	RING PING IMMEDIATE	-	ACD QUEUE DISPLAY	ACD MEMBER	STOP HUNT	ACD AGENT OVERRIDE	SEND ALL CALLS	EXTENSION COS FEATURES
	1		2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	010

FIELD LIMITS CONTINUED:

FIELDS 5 & 6:

0 = DISABLED

1 = ENABLED

FIELD 7:

0 = DISABLED

1 = ENABLED WITH CALLING NUMBER DISPLAY UNIT

2 = ENABLED WITH VOICE TERMINAL DISPLAY UNIT

FIELDS 8-10:

0 = DISABLED

1 = ENABLED

FIELDS 13 & 14:

0 = DISABLED

1 = ENABLED

FIELD 15:

0 = DISABLED (ROTARY DIALING)

1 = ENABLED (ROTARY AND TOUCH-TONE DIALING)

FIELDS 16 & 17:

0 = DISABLED

1 = ENABLED

FIELDS 19 & 20:

0 = DISABLED

1 = ENABLED

FIELD 21:

0 = HUNTING

1 = NO HUNTING

FIELDS 22 & 23:

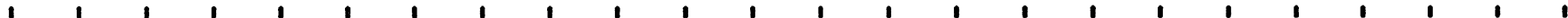
0 = DISABLED

1 = ENABLED

WORD 1A

EXTENSION  
COS  
FEATURES

010





FLIPCHART  
ISSUE 9

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### EXTENSION CLASS OF SERVICE - RESTRICTIONS

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-23  
 NEXT DATA: NOT ALLOWED

**NOTES:**

1. A COS CANNOT BE REMOVED, IT CAN ONLY BE DISPLAYED AND CHANGED. A COS WITH ZEROS IN ALL FIELDS IS LEGITIMATE, WHICH MEANS THERE WILL BE NO RESTRICTIONS EXCEPT FOR AN FRL OF 0 (MOST RESTRICTIVE). COS 31 IS RESERVED FOR TEST CIRCUITS AND IS THE COS APPLIED TO CALLERS USING THE REMOTE ACCESS FEATURE ONCE THEY HAVE GAINED ACCESS TO THE SWITCH.

**FIELD LIMITS:**

FIELD 1: 1-63  
 FIELDS 2-11:  
 0 = NOT RESTRICTED  
 1 = RESTRICTED  
 FIELD 12:  
 0 = LEAST RESTRICTIVE  
 1 = MOST RESTRICTIVE  
 2 = MORE RESTRICTIVE  
 3 = RESTRICTIVE

**FIELDS 13-22:**

0 = NOT RESTRICTED  
 1 = RESTRICTED  
 FIELD 23:  
 0-7 (0 BEING MOST RESTRICTIVE  
 7 BEING LEAST RESTRICTIVE)

WORD 3	CLASS OF SERVICE	MISCELLANEOUS TRUNK RESTRICTION GROUP									APLT OFF NET	CODE RESTRICTION LEVEL	DATA PROTECTION (PERMANENT)	DID	TERM TO TERM ONLY	INWARD	MAN LINE TERM	ORIGINATION	OUTWARD	TERMINATION	TOLL	ARS TOLL	FRL	COS RESTRICTIONS
		GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7	GROUP 8	ALL														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	010

FLIPCHART  
ISSUE 9

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**EXTENSION CLASS OF SERVICE - RESTRICTIONS**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2-4  
NEXT DATA: NOT ALLOWED

NOTES:

1. A COS CANNOT BE REMOVED, IT CAN ONLY BE DISPLAYED OR CHANGED. A COS WITH ZEROS IN ALL FIELDS IS LEGITIMATE. COS 31 IS RESERVED FOR TEST CIRCUIT AND IS THE COS APPLIED TO CALLERS USING THE REMOTE ACCESS FEATURE ONCE THEY HAVE GAINED ACCESS INTO THE SWITCH.

FIELD LIMITS:

FIELD 1: 1-63  
FIELD 2:  
- = PRECEDENCE CALLING NOT ALLOWED  
0 = FLASH OVERRIDE  
1 = FLASH  
2 = IMMEDIATE  
3 = PRIORITY  
4 = ROUTINE

WORD 4

CLASS  
OF  
SERVICE

1

MAX  
PRECEDENCE  
LEVEL

2

BEARER  
CAPABILITY

3

ISDN  
ROUTING

4

COS  
RESTRICTIONS

**010**

EXTENSION CLASS OF SERVICE - RESTRICTIONS

FIELD LIMITS CONTINUED:

FIELD 3:

- 0 = VOICE OR VOICE GRADE
- 1 = MODE 1 DATA
- 2 = MODE 2 DATA
- 3 = MODE 3 DATA
- 4 = MODE 0 DATA

FIELD 4:

- = ISDN IS NOT SUPPORTED
- 0 = USE ANY FACILITY
- 1 = USE ISDN EXCLUSIVELY
- 2 = USE ISDN IF AVAILABLE

WORD 4A

COS  
RESTRICTIONS

010

0 0



## SPECIAL ERROR CODES CONTINUED:

90-IF THERE IS A ACD SPLIT OR A VECTOR DIRECTORY NUMBER IN THE PATH, IT MUST BE THE LAST POINT. (SEE FIELD 7 LIMITS).

91-FIELDS 2-6 CAN ONLY BE CHANGED WHEN THE COVERAGE POINT (FIELD 8) IS SET TO 1; FIELDS 7-9 CAN BE CHANGED WHEN FIELD 8 IS SET TO 1, OR 2 OR 3.

92-USE PROC 031 WORD 1 TO TERMINATE A VDN TO A VECTOR BEFORE ADDING IT TO A COVERAGE PATH.

93-VDN TERMINATES TO A VECTOR REFERENCING A MESSAGE CENTER SPLIT WHICH HAS A DIFFERENT AP NUMBER (PROC 026 WORD 1) THAN AT LEAST ONE OF THE EXTENSIONS ARE ASSIGNED TO THIS COVERAGE PATH (PROC 000 WORD 2).

94-VDN TERMINATES TO A VECTOR REFERENCING AN AUDIX SPLIT WHICH HAS A DIFFERENT AUDIX NUMBER (PROC 026 WORD 1) THAN AT LEAST ONE OF THE EXTENSIONS THAT ARE ASSIGNED TO THIS COVERAGE PATH (PROC 000 WORD 2).

95-FIELD 7 INDICATES A VECTOR DIRECTORY NUMBER (VDN), BUT AN EXTENSION IS ENTERED IN FIELD 9, OR FIELD 7 INDICATES AN EXTENSION AND A VDN IS ENTERED IN FIELD 9.

## NOTES:

1. AN EXTENSION MUST BE REMOVED FROM ALL CALL COVERAGE PATHS BEFORE IT IS REMOVED FROM SERVICE IN PROC 000 WORD 1. AN ACD SPLIT MUST BE REMOVED FROM ALL CALL COVERAGE PATHS BEFORE IT IS REMOVED FROM THE SYSTEM IN PROC 026 WORD 1.
2. COVERAGE GROUPS 2000-4095 ARE DUAL COVERAGE PATH GROUPS WHERE THE EVEN NUMBERED GROUP IS PATH 1 AND THE ODD NUMBERED GROUP IS PATH 2. ONLY THE EVEN GROUP IS ASSIGNED IN PROC 000. ASSIGN THE SAME CRITERIA AND COVERAGE POINTS TO BOTH EVEN AND ODD GROUPS OF A PAIR TO USE GROUPS 2000-4095 AS SINGLE PATH GROUPS.

WORD 1A

CALL  
COVERAGE  
CRITERIA

011

FIELD LIMITS:

- FIELD 1:
- 1-1999 = SINGLE PATH
- 2000-4095 = DUAL PATH

- FIELDS 2-5:
- 0 = NO COVERAGE
- 1 = EXTENSION COVERAGE
- 2 = ATTENDANT OR TRUNK COVERAGE
- 3 = COVERAGE FOR BOTH ATTENDANT  
AND EXTENSION

- FIELD 6:
- 0 = NONE
- 2-6 = 2-6 RINGING CYCLES

- FIELD 7:
- 0 = EXTENSION
- 1 = ACD SPLIT
- 2 = VECTOR DIRECTORY NUMBER

- FIELD 8: 1-3
- FIELD 9:
- 000-99999 = EXTENSIONS AND VDN
- 1-60 = ACD SPLIT

WORD 1B

CALL  
COVERAGE  
CRITERIA

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FLIPCHART  
ISSUE 9

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**NAME DATABASE - NAME TO BE DISPLAYED**

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**INPUT FIELDS:**

DISPLAY: 1-2  
 ADD: 1-5 OR 1-6  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 3-4  
 NEXT DATA: SEE ERROR CODE 87

**SPECIAL ERROR CODES:**

81-USE WORD 3 TO COMPACT THE NAMES DATA BASE TABLE.  
 82-ASSOCIATED EXTENSION NAME CANNOT BE ASSIGNED IF ITS PRIMARY EXTENSION BELONGS TO A SHARED SET OF PRIMARY EXTENSIONS.  
 83-SHARE OPERATION IS ILLEGAL FOR AN ASSOCIATED EXTENSION. USE COPY MODE (FIELD 5) = 0 OR 2.  
 84-PRIMARY EXTENSIONS MAY NOT SHARE A NAME IF THE ASSOCIATED EXTENSION OF EITHER HAS A NAME ASSIGNED.  
 85-CANNOT REMOVE THE NAME OF A PRIMARY EXTENSION IF THE ASSOCIATED EXTENSION HAS A NAME ASSIGNED.

86-ASSIGN THE PRIMARY EXTENSION NAME BEFORE ASSIGNING THE ASSOCIATED EXTENSION NAME.  
 87-NEXT DATA OPERATES ONLY ON PRIMARY EXTENSIONS, VDN'S OR TRUNK GROUPS THAT SHARE THE NAME.  
 88-THE FIRST DISPLAY START NUMBER (FIELD 3) EXCEEDS THE NUMBER OF CHARACTERS IN THE NAME CURRENTLY STORED ON A SHARE OR COPY OPERATION (FIELD 5 = 1 OR 2).  
 89-YOU CANNOT CHARE MORE THAN 63 PRIMARY EXTENSIONS (OR TRUNK GROUPS) WITH A SINGLE NAME.

WORD 1	EXTENSION OR VECTOR DIRECTORY NUMBER OR TRUNK GROUP	TYPE	DISPLAY START	OUTGOING TRUNK DISPLAY	COPY MODE	EXTENSION VDN OR TRUNK GROUP TO COPY OR SHARE	DISPLAY ONLY			NAME DATABASE
							CHARACTERS IN NAME	NO SHARED PRIMARY EXTENSIONS OR TRUNK GROUPS	ASSOC EXT NAME ASSIGNED	
.	.	.	.	.	.	.	.	.	.	012
1		2	3	4	5	6	7	8	9	

SPECIAL ERROR CODES CONTINUED:

- 90-YOU CANNOT SHARE OR COPY FROM EXTENSION (OR VDN OR TRUNK GROUP) WITH NO NAME ASSIGNED.
- 91-A PRIMARY EXTENSION AND AN ASSOCIATED EXTENSION CANNOT SHARE A NAME.
- 92-YOU CANNOT SET OUTGOING TRUNK DISPLAY FLAG (FIELD 4) TO 0 OR 1 FOR INCOMING-ONLY TRUNK GROUPS.
- 93-THE NAME IS NOT ASSIGNED.
- 94-THE NAME IS ALREADY ASSIGNED. CHOOSE A DIFFERENT ONE.

FIELD LIMITS:

- FIELD 1:
  - 000-99999 = EXTENSIONS OR VDN'S
  - 18-999 = TRUNK GROUPS
- FIELD 2:
  - 0 = TRUNK GROUP
  - 1 = EXTENSION OR VDN
- FIELD 3: 1-30
- FIELD 4:
  - = NOT AN OUTGOING TRUNK IN FIELD 1
  - 0 = NAME NOT DISPLAYED FOR OUTGOING TRUNK
  - 1 = NAME DISPLAYED FOR OUTGOING TRUNK
- FIELD 5:
  - 0 = USE WORD 2 TO ENTER, ADD OR CHANGE A NAME
  - 1 = SHARE KEY TO EXISTING NAME
  - 2 = CREATE NAME BY COPY
- FIELD 6:
  - 000-99999 = EXTENSIONS
  - 18-999 = TRUNK GROUPS

- FIELD 7: 1-30
- FIELD 8: -, 1-63
- FIELD 9:
  - 0 = EXTENSION NAME NOT ASSIGNED
  - 1 = EXTENSION NAME IS ASSIGNED
  - = TRUNK GROUP IN FIELD 1

WORD 1A

NAME DATABASE

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FLIPCHART  
ISSUE 9

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**NAME DATABASE - ENTRY**

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
ADD: 1-11  
REMOVE: NOT ALLOWED  
CHANGE: 2-11  
NEXT DATA: DISPLAYS THE CHARACTER ASSIGNED  
TO EACH SEGMENT

**SPECIAL ERROR CODES:**

81-USE PROC 12 WORD 3 TO COMPACT TABLE.  
82-YOU MUST DO DISPLAY ROUTINE USING PROC 12 WORD 1 PRIOR TO  
USING THIS PROCEDURE.  
83-THE NUMBER IN THE DISPLAY START FIELD (FIELD 3) OF PROC 12  
WORD 1 CANNOT BE GREATER THAN THE NUMBER OF CHARCTERS IN A  
GIVEN NAME.  
84-ATTEMPTS TO ADD A NAME OF OR CHANGE A NAME TO A ZERO  
CHARTER LENGTH ARE NOT ALLOWED.

**NOTES:**

1. TO CREATE A NAME, EACH LETTER (CAPITAL OR LOWER) IS ENTERED  
INTO FIELDS 2-11. EACH SEGMENT CANNOT EXCEED 10 CHARACTERS.  
**FIELD LIMITS:**  
**FIELD 1**  
1 = ASSIGN CHARACTERS 1-10  
2 = ASSIGN CHARACTERS 11-20  
3 = ASSIGN CHARACTERS 21-30  
FIELDS 2-11: 0-99

WORD 2

SEGMENT

CHARACTER  
1

CHARACTER  
2

CHARACTER  
3

CHARACTER  
4

CHARACTER  
5

CHARACTER  
6

CHARACTER  
7

CHARACTER  
8

CHARACTER  
9

CHARACTER  
10

NAME DATABASE

012

THE FOLLOWING CHART SHOWS: NAME DATA BASE CHARACTER ENCODES AND MMAP CHARACTER ENCODES:

A - 21	H - 42	O - 63	V - 83	a - 24	h - 45	o - 66	v - 86	0 - 00	7 - 07	. - 10	' - 29	\ - 70	+ - 59	& - 88
B - 22	I - 43	P - 71	W - 91	b - 25	i - 46	p - 74	w - 94	1 - 01	8 - 08	! - 17	, - 30	[ - 67	* - 60	€ - 89
C - 23	J - 51	Q - 11	X - 92	c - 26	j - 54	q - 14	x - 95	2 - 02	9 - 09	? - 18	( - 37	] - 68	< - 77	\$ - 90
D - 31	K - 52	R - 72	Y - 93	d - 34	k - 55	r - 75	y - 96	3 - 03		; - 19	) - 38	- 69	> - 78	BLANK - 50
E - 32	L - 53	S - 73	Z - 12	e - 35	l - 56	s - 76	z - 15	4 - 04		: - 20	[ - 47	- - 39	= - 79	~ - 40
F - 33	M - 61	T - 81		f - 36	m - 64	t - 84		5 - 05		' - 27	] - 48	^ - 49	z - 80	
G - 41	N - 62	U - 82		g - 44	n - 65	u - 85		6 - 06		' - 28	/ - 57	- - 58	# - 87	

ILLEGAL ENCODES:

13  
16  
97  
98  
99

A CONVENIENT WAY EXISTS FOR RECALLING THE TWO DIGIT ENCODES FOR NUMBERS AND LETTERS. FOR NUMBERS: THE FIRST DIGIT IS 0, THE SECOND IS THE NUMBER ITSELF. MOST ALPHABETIC ENCODES ARE DERIVED FROM THE CHARACTER POSITION ON THE TOUCH-TONE PAD OF THE MMAP. (THE EXCEPTIONS ARE Q AND Z WHICH ARE ASSUMED TO RESIDE ON BUTTON 1.) FOR UPPER CASE LETTERS: THE FIRST DIGIT CORRESPONDS TO THE NUMBER OF THE KEY ON WHICH THE LETTER APPEARS; THE SECOND DIGIT CORRESPONDS TO THE POSITION OF THE LETTER AMONG THE THREE LETTERS ON THAT KEY. FOR LOWER CASE LETTERS: THE ENCODE IS DERIVED BY ADDING 3 TO THE CORRESPONDING UPPER CASE ENCODE.

NAME DATABASE

012

WORD 2A



FLIPCHART  
ISSUE 9

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### NAME DATABASE COMPACTION

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#### INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1  
NEXT DATA: NOT ALLOWED

#### NOTES:

1. BEFORE COMPACTING THE DATA BASE, DO A DISPLAY ROUTINE TO SEE IF THE DATABASE NEEDS TO BE COMPACTED. IF FIELD 4 EQUALS 0, THE DATABASE IS ALREADY COMPACT. TO COMPACT THE DATABASE ENTER A 1 IN FIELD 1 AND DO A CHANGE ROUTINE.
2. TO ESTIMATE THE NUMBER OF NAMES THAT CAN BE GAINED BY COMPACTING, ADD FIELDS 3 AND 4 AND DIVIDE THE SUM BY THE NUMBER OF WORDS REQUIRED TO STORE A TYPICAL SIZE NAME. ONE WORD IS EQUAL TO TWO CHARACTERS.

#### FIELD LIMITS:

FIELD 1:  
- = NO COMPACTION  
1 = COMPACT NAME DATABASE  
FIELDS 2-4: DEPENDS ON MEMORY SPACE

DISPLAY ONLY

WORD 3

COMPACT

1

NAMES THAT CAN YET  
BE ASSIGNED

2

WORDS AVAILABLE

3

WORDS TO BE  
GAINED BY COMPACTION

4

NAME DATABASE

012

FLIPCHART  
ISSUE 9

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**ALPHANUMERIC CHARACTERS MNEMONIC DIALING**

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**INPUT FIELDS:**

DISPLAY: 1-11  
ADD: 1-11  
REMOVE: 1-11  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS MNEMONICS IN ALPHABETICAL  
ORDER

**SPECIAL ERROR CODES:**

81-THE FIRST CHARACTER OF THE MNEMONIC MUST BE ALPHABETIC, AND  
CHARACTERS 2-10 ARE ALPHANUMERIC.  
82-THIS MNEMONIC IS NOT IN THE LIST.  
83-THIS MNEMONIC IS ALREADY IN THE LIST.  
84-THE MAXIMUM NUMBER OF MNEMONICS IS ALREADY STORED (1000).

**NOTES:**

1. SEE THE CHART ON WORD 1A FOR MNEMONIC CHARACTER ENCODES AND  
MAAP CHARACTER ENCODES.  
FIELD LIMITS:  
FIELD 1: -, 1  
FIELD 2: 00-09, 11, 12, 14, 15, 21-26, 31-36..91-96

WORD 1

SEGMENT

CHARACTER  
1

CHARACTER  
2

CHARACTER  
3

CHARACTER  
4

CHARACTER  
5

CHARACTER  
6

CHARACTER  
7

CHARACTER  
8

CHARACTER  
9

CHARACTER  
10

**MNEMONIC  
DIALING**

**013**

MNEMONIC DIALING ALPHANUMERIC CHARACTERS

THE FOLLOWING CHART SHOWS MNEMONIC CHARACTER ENCODES AND MAAP CHARACTER ENCODES:

ILLEGAL ENCODES:

A-21	H-42	O-63	V-83	a-24	h-45	o-66	v-86	0-00	7-07
B-22	I-43	P-71	W-91	b-25	i-46	p-74	w-94	1-01	8-08
C-23	J-51	Q-11	X-92	c-26	j-54	q-14	x-95	2-02	9-09
D-31	K-52	R-72	Y-93	d-34	k-55	r-75	y-96	3-03	
E-32	L-53	S-73	Z-12	e-35	l-56	s-76	z-15	4-04	
F-33	M-61	T-81		f-36	m-64	t-84		5-05	
G-41	N-62	U-82		g-44	n-65	u-85		6-06	

10	57-60
13	67-70
16-20	77-80
27-30	87-90
37-40	97-99
47-50	

A CONVENIENT WAY EXISTS FOR RECALLING THE TWO DIGIT ENCODES FOR NUMBERS AND LETTERS WITHOUT CONSTANT REFERENCE TO THIS TABLE. FOR NUMBERS: THE FIRST DIGIT IS 0, THE SECOND IS THE NUMBER ITSELF. MOST ALPHABETIC ENCODES ARE DERIVED FROM THE CHARACTER POSITION ON THE TOUCH-TONE PAD OF THE MAAP. (THE EXCEPTIONS ARE Q AND Z WHICH ARE ASSUMED TO RESIDE ON BUTTON 1). FOR UPPER CASE LETTERS: THE FIRST DIGIT CORRESPONDS TO THE NUMBER OF THE KEY ON WHICH THE LETTER APPEARS; THE SECOND DIGIT CORRESPONDS TO THE POSITION OF THE LETTER AMONG THE THREE LETTERS ON THAT KEY. FOR LOWER CASE LETTERS: THE ENCODE IS DERIVED BY ADDING 3 TO THE CORRESPONDING UPPER CASE ENCODE.

WORD 1A

MNEMONIC  
DIALING

013

FLIPCHART  
ISSUE 9

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**MNEMONIC DIALING PHONE NUMBERS**

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84552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-7  
NEXT DATA: DISPLAYS EACH TELEPHONE NUMBER  
SEGMENT

SPECIAL ERROR CODES:

81-A DISPLAY OR CHANGE IN PROC 013 WORD 2 CANNOT FOLLOW A  
REMOVE IN PROC 013 WORD 1.  
85-ILLEGAL CHARACTER ENTERED. FUNCTION ENTRY MUST BE FOLLOWED  
BY A SPECIAL FUNCTION ENCODE. A SPECIAL FUNCTION ENCODE MUST  
BE PRECEDED BY FUNCTION ENTRY.  
87-THE CHARACTER FOLLOWING SPECIAL FUNCTION 18 MUST BE A NUMBER  
FROM 1-15.

NOTES:

1. THE TELEPHONE NUMBER CAN BE A MAXIMUM OF 20 DIGITS LONG.  
2. ENTER THE TELEPHONE NUMBER SEGMENTS IN THE SAME SEQUENCE AS  
THE TELEPHONE NUMBER IS DIALED.

WORD 2

SEGMENT

READWRITE  
MODE

CHARACTER  
1

CHARACTER  
2

CHARACTER  
3

CHARACTER  
4

CHARACTER  
5

MNEMONIC  
DIALING

013

MNEMONIC DIALING PHONE NUMBERS

FIELD LIMITS:

FIELD 1:

- 1 = CHARS 1-5
- 2 = CHARS 6-10
- 3 = CHARS 11-15
- 4 = CHARS 16-20

FIELD 2:

- , 1 = READ OR WRITE MACHINE-USED TABLE
- 0 = READ OR WRITE SCRATCH-PAD TABLE

FIELDS 3-7: (CHARACTER ENCODES)

- 0-9 = DECIMAL DIGITS
- 11 = \*
- 12 = #
- 13 = FUNCTION ENTRY
- 14 = PAUSE
- 15 = WAIT
- 16 = MARK
- 17 = AWAIT DIAL TONE
- 18 = MANUAL DIGIT ENTRY
- 1-15 = NUMBER OF MANUAL DIGITS  
(MUST FOLLOW ENCODE 18)

WORD 2A

MNEMONIC  
DIALING

013

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FLIPCHART  
ISSUE 9

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NUMBER OF MNEMONICS

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

NOTES:

1. PROC 013 WORD 3 DISPLAYS THE NUMBER OF MNEMONICS THAT CAN  
STILL BE ADDED TO THE SYSTEM.

FIELD LIMITS:  
FIELD 1: 0-1000

WORD 3

DISPLAY ONLY

NUMBER OF  
MNEMONICS THAT CAN  
STILL BE ASSIGNED

1

NUMBER  
OF  
MNEMONICS

013

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION  
SPLIT CHARACTERISTICS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-11  
 REMOVE: 1-11  
 CHANGE: 2-9  
 NEXT DATA: DISPLAYS ALL ASSIGNED SPLITS

**SPECIAL ERROR CODES:**

81-ASSIGN THE CONTACT INTERFACE BOARD IN PROC 155 WORD 1.  
 82-BOARD 0, CIRCUIT 0 IS DEDICATED TO THE RELOAD WARNING LAMP.  
 83-REMOVE TRUNK GROUP TERMINATION USING PROC 115 WORD 1 BEFORE USING THIS PROCEDURE.  
 84-THIS QUEUING TRUNK GROUP HAS ALREADY BEEN ASSIGNED TO AN ACD SPLIT.  
 85-ASSIGN THE OUTFLOW LEVEL IN ORDER TO SPECIFY A LAMP CONTROL CIRCUIT.  
 86-REMOVE ALL SPLIT MEMBERS BEFORE REMOVING SPLIT.

87-THE SPLIT TYPE AND MACHINE NUMBER MAY NOT BE CHANGED.

88-REMOVE RECORDED ANNOUNCEMENTS USING PROC 027 WORDS 1 AND 2 OR (PROC 033 WHEN VECTORING IS ENABLED), BEFORE REMOVING SPLIT.  
 89-REMOVE 106B DISPLAY UNIT ASSIGNMENTS USING PROC 060 WORD 1, BEFORE REMOVING SPLIT.  
 90-BUSY OUT CMS USING PROC 028 WORD 2 BEFORE CHANGING TRANSLATIONS.  
 91-WHEN CALL VECTORING IS ENABLED, THIS FIELD MUST BE DASHED.  
 92-THIS MACHINE NUMBER IS IN USE BY A DIFFERENT SPLIT TYPE.

WORD 1	ACD SPLIT	SPLIT SIZE	ICI MESSAGE NUMBER	QUEUING TRUNK GROUP	OUTFLOW QUEUE LEVEL	LAMP CTL CKT		INFLOW LEVEL	HUNT TYPE	SPLIT TYPE	MACHINE NUMBER	DISPLAY ONLY	ACD SPLIT
						BOARD INDEX	CIRCUIT INDEX					UNASSIGNED MEMBERS	
	1	2	3	4	5	6	7	8	9	10	11	12	026

NOTES:

1. WHEN CALL VECTORING IS ENABLED, FIELD 5 IS USED AS A QUEUE WARNING LAMP LEVEL ONLY.
2. A DASH IS REQUIRED IN FIELD 8 FOR CALL VECTORING.

FIELD LIMITS:

- FIELD 1: 1-60  
 FIELD 2: 1-1024 (IN MULTIPLES OF 16)  
 FIELD 3:  
     -, 0 = NO ICI MESSAGE  
     4-63 = ICI MESSAGE NUMBER  
 FIELD 4: 18-999  
 FIELD 5: -, 1-99  
 FIELD 6: -, 0-7  
 FIELD 7: -, 0-7  
 FIELD 8: -, 0-98  
 FIELD 9:  
     0 = CIRCULAR HUNT (UCD)  
     1 = TERMINAL HUNT (DDC)  
     2 = MOST IDLE AGENT HUNTING (SAME RELATIVE QUEUE POSITION).  
     3 = MOST IDLE AGENT HUNTING (MOVES TO THE LAST QUEUE POSITION).

FIELDS 10-11:

SPLIT TYPE	RANGES	
	FIELD 10	FIELD 11
REGULAR	0	-, 0
MCS	1	1-7
AUDIX	2	1-8
ISPC (NUMBER ONLY)	3	1-7
ISPC (NAME & NUMBER)	4	1-7

WORD 1A

ACD  
SPLIT

026

FLIPCHART  
ISSUE 9

+

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**AUTOMATIC CALL DISTRIBUTION  
SPLIT AND SUPERVISOR CHARACTERISTICS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 2  
ADD: 1-6  
REMOVE: 1-6  
CHANGE: 3-6  
NEXT DATA: DISPLAYS ALL SPLITS WITH  
SUPERVISOR EXTENSIONS ASSIGNED

**SPECIAL ERROR CODES:**

81-THIS MEMBER EXTENSION DOES NOT HAVE ACD COS (PROC 010  
WORD 1).  
82-ASSIGN ONLY PRIMARY EXTENSIONS TO A SPLIT.  
83-THE QDN OR PRIORITY EXTENSION IS NOT AN ASSOCIATED  
EXTENSION.  
84-THE SPLIT SUPERVISOR MUST BE MEMBER 0.  
85-MEMBER 0 MUST HAVE A QDN EXTENSION.  
86-THIS SPLIT IS STILL ASSIGNED AS A COVERAGE POINT IN PROC 011  
WORD 1.

87-BUSY OUT CMS USING PROC 028 WORD 2, BEFORE CHANGING  
TRANSLATIONS HERE.  
88-YOU CANNOT REMOVE THE SUPERVISOR WHILE SERVICE-OBSERVING A  
SPLIT NUMBER.  
89-THE MACHINE NUMBER ASSIGNED TO THIS EXTENSION IN PROC 000  
WORD 1, DISAGREES WITH THE MACHINE NUMBER IN PROC 026  
WORD 1.  
90-YOU CANNOT REMOVE THE SUPERVISOR WHILE OTHER AGENTS ARE  
STILL ADMINISTERED (PROC 026 WORD 3).

WORD 2

ACD  
SPLIT

1

SUPERVISOR  
EXTENSION

2

QUEUE  
DIRECTORY  
NUMBER  
(QDN)

3

PRIORITY  
EXTENSION

4

MULTIPLE CALL  
HANDLING

5

AUTO  
AVAILABLE

6

ACD  
SPLIT

**026**

SPECIAL ERROR CODES CONTINUED:

91-CALL VECTORING IS ENABLED; THE QDN AND PRIORITY EXTENSION MUST BE DASHED.

92-YOU CANNOT REMOVE THE SPLIT SUPERVISOR IF THE SPLIT IS USED IN A VECTOR. SEE PROC 032 WORD 1 TO IDENTIFY THE VECTOR AND USE PROC 030 WORD 3 TO REMOVE THE SPLIT FROM THE VECTOR.

NOTES:

1. THE SUPERVISOR EXTENSION IS KNOWN AS THE CONTROLLING EXTENSION OF AN ACD SPLIT.
2. A DASH IS REQUIRED IN FIELD 3 (QUEUE DIRECTORY NUMBER), WHEN CALL VECTORING IS ENABLED.
3. AUTO AVAILABLE SETS ALL AGENTS IN THE SPLIT TO THE "AVAILABLE" STATUS. THIS IS USUALLY ONLY USED WHEN A SPLIT IS CONNECTED TO AN AUXILLIARY PROCESSOR, SUCH AS AUDIX, WHERE THERE ARE NO AGENTS TO SET THE AGENT STATUS.

FIELD LIMITS:

FIELD 1: 1-60

FIELD 2: 000-99999

FIELDS 3 & 4: -, 000-99999

FIELDS 5 & 6:

-, 0 = DISABLED

1 = ENABLED

WORD 2A

ACD  
SPLIT

026

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION OF SPLIT MEMBERS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-2 OR 3  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL MEMBERS WITH AN  
ASSIGNED EXTENSION

**SPECIAL ERROR CODES:**

81-THIS MEMBER EXTENSION DOES NOT HAVE ACD COS (PROC 010  
WORD 1).  
82-ONLY PRIMARY EXTENSIONS CAN BE ASSIGNED TO A SPLIT.  
84-MEMBER 0 REPRESENTS THE SPLIT SUPERVISOR. TO ASSIGN OR  
REMOVE SPLIT SUPERVISOR CHARACTERISTICS USE PROC 026 WORD 2.  
85-BUSY OUT CMS USING PROC 028 WORD 2 BEFORE CHANGING  
TRANSLATIONS.  
86-YOU CANNOT REMOVE A MEMBER BEING SERVICE-OBSERVED BY THE  
SPLIT SUPERVISOR.

87-ASSIGN THE SPLIT SUPERVISOR WITH PROC 026 WORD 2 BEFORE  
ASSIGNING OTHER MEMBERS.  
88-THE MACHINE NUMBER ASSIGNED TO THIS EXTENSION IN PROC 000  
WORD 2, DISAGREES WITH THE MACHINE NUMBER IN PROC 026  
WORD 1.  
FIELD LIMITS:  
FIELD 1: 1-60  
FIELD 2: 1-1023 (ADD)  
0-1023 (DISPLAY)  
FIELD 3: 000-99999  
FIELD 4: 1-1023  
FIELD 5: 0-1023

WORD 3	ACD SPLIT	MEMBER	MEMBER EXTENSION	DISPLAY ONLY		ACD SPLIT MEMBERS
				FIRST AVAILABLE MEMBER	MEMBERS AVAILABLE IN THIS SPLIT	
	1	2	3	4	5	<b>026</b>

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION  
SYSTEM SUPERVISOR AND WARNING TONE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-2  
NEXT DATA: NOT ALLOWED

NOTES:

1. ONLY ONE SYSTEM SUPERVISOR CAN BE ASSIGNED.
2. A WARNING TONE OPTION FOR OPEN OR CLOSED MICROPHONE MUST BE ASSIGNED.

FIELD LIMITS:

FIELD 1: 1-40  
FIELD 2:  
0 = NO WARNING TONE (CLOSED MIKE) WHILE OBSERVING  
1 = WARNING TONE (OPEN MIKE) WHILE OBSERVING

WORD 4

SYSTEM  
SUPERVISOR  
CONSOLE

1

WARNING  
TONE

2

ACD  
SYSTEM  
SUPERVISOR

**026**

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION  
FIRST RECORDED ANNOUNCEMENT**

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845552223

INPUT FIELDS:

DISPLAY: 1  
 ADD: 1-8  
 REMOVE: 1-8  
 CHANGE: 1-8  
 NEXT DATA: DISPLAYS RECORDED ANNOUNCEMENT  
 ASSIGNMENTS FOR ALL ASSIGNED  
 SPLITS

SPECIAL ERROR CODES:

81-ASSIGN THE TRUNK GROUP USING PROC 100 WORD 1 AND THE TRUNK  
 LOCATION IN PROC 150 WORD 1 FIRST.  
 82-THIS GROUP IS ASSIGNED AN ANNOUNCEMENT.  
 83-THIS PROCEDURE IS NOT USED WHEN CALL VECTORING IS ENABLED.  
 84-YOU CANNOT ASSIGN A SECOND WAIT TIME WITHOUT HAVING THE  
 FIRST WAIT TIME.  
 85-ASSIGN THE SECOND RECORDED ANNOUNCEMENT TRUNK IN PROC 027  
 WORD 2 BEFORE ASSIGNING THE SECOND WAIT TIME.

NOTES:

1. THE WAIT TIME FOR THE FIRST RECORDED ANNOUNCEMENT BEGINS  
 AFTER THE CALL ENTERS THE SPLIT QUEUE.  
 2. THE WAIT TIME FOR THE SECOND RECORDED ANNOUNCEMENT BEGINS  
 AFTER THE FIRST RECORDED ANNOUNCEMENT.

WORD 1	ACD SPLIT	AUX TRUNK LOCATION					FIRST WAIT TIME	SECOND WAIT TIME	DISPLAY ONLY					ACD 1ST RCD ANCMT	
		MODULE	CABINET	CARRIER	SLOT	CIRCUIT			FIRST RECORDED ANNOUNCEMENT TRUNK GROUP						
	1	2	3	4	5	6	7	8							027

FIELD LIMITS:

FIELD 1: 1-60

FIELD 2: 0-30

FIELD 3: 0-7

FIELD 4: 0-3

FIELD 5: 0, 3, 5-8, 13-16, 18-21

FIELD 6: 0-3

FIELDS 7 & 8:

0 = NO RECORDED ANNOUNCEMENT GIVEN

1-15 = NUMBER OF 2-SECOND INTERVALS

FIELD 9: 18-999

WORD 1A

ACD  
1ST RCD  
ANCMT

027

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FLIPCHART  
ISSUE 9

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**CMS  
CALL MANAGEMENT SYSTEM**

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845552223

INPUT FIELDS:

DISPLAY: 1, 2, OR 3  
ADD: 2, 3  
REMOVE: 2, 3  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS THE CMS TERMINAL NUMBER  
ASSIGNMENTS

SPECIAL ERROR CODES:

81-THE NUMBER IN FIELD 3 CANNOT BE LESS THAN THE NUMBER IN  
FIELD 2.  
82-THE RANGE OF EXTENSION NUMBERS IS TOO LARGE.  
83-BUSY OUT CMS WITH PROC 028 WORD 2 BEFORE MAKING CHANGES.  
84-ENABLE THE DCIU IN PROC 275 WORD 1.  
85-AN ASSOCIATED EXTENSION IS NOT ALLOWED.

FIELD LIMITS:

FIELD 1: -, 1-1023  
FIELD 2: 000-99999  
FIELD 3: 000-99999

WORD 1

CMS  
TERMINAL  
NUMBER

1

MEASURED  
CMS  
EXTENSION  
NUMBER  
(LOW)

2

CMS  
EXTENSION  
NUMBER  
(HIGH)

3

CMS

**028**

FLIPCHART  
ISSUE 9

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**BUSY OUT  
CMS**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1  
NEXT DATA: NOT ALLOWED

NOTES:

1. USE PROC 028 WORD 2 TO BUSY OUT THE CALL MANAGEMENT SYSTEM (CMS). AFTER BUSYING OUT CMS TO MAKE A CHANGE TO THE CMS DATA, RELEASE CMS BY PLACING A 0 IN FIELD 1 AND DOING A CHANGE ROUTINE.

FIELD LIMITS:

FIELD 1:  
0 = DISABLED  
1 = ENABLED

WORD 2

CMS  
BUSY OUT

1

BUSY OUT  
CMS

**028**

FLIPCHART  
ISSUE 9

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**CALL VECTORING  
ABBREVIATED DIALING LIST**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: 1  
CHANGE: 1  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-YOU CANNOT CHANGE AN ABBREVIATED DIALING GROUP LIST WHILE  
IT IS BEING USED BY ANY VECTOR.  
82-YOU CANNOT REMOVE AN ABBREVIATED DIALING GROUP LIST WHILE  
IT IS BEING USED BY ANY VECTOR.

FIELD LIMITS:

FIELD 1: 1-9999

WORD 1

ABBREVIATED  
DIALING  
GROUP  
LIST

1

CALL  
VECTORING

**030**

FLIPCHART  
ISSUE 9

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**CALL VECTORING  
DISPLAY MACHINE USAGE**

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+

845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

NOTES:

1. USE PROC 030 WORD 2 TO DISPLAY THE AUDIX MACHINE NUMBER AND THE MESSAGE CENTER MACHINE NUMBER ASSOCIATED WITH A VECTOR.

FIELD LIMITS:

FIELD 1: 1-128  
FIELD 2: -, 1-8  
FIELD 3: -, 1-7

WORD 2

VECTOR  
NUMBER

1

DISPLAY  
ONLY

AUDIX  
MACHINE  
NUMBER

2

MCS  
MACHINE  
NUMBER

3

CALL  
VECTORING

**030**

FLIPCHART  
ISSUE 9

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### CALL VECTORING - PROGRAMING VECTORS

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845552223

**INPUT FIELDS:**

DISPLAY: 1-3  
 ADD: 1-12 (SEE CHART)  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 1-12 (SEE CHART)  
 NEXT DATA: DISPLAYS EACH STEP OF A VECTOR

**SPECIAL ERROR CODES:**

50-THE VECTOR BEING CHANGED CONTAINS A STEP WHICH HAD AN AUDIX/  
 MESSAGE CENTER SPLIT THAT WAS EITHER REMOVED OR WAS CHANGED  
 TO A REGULAR SPLIT. THIS CHANGE MAY HAVE ADVERSE AFFECTS ON  
 MESSAGE CENTER OR AUDIX COVERAGE. IF THIS CHANGE IS REALLY  
 DESIRED, DO ANOTHER CHANGE ROUTINE.  
 81-WHEN FIELD 3 = 1, ALL FIELDS EXCEPT FIELDS 1 AND 3 MUST  
 CONTAIN DASHES.  
 82-STEP NUMBERS IN A VECTOR CANNOT BE SKIPPED.  
 83-MEMBER 0 OF AN ACD SPLIT MUST BE ASSIGNED.

**84-ACD SPLIT IS NOT ASSIGNED.**

85-THE DELAY TIME MUST BE IN 2 SECOND INCREMENTS.  
 86-YOU CANNOT MIX AUDIX/AP MACHINE NUMBERS IN THE SAME VECTOR.  
 88-YOU CANNOT ADD AN AUDIX/MCS SPLIT TO AN EXISTING VECTOR.  
 89-YOU CANNOT CHANGE THE AUDIX/AP MACHINE NUMBER IN A VECTOR.  
 90-THIS VECTOR ALREADY CONTAINS 15 STEPS.  
 91-THE STEP USED IN 'GOTO' STEP DOES NOT EXIST.  
 92-BOTH THE SCRATCH AND THE PERMANENT VECTOR ARE N USE. ANY  
 CHANGES ARE BLOCKED.  
 93-NEED TIME OF DAY START TIME.

WORD 3	VECTOR NUMBER	STEP NUMBER	ACCESS PERMANENT VECTOR	ACTION		PRIORITY LEVEL	CRITERIA		SPLIT NUMBER	START/END TIME OF DAY			CALL VECTORING
				STEP TYPE	DESTINATION		CONDITION	THRESHOLD		DAY	HOUR	MIN	
	1	2	3	4	5	6	7	8	9	10	11	12	<b>030</b>

SPECIAL ERROR CODES CONTINUED:

94-NEED TIME OF DAY END TIME.

95-A RECORDED ANNOUNCEMENT THAT IS CONTINUOUS CANNOT BE USED IN A VECTOR.

96-IF START TIME IS EVERYDAY THEN END TIME MUST ALSO BE EVERYDAY AND VICE/VERSA.

97-REMOVE ALL VDN'S TERMINATING TO THIS VECTOR (PROC 031 WORD 1) BEFORE REMOVING THIS VECTOR.

98-THE GO-TO DESTINATION STEP NUMBER IS THE SAME AS THE CURRENT STEP NUMBER.

NOTES:

1. MAKE VECTOR SPECIFICATION ADDITIONS AND CHANGES IN SCRATCH-PAD-MEMORY, THAT IS, WITH FIELD 3 = DASH OR 0. AFTER ALL THE STEPS OF THE VECTOR HAVE BEEN ADDED OR CHANGED AS REQUIRED, THE ENTIRE VECTOR IS TRANSFERRED FROM THE SCRATCH-PAD TO PERMANENT TRANSLATION USING 1 IN FIELD 3.
2. THE PROCEDURE SCRATCH-PAD AREA WILL BE CLEARED AFTER A VECTOR HAS BEEN SUCCESSFULLY ADDED OR CHANGED IN TRANSLATION.

3. TO CLEAR OUT THE SCRATCH-PAD AREA:

- A. PUT A 0 IN FIELD 1
- B. PUT A 1 IN FIELD 3
- C. PUT DASHES IN ALL OTHER FIELDS
- D. DO A DISPLAY ROUTINE
- E. DO A REMOVE ROUTINE

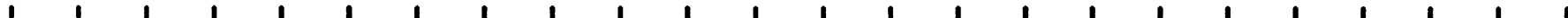
4. IF YOU TAKE OUT A STEP, THE NUMBERING OF STEPS IS COMPRESSED.

5. WHEN FIELD 3 IS SET TO DASH OR 0, THE ADD, CHANGE, OR REMOVE ROUTINE IS ON A PER-STEP BASIS. WHEN FIELD 3 IS SET TO A 1, THE ADD, CHANGE, OR REMOVE ROUTINE IS ON A PER-VECTOR BASIS.

WORD 3A

CALL  
VECTORING

030



NOTES CONTINUED:

6. FIELD 7 CONDITIONS:

THE FOLLOWING ENCODES APPLY FOR STEP TYPE 5 (FIELD 4 EQUALS 5)

- 0 = SILENCE
- 1 = RING BACK
- 2 = MUSIC

THE FOLLOWING ENCODES APPLY FOR STEP TYPE 2 (FIELD 4 EQUALS 2)

- 0 = GO TO THIS STEP IF NUMBER OF AVAILABLE AGENTS > THRESHOLD (FIELD 8)
- 2 = GO TO THIS STEP IS NUMBER OF STAFFED AGENTS > THRESHOLD (FIELD 8)
- 5 = GO TO THIS STEP IF NUMBER OF CALLS QUEUED < THRESHOLD (FIELD 8)
- 7 = GO TO THIS STEP IF OLDEST CALL WAITING < THRESHOLD (FIELD 8)

THE FOLLOWING ENCODES APPLY FOR STEP TYPE 6 (FIELD 4 EQUALS 6)

- = UNCONDITIONAL BRANCH (NULL TEST)
- 0 = GO TO THIS STEP IF NUMBER OF AVAILABLE AGENTS > THRESHOLD (FIELD 8)
- 1 = GO TO THIS STEP IF NUMBER OF AVAILABLE AGENTS < THRESHOLD (FIELD 8)
- 2 = GO TO THIS STEP IF NUMBER OF STAFFED AGENTS > THRESHOLD (FIELD 8)
- 3 = GO TO THIS STEP IF NUMBER OF STAFFED AGENTS < THRESHOLD (FIELD 8)
- 4 = GO TO THIS STEP IF NUMBER OF CALLS QUEUED > THRESHOLD (FIELD 8)
- 5 = GO TO THIS STEP IF NUMBER OF CALLS QUEUED < THRESHOLD (FIELD 8)
- 6 = GO TO THIS STEP IF OLDEST CALL WAITING > THRESHOLD (FIELD 8)
- 7 = GO TO THIS STEP IF OLDEST CALL WAITING < THRESHOLD (FIELD 8)
- 8 = GO TO THIS STEP IF TIME-OF-DAY EQUAL TO OR AFTER STARTING TIME
- 9 = GO TO THIS STEP IF TIME-OF-DAY EQUAL TO OR BEFORE STARTING TIME

WORD 3B

CALL  
VECTORING

030



FIELD LIMITS FOR FIELDS 5-12 MAY VARY DEPENDING ON WHAT IS ENTERED IN FIELDS 4 AND 7. USE THE FOLLOWING CHART TO DETERMINE THE FIELD LIMITS.

4	5	6	7	8	9	10	11	12	
STEP	TYPE	DESTINATION	PRIORITY	CONDITION	THRESHOLD	SPLIT NO.	DAY	HOUR	MINUTE
1		1-60	0-3	-	-		-	-	-
2		1-60	0-3	0 OR 2	0-1024		-	-	-
		1-60	0-3	5	1-99		-	-	-
3		1-60	0-3	7	0-999		-	-	-
		1-95	-	-	-		-	-	-
4		16-99	-	-	-		-	-	-
5		-	-	0-2	2-998		-	-	-
6		1-15	-	-	-		-	-	-
		1-15	-	0-3	0-1024	- , 1-60	-	-	-
		1-15	0-3	4 OR 5	1-99	- , 1-60	-	-	-
		1-15	0-3	6 OR 7	0-999	- , 1-60	-	-	-
	1-15	-	8 OR 9	-	-	0-7	0-23	0-59	
7		- , 16-99	-	-	-		-	-	-
8		-	-	-	-		-	-	-
9		-	-	-	-		-	-	-

WORD 3C

FIELD LIMITS:

FIELD 1: -, 0-128

FIELD 2: -, 1-15

FIELD 3:

-, 0 = NO

1 = YES

FIELD 4:

- = NOT ASSIGNED

1 = QUEUE-TO-MAIN-SPLIT

2 = CHECK-BACKUP-SPLIT

3 = ROUTE-TO

4 = ANNOUNCEMENT

5 = DELAY

6 = GO-TO-STEP

7 = FORCED-DISCONNECT

8 = FORCED-BUSY

9 = STOP

FIELD 5: -, 1-99

FIELD 6:

- = NOT APPLICABLE

0 = LOW PRIORITY

1 = MEDIUM PRIORITY

2 = HIGH PRIORITY

3 = TOP PRIORITY

FIELD 7: -, 0-9

FIELD 8: -, 0-1024

FIELD 9: -, 1-60

FIELD 10:

- = NOT APPLICABLE

0 = EVERYDAY

1 = MONDAY

2 = TUESDAY

3 = WEDNESDAY

4 = THURSDAY

5 = FRIDAY

6 = SATURDAY

7 = SUNDAY

FIELD 11: -, 0-23

FIELD 12: -, 0-59

CALL  
VECTORING

030

FLIPCHART  
ISSUE 9

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**CALL VECTORING - VECTOR DIRECTORY NUMBER  
TERMINATION AND ATTRIBUTES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1, 2 OR 1-2  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-8  
 NEXT DATA: DISPLAYS NEXT VDN THAT TERMINATES AT A VECTOR

**SPECIAL ERROR CODES:**

81-ADMINISTER THE EXTENSION AS A VDN IN PROC 000 WORD 1.  
 82-BUSY OUT CMS USING PROC 028 WORD 2 BEFORE CHANGING TRANSLATION.  
 83-REMOVE ALL TRUNK GROUPS TERMINATING TO THIS VDN USING PROC 031 WORD 2 BEFORE REMOVING THIS TERMINATION.  
 84-WHEN CHANGING VDN TERMINATION, MCS MACHINE NUMBERS OF THE OLD AND NEW VECTORS MUST BE THE SAME.  
 85-WHEN CHANGING VDN TERMINATION, AUDIX MACHINE NUMBERS OF THE OLD AND NEW VECTORS MUST BE THE SAME.

86-THIS VDN IS A MEMBER OF A COVERAGE GROUP. REMOVE IN PROC 011 WORD 1, BEFORE REMOVING TERMINATION TO A VECTOR.  
 87-ONLY 127 VDN'S MAY HAVE CONSOLE MESSAGES ASSIGNED. THIS CAPACITY HAS BEEN REACHED.  
 88-REMOVE VDN-OF-ORIGIN ANNOUNCEMENT IN PROC 033 WORD 1 BEFORE REMOVING TERMINATION.  
 89-THE VECTOR IN FIELD 2 IS NOT ASSOCIATED WITH AN ACD SPLIT OF THIS TYPE. SEE PROC 030 WORD 2 FOR VECTOR-SPLIT USAGE. SEE PROC 026 WORD 1 FOR ACD SPLIT CHARACTERISTICS.

CONSOLE MESSAGE CHARACTER

WORD 1	VECTOR DIRECTORY NUMBER	VECTOR NUMBER	MEASURED	CONSOLE MESSAGE CHARACTER				RETURN CALL INDICATOR	DISPLAY OVERRIDE FLAG	DISP MACHINE NUMBER	CALL VECTORING
				CHARACTER 1	CHARACTER 2	CHARACTER 3	CHARACTER 4				
	1	2	3	4	5	6	7	8	9	10	<b>031</b>

SPECIAL ERROR CODES CONTINUED:

90-A VDN CANNOT BE SPECIFIED AS A RETURN-CALL-VDN IF THE VECTOR TO WHICH IT TERMINATES HAS BOTH AUDIX AND MESSAGE CENTER SPLITS ASSOCIATED WITH IT.

91-THE RETURN-CALL INDICATOR FIELD MUST BE 0 OR DASHED IF THE VECTOR FIELD IS DASHED.

FIELD LIMITS:

FIELD 1: -, 000-99999

FIELD 2: -, 1-128

FIELD 3:

0 = VDN IS NOT MEASURED BY CMS

1 = VDN IS MEASURED BY CMS

FIELD 8:

-, 0 = NOT A RETURN CALL

1 = MCS RETURN CALL VDN

2 = AUDIX RETURN CALL VDN

FIELD 9:

-, 0 = DISABLED

1 = ENABLED

FIELD 10:

- = NOT A RETURN CALL VDN

1-7 = MCS

1-8 = AUDIX

FIELDS 4-7: ALPHA/NUMERIC ENCODE TABLE

2ND DIGIT		0	1	2	3	4	5	6	7	8	9
1ST DIGIT	1-	BLANK	A	B	C	D	E	F	G	H	I
	2-	J	K	L	M	N	O	P	Q	R	S
	3-	T	U	V	W	X	Y	Z	-		

WORD 1A

VDN  
TERMINATION

031



FLIPCHART  
ISSUE 9

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**CALL VECTORING  
TRUNK GROUP TERMINATION**

+

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845552223

**INPUT FIELDS:**

DISPLAY: 1, 2 OR 1-2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 AND 2  
NEXT DATA: DISPLAYS THE NEXT TRUNK GROUP THAT  
TERMINATES AT THE VDN

**SPECIAL ERROR CODES:**

81-ADMINISTER THIS EXTENSION AS A VDN IN PROC 000 WORD 1.  
82-BUSY OUT CMS USING PROC 028 WORD 2 BEFORE CHANGING  
TRANSLATION.  
83-THE TRUNK TYPE OF THIS TRUNK GROUP IS INAPPROPRIATE FOR  
TERMINATION AT A VDN.  
85-THE TRUNK GROUP CANNOT BE TERMINATED AT A VDN UNLESS THE  
VDN IS FIRST TERMINATED AT A VECTOR.

**NOTES:**

1. THE FOLLOWING ARE VALID TRUNK TYPES THAT CAN TERMINATE TO A  
VDN: 16, 19, 20, 21, 24, 25, 26, 35, 38 AND 39.
2. TO REMOVE TRUNK GROUP TERMINATION AT A VDN, DO A DISPLAY  
ROUTINE ON THE VDN, DO A CLEAR ENTRY ON THE GROUP FIELD,  
AND THEN DO A CHANGE ROUTINE.

**FIELD LIMITS:**

FIELD 1: -, 18-999  
FIELD 2: -, 000-99999  
FIELD 3: -, 1-128

WORD 2

TRUNK  
GROUP  
NUMBER

1

VECTOR  
DIRECTORY  
NUMBER

2

DISPLAY ONLY

VECTOR  
NUMBER

3

**CALL  
VECTOR  
TERMINATION**

**031**

FLIPCHART  
ISSUE 9

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**CALL VECTORING  
DISPLAY SPLIT USAGE**

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INPUT FIELDS:

DISPLAY: 1-2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS THE NEXT VECTOR ASSIGNED  
TO A MAIN OR BACKUP SPLIT

FIELD LIMITS:

FIELD 1: 1-60  
FIELD 2:  
1 = MAIN SPLIT  
2 = BACKUP SPLIT  
FIELD 3: -, 1-128

WORD 1

SPLIT  
NUMBER

SPLIT  
TYPE

VECTOR  
NUMBER

CALL  
VECTORING

**032**

1

2

3

FLIPCHART  
ISSUE 9

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**CALL VECTORING - ORIGIN ANNOUNCEMENT**

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845552223

INPUT FIELDS:

DISPLAY: 1-2  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: 1-3  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-FIELD 1 MUST CONTAIN A VECTOR DIRECTORY NUMBER IF FIELD 2  
EQUALS 2.  
82-THIS ANNOUNCEMENT IS NOT ADMINISTERED AS A CONTINUOUSLY  
PLAYING ANNOUNCEMENT.  
83-VDN MUST TERMINATE AT A VECTOR IN PROC 031 WORD 1 BEFORE  
ASSIGNING A VDN-OF-ORIGIN ANNOUNCEMENT.

FIELD LIMITS:

FIELD 1:  
1-60 = ACD SPLIT NUMBER  
18-999 = TRUNK GROUP NUMBER  
FIELD 2:  
000-99999 = VDN  
0 = ACD SPLIT  
1 = TRUNK GROUP  
2 = VDN

FIELD 3: 16-99  
FIELD 4: 18-999

WORD 1	ACD SPLIT/ TRUNK GROUP/ VECTOR DIRECTORY NUMBER	TYPE	RECORDED ANCMT NUMBER	DISPLAY ONLY		CALL VECTORING
				RECORDED ANNOUNCEMENT TRUNK GROUP		
	1	2	3	4		<b>033</b>



SPECIAL ERROR CODES CONTINUED:

- 90-A 7300-SERIES VOICE TERMINAL CANNOT BE ASSIGNED TO SLOTS 5 AND 18 IN A PORT CARRIER.
- 91-USE PROC 052 WORD 1 TO SET HOME TERMINAL TO 0 FOR THE LAST APPEARANCE ASSIGNED TO THIS TERMINAL.
- 92-CANNOT ASSIGN THE 24TH TIMESLOT IN A REMOTE CARRIER GROUP.
- 93-TERMINAL TYPE CANNOT BE ADFTC FOR A REMOTE CARRIER GROUP.
- 94-TERMINAL MUST BE UNASSIGNED FROM DSC (PROC 360 WORD 1) FIRST.
- 95-AUTOMATIC MESSAGE WAITING MUST BE REMOVED IN PROC 063 WORD 1.

NOTES:

1. A 7300-SERIES VOICE TERMINAL WITH CIRCUITS 0-3 MAY BE ASSIGNED TO A PORT CARRIER AND A 7300-SERIES VOICE TERMINAL WITH CIRCUITS 0-7 MAY BE ASSIGNED TO THE DSI UNIVERSAL PORT CARRIER.
2. KEYBOARD DIALING MUST BE SET ON TYPE 17 TERMINALS (PC) TO BE ABLE TO MAKE DATA CALLS.

FIELD LIMITS:

- FIELD 1: 0-30
- FIELD 2: 0-7
- FIELD 3: 0-3
- FIELD 4: 0-3, 5-8, 13-16, 18-21
- FIELD 5: 0-7

WORD 1A

TERMINAL  
TRANSLATION

051

0 0

FIELD	RANGES															
6 (TYPE)	1 - SLS	2 - 72 SERIES	3 - 74 SERIES	4 - PDM	5 - DTDM	6 - TDM	7 - 515 BCT	8 - ADFTC	9 - 73 SERIES	10 - AP32	11 - 510 BCT	12 - 7404D	13 - 7407D	14 - EIA		
7 (SIZE)	-	1 2	1 2	-	-	-	1	-	1 2	-	2	3	2	-		
8 (PLUG 1)	-	-	1	-	1	-	-	-	-	-	-	-	1	-		
9 (PLUG 2)	-	-	2	-	2-3	-	3	-	-	-	0-3	2, 3	3	-		
10 (ORIG PREF)	2	0-3	0-3	2	2	2	0-3	2	0-3	2	0-2	0-3	0-3	2		
11 (TERM PREF)	0	0-2	0-2	0	0	0	0-2	0	0-2	0	2	0-2	0-2	0, 1		
12 (LOCK/UNLOCK)	-	-	0, 1	-	-	-	0, 1	-	-	-	0, 1	0, 1	0, 1	-		
13 (KEYBRD DIAL)	-	-	-	0, 1	0, 1	0, 1	0, 1	0, 1	-	0, 1	0, 1	0, 1	-	0, 1		
14 (LWC RTRVL)	-	-	0, 1	-	-	-	0, 1	-	-	-	0, 1	0, 1	0, 1	-		

WORD 1B

FIELD 6:	9 = 73 SERIES	FIELD 7:	1 = FEATURE	3 = LAST LINE
1 = SLS	10 = AP32	1 = 7203H, 7303S, 7403D, 7401D	FIELD 9:	FIELD 11:
2 = 72 SERIES	11 = 510BCT	2 = 7205H, 7305S, 7407D, 510BCT,	- = NOT ASSIGNED	0 = NONE
3 = 74 SERIES	12 = 7404D	OR PC	2 = COVERAGE	1 = CALLING LINE
4 = PDM	13 = 7407D	3 = 7404D	3 = DISPLAY	2 = ALERTING LINE
5 = DTDM	14 = EIA	4 = 7406D	FIELD 10:	FIELDS 12-14:
6 = TDM	15 = 7401D	- = OTHER	0 = NO LINE	0 = NO
7 = 515 BCT	16 = 7406D	FIELD 8:	1 = IDLE LINE	1 = YES
8 = ADFTC	17 = PC	- = NOT ASSIGNED	2 = PRIME LINE	- = N/A

TERMINAL  
TRANSLATION

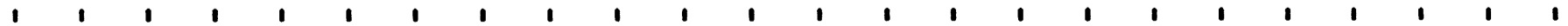
051

FIELD CONTINUED	RANGES		
6 (TYPE)	15 - 7401D	16 - 7406D	17 - PC
7 (SIZE)	1	4	2
8 (PLUG 1)	-	-	-, 1
9 (PLUG 2)	-, 3	-, 3	3
10 (ORIG PREF)	0-3	0-3	2
11 (TERM PREF)	2	0-2	2
12 (LOCK/UNLOCK)	-, 0, 1	-, 0, 1	-, 0, 1
13 (TERM DIALING)	-	-	-, 0, 1
14 (GLOBAL RETV)	-, 0, 1	0, 1	0, 1

WORD 1C

TERMINAL  
TRANSLATION

051



MULTIAPPEARANCE TERMINAL/DATA MODULE  
BUTTON ENCODES

BUTTON TYPE	PROC-WORD	BUTTON TYPE	PROC-WORD
0 = UNASSIGNED		18 = AUTOMATIC DIALING	059-4
1 = EXTENSION	052-1	19 = SEND ALL CALLS-GROUP OF EXTENSIONS	054-1
2 = MANUAL INTERCOM	056-1	20 = CONSULT	054-1
3 = AUTOMATIC INTERCOM	056-1	21 = DISPLAY FEATURES	054-1
4 = DIAL INTERCOM	056-1	22 = LEAVE WORD CALLING-ACTIVATE	054-1
5 = CO LINE APPEARANCE	057-1	23 = COVERAGE CALLBACK	054-1
6 = HOLD BUTTON	054-3	24 = ONE BUTTON TRANSFER/RETURN TO VOICE	055-2
7 = MANUAL SIGNALING	053-1	25 = ABBREVIATED DIAL FEATURES	059-3
8 = MANUAL EXCLUSION	054-1	26 = ACD FEATURES	054-1
9 = MESSAGE WAIT (CONTROL TERMINAL)	053-2	27 = RECALL	054-1
10 = MESSAGE WAIT (SIGNALLED TERMINAL)	053-2	28 = MALICIOUS CALL TRACE ACTIVATION	054-2
11 = ALERTING CUTOFF	054-1	29 = SEND ALL CALLS-EXTENSION	054-1
12 = ALERTING TRANSFER	054-1	30 = WAIT FOR PRINCIPAL	054-1
13 = ABBREV/DELAYED TRANSFER	052-1, 054-1	33 = AUTOMATIC MESSAGE WAITING	063-1
14-16 = CUSTOM CALLING	054-2	34 = STATION BUSY	055-1

WORD 0

LINE  
APPEARANCE

052



FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL/DATA MODULE  
LINE APPEARANCE**

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 1-7  
 ADD: 1-14 (12 OPTIONAL)  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 10-14 ONLY  
 NEXT DATA: INCREMENTS FIELDS 6-7

**SPECIAL ERROR CODES:**

50-IF AN AUTOMATIC LINE APPEARANCE IS ASSIGNED, THE TERMINAL MUST HAVE NO ORIGINATING AND NO TERMINATING PREFERENCE.  
 51-IF EXTENSION HAS AN AUTOMATIC LINE APPEARANCE, FIELD 11 CAN ONLY BE CHANGED FROM 0 TO 1, 1 TO 0, 2 TO 3, 3 TO 2.  
 52-ONLY ONE AUTO ANSWER IMAGE PER LINE APPEARANCE CAN BE ADMINISTERED.  
 53-THIS TERMINAL CAN ANSWER ONLY 1 EXTENSION AUTOMATICALLY.  
 54-AN AUTOLINE APPEARANCE CANNOT BE ORIGINATING ONLY.

56-THIS EQUIPMENT LOCATION IS ASSIGNED TO DEDICATED SWITCH CONNECTION. REMOVE FROM PROC 360 WORD 1 FIRST BEFORE MAKING CHANGES, ADDITIONS OR DELETIONS.  
 57-AMW LAMP MUST BE REMOVED FROM THIS TERMINAL IN PROC 063 WORD 1.  
 58-TERMINAL MUST HAVE AN IMAGE OF LINE APPEARANCE 1 OF THE EXTENSION TO ADMINISTER SAC GROUP (FIELD 14).  
 59-ALL AUTO ANSWER IMAGES OF AN EXTENSION MUST BE ON SAME TERMINAL.

WORD 1	TERMINAL EQUIPMENT LOCATION				DEVICE ID		EXTENSION APPEARANCE ID			LINE TYPE	ALERT TYPE	HOME TERMINAL	ORIG ONLY	SAC GROUP	DISPL. ONLY	LINE APPEARANCE
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	EXTENSION NUMBER	LINE APPEARANCE NUMBER						BUTTON TYPE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	<b>052</b>

SPECIAL ERROR CODES CONTINUED:

- 81-THE BUTTON IS ALREADY ASSIGNED.
- 82-MAXIMUM OF 16 BRIDGED IMAGES PER LINE IMAGE.
- 83-WRONG DEVICE ID. (FIELDS 6 AND 7).
- 84-PRIME LINE PREFERENCE MUST BE ASSIGNED TO TERMINAL BEFORE PRIME LINE CAN BE ASSIGNED.
- 85-ONLY FIELDS 10-14 CAN BE CHANGED.
- 86-ONLY 1 SLS PER LINE.
- 87-THIS EXTENSION CANNOT BE AN ASSOCIATED EXTENSION.
- 89-DATA MODULE EXTENSIONS OR EXTENSIONS IN A DSC CANNOT BE BRIDGED.
- 90-REMOVE ALL 1-BUTTON-TRANSFER BUTTONS REFERING TO THIS DATA MODULE BEFORE REMOVING ITS EXTENSION (PROC 055 WORD 2).

- 93-EXTENSION MUST BE REMOVED FROM THE CALL COVERAGE PATH IN PROC 011 WORD 1.
- 94-LEAVE WORD CALLING MESSAGES MUST BE RETRIVED BEFORE AN EXTENSION CAN BE REMOVED.
- 96-THIS LINE APPEARANCE IS ALREADY ASSIGNED TO THIS TERMINAL.
- 97-IF HOME TERMINAL IS SET TO 1 FOR AN EXTENSION, AN IMAGE OF LINE APPEARANCE 1 MUST BE ASSIGNED TO THAT TERMINAL.
- 98-AUTO LINE APPEARANCES MUST BE ASSIGNED IN SEQUENTIAL ORDER.

WORD 1A

LINE  
APPEARANCE

052



FIELD	RANGE OF MEMBER					
6 (DEVICE TYPE)	0 = BASIC SET		1 = FEATURE KEY MODULE	2 = CALL COVERAGE MODULE	3 = DIGITAL DISPLAY MODULE	4 = ADFTC
7 (MEMBER)	SLS-BUTTON 0 7203, 7303, 7403, 515 BCT-BUTTONS 1-12, 7205, 7305, 7405, 7407 PC-BUTTONS 1-36, 7404-BUTTONS 1-8, 7406D BUTTONS 1-7 & 13-30, 510 BCT-BUTTONS 1-6 & 13-21, 7401D-BUTTONS 1-11 DATA MOD: SINGLE CHANNEL = 0      DUAL CHANNEL = 0-1		BUTTONS 1-24	BUTTONS 1-20	BUTTONS 1-7 (ONE BUTTON IS ON/OFF)	PORTS 0-1

WORD 1B	FIELD LIMITS:	FIELD 6:	FIELD 10:	FIELD 12:	FIELD 15: 0-16, 18-30, 33, 34	LINE APPEARANCE
	FIELD 1: 0-30	0 = BASIC SET	0 = NO PRIME LINE	0 = NO		
	FIELD 2: 0-7	1 = FEATURE	1 = PRIME LINE	1 = YES		
	FIELD 3: 0-3	2 = COVERAGE	2 = AUTO APPEARANCE	FIELD 13:		
	FIELD 4: 0-3, 5-8, 13-16, 18-21	3 = DISPLAY	FIELD 11:	0 = NO		
	FIELD 5: 0-7	4 = ADFTC	0 = NO RINGING	1 = YES		
		FIELD 7: 1-36	1 = RINGING	FIELD 14:		
		FIELD 8: 000-9999	2 = DELAYED RINGING	0 = NO		
		FIELD 9: 1-12	3 = ABBR RINGING	1 = YES		

CHARACTERISTICS OF BUTTONS ON BASIC UNIT - MULTI-APPEARANCE TERMINALS

BUTTON NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
7203,7303,7403,515 BCT	H	MW	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2																								
7205, 7305, 7405	H	MW	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1
7404D	H	MW	A2	A2	A2	A2	A2	A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7407D	H	MW	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	B1	B1	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0
510 BCT	H	MW	C2	C2	C2	C2	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1

H = HOLD BUTTON  
 MW = MESSAGE WAITING LAMP  
 A = BUTTON MAY BE USED FOR EITHER LINE APPEARANCES OR FEATURES  
 B = BUTTON MAY BE USED FOR FEATURES ONLY (PROCS 053, 054, 055, 059, 063)  
 C = BUTTON MAY BE USED FOR LINE APPEARANCES ONLY (PROCS 052, 056, 057)  
 NUMERICAL SUFFIX PERTAINS TO NUMBER OF LAMPS ASSOCIATED WITH BUTTON

LINE  
APPEARANCE

052

WORD 1C



CHARACTERISTICS OF BUTTONS ON BASIC UNIT - MULTI-APPEARANCE TERMINALS

BUTTON NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
TERMINAL TYPE	7401D	H	MW	C0	C0	B0	B0	B0	B0	B0	B0	B0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7406D	H	MW	A2	A2	A2	A2	A2	-	-	-	-	-	B1	B1	B1	B1	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	B0	-	-	-	-	-	-	
	PC	H	MW	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1

H = HOLD BUTTON  
 MW = MESSAGE WAITING LAMP  
 A = BUTTON MAY BE USED FOR EITHER LINE APPEARANCES OR FEATURES  
 B = BUTTON MAY BE USED FOR FEATURES ONLY (PROCS 053, 054, 055, 059, 063)  
 C = BUTTON MAY BE USED FOR LINE APPEARANCES ONLY (PROCS 052, 056, 057)  
 NUMERICAL SUFFIX PERTAINS TO NUMBER OF LAMPS ASSOCIATED WITH BUTTON

LINE  
APPEARANCE

052

WORD ID



FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL/DATA MODULE  
ABBREVIATED & DELAYED RINGING**

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**INPUT FIELDS:**

DISPLAY: 1, 2  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 3, 4  
 NEXT DATA: DISPLAYS IMAGES OF THE LINE  
 APPEARANCE SPECIFIED IN FIELD 2

**SPECIAL ERROR CODES:**

81-EXTENSION MUST BE ASSIGNED IN PROC 000 WORD 1 AND CANNOT BE  
 AN ASSOCIATED EXTENSION.

**FIELD LIMITS:**

FIELD 1: 000-99999  
 FIELD 2: 1-12  
 FIELD 3:  
 1 = MANUAL  
 2 = AUTOMATIC

**FIELD 4:**

0 = NO RINGING TRANSFER  
 1 = RINGING WHEN ACTIVE  
 2 = NO RINGING WHEN ACTIVE

**FIELD 5:**

0 = NO RINGING  
 1 = RINGING  
 2 = DELAYED RINGING  
 3 = ABBREVIATED RINGING

**FIELD 6:** 0-30

**FIELD 7:** 0-7

**FIELD 8:** 0-3

**FIELD 9:** 0-3, 5-8, 13-16, 18-21

**FIELD 10:** 0-7

**FIELD 11:** 0-4

**FIELD 12:** 1-36

**FIELD 13:**

- = NONE

0 = NO

1 = YES

**FIELD 14:**

0 = NO

1 = YES

**FIELD 15:** 1-16

WORD 2	EXTENSION APPEARANCE ID		A/D RINGING	RINGING TRANSFER	DISPLAY ONLY										ABV/DELAYED RINGING	
	EXTENSION	LINE APPEARANCE			RINGING TYPE	TERMINAL EQUIPMENT LOCATION				DEVICE ID		AUTO APPEARANCE	HOME TERMINAL	BRIDGED IMAGES		
						MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE					MEMBER BUTTON
																<b>052</b>

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ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
MANUAL SIGNALING**

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**INPUT FIELDS:**

DISPLAY: 1-5, 1-7 OR 8-12  
 ADD: 1-12  
 REMOVE: 8-12  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS EQUIPMENT LOCATION OR  
 BUTTON ASSIGNMENTS

**SPECIAL ERROR CODES:**

81-THIS BUTTON CANNOT BE ASSIGNED. THE TERMINAL IS ASSIGNED AS  
 A NO-BUTTON SET.  
 82-THIS BUTTON IS ALREADY ASSIGNED.  
 83-WRONG BUTTON TYPE.  
 84-THE MAXIMUM NUMBER OF MANUAL SIGNALING ASSIGNMENTS (17)  
 HAVE BEEN ENTERED FOR THIS BUTTON.

**FIELD LIMITS:**

FIELDS 1 & 8: 0-30  
 FIELDS 2 & 9: 0-7  
 FIELDS 3 & 10: 0-3  
 FIELDS 4 & 11: 0-3, 5-8, 13-16, 18-21  
 FIELDS 5 & 12: 0-7

**FIELD 6:**

0 = BASIC SET  
 1 = FEATURE MODULE  
 2 = COVERAGE MODULE  
 3 = DISPLAY MODULE  
 4 = ADFTC  
 FIELD 7: 1-36  
 FIELD 13:  
 7 = MAN SIGNAL

WORD 1	SIGNALING TERMINAL					SIGNALLED TERMINAL					DISPLAY ONLY	MANUAL SIGNALING		
	TERMINAL EQUIPMENT LOCATION			DEVICE ID		TERMINAL EQUIPMENT LOCATION			BUTTON TYPE (7 = MAN SIG)					
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	MODULE		CABINET			CARRIER	SLOT
	1	2	3	4	5	6	7	8	9	10	11	12	13	<b>053</b>

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ISSUE 9

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**MULTIAPPEARANCE TERMINAL MESSAGE WAITING**

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**INPUT FIELDS:**

DISPLAY: 1-5, 1-7, 9-13 OR 9-15  
 ADD: 1-7 & 9-15  
 REMOVE: AFTER DISPLAY  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS THE EQUIPMENT LOCATION AND BUTTON ASSIGNMENTS OF THE CONTROLLING OR SIGNALLED TERMINAL DEPENDING ON THE INFORMATION ENTERED

**SPECIAL ERROR CODES:**

81-NEITHER THE CONTROLLING OR SIGNALLED TERMINAL CAN BE A STRAIGHT LINE SET.  
 82-THIS BUTTON IS ALREADY ASSIGNED.  
 83-WRONG BUTTON TYPE.  
 84-ONLY ONE MESSAGE WAITING SIGNALLED BUTTON CAN BE ASSIGNED PER TERMINAL.

**FIELD LIMITS:**

FIELDS 1 & 9: 0-30  
 FIELDS 2 & 10: 0-7  
 FIELDS 3 & 11: 0-3  
 FIELDS 4 & 12: 0-3, 5-8, 13-16, 18-21  
 FIELDS 5 & 13: 0-7

**FIELDS 6 & 14:**

0 = BASIC SET  
 1 = FEATURE MODULE  
 2 = COVERAGE MODULE  
 3 = DISPLAY MODULE  
 4 = ADFTC  
 FIELDS 7 & 15: 1-36  
 FIELDS 8 & 16: 0-16, 18-30, 33, 34

WORD 2	CONTROLLING TERMINAL								SIGNALLED TERMINAL								MESSAGE WAITING
	TERMINAL EQUIPMENT LOCATION				DEVICE ID				TERMINAL EQUIPMENT LOCATION				DEVICE ID				
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	BUTTON TYPE	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	BUTTON TYPE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	053

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ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
MISCELLANEOUS FEATURES**

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**INPUT FIELDS:**

DISPLAY: 1-5, 1-7, 8-9 OR 8-10  
 ADD: 1-7, 8 AND 9 FOR BUTTON TYPES 8,  
 12, 13, 29, OR 8-10 FOR BTN TYPE 26  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 8-10 SEE NOTE 2  
 NEXT DATA: DISPLAYS BUTTON ASSIGNMENT(S) OR  
 EQUIPMENT LOCATION(S), DEPENDING  
 ON THE INFORMATION ENTERED

**SPECIAL ERROR CODES:**

81-RINGING TRANSFER, EXCLUSION, AND ACD WITH SUBTYPES 2-5,  
 10-19 CAN BE ASSIGNED TO ONLY ONE BUTTON PER EXTENSION.  
 82-ENTER FIELDS 8-9 TO DISPLAY THE TERMINAL EQUIPMENT LOCATION  
 ASSIGNED TO BUTTON TYPES 8, 12 AND 13. ENTER FIELDS 8-10 TO  
 DISPLAY THE TERMINAL EQUIPMENT LOCATION ASSIGNED TO BUTTON  
 TYPE 26 WITH SUBTYPES 2-5.  
 83-WRONG BUTTON TYPE OR SUBTYPE.  
 84-THE BUTTON IS ALREADY ASSIGNED.

85-THIS BUTTON CANNOT BE ASSIGNED. THE TERMINAL IS ASSIGNED  
 —AS A NO-BUTTON SET.  
 86-ONLY ONE BUTTON TYPE 19 MAY BE ASSIGNED PER TERMINAL.  
 87-WAIT FOR PRINCIPAL BUTTON CAN ONLY BE ASSIGNED TO A  
 TERMINAL ADMINISTERED AS TYPE 17 IN PROC 051 WORD 1.  
 NOTES:  
 1. ONLY BUTTON TYPE 26 REQUIRES BUTTON SUBTYPES.  
 2. CHANGE FIELDS 8-10 (FOR BUTTON TYPES 8, 12, 13 AND 26 WITH  
 SUBTYPES 2-5, AND 29). ONLY EXTENSION (FIELD 8) CAN BE  
 CHANGED.

WORD 1	TERMINAL EQUIPMENT LOCATION					DEVICE ID		EXTENSION	BUTTON TYPE	BUTTON SUBTYPE	MISC FEATURES
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)				
	1	2	3	4	5	6	7	8	9	10	054

FIELD LIMITS:

FIELD 1: 0-30

FIELD 2: 0-7

FIELD 3: 0-3

FIELD 4: 0-3, 5-8, 13-16, 18-21

FIELD 5: 0-7

FIELD 6:

0 = BASIC SET

1 = FEATURE MODULE

2 = COVERAGE MODULE

3 = DISPLAY MODULE

4 = ADFTC

FIELD 7: 1-36

FIELD 8: -, 000-99999

FIELD 9: BUTTON TYPES ADDED VIA THIS PROC

8 = MANUAL EXCLUSION

\*11 = ALERTING CUTOFF

12 = ALERTING TRANSFER

13 = ABBREVIATED AND

DELAYED ALERTING

\*19 = SEND ALL CALLS-GROUP OF EXTENSIONS

\*20 = CONSULT

\*22 = LEAVE WORD CALLING-ACTIVATE

\*23 = COVERAGE CALLBACK

26 = ACD

\*27 = RECALL

29 = SEND ALL CALLS-EXTENSION

\*30 = WAIT FOR PRINCIPAL

(\* = NO EXTENSION)

FIELD 10:

- = UNEQUIPPED

1 = RELEASE

2 = AUTO IN

3 = MANUAL IN

4 = AUX WORK

5 = STAFF

6 = REPEAT CITY OF ORGIN

10-19 = STROKE COUNTS 0-9

WORD 1A

TRUNK  
TYPE  
ENCODES

054

FLIPCHART  
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**MULTIAPPEARANCE TERMINAL CUSTOM  
CALLING FEATURES**

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 1-7  
 ADD: 1-8  
 REMOVE: 6-8  
 CHANGE: 8-CHANGE CAN ONLY BE USED TO CHANGE AN ALREADY ASSIGNED CUSTOM CALLING BUTTON TO A DIFFERENT CUSTOM CALLING BUTTON ASSIGNMENT

NEXT DATA: DISPLAYS BUTTON ASSIGNMENTS

**SPECIAL ERROR CODES:**

81-ASSIGNMENTS CAN ONLY BE MADE TO BUTTONS THAT ARE UNASSIGNED OR ASSIGNED AS A CUSTOM BUTTON (FIELD 8 IS NON DASH).  
 82-ONLY ONE CALL PICKUP BUTTON (TYPE 7) CAN BE ASSIGNED TO A TERMINAL.  
 83-WRONG BUTTON TYPE.  
 84-THIS BUTTON CANNOT BE ASSIGNED. THE TERMINAL IS ASSIGNED AS A NO-BUTTON SET.

**FIELD LIMITS:**

FIELD 1: 0-30  
 FIELD 2: 0-7  
 FIELD 3: 0-3  
 FIELD 4: 0-3, 5-8, 13-16, 18-21  
 FIELD 5: 0-7

WORD 2	TERMINAL EQUIPMENT LOCATION				DEVICE ID		CUSTOM CALLING BUTTON TYPE											DISPLAY ONLY	CUSTOM CALLING									
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE		MEMBER (BUTTON)	9	0	1	2	3	4	5	6	7	8		7								
	.	1	2	3	.	4	5	6	.	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9		

**054**

FIELD LIMITS CONTINUED:

FIELD 6:

- 0 = BASIC SET
- 1 = FEATURE MODULE
- 2 = COVERAGE MODULE
- 3 = DISPLAY MODULE
- 4 = ADFTC

FIELD 7: 1-36

FIELD 8:

- = NOT A CUSTOM CALLING BUTTON
- 0 = LEAVE WORD CALLING-CANCEL
- 1 = LAST NUMBER DIALED
- 2 = PRIORITY CALLING
- 3 = CALL FORWARD-FOLLOW ME
- 4 = CALL FORWARD-BY/DA
- 5 = OVERRIDE
- 6 = AUTOMATIC CALLBACK
- 7 = CALL PICKUP
- 8 = SERVICE OBSERVE
- 9 = MALICIOUS CALL TRACE-EMERGENCY

FIELD 9: 0-16, 18-30, 33, 34

WORD 2A

CUSTOM  
CALLING

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FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
HOLD BUTTON**

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 1-7  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS BUTTON ASSIGNMENTS

**NOTES:**

1. THIS IS A DISPLAY ONLY PROCEDURE.  
**FIELD LIMITS:**  
FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-7

**FIELD 6:**

0 = BASIC SET  
1 = FEATURE MODULE  
2 = COVERAGE MODULE  
3 = DISPLAY MODULE  
4 = ADFTC  
**FIELD 7: 1-36**  
**FIELD 8:**  
0 = HOLD WITH MUSIC

**FIELD 9: 0-16, 18-30, 33, 34**

6 = HOLD

WORD 3	TERMINAL EQUIPMENT LOCATION					DEVICE ID		HOLD BUTTON TYPE								DISPLAY ONLY	HOLD BUTTON		
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)		BUTTON TYPE										
	1	2	3	4	5	6	7	8										9	<b>054</b>

FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
DISPLAY BUTTONS**

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INPUT FIELDS:

DISPLAY: 1-5 OR 1-7  
ADD: 1-8  
REMOVE: 6-8  
CHANGE: FIELD 8  
NEXT DATA: DISPLAYS BUTTON ASSIGNMENTS

SPECIAL ERROR CODES:

81-ASSIGNMENTS CAN ONLY BE MADE TO UNASSIGNED OR DISPLAY  
FEATURE BUTTONS.  
82-THIS BUTTON CANNOT BE ASSIGNED. THE TERMINAL IS ASSIGNED AS  
A NO-BUTTON SET.  
83-THE NORMAL OR SCROLL BUTTON IS ALREADY ASSIGNED.  
85-THE TERMINAL MUST HAVE A DISPLAY MODULE IN ORDER TO ASSIGN A  
NORMAL, OR SCROLL BUTTON.

FIELD LIMITS:

FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-7  
FIELD 6: 0-3  
FIELD 7: 1-36

WORD 4	TERMINAL EQUIPMENT LOCATION					DEVICE ID		DISPLAY FEATURE BUTTON TYPE	DISPLAY ONLY	DISPLAY BUTTONS
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)			
	1	2	3	4	5	6	7	8		
									9	<b>054</b>

FIELD LIMITS CONTINUED:

FIELD 8:

- 0 = NORMAL
- 1 = INSPECT
- 2 = TIME OF DAY/DATE
- 3 = MESSAGE RETRIEVAL
- 4 = COVERAGE MESSAGE RETRIEVAL
- 5 = STEP
- 6 = DELETE
- 7 = RETURN CALL
- 8 = ELAPSED TIME
- 9 = SCROLL

FIELD 9: 0-16, 18-30, 33, 34

WORD 4A

DISPLAY  
BUTTONS

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FLIPCHART  
ISSUE 9

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### MULTIAPPEARANCE TERMINAL BUSY FEATURE

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 8-12 OR 6-12  
 ADD: 1-12  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS THE EQUIPMENT LOCATION OF THE SIGNALING OR SIGNED TERMINAL, DEPENDING ON THE INFORMATION ENTERED.

**SPECIAL ERROR CODES:**

81-TERMINAL BUSY CAN ONLY BE ASSIGNED TO AN UNASSIGNED BUTTON.  
 82-TERMINAL BUSY IS NOT ASSIGNED.  
 83-THIS BUTTON CANNOT BE ASSIGNED. THE TERMINAL IS ASSIGNED AS A NO-BUTTON SET.  
 84-BUTTON IS ALREADY ASSIGNED.  
 85-THIS IS A ONE BUTTON TRANSFER BUTTON. REMOVE IT IN PROC 055 WORD 2.  
 87-THE MAXIMUM NUMBER OF TERMINAL BUSY ASSIGNMENTS, (17) HAVE BEEN ENTERED.

**NOTES:**

1. ONLY ONE SIGNALING TERMINAL CAN BE ASSIGNED TO A BUTTON ON A SIGNED TERMINAL.
2. AS TERMINAL BUSY ASSIGNMENTS ARE ADDED OR REMOVED, THE NUMBER OF SIGNED TERMINALS (FIELD 13) IS AUTOMATICALLY ADJUSTED.
3. THE TERMINAL BUSY INDICATIONS FEATURE CAN ONLY BE ASSIGNED TO UNASSIGNED BUTTONS.

WORD 1	SIGNALING TERMINAL					SIGNED TERMINAL					DISPLAY ONLY	MULT APPR TERMINAL BUSY		
	TERMINAL EQUIPMENT LOCATION				DEVICE ID	TERMINAL EQUIPMENT LOCATION				NUMBER OF SIGNED TERMINALS				
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	MODULE	CABINET				CARRIER	SLOT
	1	2	3	4	5	6	7	8	9	10	11	12	13	<b>055</b>

FIELD LIMITS:

FIELD 1: 0-30

FIELD 2: 0-7

FIELD 3: 0-3

FIELDS 4: 0-3, 5-8, 13-16, 18-21

FIELD 5: 0-7

FIELD 6:

0 = BASIC SET

1 = FEATURE MODULE

2 = COVERAGE MODULE

3 = DISPLAY MODULE

4 = ADFTC

FIELD 7: 1-36

FIELD 8: 0-30

FIELD 9: 0-7

FIELD 10: 0-3

FIELD 11: 0-3, 5-8, 13-16, 18-21

FIELD 12: 0-7

FIELD 13: 0-17

WORD 1A

TERMINAL  
BUSY

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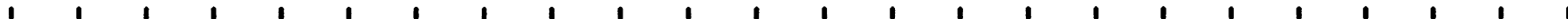
FIELD LIMITS:  
FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-7  
FIELD 6:  
0 = BASIC SET  
1 = FEATURE MODULE  
2 = COVERAGE MODULE  
3 = DISPLAY MODULE  
4 = ADFTC  
FIELD 7: 1-36  
FIELD 8: 0-30  
FIELD 9: 0-7  
FIELD 10: 0-3

FIELD 11: 0-3, 5-8, 13-16, 18-21  
FIELD 12: 0-7  
FIELD 13:  
0 = WITHOUT RETURN  
1 = WITH RETURN  
FIELD 14: 0-99

WORD 2A

ONE BUTTON  
TRANSFER

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FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
DIAL/AUTO - MANUAL INTERCOMS**

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INPUT FIELDS:

DISPLAY: 1-2 OR 3-7, OR 3-9  
 ADD: DIAL INTERCOM 1-10; MANUAL INTERCOM 1-11  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: NOT ALLOWED  
 NEXT DATA: (SEE NOTE 2)

SPECIAL ERROR CODES:

81-ONLY TWO AUTOMATIC INTERCOMS ARE ALLOWED PER INTERCOM GROUP  
 82-ONLY 16 LINE APPEARANCES OF NON-DIAL AND 28 LINE APPEARANCES OF DIAL INTERCOMS.  
 83-A MAXIMUM OF THREE TENS GROUPS IS ALLOWED FOR INTERCOM DIAL CODES.  
 84-A TERMINAL CANNOT HAVE MULTIPLE APPEARANCES OF THE SAME NON-DIAL INTERCOM.  
 85-ONLY MULTIAPPEARANCE VOICE TERMINALS ARE ALLOWED.

86-BUTTON IS ALREADY ASSIGNED.  
 87-DIAL CODE IS ALREADY ASSIGNED.

WORD 1	ICOM TYPE	INTERCOM NUMBER	TERMINAL EQUIPMENT LOCATION				DEVICE ID		DIAL CODE	NON-DIAL SIGNAL TYPE			DISPLAY ONLY	INTERCOMS												
			MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE					MEMBER (BUTTON)		NUMBER OF TERMINALS ON THIS INTERCOM											
	1	.	.	2	.	3	4	5	.	6	7	8	.	9	.	10	.	11	.	.	.	.	.	12		<b>056</b>

NOTES:

1. EACH TERMINAL ASSIGNED TO THE INTERCOM-DIAL-FEATURE MUST BE ASSIGNED A UNIQUE DIAL CODE. WITHIN AN INTERCOM GROUP, A MIXTURE OF ONE-DIGIT AND TWO-DIGIT DIAL CODES IS ALLOWED. HOWEVER, ANY NUMBER USED AS THE FIRST DIGIT OF A TWO-DIGIT CODE CANNOT ALSO BE USED AS A ONE-DIGIT CODE. FURTHERMORE, NO MORE THAN TWO DIGITS CAN BE USED AS THE FIRST DIGIT OF A TWO-DIGIT CODE. THE FOLLOWING IS A VALID SET OF DIAL CODES: 0, 1, 3, 4, 6, 7, 8, 9, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 50, 51, 52, 53, 54, 55, 56, 57, AND 59.
2. IF AN INTERCOM NUMBER IS ENTERED, NEXT DATA DISPLAYS ALL EQUIPMENT LOCATIONS WITH INTERCOM ASSIGNMENTS. IF AN EQUIPMENT LOCATION IS ENTERED, NEXT DATA DISPLAYS ALL INTERCOM ASSIGNMENTS AND EQUIPMENT LOCATIONS.

FIELD LIMITS:

- FIELD 1:  
0 = NON-DIAL  
1 = DIAL
- FIELD 2:  
1-280 = DIAL INTERCOMS  
1-300 = AUTOMATIC OR  
MANUAL INTERCOMS
- FIELD 3: 0-30  
FIELD 4: 0-7  
FIELD 5: 0-3  
FIELD 6: 0-3, 5-8, 13-16, 18-21  
FIELD 7: 0-7  
FIELD 8:  
0 = BASIC SET  
1 = FEATURE MODULE  
2 = COVERAGE MODULE  
3 = DISPLAY MODULE  
4 = ADFTC

- FIELD 9: 1-36  
FIELD 10: NON-DASH FOR  
DIAL INTERCOM;  
DASHES FOR MANUAL  
AND AUTOMATIC
- FIELD 11:  
- = DIAL  
0 = MANUAL  
1 = AUTOMATIC
- FIELD 12: 0-28

WORD 1A

INTERCOMS

056

FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL PERSONAL  
CO LINE APPEARANCE**

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 1-7  
 ADD: 1-13  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS TRUNK EQUIPMENT LOCATIONS

**SPECIAL ERROR CODES:**

81-THE TRUNK MUST BE ASSIGNED TO A TRUNK GROUP USED ONLY FOR CO LINE APPEARANCE.  
 82-ONLY MULTI APPEARANCE TERMINALS ARE ALLOWED TO PICK UP A CO LINE.  
 83-BUTTON IS ALREADY ASSIGNED.  
 84-WRONG BUTTON TYPE.  
 85-THERE IS A MAXIMUM OF 16 IMAGES PER LINE APPEARANCE.

**FIELD LIMITS:**

FIELDS 1 & 8: 0-30  
 FIELDS 2 & 9: 0-7  
 FIELDS 3 & 10: 0-3  
 FIELDS 4 & 11: 0-3,  
 5-8, 13-16, 18-21  
 FIELDS 5 & 12: 0-3

**FIELD 6:**

0 = BASIC SET  
 1 = FEATURE MODULE  
 2 = COVERAGE MODULE  
 3 = DISPLAY MODULE  
 4 = ADFTC  
 FIELD 7: 1-36

**FIELD 13:**

0 = NO RINGING  
 1 = RINGING  
 FIELD 14: 1-16  
 FIELD 15: 0-16,  
 18-30, 33, 34

WORD 1	TERMINAL EQUIPMENT LOCATION					DEVICE ID		TRUNK EQUIPMENT LOCATION					RINGING TYPE	DISPLAY ONLY		PERSONAL CO LINE
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER	MODULE	CABINET	CARRIER	SLOT	CIRCUIT		NO. OF IMAGES OF THIS CO LINE	BUTTON TYPE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	<b>057</b>



FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
DISPLAY CO LINE TRUNKS**

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INPUT FIELDS:

DISPLAY: SEE NOTE 1  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS ALL PERSONAL CO LINE AND TRUNK GROUPS

SPECIAL ERROR CODE:

81-THIS TRUNK GROUP IS NOT ASSIGNED TO CO LINE APPEARANCE.

NOTES:

1. DISPLAY FIELD 1 OR NONE. IF NO INFORMATION IS ENTERED, THE LOWEST PERSONAL CO LINE TRUNK GROUP IS DISPLAYED. IF NO TRUNKS ARE ASSIGNED TO A PERSONAL CO LINE TRUNK GROUP, DASHES ARE DISPLAYED IN FIELDS 3 THROUGH 8.

FIELD LIMITS:

FIELD 1: -, 18-999

FIELD 2:

19 = 2-WAY CO, AUTOMATIC IN, DOD  
 24 = 2-WAY FX, AUTOMATIC IN, DOD  
 26 = 1-WAY WATS, AUTOMATIC IN  
 27 = 1-WAY WATS, DOD

FIELD 3: 0-30

FIELD 4: 0-7

FIELD 5: 0-3

FIELD 6: 0-3, 5-8,  
13-16, 18-21

FIELD 7: 0-3

FIELD 8: 1-16

WORD 3	TRUNK GROUP NUMBER	TRUNK TYPE	TRUNK EQUIPMENT LOCATION					NUMBER OF IMAGES	CO LINE TRUNKS
			MODULE	CABINET	CARRIER	SLOT	CIRCUIT		
	1	2	3	4	5	6	7	8	057

FLIPCHART  
ISSUE 9

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### MULTI APPEARANCE TERMINAL SWAP

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**INPUT FIELDS:**

DISPLAY: 1-5 AND 10-14  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: TO SWAP TWO TERMINALS, ENTER FIELDS 1-5 AND 10-14, DO A DISPLAY ROUTINE, THEN A CHANGE ROUTINE.  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-ONLY MULTI APPEARANCE TERMINAL AND DATA MODULE TYPES CAN BE SWAPPED.  
 82-A 74 SERIES TERMINAL WITH A DISPLAY MODULE OR DTM CAN NOT BE SWAPPED WITH A 72 SERIES TERMINAL.  
 83-A 73 SERIES TERMINAL MAY BE SWAPPED WITH A 72 OR 74 SERIES TERMINAL ONLY WHEN THE 72 OR 74 SERIES TERMINAL DOES NOT HAVE A DTM OR ANY ADJUNCTS ASSIGNED.  
 84-CANNOT SWAP TERMINAL ON DSC (SEE PROC 360 WORD 1).

**NOTES:**

1. A 510 BCT, 515 BCT, 7404D, OR 7407D MAY ONLY BE SWAPPED WITH ANOTHER 74 OR BCT SERIES TERMINAL.

WORD 1	TERMINAL A									TERMINAL B									TERMINAL SWAP
	TERMINAL EQUIPMENT LOCATION					DISPLAY ONLY				TERMINAL EQUIPMENT LOCATION					DISPLAY ONLY				
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	TERMINAL TYPE	SIZE	PLUG 1	PLUG 2	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	TERMINAL TYPE	SIZE	PLUG 1	PLUG 2	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	058

FIELD LIMITS:

- FIELD 1: 0-30
- FIELD 2: 0-7
- FIELD 3: 0-3
- FIELD 4: 0-3, 5-8,  
13-16, 18-21
- FIELD 5: 0-7
- FIELD 6:
  - 2 = 72 SERIES
  - 3 = 74 SERIES
  - 7 = 515BCT
  - 9 = 73 SERIES
  - 11 = 510BCT
  - 12 = 7404D
  - 13 = 7407D
  - 15 = 7401D
  - 16 = 7406D
  - 17 = PC

FIELD 7:

- 1 = 7203H, 7303S, 7403D, 7401D
- 2 = 7205H, 7305S, 7405D, 7407D,  
510BCT OR PC
- 3 = 7404D
- 4 = 7406D

FIELDS 8 AND 9:

- 1 = FEATURE
- 2 = COVERAGE
- 3 = DISPLAY
- = NOT ASSIGNED

FIELD 10: 0-30

- FIELD 11: 0-7
- FIELD 12: 0-3
- FIELD 13: 0-3, 5-8, 13-16, 18-21
- FIELD 14: 0-7

FIELD 15:

- 2 = 72 SERIES
- 3 = 74 SERIES
- 7 = 515BCT
- 9 = 73 SERIES
- 11 = 510BCT
- 12 = 7404D
- 13 = 7407D
- 15 = 7401D
- 16 = 7406D
- 17 = PC

FIELD 16:

- 1 = 7203H, 7303S, 7403D, 7401D
- 2 = 7205H, 7305S, 7405D, 7407D,  
510BCT, OR PC
- 3 = 7404D
- 4 = 7406D

FIELDS 17 AND 18:

- 1 = FEATURE
- 2 = COVERAGE
- 3 = DISPLAY
- = NOT ASSIGNED

WORD 1A

TERMINAL  
SWAP

058





INPUT SPECIFICATIONS FOR ADD OPERATION:

PURPOSE	FIELD					
	1-5	6	7	8	9	
1) TO ADMINISTER GROUP LIST.	-	0	GROUP #	SIZE	-	-
2) TO SHARE TERMINAL TO A GROUP LIST WITH CONTROL.	EQUIPMENT LOCATION	[1, 2]	GROUP #	-	1	-
3) TO SHARE TERMINAL TO A GROUP LIST WITHOUT CONTROL.	EQUIPMENT LOCATION	[1, 2]	GROUP #	-	0	-
4) TO ASSIGN A PERSONAL LIST TO A TERMINAL.	EQUIPMENT LOCATION	[1, 2]	-	SIZE	-	-
5) TO ASSIGN OR DENY TERMINAL ACCESS TO SYSTEM LIST.	EQUIPMENT LOCATION	3	-	-	-	[0, 1]

BRACKETS [ ] INDICATE CHOICE OF ENCLOSED VALUES

FIELD LIMITS:

- FIELD 1: -, 0-30
- FIELD 2: 0-7
- FIELD 3: 0-3
- FIELD 4: 0-3, 5-8, 13-16, 18-21
- FIELD 5: 0-7
- FIELD 6:
  - 0 = GROUP LIST
  - 1 = LIST A ACCESS
  - 2 = LIST B ACCESS
  - 3 = SYSTEM LIST ACCESS
- FIELD 7: 1-9999
- FIELD 8: 5-95 IN INCREMENTS OF 5

FIELD 9:

- 0 = THIS TERMINAL IS NOT THE CONTROLLER
- 1 = THIS TERMINAL IS THE CONTROLLER OF GROUP LIST

FIELD 10:

- 0 = NO ACCESS
- 1 = ACCESS

WORD 1A

ABBREVIATED  
DIALING

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FLIPCHART  
ISSUE 9

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**ABBREVIATED DIALING  
ADMINISTER LIST ITEMS**

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**INPUT FIELDS:**

DISPLAY: 1-6 & 8-9, 6-9, OR 6-7 & 9,  
(10 OPTIONAL)  
ADD: NOT ALLOWED  
REMOVE: REMOVES ALL SEGMENT OF A LIST  
ITEM  
CHANGE: 1-14  
NEXT DATA: SEE NOTE 1

**SPECIAL ERROR CODES:**

81-THIS LIST DOES NOT EXIST.  
82-CANNOT OPERATE ON LIST IF NOT THE OWNER OR CONTROLLER.  
83-THE LIST INDEX EXCEEDS THE SIZE OF THE LIST.  
85-ILLEGAL CHARACTER ENTERED. A FUNCTION ENTRY MUST BE FOLLOWED  
BY A SPECIAL FUNCTION ENCODE. A SPECIAL FUNCTION ENCODE MUST  
BE PRECEDED BY FUNCTION ENTRY. FUNCTION ENTRY IS ILLEGAL AS  
THE LAST CHARACTER.  
86-SET FIELD 10 TO 1 TO BRING THE LIST ITEM INTO SCRATCH PAD.

87-THE CHARACTER FOLLOWING SPECIAL FUNCTION ENCODE 18 IS THE  
NUMBER OF MANUAL DIGITS AND MUST BE A NUMBER FROM 1 TO 15.

WORD 2	TERMINAL EQUIPMENT LOCATION					LIST TYPE	GROUP LIST NUMBER OR SYSTEM LIST ITEM	GROUP OR PERSONAL LIST ITEM	SEGMENT	READWRITE MODE	SEGMENT CHARACTERS				ABBREVIATED DIALING												
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT						CHARACTER 1	CHARACTER 2	CHARACTER 3	CHARACTER 4													
	.	1	2	3	.	4	5	6	.	.	.	7	.	8	9	.	10	.	11	.	12	.	13	.	14		<b>059</b>

NOTES:

1. NEXT DATA DISPLAYS EACH SEGMENT OF FIELD 9, THEN:  
IF FIELD 10 = 1 OR DASH, NEXT DATA DISPLAYS THE  
NEXT ITEM (FIELDS 7 OR 8) IN THE LIST, IF  
FIELD 10 = 0, NEXT DATA DISPLAYS THE SAME  
ITEM AGAIN. THE CHANGE AND NEXT DATA ROUTINES  
MAY BE USED TOGETHER TO ACCUMULATE CHANGES IN  
THE SCRATCH-PAD TABLE BEFORE TRANSFERRING THE  
CHANGES TO THE MACHINE-USED TABLE. TO DO THIS,  
SET THE READ/WRITE MODE (FIELD 10) TO 0. MAKE  
THE REQUIRED CHANGES AND THEN USE NEXT DATA TO  
ACCESS THE NEXT SEGMENT. TO TRANSFER THE DATA  
TO THE MACHINE-USED TABLE, SET THE READ/WRITE  
MODE TO 1 AND DO A CHANGE ROUTINE.

WORD 2 INPUT SPECIFICATIONS

PURPOSE	FIELD					
	1-5	6	7	8	9	10
1. TO ASSIGN GROUP LIST ITEM	-	0	GROUP #	ITEM #	1-5	[-, 0, 1]
2. TO ASSIGN PERSONAL LIST ITEM	EQUIPMENT LOCATION	[1, 2]	-	ITEM #	1-5	[-, 0, 1]
3. TO ASSIGN SYSTEM LIST ITEM	-	3	ITEM #	-	1-5	[-, 0, 1]

BRACKETS [ ] INDICATE CHOICE OF ENCLOSED VALUES.

WORD 2A

ABBREVIATED  
DIALING

059

FIELD LIMITS:

FIELD 1: 0-30

FIELD 2: 0-7

FIELD 3: 0-3

FIELD 4: 0-3, 5-8, 13-16, 18-21

FIELD 6:

0 = GROUP LIST

1 = LIST A

2 = LIST B

3 = SYSTEM LIST

FIELD 7: 1-999

FIELD 8: 1-95

FIELD 9:

1 = CHARACTERS 1-4

2 = CHARACTERS 5-8

3 = CHARACTERS 9-12

4 = CHARACTERS 13-16

5 = CHARACTERS 17-20

FIELD 10:

- = READ/WRITE - MACHINE-USED TABLE

0 = READ/WRITE - SCRATCH-PAD TABLE

1 = READ/WRITE - MACHINE-USED TABLE

FIELDS 11-14:

0-9 = DECIMAL DIGITS

11 = \*

12 = #

13 = FUNCTION ENTRY

14 = PAUSE

15 = WAIT

16 = MARK

17 = AWAIT DIAL TONE

18 = MANUAL DIGIT ENTRY

19 = SUPPRESS DISPLAY

20 = END OF DIALING

1-15 = NUMBER OF MANUAL DIGITS (MUST FOLLOW ENCODE 18)

WORD 2B

ABBREVIATED  
DIALING

059





ABBREVIATED DIALING  
LIST ACCESS AND SPECIAL FUNCTION BUTTONS

FIELD LIMITS:

FIELD 1: 0-30

FIELDS 2 & 3: 0-3

FIELD 4: 0-3, 5-8, 13-16, 18-21

FIELD 5: 0-3

FIELD 6:

0 = BASIC SET

1 = FEATURE MODULE

2 = COVERAGE MODULE

3 = DISPLAY MODULE

4 = ADFTC

FIELD 7: 1-36

FIELD 8:

1 = LIST 'A' ITEM BUTTON

2 = LIST 'B' ITEM BUTTON

3 = SYSTEM LIST ITEM BUTTON

4 = LIST 'A' ACCESS BUTTON

5 = LIST 'B' ACCESS BUTTON

6 = SYSTEM LIST ACCESS BUTTON

7 = PROGRAM BUTTON

13 = FUNCTION ENTRY

14 = PAUSE

15 = WAIT

16 = MARK

18 = MANUAL DIGIT ENTRY

19 = SUPPRESS DISPLAY

20 = END OF DIALING

FIELD 9:

1-999 = SYSTEM LIST

1-95 = LIST A OR LIST B

WORD 3A

ABBREVIATED  
DIALING

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FLIPCHART  
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**ABBREVIATED DIALING AUTOMATIC  
DIALING/DEFAULT DIALING BUTTON ASSIGNMENT**

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**INPUT FIELDS:**

DISPLAY: 1-5 OR 1-7  
 ADD: 1-7 OR 1-13  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 1-13  
 NEXT DATA: SEE NOTE 1

**SPECIAL ERROR CODES:**

81-ENTER A VALID MULTI APPEARANCE TERMINAL EQUIPMENT LOCATION (FIELDS 1-5).  
 82-NOT AN AUTOMATIC DIALING BUTTON (FOR VOICE TERMINAL); OR DEFAULT DIALING IS NOT ASSIGNED (FOR DATA TERMINAL).  
 83-ENTER SEGMENTS IN INCREASING SEQUENCE.  
 84-ILLEGAL CHARACTER ENTERED. FUNCTION ENTRY (13) MUST BE FOLLOWED BY SPECIAL FUNCTION ENCODES (14-19). SPECIAL FUNCTION ENCODE MUST BE PRECEDED BY FUNCTION ENTRY. FUNCTION ENTRY IS ILLEGAL AS LAST CHARACTER.

85-THE CHARACTER FOLLOWING SPECIAL FUNCTION ENCODE 18 MUST BE A NUMBER FROM 1 TO 15.  
 86-THE EQUIPMENT LOCATION HAS NO DATA TERMINAL ASSIGNED FOR DEFAULT DIALING.

WORD 4	TERMINAL EQUIPMENT LOC					DEVICE ID		SEGMENT	READ/WRITE MODE	BUTTON ASSIGNMENTS				ABBREVIATED DIALING	
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)			CHARACTER 1	CHARACTER 2	CHARACTER 3	CHARACTER 4		
	1	2	3	4	5	6	7	8	9	10	11	12	13		<b>059</b>

NOTES CONTINUED:

1. NEXT DATA DISPLAYS SEGMENT OF FIELD 9, THEN: IF FIELD 10 = 1 OR DASH, NEXT DATA DISPLAYS THE NEXT ITEM (FIELDS 7 OR 8) IN THE LIST, IF FIELD 10 = 0, NEXT DATA DISPLAYS THE SAME ITEM AGAIN. ADD OR CHANGE AND NEXT DATA MAY BE USED TOGETHER TO ACCUMULATE ADDITIONS OR CHANGES IN THE SCRATCH-PAD TABLE BEFORE TRANSFERRING THE ADDITIONS OR CHANGES TO THE MACHINE-USED TABLE. TO DO THIS, SET THE READ/WRITE MODE (FIELD 9) TO 0. MAKE THE REQUIRED ADDITIONS OR CHANGES AND THEN USE NEXT DATA TO ACCESS THE NEXT SEGMENT. TO TRANSFER THE DATA TO THE MACHINE-USED TABLE, SET THE READ/WRITE MODE TO 1 AND DO AN ADD OR CHANGE ROUTINE.

2. ADDING A BUTTON WITHOUT CHARACTERS ASSIGNS A BUTTON AS AN AUTOMATIC DIALING BUTTON, OR GIVES A DATA TERMINAL ACCESS TO DEFAULT DIALING (DASH FIELDS 8-13).  
3. TO ASSIGN OR DISPLAY DEFAULT DIALING FOR A DATA TERMINAL, SPECIFY THE EQUIPMENT LOCATION IN FIELDS 1-5, DEVICE TYPE (FIELD 6) = 0 AND MEMBER (FIELD 7) = 0 FOR SINGLE CHANNEL, 0-1 FOR DUAL CHANNEL.

WORD 4A

ABBREVIATED  
DIALING

059

FIELD LIMITS:  
FIELD 1: 0-30  
FIELDS 2-3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-3  
FIELD 6:  
0 = BASIC SET  
1 = FEATURE MODULE  
2 = COVERAGE MODULE  
3 = DISPLAY MODULE  
4 = ADFTC  
FIELD 7: 1-36

FIELD 8:  
- = ASSIGN AUTOMATIC DIALING BUTTON  
1 = CHARACTERS 1-4  
2 = CHARACTERS 5-8  
3 = CHARACTERS 9-12  
4 = CHARACTERS 13-16  
5 = CHARACTERS 17-20  
FIELD 9:  
DISPLAY (READ) ROUTINE  
-, 1 = READ LIST ITEM FROM MACHINE-USED TABLE  
0 = READ LIST ITEM FROM SCRATCH-PAD TABLE.  
ADD, CHANGE (WRITE) ROUTINE  
1 = WRITE LIST ITEM TO THE MACHINE-USED TABLE.  
0 = WRITE LIST ITEM TO THE SCRATCH-PAD TABLE.

FIELDS 10-13:  
0-9 = DECIMAL DIGITS  
11 = \*  
12 = #  
13 = FUNCTION ENTRY  
14 = PAUSE  
15 = WAIT  
16 = MARK  
17 = AWAIT DIAL TONE  
18 = MANUAL DIGIT ENTRY  
19 = SUPPRESS DISPLAY  
20 = END OF DIALING

WORD 4B

ABBREVIATED  
DIALING

059

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FLIPCHART  
ISSUE 9

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**ABBREVIATED DIALING  
DISPLAY CAPACITIES**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

NOTES:

1. THE SAME AREA OF MEMORY IS USED FOR BOT▼ ABBREVIATED  
DIALING LIST ITEMS AND AUTOMATIC DIALING BUTTONS. AS ONE  
DECREASES, SO DOES THE OTHER.

FIELD LIMITS:

FIELDS 1-3: DEPEND ON CONFIGURATION OF MACHINE

WORD 5	REMAINING CAPACITY			ABBREVIATED DIALING
	AUTOMATIC DIALING BUTTONS	ABBREVIATED DIALING 5-ITEM LISTS	ABBREVIATED DIALING LIST ITEMS	
.	.	.	.	<b>059</b>

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION DISPLAY  
MEMBER ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-5 OR 7 & 8  
ADD: 1-8  
REMOVE: 1-8  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS THE SPLIT MEMBER  
ASSIGNMENTS FOR EACH DISPLAY  
COLUMN.

**SPECIAL ERROR CODE:**

81-SELECT A DIFFERENT MEMBER. THIS MEMBER ALREADY APPEARS ON  
THE DISPLAY UNIT.

**NOTES:**

1. EACH COLUMN IS ASSOCIATED WITH AN ACD MEMBER.
2. AN ACD MEMBER IS AN ACD AGENT ASSIGNED TO A PARTICULAR  
SPLIT. THE RANGE IS LIMITED BY THE SPLIT SIZE SET IN  
PROC 026 WORD 1.

3. THE 106B DISPLAY UNIT IS ADDED TO THE SYSTEM WHEN THE FIRST  
MEMBER IS ASSIGNED. IT IS REMOVED FROM THE SYSTEM WHEN THE  
LAST NUMBER IS REMOVED.

**FIELD LIMITS:**

FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8,  
13-16, 18-21  
FIELD 5: 0-7  
FIELD 6: 0-9  
FIELD 7: 1-60  
FIELD 8: 0-1023

WORD 1	DISPLAY UNIT EQUIPMENT LOCATION					DISPLAY COLUMN	ACD SPLIT	ACD MEMBER	ACD DISPLAY
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT				
	1	2	3	4	5	6	7	8	060

FLIPCHART  
ISSUE 9

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**AUTOMATIC CALL DISTRIBUTION  
PAIR ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-5  
ADD: 1-10  
REMOVE: 1-10  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-THIS EQUIPMENT LOCATION IS ALREADY PAIRED WITH ANOTHER EQUIPMENT LOCATION.  
82-A DISPLAY UNIT EQUIPMENT LOCATION CANNOT BE PAIRED WITH ITSELF.

**NOTES:**

1. USE PROC 060 WORD 2 TO LINK THE RIGHT AND LEFT HALVES OF A 106B DISPLAY UNIT TOGETHER. USE THIS PROCEDURE WHEN MORE THAN 10 ACD AGENTS ARE ASSIGNED TO THE SAME DISPLAY UNIT. IT IS RECOMMENDED THAT EACH DISPLAY UNIT IS ADMINISTERED WITH

TWO EQUIPMENT LOCATIONS TO ENSURE THAT ALL THE LAMPS ON THE DISPLAY UNIT LIGHT UP WHEN THE TEST BUTTON ON THE DISPLAY UNIT IS PUSHED. OTHERWISE WHEN USING THE TEST BUTTON, A SPLIT SUPERVISOR MAY THINK THE RIGHT HALF OF THE DISPLAY UNIT IS INOPERABLE.

**FIELD LIMITS:**

FIELDS 1 & 6: 0-30  
FIELDS 2 & 7: 0-7  
FIELDS 3 & 8: 0-3

FIELDS 4 & 9: 0-3, 5-8, 13-16, 18-21  
FIELDS 5 & 10: 0-7

WORD 2	FIRST DISPLAY UNIT EQUIP LOC					SECOND DISPLAY UNIT EQUIP LOC					ACD PAIR ASSIGNMENTS	
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	MODULE	CABINET	CARRIER	SLOT	CIRCUIT		
	1	2	3	4	5	6	7	8	9	10		060

FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL - INTERCOM RING  
RATES AND A/D RINGING**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1, 2  
NEXT DATA: NOT ALLOWED

NOTES:

1. INTERCOM RING RATES:  
RING 1 = TWO SECONDS OF MODULATED RINGING REPEATED EVERY FIVE SECONDS  
RING 2 = ONE SHORT RING, THEN A TWO-SECOND MODULATED RING (REPEATED EVERY FIVE SECONDS)  
RING 3 = TWO SHORT RINGS, THEN A TWO-SECOND MODULATED RING (REPEATED EVERY FIVE SECONDS)  
RING-PING = ONE SHORT MODULATED RING THAT IS NOT REPEATED

BUZZ 1 = ONE-SECOND UNMODULATED TONE (REPEATED EVERY FIVE SECONDS)

BUZZ 2 = A SHORT UNMODULATED TONE (NOT REPEATED)

FIELD LIMITS:

FIELD 1:

0 = RING 1      4 = BUZZ 1  
1 = RING 2      5 = BUZZ 2  
2 = RING 3  
3 = RING-PING

FIELD 2:

0 = 2 CYCLES  
1 = 4 CYCLES  
2 = 8 CYCLES  
3 = 16 CYCLES

WORD 1

INTERCOM  
RING RATE

1

A/D  
RING CYCLES

2

INTERCOM  
RING RATES

**061**

FLIPCHART  
ISSUE 9

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### AUTOMATIC MESSAGE WAITING (AMW)

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845552223

**INPUT FIELDS:**

DISPLAY: 1 AND/OR 2-6, OR OR 2-8  
 ADD: 1-6 OR 1-8  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS AUTOMATIC MESSAGE WAITING LAMP ASSIGNMENTS

**SPECIAL ERROR CODES:**

81-ONLY 3 AMW LAMP ASSIGNMENTS PER EXTENSION ARE ALLOWED.  
 82-AN AMW LAMP IS ALREADY ASSIGNED TO THIS EXTENSION (FIELD 1) AT THIS EQUIPMENT LOCATION (FIELDS 2-6).  
 83-NO AMW LAMP ASSIGNED.  
 84-ASSOCIATED EXTENSIONS ARE NOT ALLOWED.  
 85-THIS LAMP IS ASSIGNED.  
 86-AN AMW LAMP CAN ONLY BE ASSIGNED TO AN UNASSIGNED BUTTON.  
 87-AN EXTENSION MUST BE ASSIGNED TO THIS TERMINAL.

**NOTES:**

1. FIELDS 7 AND 8 ARE NOT REQUIRED IF FIELDS 2-6 SPECIFY A SINGLE APPEARANCE VOICE TERMINAL.
2. THE AMW LAMP IS USUALLY ASSIGNED TO BUTTON NUMBER 2 ON MULTIAPPEARANCE VOICE TERMINALS OR BUTTON 0 ON SINGLE-APPEARANCE VOICE TERMINALS. AN AMW LAMP CAN ALSO BE ASSIGNED TO UNASSIGNED, DXS, AND NONFIXED HOLD BUTTONS.

WORD 1	EXTENSION NUMBER	TERMINAL EQUIPMENT LOCATION					DEVICE ID		AUTO MESSAGE WAITING
		MODULE	CABINET	CARRIER	SLOT	CIRCUIT	DEVICE TYPE	MEMBER (BUTTON)	
	1	2	3	4	5	6	7	8	063

FIELD LIMITS:

FIELD 1: 000-99999

FIELD 2: 0-30

FIELD 3: 0-7

FIELD 4: 0-3

FIELD 5: 0-3, 5-8, 13-16, 18-21

FIELD 6: 0-7

FIELD 7:

-, 0 = BASIC SET

1 = FEATURE MODULE

2 = COVERAGE MODULE

3 = DISPLAY MODULE

4 = ADFTC

FIELD 8: -, 1-36

WORD 1A

AUTO  
MESSAGE WAITING

063



FLIPCHART  
ISSUE 9

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**AUTOMATIC MESSAGE WAITING (AMW)**

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845552223

INPUT FIELDS:

DISPLAY: 1-4  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: SEE NOTE 1

SPECIAL ERROR CODES:

81-EXTENSION IS NOT ASSIGNED AUTOMATIC MESSAGE WAITING LAMP.  
82-ASSOCIATED EXTENSIONS ARE NOT ALLOWED.  
83-EITHER FIELDS 2 OR 3 MAY BE ENTERED FOR DISPLAY, BUT NOT BOTH.

NOTES:

1. IF AN ASSIGNED EXTENSION IS ENTERED IN FIELD 1, NEXT DATA DISPLAYS ALL EXTENSIONS WITH AUTOMATIC MESSAGE WAITING (AMW) LAMP ASSIGNMENTS. IF FIELD 2 OR 3 (BUT NOT BOTH) IS ENTERED (AND OTHER FIELDS ARE DASHED), NEXT DATA DISPLAYS ALL

EXTENSIONS THAT ARE ASSIGNED AMW LAMPS AND ARE ASSOCIATED WITH THE SPECIFIED MACHINE NUMBER.

FIELD LIMITS:

FIELD 1: 000-99999  
FIELD 2: -, 1-7  
FIELD 3: -, 1-4  
FIELD 4:  
- = DISABLED  
1 = ENABLED

WORD 2

EXTENSION

1

2

3

4

AP

AUDIX

AAMW

AUTO  
MESSAGE WAITING

063

FLIPCHART  
ISSUE 9

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**MULTIAPPEARANCE TERMINAL  
ID/PERIPHERALS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-5  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS THE NEXT ASSIGNED CIRCUIT  
 OR DTDM ASSOCIATED WITH A  
 MULTIAPPEARANCE TERMINAL

**SPECIAL ERROR CODES:**

81-ENTER A VALID MULTIAPPEARANCE TERMINAL EQUIPMENT LOCATION IN  
 FIELDS 1-5.  
 82-THE QUERY FAILED BECAUSE OF A MAINTENANCE CONFLICT.  
 83-THE QUERY FAILED BECAUSE OF AN UNSUCCESSFUL SCANNER REQUEST.  
 84-THE QUERY FAILED BECAUSE OF A SCANNER DELAY OR DISCONNECTED  
 MAINTENANCE BUSIED OUT EQUIPMENT.

**NOTES:**

1. A DTDM HAS THE SAME EQUIPMENT LOCATION AS ITS ASSOCIATED 74  
 SERIES TERMINAL BUT WITH A TYPE OF 13.

2. THE HEALTH IS BASED ON THE RESULTS OF AN AUTOMATIC SELF-  
 TEST AND ONLY APPLIES WHEN FIELD 6 IS 9, 13, OR 16.  
 3. THE TERMINAL OR DATA MODULE VINTAGE FURTHER IDENTIFIES THE  
 MODEL OF A MANUFACTURER'S TERMINAL.  
 4. WHEN THE RING CODE FLAG IS SET TO 0, PERSONALIZED RINGING  
 IS SET AT THE VOICE TERMINAL AT POWER-UP. WHEN SET TO 1,  
 PERSONALIZED RINGING IS SET BY THE VOICE TERMINAL USER.  
 5. THE PERSONALIZED RINGING PATTERNS ARE ASSIGNED AT THE VOICE  
 TERMINAL. PATTERNS 1-8 AVAILABLE ON A VOICE TERMINAL  
 CORRESPOND WITH PATTERNS 0-7 IN THIS PROCEDURE.

WORD 1	EQUIPMENT LOCATION					TERMINAL OR DATA MODULE			PERIPHERALS								ID PERIPHERALS		
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	TYPE	HEALTH	VINTAGE	DXS	INTERFACE TYPE	RS-366	DISPLAY MODULE	COVERAGE MODULE	FEATURE MODULE	DTDM	PC		RING CODE FLAG	RING CODE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	070

FIELD LIMITS:

FIELD 1: 0-30

FIELD 2: 0-7

FIELD 3: 0-3

FIELD 4: 0-3, 5-8, 13-16, 18-21

FIELD 5: 0-3

FIELD 6:

- |                           |                      |
|---------------------------|----------------------|
| 0 = NON STANDARD TERMINAL | 22 = ADFTC-(DIGITAL) |
| 1 = 7403D                 | 23 = ADFTC-(ANALOG)  |
| 2 = 7405D                 | 25 = EIA             |
| 3 = 510 BCT               | 32 = 72 SERIES       |
| 4 = 7407D                 | 33 = 73 SERIES       |
| 5 = 7406D                 | 37 = 515 BCT         |
| 9 = PDM                   | 46 = 7404D           |
| 13 = DTDM                 | 56 = CPC             |
| 15 = AP32 DCP             | 57 = TPC             |
| 16 = TDM                  |                      |

FIELD 7:

0 = TEST PASSED OR NOT DONE

1 = TEST FAILED

FIELD 8: 0-127

FIELD 9:

0 = ABSENT

1 = PRESENT

- = NOT AVAILABLE

FIELD 10:

0 = RS.232C

1 = V.35

2 = RS.449

- = NONE

FIELDS 11-16:

0 = ABSENT

1 = PRESENT

0 = NOT AVAILABLE

FIELD 17: -, 0-1

FIELD 18: -, 0-7

WORD 1A

MULTAPPR  
ID

070

FLIPCHART  
ISSUE 9

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### DATA MODULE TRANSMISSION SETTINGS

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845552223

**INPUT FIELDS:**

DISPLAY: 1-5  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-ENTER A VALID DATA MODULE EQUIPMENT LOCATION IN FIELDS 1-5.  
 82-THE QUERY FAILED BECAUSE OF A MAINTENANCE CONFLICT.  
 83-THE QUERY FAILED BECAUSE OF AN UNSUCCESSFUL SCANNER REQUEST.  
 84-THE QUERY FAILED BECAUSE OF A SCANNER DELAY OR DISCONNECTED  
 OR MAINTENANCE BUSIED EQUIPMENT.

**FIELD LIMITS:**

FIELD 1: 0-30  
 FIELD 2: 0-7  
 FIELD 3: 0-3  
 FIELD 4: 0-3, 5-8,  
 13-16, 18-21  
 FIELD 5: 0-7

**FIELDS 6-15:**

0 = DISABLED  
 1 = ENABLED  
 FIELD 16:  
 0 = ZERO PARITY  
 1 = ONE PARITY  
 2 = EVEN PARITY  
 3 = ODD PARITY

**FIELD 17:**

0 = ASYNCHRONOUS  
 1 = SYNCHRONOUS  
 FIELD 18:  
 0 = FULL DUPLEX  
 1 = HALF DUPLEX  
 FIELD 19:  
 0 = NOT MODE 3  
 1 = MODE 3

WORD 2	EQUIPMENT LOCATION				BAUD RATES										PARITY	MODE	DUPLEX	DATA MODE			DATA MODULE TRANSMISSION	
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	64K	56K	48K	19.2K	9600	4800	2400	1200	300								LOW
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			<b>070</b>



EMULATION OPTION FOR FIELDS 6-12:

FIELD #	EMULATION OPTION	0	1
6	SWITCHED NETWORK/PRIVATE LINE (ONLY FOR TDM/2 OR ITS REPLACEMENT)	PRVT LINE	SWITCH NTWK
7	MAKE-BUSY ON LOCAL LOOPBACK	DISABLED	ENABLED
8	DATA MODE FOR LOCAL LOOPBACK	OFF	ON
9	AUTOMATIC ANSWER	DISABLED	ENABLED
10	SEND-SPACE DISCONNECT	DISABLED	ENABLED
11	SIGNAL-LOSS DISCONNECT	DISABLED	ENABLED
12	RESERVED FOR FUTURE USE	-	-

WORD 3A

DATA  
MODULE  
EMULATION

070

FLIPCHART  
ISSUE 9

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**DATA MODULE EIA LEAD STATUS**

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845552223

INPUT FIELDS:

DISPLAY: 1-5  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-ENTER A VALID DATA MODULE EQUIPMENT LOCATION IN FIELDS 1-5.  
82-THE QUERY FAILED BECAUSE OF A MAINTENANCE CONFLICT.  
83-THE QUERY FAILED BECAUSE OF AN UNSUCCESSFUL SCANNER REQUEST.  
84-THE QUERY FAILED BECAUSE OF A SCANNER DELAY OR DISCONNECTED  
OR MAINTENANCE BUSIED OUT EQUIPMENT.

NOTES:

1. FIELDS 11, 12, 19-21 ARE MEANINGFUL ONLY FOR INTERFACE TYPE  
RS-449.

FIELD LIMITS:

FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-7  
FIELDS 6-21:  
0 = OFF  
1 = ON

WORD 4	EQUIPMENT LOCATION				EIA LEADS																DATA MODULE EIA STATUS	
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	REQUEST TO SEND	DATA TERM READY	REMOTE LOOPBACK	LOCAL LOOPBACK	SPEED SELECT	TERMINAL IN SERVICE	NEW SIGNAL	CLEAR TO SEND	RCVD LINE SIG DET	DATA SET READY	RING INDICATOR	SPEED MODE INDICATOR	TEST MODE	SIGNAL QUALITY	SELECT STANDBY		STANDBY INDICATOR
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	070

EIA LEADS							
FIELD #	DESCRIPTION	0	1	FIELD #	DESCRIPTION	0	1
6	REQUEST TO SEND	OFF	ON	18	TEST MODE	OFF	ON
7	DATA TERMINAL READY	OFF	ON	19	SIGNAL QUALITY	OFF	ON
8	REMOTE LOOPBACK	OFF	ON	20	SELECT STANDBY	OFF	ON
9	LOCAL LOOPBACK	OFF	ON	21	STANDBY INDICATOR	OFF	ON
10	SPEED SELECT - ORIGINATE	OFF	ON				
11	TERMINAL IN SERVICE	OFF	ON				
12	NEW SIGNAL	OFF	ON				
13	CLEAR TO SEND	OFF	ON				
14	RECEIVED LINE SIGNAL DETECTOR	OFF	ON				
15	DATA SET READY	OFF	ON				
16	RING INDICATOR	OFF	ON				
17	SPEED MODE INDICATOR	OFF	ON				

WORD 4A

DATA  
MODULE  
EIA  
STATUS

070



FIELD LIMITS:

FIELD 1 (TYPE):

- 1 = EXTENSION FOR CLASS OF SERVICE (1-63)
- 2 = EXTENSION FOR CALL PICKUP GROUP (1-999)
- 3 = EXTENSION CONTROLLED BY ATND IN VOICE TERMINALS
- 4 = PRINCIPAL FOR THE GIVEN COV GROUP (SEE PROC 000 WORD 2)
- 5 = COVERAGE POINTS FOR COVERAGE GROUP (SEE PROC 011 WORD 1)
- 6 = COVERAGE GROUPS FOR COVERAGE POINT EXTENSION (SEE PROC 011 WORD 1)
- 7 = COVERAGE GROUPS FOR THE COVERAGE POINT ACD SPLIT (SEE PROC 011 WORD 1)

FIELD 4: 0-30

FIELD 5: 0-7

FIELD 6: 0-3

FIELD 7: 0-3, 5-8, 13-16, 18-21

FIELD 8: 0-7

FIELD 9: 0-7

FIELD 10: 0-8

FIELD 2:

- 1-63 = COS
- 1-999 = CALL PICKUP GROUPS
- 1-63 = ATTENDANT CONTROL OF VOICE TERMINALS
- 1-4096 = CALL COVERAGE

FIELD 3:

- , 000-99999 = EXTENSIONS OR VDN'S
- 1-60 = ACD SPLITS

WORD 1A

EXTENSION  
SEARCHES

075



FLIPCHART  
ISSUE 9

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**SEARCH HUNT FROM**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ASSIGNMENTS FOR AN EXTENSION

SPECIAL ERROR CODES:

81-YOU CANNOT HUNT TO AN ASSOCIATED EXTENSION.

NOTES:

1. IF FIELD 2 IS BLANK FOR A GIVEN EXTENSION NUMBER, NO HUNTING IS ADMINISTERED.
2. FOR MULTIAPPEARANCE TERMINALS, THE EQUIPMENT LOCATION FIELDS DISPLAY BLANKS.

FIELD LIMITS:

FIELDS 1 & 2: 000-99999  
FIELD 3: 0-30  
FIELD 4: 0-7  
FIELD 5: 0-3  
FIELD 6: 0-3, 5-8, 13-16, 18-21  
FIELD 7: 0-7

EQUIPMENT LOCATION

WORD 1

EXTENSION

HUNTED TO  
BY THIS  
EXTENSION

MODULE

CABINET

CARRIER

SLOT

CIRCUIT

SEARCH HUNT  
FROM

**076**

1

2

3

4

5

6

7

SIGNALING CODES:

VALID SIG-TYPE VALUES

- 00-NO SIGNALING REQUIRED
- 01-GROUND START
- 02-GROUND START WITH PARTY TEST
- 03-LOOP/REVERSE BATTERY, WINK START
- 04-E&M IMMEDIATE START IN AND OUT
- 05-E&M WINK START IN, IMMEDIATE START OUT
- 06-ANI SIGNALING
- 07-AUXILIARY EQUIPMENT
- 08-E&M DELAY START IN AND IMMEDIATE START OUT
- 09-E&M DELAY START IN, WINK/DELAY DIAL WITH DIAL TONE OUT
- 10-E&M WINK START IN, WINK/DELAY DIAL WITH DIAL TONE OUT

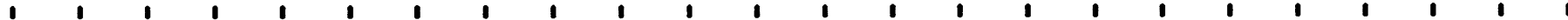
- 11-E&M WINK START IN, WINK/DELAY DIAL OUT  
ALSO KNOWN AS UNIVERSAL SEQUENCE
- 12-E&M IMMEDIATE START IN, WINK/DELAY DIAL OUT
- 13-E&M RELEASE LINK TRUNK OUT
- 14-E&M RELEASE LINK TRUNK IN
- 15-E&M MAIN SATELLITE, IMMEDIATE START
- 16-E&M MAIN SATELLITE, WINK START
- 17-E&M MAIN SATELLITE, DELAY DIAL
- 18-'S' CHANNEL SIGNALING, HOST ACCESS-GPP  
'S' CHANNEL SIGNALING, HOST ACCESS-EIA
- 19-LOOP START
- 20-DIGITAL MULTIPLEX INTERFACE ISDN MOS
- 21-E&M WINK START IN, WINK START OUT

- 22-E&M DELAY DIAL IN, DELAY DIAL OUT
- 23-E&M DELAY DIAL IN, WINK/DELAY DIAL OUT
- 24-E&M DELAY DIAL IN, WINK/DELAY DIAL OUT  
WITH FAIL ON TIMEOUT
- 25-E&M IMMEDIATE START IN, WINK/DELAY DIAL OUT  
WITH FAIL ON TIMEOUT
- 26-E&M WINK START IN, WINK/DELAY DIAL OUT  
WITH FAIL ON TIMEOUT
- 27-E&M DELAY DIAL IN, IMMEDIATE START OUT  
WITH AUTOVON
- 28-40 UNUSED

WORD 0

TRUNK TYPE  
ENCODES

100



WORD DA

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
<b>SPECIAL TRUNKS:</b>							
2 TOUCH TONE REG							0*
5 CONFERENCE 6-PARTY							0*
6 SPECIAL QUEUE							0*
<b>ALL 2-WAY APLT TRUNKS:</b>							
12 APLT DELAY DIAL IN/OUT		9*					
13 APLT DELAY DIAL OUT/WINK IN		10*					
14 APLT DIAL TONE OUT/DELAY IN		8*					
15 APLT DIAL TONE OUT/WINK IN		5*					
<b>REGULAR CO TRUNKS:</b>							
16 1-WAY IN ATTENDANT COMPLETING		4,21#	1*		19	20	
17 1-WAY OUTGOING DOD		4,21	1*		19	20	
18 1-WAY OUTGOING DODW/PARTY TEST			2*				
19 2-WAY INCOMING ATTD COMPLETING/DOD		4,21#	1*		19	20	
20 2-WAY WITH PARTY TEST			2*				

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
<b>FOREIGN EXCHANGE TRUNKS:</b>							
21 1-WAY IN ATTENDANT COMPLETING		4,21#	1*		19	20	
22 1-WAY OUTGOING DOD		4,21	1*		19	20	
23 1-WAY OUTGOING DODW/PARTY TEST			2*				
24 2-WAY INCOMING ATTD COMPLETING/DOD		4,21#	1*		19	20	
25 2-WAY WITH PARTY TEST			2*				
<b>WATS TRUNKS:</b>							
26 1-WAY IN ATTENDANT COMPLETING		4,21#	1*		19	20	
27 1-WAY OUTGOING DOD OR TOLL TERMINAL ACCESS FOR TSPS		4,21#	1*		19	20	
28 1-WAY OUTGOING DOD W/PARTY TEST			2*				

\* = DEFAULT SIGNALING

# = DIRECT CONNECTS TO 4ESS WITH MULTI FREQUENCY  
SIGNALING REQUIRE WINK START IN



TRUNK TYPE  
ENCODES

100

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
DID TRUNKS:							
30 IMMEDIATE START DID		4		+ 3*			20
31 WINK START DID		11		3*			20
TIE TRUNKS:							
32 1-WAY IN DIAL REPEATING		4*					
33 1-WAY OUT AUTOMATIC		4*					
34 1-WAY DIAL REPEATING OUT		4*	1				
35 1-WAY IN AUTOMATIC		4*	1				
36 2-WAY DIAL REPEATING BOTH WAYS		4*					
37 2-WAY DIAL REPEAT IN/AUTO OUT		4*					
38 2-WAY AUTO IN/DIAL REPEAT OUT		4*	1				
39 2-WAY AUTO BOTH WAYS		4*	1				
40 1-WAY IN DIAL REPEATING		27*					

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
TIE TRUNKS:							
41 2-WAY DIAL REPEATING		11,21,22,26*					20
42 1-WAY IN WINK START		11,21,22,26*					20
43 1-WAY OUT WINK START OR DD		11,21,22,26*					20
44 2-WAY DIAL REPEATING, AUTOMATIC OUT		27*					
45 2-WAY DIAL REPEATING DD IN WS IN WS/DD OUT		27*					
46 2-WAY DIAL REPEAT OR DELAY DIAL IN		24*					20
47 2-WAY DIAL REPEAT DD IN, DD/WS OUT		24*					20

+--CALL PROCESSING WILL ELIMINATE  
THE WINK TO DISTANT END  
\* = DEFAULT SIGNALING

WORD 08

TRUNK TYPE  
ENCODES

100

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
SPECIAL TRUNKS:							
50 REMOTE ACCESS 2-WAY DIAL TONE IN, GROUND START AND DIAL TONE OUT		4	1*			20	
51 TELEPHONE DICTATION INTERFACE							7*
52 RECORDED ANNOUNCEMENT INTERFACE							7*
53 CODE CALL INTERFACE							7*
54 LOUDSPEAKER PAGING INTERFACE			1*				7*
55 TOUCHTONE SENDER							0*
57 CAS RELEASE LINK TRUNK OUTGOING FROM BRANCH, 1-WAY OUT		13*					
58 ANI INTERFACE							6*

\* = DEFAULT SIGNALING

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
SPECIAL TRUNKS:							
62 MUSIC ON HOLD INTERFACE							0*
65 CONTACT INTERFACE							0*
66 CAS RELEASE LINK TRUNK INCOMING AT MAIN, 1-WAY IN		14*					
67 AUDIO INTERFACE							0*
90 SEE NOTE 7, WORD 1							7*
91 SEE NOTE 7, WORD 1							7*
92 SEE NOTE 7, WORD 1							7*
93 MALICIOUS CALL TRACE RECORDER							7*

\* = DEFAULT SIGNALING

WORD 0C

TRUNK TYPE  
ENCODES

100



WORD 00

TRUNK TYPE AND DESCRIPTION	SIGNALING CODES						
	BOARD TYPE	E&M	GS	RB	LS	ISDN	OTHER
SPECIAL TIE TRUNKS:							
70 1-WAY IN IMMEDIATE START		15*					
71 1-WAY OUT IMMEDIATE		15*					
72 2-WAY IMMEDIATE START		15*					
73 1-WAY IN WINK START		16*					
74 1-WAY OUT WINK START		16*					
75 2-WAY WINK START BOTH WAYS		16*					
76 1-WAY DELAY DIAL IN		17*					
77 1-WAY DELAY DIAL OUT		17*					
78 2-WAY DELAY DIAL BOTH WAYS		17*					

\* = DEFAULT SIGNALING

TRUNK TYPE AND DESCRIPTION	BOARD TYPE	SIGNALING CODES					
		E&M	GS	RB	LS	ISDN	OTHER
DATA TRUNKS:							
100 TONE DETECTOR							0*
101 ANALOG DATA MODEM POOL		4*					
102 DIGITAL DATA MODEM POOL							18*
103 HOST ACCESS PDM							18*
104 HOST ACCESS TDM							18*
105 AP32 DCPI							18*
106 EIA PORT							18*
107 ISN/EIA PORT							18*
108 DMI WINK IN/AUTO OUT		5*				20	
109 DMI WINK IN/WINK OUT		11*				20	
ISDN TRUNKS:							
120 ISDN DYNAMIC						20*	

\* = DEFAULT SIGNALING

TRUNK GROUP  
TRANSLATION

100

FLIPCHART  
ISSUE 9

+

+

**TRUNK GROUP TRANSLATION**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 2-5  
 ADD: 1-8  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 2-8  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

44-ENABLE REMOTE ACCESS IN PROC 275 BEFORE ADDING TRUNK TYPE 50.  
 45-REMOVE THE TRUNK GROUP IN PROC 100 WORD 7 BEFORE CHANGING THIS TRUNK GROUP'S TRUNK TYPE.  
 46-REMOVE THE TRUNK GROUP IN PROC 100 WORD 7 BEFORE REMOVING THIS TRUNK GROUP.  
 47-REMOVE THE TRUNK GROUP IN PROC 305 WORD 1 BEFORE CHANGING OR REMOVING THIS TRUNK GROUP.

48-REMOVE THE TRUNK GROUP IN PROC 212 WORD 1 BEFORE CHANGING OR REMOVING THIS TRUNK GROUP.  
 49-REMOVE AAR/ARS PREFIX DIGIT IN PROC 103 WORD 1 BEFORE CHANGING THE TRUNK TYPE TO DID OR REMOVE THE INCOMING PREFIX DIGIT FOR DID IN PROC 101 WORD 1 BEFORE CHANGING THE TRUNK TYPE TO TIE TRUNK.  
 50-YOU CANNOT CHANGE FROM GROUND START TO LOOP START OR LOOP START TO GROUND START TRUNKS.  
 51-WHEN VECTORING IS ENABLED TRUNK TYPES 91 AND 92 ARE NOT ALLOWED.

WORD 1	TRUNK GROUP	DIAL ACCESS/ TRUNK ID CODE				TRUNK TYPE	DIAL ACCESS RESTRICTION	PERSONAL CO LINE APPEARANCE	DISPLAY ONLY	TRUNK GROUP TRANSLATION	
		DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4						SIGNALING TYPE
		1	2	3	4	5	6	7	8	9	100

## ERROR CODES CONTINUED:

52-THE TRUNK TYPE IS INCOMPATIBLE WITH ISDN SIGNALING (SEE PROC 100 WORD 3).

53-THE SIGNALING TYPE IS INCOMPATIBLE WITH THE TRUNK TYPE PREVIOUSLY ASSIGNED (SEE PROC 100 WORD 3).

54-PARTY TEST SIGNALING IS NOT VALID FOR DSI (SEE PROC 100 WORD 3).

55-REMOVE ROUTE ADVANCE FOR THIS TRUNK GROUP IN PROC 100 WORD 4 PRIOR TO ASSIGNING THIS TRUNK TYPE.

56-THE DAC ENTERED IS NOT LONG ENOUGH.

57-REMOVE THE DATA IN PROC 100 WORD 3 FIELDS 3-7 PRIOR TO MAKING A CHANGE.

58-A TRUNK GROUP ASSIGNED TO VDN MUST BE REMOVED IN PROC 031 WORD 2 BEFORE IT CAN BE REMOVED HERE.

59-SET UP THE DIALING PLAN FIRST (PROC 350 WORD 1).

80-THIS DAC MUST BE REMOVED IN PROC 354 WORD 2 BEFORE BEING REMOVED HERE.

81-ALL THE TRUNKS IN A TRUNK GROUP MUST BE REMOVED USING PROC 116 WORD 1, PROC 150 WORD 1, PROC 155 WORD 1 OR PROC 180 WORD 1 BEFORE THE TRUNK GROUP CAN BE REMOVED.

82-ONLY 1 TRUNK GROUP CAN BE ASSIGNED AS AN OUTGOING RL.T.

83-THIS TRUNK GROUP IS ASSIGNED TO AN ETA. THE CHANGE & REMOVE ROUTINE IS NOT ALLOWED. REMOVE IN PROC 104 WORD 1 FIRST.

84-IF FIELD 8 IS 1, FIELD 7 MUST BE 1.

85-ALLOWABLE TRUNK TYPES FOR MULTI APPEARANCE TERMINAL PERSONAL C.O. LINE APPEARANCE ARE 19, 24, 26, & 27.

86-THESE TRUNK TYPES ARE NOT COMPATIBLE FOR THIS CHANGE (DIFFERENT CIRCUIT PACKS).

87-THE CHANGE ROUTINE IS NOT ALLOWED FOR EITHER THE ORIGINAL OR CHANGED TRUNK TYPE.

88-A QUEUE TRUNK GROUP ASSIGNED TO CAS MUST BE REMOVED IN PROC 211 WORD 1, BEFORE IT CAN BE REMOVED HERE.

89-A QUEUE TRUNK GROUP ASSIGNED TO ACD MUST BE REMOVED IN PROC 026 BEFORE IT CAN BE REMOVED HERE.

90-TRUNK GROUP IS ASSIGNED. REMOVE IT IN PROC 115 WORD 1 BEFORE REMOVING IT HERE.

91-REMOVE THE TRUNK GROUP ASSIGNED TO NAME DATA BASE IN PROC 012 WORD 1 BEFORE REMOVING IT HERE.

92-A CHANGE IS NOT ALLOWED FOR MULTI APPEARANCE TERMINAL C.O. LINE APPEARANCES (I.E., CHANGING FIELD 8 FROM 0-1 OR 1-0 NOT ALLOWED).

93-REMOVE THIS TRUNK GROUP IN PROC 309 WORD 1 BEFORE REMOVING HERE.

94-REMOVE THIS TRUNK GROUP IN PROC 321 WORD 1 BEFORE REMOVING HERE.

95-DATA CHARACTERISTICS MUST BE REMOVED IN PROC 100 WORD 2 BEFORE TRUNK GROUP CAN BE REMOVED HERE.

96-LEGAL TRUNK TYPES FOR DCS ARE 32-47, 73-78.

TRUNK GROUP  
TRANSLATION

100

ERROR CODES CONTINUED:

97-LEGAL TRUNK TYPES FOR AVD ARE 32-47, 70-78.

98-ILLEGAL TRUNK TYPE FOR TRUNK GROUP TERMINATED AT CAS, ACD OR VDN.

NOTES:

1. SEE WORD 0 FOR TRUNK TYPE ENCODES.
2. IF ASSIGNING A DAC USE PROC 350 WORD 1 TO ADMINISTER THE FIRST DIALED DIGIT AND THE NUMBER OF DIGITS FOR TRUNK DACS.
3. USE THIS WORD FIRST WHEN ADDING A NEW TRUNK GROUP.
4. COORDINATE REMOVAL/CHANGE OF TRUNK DAC WITH POSSIBLE ASSIGNMENTS IN PROC 354 WORD 2.
5. TRUNK GROUP 17 ALWAYS ASSIGNED TO A TOUCH-TONE REGISTER (TYPE 2). ASSIGN THE TRUNK GROUP TO TOUCH TONE SENDER CIRCUITS IN PROC 150 WORD 1.
6. TRUNK TYPES 90, 91, AND 92 HAVE THE FOLLOWING MEANINGS BASED ON WHETHER CALL VECTORING FEATURE IS ON OR OFF.

VECTOR OFF:

- 90 = ACD FIRST RECORDED ANNOUNCEMENT
- 91 = ACD SECOND RECORDED ANNOUNCEMENT
- 92 = ACD ORIGIN ANNOUNCEMENT

VECTOR ON:

- 90 = VECTORING RECORDED ANNOUNCEMENT
- 91 AND 92 ARE NOT USED

FIELD LIMITS:

FIELD 1: -, 18-999

FIELD 2: -, 0-9, 11(\*), 12(#)

FIELDS 3-5: -, 0-9

FIELD 6: 1-120 (SEE PROC 100 WORD 0)

FIELD 7:

- 0 = TRUNK ACCESS IS ALLOWED USING DAC
- 1 = TRUNK ACCESS ONLY FOR TESTS AND UNATTENDED CONSOLE SERVICE

FIELD 8:

- 0 = NOT USED FOR CO LINE APPEARANCE
- 1 = USED FOR CO LINE APPEARANCE

FIELD 9: 0-27 (SEE PROC 100 WORD 0)

WORD 1B

TRUNK GROUP  
TRANSLATION

100

FLIPCHART  
ISSUE 9

+

+

### TRUNK GROUPS MODEM POOLING AND BCCOS

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-18 OR 1-12 AND 18-19  
 REMOVE: 1-19  
 CHANGE: 1-18 OR 1-12 AND 18-19  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-TRUNK GROUP MUST BE ASSIGNED IN PROC 100 WORD 1 WITH TRUNK TYPE 102-109 BEFORE THIS WORD CAN BE USED.  
 83-FIELDS 13 THRU 17 ARE FOR MODEM POOL TRUNK GROUPS. (TRUNK TYPE 102).  
 84-IF MODEM POOL MODE IS BOTH ORIGINATING AND ANSWERING (FIELDS 13 & 14 BOTH = 1), THEN THE MODEM TYPE MUST OPERATE IN BOTH MODES (FIELD 15 = 1).

85-FIELD 19 IS FOR HOST COMPUTER ACCESS ONLY (TRUNK TYPES 103 OR 104)  
 86-ASSIGN DATA RATE BEFORE TRUNK GROUP CHARACTERISTICS CAN BE ADDED.

WORD 2	TRUNK GROUP	DATA RATE									SYNCHRONOUS	DUPLEX	MODEM POOLING					TEST TYPE	HOST ACCESS CLOCK	TRUNK GROUP	
		64 K	56 K	19.2 K	9.6 K	4.8 K	2.4 K	1.2 K	300	LOW			ORIGINATE MODE	ANSWER MODE	MODEM TYPE	CLOCK	FIRST CHOICE				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		100

TRUNK GROUP MODEM POOLING AND BCCOS

FIELD LIMITS:

FIELD 1: 18-999

FIELDS 2-10:

0 = NOT ACTIVE

1 = ACTIVE

FIELD 11:

0 = ASYNCHRONOUS

1 = SYNCHRONOUS

FIELD 12:

0 = FULL DUPLEX

1 = HALF DUPLEX

FIELD 13:

0 = NOT ACTIVE

1 = ORIGINATE MODE

FIELD 14:

0 = NOT ACTIVE

1 = ANSWER MODE

FIELD 15:

0 = MODEM CAN ONLY OPERATE IN ONE MODE

1 = MODEM CAN OPERATE IN BOTH MODES

FIELD 16:

0 = INTERNAL TDM CLOCK

1 = SLAVED TDM CLOCK

FIELD 17:

0 = NOT ACTIVE

1 = FIRST CHOICE MODEM POOL

FIELD 18:

0 = DISABLE DIGITAL FACILITY TESTING

1 = NO EIA LOOP BACK CONTROL

2 = EIA LOCAL LOOP BACK CONTROL

3 = EIA LOCAL & EIA REMOTE LOOP BACK CONTROL

FIELD 19:

0 = INTERNAL CLOCK

1 = EXTERNAL CLOCK

WORD 2A

TRUNK GROUP

100



FLIPCHART  
ISSUE 9

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**TRUNK GROUPS - SIGNALLING  
AND OTHER PARAMETERS**

+

+

845552223

**INPUT FIELDS:**

DISPLAY: 1  
ADD: 1-9  
REMOVE: NOT ALLOWED  
CHANGE: 2-9  
NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-TRUNK GROUP MUST BE ASSIGNED IN PROC 100 WORD 1.  
82-SIGNALING TYPE INCOMPATIBLE WITH TRUNK TYPE PREVIOUSLY ASSIGNED.  
83-CANNOT ASSIGN LOOP-START; THIS SWITCH IS NOT SET UP FOR DS1.  
84-THE SIGNALING TYPE PREVIOUSLY ASSIGNED IS NOT COMPATIBLE WITH THE NEW SIGNALING TYPE, SEE PROC 178 WORD 1.  
85-THIS FIELD IS NOT ALLOWED FOR THE ASSIGNED TRUNK TYPE (SEE NOTES).

86-THIS FIELD IS NOT ALLOWED FOR THE ASSIGNED SIGNALING TYPE (SEE NOTES).

87-THIS TRUNK TYPE IS NOT AN OUTGOING TRUNK TYPE.  
88-THIS TRUNK TYPE IS NOT AN INCOMING TRUNK TYPE.  
89-ISDN SIGNALING DOES NOT ALLOW THIS FIELD TO BE SET.  
91-GROUND START WITH PARTY TEST SIGNALING IS NOT VALID FOR DS1.  
92-CHANGE NOT ALLOWED; AT LEAST ONE TRUNK IN THE TRUNK GROUP IS NOT DS1.  
93-REMOVE THE TRUNK GROUP ASSOCIATED WITH INTEGRATED TELEMARKETING GATEWAY IN PROC 100 WORD 7.

WORD 3	TRUNK GROUP	SIGNALING TYPE	GLARE	RETRY	OUTGOING MBO SEIZURE	INCOMING PERM SEIZURE	FAILURE THRESHOLD	OPTIONAL ISDN INFO INHIBITED	NETWORK SERVICE VALUE	DISPLAY ONLY				TRUNK GROUP
										TRUNK TYPE				
	1	2	3	4	5	6	7	8	9					

NOTES:

1. FOR SIGNALING AND TRUNK TYPE COMPATIBILITY, SEE CHART PROC 100 WORD 0.
2. GLARE: IN ORDER TO SET THIS TO 1 OR 2, THE TRUNK TYPE MUST BE 41, 46 OR 47 AND THE SIGNALING TYPE MUST BE 21 OR 22.
3. RETRY: IN ORDER TO SET THIS TO 1, THE TRUNK TYPE MUST BE 41, 42, 43, 46, 47 OR 120, OR THE SIGNALING TYPE MIGHT BE 20.
4. FAILURE THRESHOLD: IN ORDER TO SET THIS TO A NON-ZERO VALUE THE TRUNK TYPE MUST BE 41, 42, 43, 46 OR 47.

FIELD LIMITS:

FIELD 1: 18-999

FIELD 2: 1-32

FIELD 3:

- 0 = TREAT GLARE AS A SIGNALING ERROR  
(BOTH ENDS REDIAL)
- 1 = THIS SWITCH IS IN CONTROL  
(THIS SWITCH IS GIVEN PRIORITY)
- 2 = THIS SWITCH BACKS OFF  
(SWITCH AT THE OTHER END IS GIVEN PRIORITY)

FIELDS 4-6:

0 = DISABLED

1 = ENABLED

FIELD 7: 0-99

FIELD 8:

- = ISDN NOT AVAILABLE

0 = DATA INCLUDED IN ISDN MESSAGE

1 = DATA NOT INCLUDED IN ISDN MESSAGE

FIELD 9: -, 1-511, 999

FIELD 10: 1-255 (SEE PROC 100 WORD 0)

WORD 3A

TRUNK  
GROUP

100



FLIPCHART  
ISSUE 9

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**TRUNK GROUPS ROUTE ADVANCE**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-5  
REMOVE: NOT ALLOWED  
CHANGE: 2-5  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-TRUNK GROUP IS NOT ASSIGNED IN PROC 100 WORD 1.  
82-TRUNK TYPE DOES NOT ALLOW ROUTE ADVANCE; ALL ROUTE ADVANCE  
FIELDS MUST BE DASHED.  
83-PERSONAL CO LINE PICKUP TRUNK GROUP CANNOT HAVE ROUTE  
ADVANCE.  
NOTES:  
1. REMOVE A ROUTE ADVANCE TRUNK BY DASHING OUT THE FIELDS AND  
DOING A CHANGE ROUTINE.

FIELD LIMITS:

FIELDS 1-5: -, 18-999

ROUTE ADVANCES TO

WORD 4

TRUNK  
GROUP

1

TRUNK  
GROUP  
1

2

TRUNK  
GROUP  
2

3

TRUNK  
GROUP  
3

4

TRUNK  
GROUP  
4

5

TRUNK GROUP  
ROUTE ADV

**100**

FLIPCHART  
ISSUE 9

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+

**INTEGRATED TELEMARKETING GATEWAY  
TRUNK GROUP ASSOCIATION**

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845552223

INPUT FIELDS:

DISPLAY: 1, 2-5  
ADD: NOT ALLOWED  
REMOVE: 1-6  
CHANGE: 1-6  
NEXT DATA: DISPLAYS THE NEXT ASSIGNED ITG LINK

SPECIAL ERROR CODES:

80-THIS TRUNK GROUP IS NOT ASSOCIATED WITH AN ITG LINK.  
81-THIS EQUIPMENT LOCATION IS NOT AN ISDN BOARD.  
82-THIS EQUIPMENT LOCATION IS NOT AN ITG LINK LOCATION.  
83-TRUNK TYPE MUST BE 47, SIGNALING TYPE MUST BE 20.  
84-ALL ITG LINKS ARE ALREADY ASSIGNED.  
85-A TRUNK GROUP WITH PHYSICAL TRUNKS ASSIGNED IS NOT ALLOWED FOR ITG LINKS.  
86-THERE ARE NOT ENOUGH FREE RECORDS AVAILABLE FOR THIS REQUEST.

87-UNABLE TO FREE ALL THE RECORDS THAT WERE REQUESTED.

FIELD LIMITS:  
FIELD 1: -, 18-999  
FIELD 2: 0-30  
FIELD 3: 0-7  
FIELD 4: 0-3  
FIELD 5: 5 OR 10  
FIELD 6: 1-9999  
FIELD 7: 0-10500

WORD 7	TRUNK GROUP	EQUIPMENT LOCATION				INTEGRATED TELEMARKETING GATEWAY RECORDS	FREE RECORDS	ITG
		MODULE	CABINET	CARRIER	SLOT			
	.	.	.	.	.	.	.	.
	1	2	3	4	5	6	7	100



NOTES:

1. REMOVE IS NOT ALLOWED. TO DELETE CHARACTERISTIC'S FROM A TRUNK GROUP; ZERO FIELDS 2, 3, 5-8, 10, 11, 13-17. IF THE TRUNK TYPE IS APLT OR CO, ZERO FIELD 4 ELSE DASH FIELD 4. DASH FIELD 9 AND 12, THEN USE THE CHANGE ROUTINE.
2. TO ADMINISTER A VALUE OTHER THAN 0, ALL MODULE PROCESSORS MUST BE EQUIPPED WITH 380D CIRCUIT PACKS. FIELD 13 CHANGES MAY REQUIRE THRESHOLD CHANGES IN PROC 107. FOR FIELD 13 EQUAL TO ZERO, THE PAD GROUP IS DETERMINED BY TRUNK TYPE IN PROC 100. REFER TO NETWORK ENGINEERING DOCUMENTS FOR CORRECT ENTRIES.

FIELD LIMITS:

FIELD 1: 18-999

FIELDS 2, 3:

0 = DISABLED

1 = ENABLED

FIELD 4:

- = NO ADDITIONAL DIGIT FOR DID

0-9 = ADDITIONAL DIGIT FOR DID

FIELD 5:

- = NO DCS IN THE SYSTEM

0 = DISABLED

1 = ENABLED

FIELDS 6, 7:

0 = DISABLED

1 = ENABLED

FIELD 8:

0 = NO

1 = YES

2 = YES AND AN ACCOUNT CODE IS REQUIRED

FIELD 9: -, 0000-9999 (LEADING ZEROS MUST BE ENTERED IF ON SERVICE ORDER)

FIELD 10:

-, 0 = DISABLED

1-31 = MINUTES

FIELD 11:

- = DISABLED

0 = RECALL OCCURS WHEN RECALL TIME EXPIRES.

1-7 = IDLE TRUNKS REMAINING

FIELD 12:

- = DEFAULT (PROC 275 WORD 3)

1-99 = SECONDS

FIELD 13:

1 = ISL TIE

2 = EIA TIE

3 = ISL DCO

4 = EIA DCO

5 = DTO

6 = ATO

7 = NI 2A

8 = NI 2B

FIELD 14:

0 = NOT TOLL RESTRICTED

1 = TOLL RESTRICTED

FIELD 15:

0 = DISABLED (CCSA TRUNK)

1 = ENABLED (APLT TRUNK)

FIELDS 16-17:

0 = DISABLED

1 = ENABLED

WORD 1A

TRUNK GROUP  
TRANSLATION

101

FLIPCHART  
ISSUE 9

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**TRUNK GROUP CHARACTERISTICS**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-2  
REMOVE: NOT ALLOWED  
CHANGE: 1-2  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-USE PROC 100 WORD 1 TO ADMINISTER A NEW TRUNK GROUP.

NOTES:

1. REDIAL DELAY TIMER ONLY APPLIES TO CO TRUNKS WITH GROUND START OR LOOP/REVERSE BATTERY SIGNALING. THIS SPECIFIES THE INTERVAL BETWEEN SEIZING A CO TRUNK AND THEN OUTPULSING THE DIALED DIGITS.

FIELD LIMITS:

FIELD 1: 18-999  
FIELD 2: 0-50 (INCREMENTED IN TENTHS-OF-SECONDS)

WORD 2

TRUNK  
GROUP

REDIAL  
DELAY  
TIMER

1

2

TRUNK GROUP  
CHAR

**101**

FLIPCHART  
ISSUE 9

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+

MISCELLANEOUS TRUNK RESTRICTION GROUPS

+

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845552223

INPUT FIELDS:

DISPLAY: 1-4  
ADD: 1-12  
REMOVE: NOT ALLOWED  
CHANGE: 5-12  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

80-THIS DAC IS NOT ASSIGNED TO A TRUNK GROUP. (SEE PROC 100 WORD 1).  
81-THIS RESTRICTION GROUP ALREADY HAS FOUR DACS ASSIGNED.  
NOTES:  
1. ZERO FILL FIELDS 5-12 TO REMOVE A TRUNK GROUP FROM A MISCELLANEOUS RESTRICTION GROUP.  
2. USE PROC 175 TO FIND ALL TRUNK GROUPS IN A MISCELLANEOUS RESTRICTION GROUP.

3. A TRUNK GROUP DAC MAY BE IN MORE THAN 1 RESTRICTION GROUP;  
A RESTRICTION GROUP CAN HAVE 4 TRUNK GROUP DACS MAXIMUM.

FIELD LIMITS:

FIELD 1: 0-9, 11(\*), 12(#)  
FIELDS 2-4: -, 0-9  
FIELDS 5-12: 0-1

TRUNK DIAL  
ACCESS CODE

MISC TRUNK RESTRICTION GROUP

MISC TRK  
RESTRICTION GRPS

DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	GRP 1	GRP 2	GRP 3	GRP 4	GRP 5	GRP 6	GRP 7	GRP 8	
.	1	2	3	4	5	6	7	8	9	10	11	12

102

FLIPCHART  
ISSUE 9

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+

**NETWORK - TRUNK GROUP TRANSLATION**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-16  
REMOVE: NOT ALLOWED  
CHANGE: 2-16  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

83-THE AAR/ARS PREFIX (FIELD 9) IS FOR TIE TRUNKS ONLY. IF THIS IS NOT A TIE TRUNK OR APLT TRUNK AND AAR/ARS IS AVAILABLE, FIELD 9 MUST BE A DASH.  
85-FIELDS 3 AND 4 MUST BOTH BE SET TO 1 IN ORDER TO SET FIELD 13 TO 1.  
86-THE ADDITIONAL DIGIT FOR DID MUST BE REMOVED IN PROC 101 WORD 1 BEFORE AAR/ARS PREFIX DIGIT CAN BE ADDED OR CHANGED.

NOTES:

1. WHEN ADDING A NEW TRUNK GROUP, PROC 100 WORD 1 MUST BE USED FIRST.
2. ENABLE FIELD 5 ONLY IF TRUNK GROUP IS TIE TRUNK OR APLT.
3. FRLS ONLY APPLY TO TRUNK GROUPS WHEN THEY ARE PART OF AN AAR/ARS PATTERN.

TRUNK GROUP	FACILITY RESTRICTION LEVEL	NETWORK TRUNK	MAIN/TANDEM	INCOMING TO AAR/ARS OR APLT	AUTHORIZATION CODE REQUIRED	BRIDGE-ON ALLOWED	TRUNK RESERVATION LIMIT	AAR/ARS PREFIX	DATA PROTECTION (PERMANENT)	REMOTE ACCESS ECHO SUPPRESSOR	AAR CONDITIONAL ROUTING	SECOND TCM	DIGIT COLLECTION	BEARER CAPABILITY	DIAL 1	NETWORK TRK GRP TRNSL	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	103

FIELD LIMITS:

FIELD 1: 18-999

FIELD 2: 0-7

WHERE 0 = MOST RESTRICTIVE

WHERE 7 = LEAST RESTRICTIVE

FOR FIELDS 3 AND 4:

TRUNK USAGE	3	4	AAR	ARS
MAIN	0	0	SUBNET	NO SUBNET
NETWK TO MAIN	1,2	0	SUBNET	SUBNET
NETWK TO TANDEM	1,2	1	TCM(S)	TCM(S)

0=NO

1=YES

2=YES, BUT NO SECOND DIAL TONE RETURNED

FIELDS 5-7: 0-1

FIELD 8: 0-15

FIELD 9: -, 0-9

FIELD 10: 0-1

FIELD 11:

-, 0 = DIAL TONE

1 = PRECURSOR TONE/DIAL TONE

2 = ABBREVIATED DIAL TONE

FIELD 12:

0 = WHEN A CALL USES THIS TRUNK GROUP, A CORRESPONDING COUNTER IS NOT INCREMENTED.

1 = WHEN A CALL USES THIS TRUNK GROUP, A CORRESPONDING COUNTER IS INCREMENTED.

FIELD 13:

0 = NO TCM IS SENT OR RECEIVED FOR SATELLITE HOP CONTROL

1 = THE TCM IS SENT OR RECEIVED TO PROCESS THE SATELLITE HOP CONTROL

FIELD 14:

0 = OVERLAP OUTPUTTING

1 = COLLECT ALL DIGITS BEFORE OUTPUTTING

FIELD 15:

0 = VOICE OR VOICE GRADE

1 = MODE 1 DATA

2 = MODE 2 DATA

3 = MODE 3 DATA

4 = MODE 0 DATA

FIELD 16:

0 = NOT REQUIRED

1 = REQUIRED FOR ALL 10-DIGIT CALLS

WORD 1A

NETWORK TRK  
GRP TRNSL

FLIPCHART  
ISSUE 9

+

+

**MAIN/SATELLITE  
SYSTEM TRANSLATION**

+

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-3  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THIS IS THE WRONG TRUNK TYPE FOR A MAIN/SATELLITE ACCESS TRUNK.  
82-REMOTE DIAL TRANSFER IS FOR SATELLITES ONLY.  
83-EXTENDED TRUNK ACCESS (ETA) FOR SATELLITES ONLY.  
84-THE ETA TRUNK GROUP MUST HAVE A DIAL ACCESS CODE ASSIGNED.

NOTES:

1. AFTER ASSIGNING THE ETA TRUNK GROUP, GO TO PROC 104 WORD 2 TO ASSIGN THE TRUNK GROUP TRANSLATION AND ACTIVATE THE MAIN/SATELLITE ACCESS TRUNK GROUP.

FIELD LIMITS:

FIELD 1:  
0 = NON M/S SYSTEM  
1 = SATELLITE SYSTEM  
2 = MAIN SYSTEM  
FIELD 2:  
0 = RDT NOT ACTIVE  
1 = RDT ACTIVE  
FIELD 3: 18-999

WORD 1	MAIN/SATELLITE	REMOTE DIAL TRANSFER	ETA TRUNK GROUP NUMBER	MAIN/SATELLITE SYS TRNSL
	1	2	3	104



FIELD LIMITS:

FIELD 1: 18-999

FIELD 2: 0-1

FIELD 3: -, 1-5

FIELD 4: 0-1

FIELD 5:

0 = NO ACTION

1 = ATTENDANT TRANSFER

2 = DIAL TRANSFER

FIELD 6: -, 0-9, 11(\*), 12(#)

FIELDS 7-8: -, 0-9

WORD 2A

MAIN/SATELLITE  
TRUNK GRPS

104

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FLIPCHART  
ISSUE 9

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**TRUNK MAINTENANCE - BUSY LIST**

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**INPUT FIELDS:**

DISPLAY: 1-4 OR 1-5 OR 1-4 & 6 OR 1-6 OR  
5-6 OR 5  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL THE BUSIED OUT  
TRUNK IN THE SYSTEM

**SPECIAL ERROR CODES:**

81-THIS DAC IS ALREADY ASSIGNED TO A FEATURE.  
82-THE DAC ENTERED IS NOT ASSIGNED TO THE TRUNK GROUP ENTERED.  
83-ONLY TRUNK GROUPS WITH DACS ASSIGNED TO THEM CAN BE  
DISPLAYED.

**NOTES:**

1. FIELD 10 IS UPDATED ONLY AT THE START OF THE SEARCH. IF THERE ARE NO BUSIED OUT TRUNKS IN THE SYSTEM, FIELDS 1-9 SHOW DASHES AND FIELD 10 SHOWS A ZERO.
2. TO FIND CURRENT STATUS OF A PARTICULAR TRUNK OR TRUNK GROUP ENTER APPROPRIATE DATA IN FIELDS 1-6 AND DO A DISPLAY ROUTINE.

**TRUNK DIAL ACCESS CODE**

1ST  
DIGIT

1

2ND  
DIGIT

2

3RD  
DIGIT

3

4TH  
DIGIT

4

TRUNK  
GROUP

5

TRUNK  
NUMBER

6

TRUNK MAINTENANCE  
STATUS

7

UNAVAILABLE  
TRUNKS IN  
TRUNK GROUP

8

TRUNKS IN  
TRUNK GROUP

9

UNAVAILABLE  
TRUNKS IN  
SYSTEM

10

TRK  
MAINTENANCE  
BUSY LIST

**106**

FIELD LIMITS:

FIELD 1: 0-9, 11(\*), 12(#)

FIELDS 2-4: -, 0-9

FIELD 5: 18-999

FIELD 6: 1-999

FIELD 7 (UNAVAILABLE ENCODES):

0 = AVAILABLE

1 = BUSIED OUT BY SERVICES

2 = BUSIED OUT BY CUSTOMER

3 = AUTOMATICALLY BUSIED OUT

4 = PERMANENTLY SEIZED ON INPUT

5 = TRUNK IN FAILURE

6 = MAINTENANCE BUSY OUT (FAR END)

7 = ISDN MAINTENANCE (NEAR END)

8 = ISDN MAINTENANCE (FAR END)

FIELDS 8-10: 0-999

WORD 1A

TRK  
MAINTENANCE  
BUSY LIST

106

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FLIPCHART  
ISSUE 9

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**ATMS TERMINATING TEST  
LINE ASSIGNMENT**

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INPUT FIELDS:

DISPLAY: 1  
ADD: 1-18  
REMOVE: 1-18  
CHANGE: 1-18  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THIS TRUNK TYPE IS NOT VALID FOR THIS FEATURE.  
82-REMOVE THIS TRUNK GROUP FROM SCHEDULE USING PROC 107 WORD 4  
BEFORE REMOVING OR DISABLING THE TEST LINE.  
83-THE DIGITS MUST BE ENTERED IN FIELDS 3-18 WITHOUT GAPS  
BETWEEN THE NUMBERS.

NOTES:

1. FIELD 3 MUST NOT CONTAIN A DASH WHEN USING ADD OR CHANGE  
ROUTINES.

FIELD LIMITS:

FIELD 1: 18-999  
FIELD 2:  
- = UNASSIGNED  
0 = DISABLED  
1 = 102 OR OLD 100-TYPE  
2 = NEW 100-TYPE  
3 = LC145 OR SN260A  
4 = SN260B

5 = 56A OR 105 WITHOUT  
RETURN LOSS  
6 = SN261, ZLC12, OR 105  
WITH RETURN LOSS  
FIELDS 3-18: -, 0-9

WORD 1	TRUNK GROUP	TEST LINE TYPE	TERMINATING TEST LINE TELEPHONE NUMBER DIGITS																DISPLAY ONLY	TERM TEST LINE ASSIGNMENT
			D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	TRUNK TYPE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	107

FLIPCHART  
ISSUE 9

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**ATMS MARGINAL THRESHOLDS FOR TESTS**

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84552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-12  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THIS TRUNK TYPE IS NOT VALID FOR THIS FEATURE.  
82-A DASH IN ANY OF FIELDS 2 THROUGH 12 INDICATES A THRESHOLD THAT IS NOT VALID FOR THE TEST LINE TYPE IN FIELD 13 AND CANNOT BE CHANGED.  
83-THRESHOLDS MUST NOT BE LESS RESTRICTIVE THAN THOSE OF PROC 107 WORD 6.

NOTES:

1. THRESHOLDS ARE INITIALLY SET TO THEIR LEAST RESTRICTIVE LEVELS.

2. FOR FIELDS 4-7 A DASH MEANS NO FAILURES ARE REPORTED WHEN THE TEST LINE TYPE IS 3-6 (FIELD 13).  
3. FIELDS 8 AND 9 DISPLAY VALUES IN DBRNC (DECIBELS RELATIVE TO REFERENCE NOISE LEVEL WITH C-MESSAGE WEIGHTING). THE NOISE REFERENCE LEVEL FOR DBRNC IS -90 DBM.

WORD 2	TRUNK GROUP	1004 HZ LOSS MAXIMUM	1004 HZ LOSS MINIMUM	404 HZ MAX		2804 HZ MAX		NOISE WITHOUT TONE	NOISE WITH TONE	LOW FREQ. SINGING RETURN LOSS	ECHO RETURN LOSS	HIGH FREQ. SINGING RETURN LOSS	DISPLAY ONLY	MARGINAL THRESHOLDS TESTS
				POSITIVE DEVIATION	NEGATIVE DEVIATION	POSITIVE DEVIATION	NEGATIVE DEVIATION						TEST LINE TYPE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	107

FIELD LIMITS:

- FIELD 1: 18-999
- FIELD 2: -, 10-21, 91, 92 (DB)
- FIELD 3: -, 10-21, 91, 92 (DB)
- FIELDS 4-7: -, 0-9 (DB)
- FIELD 8: -, 15-55 (DBRNC)
- FIELD 9: -, 34, 74 (DBRNC)
- FIELDS 10-12: -, 0-40 (DB)
- FIELD 13:
  - 0 = 0%
  - 1 = 25%
  - 2 = 50%
  - 3 = 75%
  - 4 = 100%

WORD 2A

MARGINAL  
THRESHOLDS  
TESTS

107





FLIPCHART  
ISSUE 9

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**ATMS - TRUNK ASSIGNMENT TO SCHEDULE**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 1 AND 2  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: 3  
NEXT DATA: DISPLAYS ALL ASSIGNED TRUNK  
GROUPS AND TEST TYPES FOR EACH  
SCHEDULE.

SPECIAL ERROR CODES:

81-A TEST LINE MUST BE ASSIGNED TO A TRUNK GROUP IN PROC 107  
WORD 1 BEFORE THAT TRUNK GROUP CAN BE ASSIGNED HERE.  
82-THE SAME TRUNK GROUP CANNOT BE ASSIGNED MORE THAN ONCE TO  
THE SAME SCHEDULE.  
83-A SCHEDULE MUST BE ASSIGNED IN PROC 107 WORD 3 BEFORE  
ANYTHING CAN BE ASSIGNED TO IT HERE.

FIELD LIMITS:

FIELD 1: 1-16  
FIELD 2: 18-999  
FIELD 3:  
0 = ALL TESTS  
1 = ALL TESTS EXCEPT RETURN LOSS  
2 = ALL 105 TESTS EXCEPT SELF TEST  
3 = ALL 105 TESTS EXCEPT RETURN LOSS  
4 = SUPERVISION TEST ONLY

WORD 4

SCHEDULE  
NUMBER

TRUNK  
GROUP

TEST  
TYPE

1

2

3

ATMS-TRK  
ASGMT TO  
SCHED

**107**

FLIPCHART  
ISSUE 9

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**ATMS - DISPLAY OF TRUNK  
ASSIGNMENTS BY SCHEDULE**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL TRUNK ASSIGNMENTS  
IN GROUPS OF FIVE.

NOTES:

1. UP TO FIVE TRUNK GROUPS WITH THEIR TEST TYPES THAT BELONG TO A SCHEDULE ASSIGNED IN WORD 4 ARE DISPLAYED.
2. 'NEXT DATA' WILL INCREMENT FIELDS 2-11 UNTIL ALL TRUNK ASSIGNMENTS THAT BELONG TO A SCHEDULE ARE DISPLAYED.

WORD 5	SCHEDULE NUMBER	ASSIGNMENT 1, 6, 11,...		ASSIGNMENT 2, 7, 12,...		ASSIGNMENT 3, 8, 13,...		ASSIGNMENT 4, 9, 14,...		ASSIGNMENT 5, 10, 15,...		DSP TRK ASGMT BY SCHEDULE
		TRUNK GROUP	TEST TYPE	TRUNK GROUP	TEST TYPE	TRUNK GROUP	TEST TYPE	TRUNK GROUP	TEST TYPE	TRUNK GROUP	TEST TYPE	
	1	2	3	4	5	6	7	8	9	10	11	<b>107</b>



FIELD LIMITS:

FIELD 1: 18-999

FIELD 2: -, 10-21, 91, 92 (DB)

FIELD 3: -, 10-21, 91, 92 (DB)

FIELDS 4-7: -, 0-9 (DB)

FIELD 8: -, 15-55 (DBRNC)

FIELD 9: -, 34, 74 (DBRNC)

FIELDS 10-12: -, 0-40 (DB)

FIELD 13:

0 = 0%

1 = 25%

2 = 50%

3 = 75%

4 = 100%

WORD 6A

BUSY OUT  
THRSHLDS  
TESTS

107

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FLIPCHART  
ISSUE 9

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**ISDN TERMINATING TEST LINE ASSIGNMENT**

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**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-17 (FIELD 2 MUST NOT CONTAIN A DASH)  
 REMOVE: 1-17  
 CHANGE: 2-17 (FIELD 2 MUST NOT CONTAIN A DASH)  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-THIS TRUNK TYPE IS NOT VALID FOR THIS FEATURE.  
 82-THE TELEPHONE LINE DIGITS MUST BE ENTERED IN FIELDS 2-17 WITHOUT ANY GAPS.

**FIELD LIMITS:**

FIELD 1: 18-999  
 FIELDS 2-17: -, 0-9  
 FIELD 18: 16, 17, 19, 21, 22, 24, 26-28, 30, 31, 41-43, 46, 47, 50, 108, 109, 120

TERMINATING TEST LINE TELEPHONE DIGITS

WORD 1	TRUNK GROUP	TERMINATING TEST LINE TELEPHONE DIGITS																DISPLAY ONLY	ISDN TERM TEST LINE ASSIGN	
		D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	TRUNK TYPE		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	<b>108</b>





FLIPCHART  
ISSUE 9

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**TRUNK GROUP TERMINATION**

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**INPUT FIELDS:**

DISPLAY: 1 AND 3  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 5  
NEXT DATA: DISPLAYS ALL TRUNK GROUPS THAT  
TERMINATE AT AN ACD SPLIT. WHEN  
CALL VECTORING IS ENABLED, IT  
OPERATES LIKE A DISPLAY ROUTINE.

**SPECIAL ERROR CODES:**

81-THE TRUNK TYPE OF TRUNK GROUP IN FIELD 1 IS NOT ALLOWED FOR  
CAS, ACD, OR SS ATTENDANT.  
82-FIELD 2 OR FIELD 3 MUST BE DASHED.  
83-THE TRUNK GROUP MUST BE ASSIGNED WITH ACD TERMINATION TO SET  
THE PRIORITY IN FIELD 4.  
84-THE ACD SPLIT MUST BE ASSIGNED IN PROCEDURE 026.  
85-BUSY OUT CMS USING PROC 028 WORD 2 BEFORE CHANGING  
TRANSLATIONS.  
86-CMS-MEASURED TRUNK GROUPS MUST BE WITHIN THE RANGE OF 18-255.

87-WHEN CALL VECTORING IS ENABLED, THE ACD SPLIT AND ACD  
PRIORITY MUST BE DASHED.  
88-A TRUNK GROUP TERMINATED AT A VDN CAN ONLY BE CHANGED  
IN PROC 031 WORD 2.  
89-CANNOT CHANGE TERMINATION TO GO TO A VDN IT MUST BE CHANGED  
IN PROC 031 WORD 2.  
90-A TRUNK GROUP MUST HAVE TRUNKS ADMINISTERED FOR THE TRUNK  
GROUP TO BE MEASURED.

TRUNK  
GROUP

TERMINATES  
AT

ACD  
SPLIT

ACD  
PRIORITY

CMS/MIS  
TYPE

TRUNK GROUP  
TERMINATION

**115**

FIELD LIMITS:

FIELD 1:

- 18-999 = TRUNK GROUP
- 18-255 = CMS MEASURED TRUNK GROUP

THE FOLLOWING ARE VALID TRUNK TYPES FOR TRUNK GROUP TERMINATION:

- 16 = CO 1-WAY IN ATTENDANT COMPLETING
- 19 = CO 2-WAY ATTENDANT COMPLETING IN/DOD OUT
- 20 = CO 2-WAY WITH PARTY TEST ATTENDANT COMPLETING IN/DOD OUT
- 21 = FX 1-WAY IN ATTENDANT COMPLETING
- 24 = FX 2-WAY ATTENDANT COMPLETING IN/DOD OUT
- 25 = FX 2-WAY WITH PARTY TEST ATTENDANT COMPLETING IN/DOD OUT
- 26 = WATS 1-WAY IN ATTENDANT COMPLETING
- 35 = TIE 1-WAY IN AUTOMATIC
- 38 = TIE 2-WAY AUTOMATIC IN/DIAL REPEATING OUT
- 39 = TIE 2-WAY AUTOMATIC IN AND OUT.

TYPE 50 (REMOTE ACCESS 2-WAY) IS AVAILABLE WHEN SPEAKER VERIFICATION IS ENABLED IN PROC 263 WORD 1.

FIELD 2:

- = ACD SPLIT
- 0 = SPECIAL SERVICE (SS) ATTENDANT
- 1 = CENTRALIZED ATTENDANT SERVICE (CAS)
- 2 = VDN (SEE PROC 031 WORD 2)

FIELD 3:

- = TRUNK GROUP NOT TERMINATED AT ACD
- 1-60 = ACD SPLIT NUMBER

FIELD 4:

- = NON PRIORITY ACD SPLIT TERMINATION
- 1 = PRIORITY ACD SPLIT TERMINATION

FIELD 5:

- = GROUP NOT MEASURED BY CMS
- 1 = OUTGOING MEASUREMENTS BY CMS
- 2 = INCOMING MEASUREMENTS BY CMS
- 3 = TWO-WAY MEASUREMENTS BY CMS

WORD 1A

TRUNK GROUP  
TERMINATION



FLIPCHART  
ISSUE 9

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### DS1 AND ISDN TRUNK ASSIGNMENTS

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**INPUT FIELDS:**

DISPLAY: 1-5  
 ADD: 1-11  
 REMOVE: 1-11  
 CHANGE: 6-11  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

50-REMOVE THIS ASSIGNMENT FROM THE DSC (PROC 360 WORD 1).  
 51-YOU CANNOT MIX GROUND START AND LOOP START TRUNKS IN THE SAME PAIR.  
 52-AN AIOD NUMBER IS VALID FOR APLT TRUNK TYPES 12-15 AND CO TRUNK TYPES 17-20.  
 53-THIS SLOT ALREADY HAS A LINE ASSIGNED; YOU CANNOT ADD A TRUNK.  
 54-THIS PORT ASSIGNMENT IS A LINE. USE PROC 000 WORD 1 TO REMOVE IT APPROPRIATELY.

55-SEE PROC 260 WORD 1 TO ASSIGN AN EQUIPMENT LOCATION. THIS TRUNK GROUP USES ISDN SIGNALING, BUT THE EQUIPMENT LOCATION IS NOT RESERVED FOR ISDN.  
 56-SEE PROC 100 WORD 3 TO ASSIGN ISDN SIGNALING TO THE TRUNK GROUP. THIS EQUIPMENT LOCATION IS RESERVED FOR TRUNKS WITH ISDN SIGNALING ONLY.  
 57-NOT ASSIGNABLE TO ISDN TRUNKS.  
 58-NOT ASSIGNABLE TO NON-ISDN TRUNKS.  
 59-TRUNK/TRUNK GROUP ASSIGNED TO CO LINE APPEARANCE, USE PROC 057 WORDS 1-3.

WORD 1	EQUIPMENT LOCATION					TRUNK GROUP	NIGHT TERMINAL	DISABLE SIGNALLING	A.I.O.D. EQUIPMENT NUMBER	INTERFACE ENDPOINT	DS1 TRUNK ASSIGNMENTS
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT						
	1	2	3	4	5	6	7	8	9	10	116

ERROR CODES CONTINUED:

- 81-AN ASSOCIATED EXTENSION CANNOT BE USED AS A NIGHT TERMINAL.
- 82-REMOVE RELEASE LINK TRUNK ASSIGNMENTS IN PROC 211 WORD 2 BEFORE REMOVING THE TRUNK HERE.
- 83-THE CIRCUIT NUMBER IS LIMITED BY THE TYPE OF CIRCUIT PACK ASSIGNED.
- 84-A CHANGE ROUTINE IS NOT ALLOWED FOR EITHER THE ORIGINAL OR CHANGED TRUNK TYPE.
- 85-A MAXIMUM OF 255 TRUNKS CAN BE ASSIGNED TO A TRUNK GROUP (99 FOR TYPES 103-107).
- 86-THE TRUNK TYPE ASSIGNED TO THIS TRUNK GROUP IS NOT CORRECT FOR DS1.
- 87-THE EQUIPMENT LOCATION IS NOT ALLOCATED AS A DS1 OR DMI PORT. SEE PROC 260 WORD 1.
- 89-THE ALLOWED SLOTS FOR DS1/ISDN ARE 0-2 AND 5-7 A CIRCUIT PACK IN SLOT 5, OR 13-15 AND 18-20 A CIRCUIT PACK IN SLOT 18. CIRCUIT NUMBERS ARE 0-3.
- 90-TRUNK CANNOT BE ASSIGNED TO CHANNEL 24 IF DS1/ISDN IS ARRANGED FOR 24TH CHANNEL SIGNALING. YOU CANNOT USE SLOT 2 CIRCUIT 3 FOR THE

CIRCUIT PACK IN SLOT 5, OR SLOT 15 CIRCUIT 3 FOR THE CIRCUIT IN SLOT 18. SEE NOTES SECTION.

- 91-A TRUNK CANNOT BE ADDED TO OR TAKEN AWAY FROM A DCS TRUNK GROUP USING THE CHANGE ROUTINE. IT MUST BE REMOVED FIRST THEN ADDED.
- 92-ONLY TRUNK TYPES 103-107 ARE VALID FOR A TRUNK IN A REMOTE CARRIER GROUP (RCG).
- 93-BUSY OUT CMS USING PROC 028 WORD 2.
- 94-THE DISABLE SIGNALING BIT CANNOT BE CHANGED IF THE TRUNK IS PART OF A DSC (PROC 360 WORD 1). IF THE TRUNK IS NOT IN A DSC, THE TRUNK MUST BE IDLE OR MAINTENANCE BUSY BEFORE THE DISABLE SIGNALING BIT CAN BE CHANGED.
- 95-THE TRUNK TYPE IS NOT COMPATIBLE WITH OTHER PAIR MEMBER. PAIR MEMBERS ARE CIRCUITS 0/1 AND CIRCUITS 2/3. COMPATIBILITY GROUPS ARE (1) CO/FX/WATS/RA (GROUND START); (2) CO/FX/WATS (LOOP START); (3) TIE/DID/APLT. THIS RULE APPLIES TO THE ANN11 BOARD ONLY.
- 96-CO TRUNKS MUST USE ROBBED BIT SIGNALING.
- 97-THE EQUIPMENT LOCATION IS NOT A DS1 TRUNK BOARD.
- 98-PHYSICAL TRUNKS CANNOT BE ADDED TO AN ITS TRUNK GROUP.

WORD 1A

DS1 TRUNK  
ASSIGNMENTS

116

SLOT CKT	0	1	2	5	6	7
	13	14	15	18	19	20
0	13	14	15	1	2	3
1	16	17	18	4	5	6
2	19	20	21	7	8	9
3	22	23	24	10	11	12

EQUIPMENT LOCATION TO CHANNEL NUMBER CONVERSION FOR DS1 TRUNKS

FIELD LIMITS:

- FIELD 1: 0-30
- FIELD 2: 0-7
- FIELD 3: 0-3
- FIELD 4: 0-2, 5-7, 13-15, 18-20
- FIELD 5: 0-3
- FIELD 6: 18-999
- FIELD 7: -, 000-99999
- FIELD 8: -, 0-1
- FIELD 9: -, 0000-9999
- FIELD 10:
  - 0 = PBX
  - 1 = HOST COMPUTER
  - 2 = NETWORK

WORD 1B

DS1 TRUNK  
ASSIGNMENTS

FLIPCHART  
ISSUE 9

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**AUTOMATIC CIRCUIT ASSURANCE**

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**INPUT FIELDS:**

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2-4  
NEXT DATA: SHOWS TRUNK GROUPS THAT HAVE ACA ASSIGNMENTS.

**SPECIAL ERROR CODES:**

81-ENTRIES FOR FIELDS 2 AND 4 MUST BE EVEN NUMBERS.  
82-IF EITHER FIELD 2 OR 4 IS SET TO ZERO, BOTH MUST BE SET TO ZERO.

**NOTES:**

1. IF THE TRUNK GROUP ENTERED IN FIELD 1 HAS NO DIAL ACCESS CODE ASSOCIATED WITH IT, ACA TIMING CAN BE ASSIGNED, BUT ACA REFERRALS WILL NEVER BE CONVEYED TO THE ATTENDANT CONSOLE.

**FIELD LIMITS:**

FIELD 1: 18-999  
FIELD 2: (EVEN-NUMBERED SECONDS)  
0 = DISABLES SHORT CALL THRESHOLD  
2-160 = ENABLES SHORT CALL THRESHOLD  
FIELD 3:  
0 = DISABLES LONG CALL LIMIT  
1-24 = ENABLES LONG CALL LIMIT  
FIELD 4: 0-30 (EVEN NUMBER)

WORD 1

TRUNK  
GROUP

1

SHORT CALL  
LIMIT  
(EVEN SECONDS)

2

LONG CALL  
LIMIT  
(HOURS)

3

SHORT  
CALL  
REFERRAL  
LEVEL

4

**AUTO CIRCUIT  
ASSURANCE**

**120**

FLIPCHART  
ISSUE 9

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**TRUNK - FEATURES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-5  
ADD: 1-11  
REMOVE: AFTER DISPLAY ONLY  
CHANGE: 6-11  
NEXT DATA: NOT ALLOWED.

**SPECIAL ERROR CODES:**

50-USE PROC 027 FIRST TO REMOVE TRUNK FROM ANY ACD SPLIT.  
51-CMS MUST BE BUSIED OUT USING PROC 028 WORD 2 BEFORE TRANSLATIONS CAN BE ALTERED.  
52-MUST BE REMOVED FROM DSC FIRST (SEE PROC 360)).  
53-USE PROC 116 WORD 1 TO ADMINISTER TRUNKS WITH ISDN SIGNALING TYPE.  
54-WHEN VECTORING IS ENABLED, FIRST USE, PROC 30 WORD 3, OR PROC 33.  
55-ONLY ONE MUSIC SOURCE PER MODULE IS ALLOWED.

81-CIRCUIT ASSIGNED TO ATTENDANT INTERFACE-SEE PROC 210 WORD 1.  
82-TRUNK GROUP DOES NOT REQUIRE TRUNKS.  
83-TRUNK/TRUNK GROUP ASSIGNED TO CO LINE APPEARANCE-SEE PROC 057 WORD 1.  
84-AN ASSOCIATED EXTENSION CANNOT BE USED AS A NIGHT TERMINAL.  
85-TRUNK/TRUNK GROUP ASSIGNED TO CONTACT INTERFACE-SEE PROC 155 WORD 1.  
86-RELEASE LINK TRUNK ASSIGNMENTS MUST BE REMOVED IN PROC 211 WORD 2 BEFORE BEING REMOVED HERE.

EQUIPMENT LOCATION					TRUNK GROUP	NIGHT TERMINAL EXTENSION	A.I.O.D. EQUIPMENT NUMBER	PAGING ZONE	RECORDED ANNOUNCEMENT	CONTINUOUS ANNOUNCEMENT BIT	TRUNK FEATURES											
MODULE	CABINET	CARRIER	SLOT	CIRCUIT																		
.	1	2	.	4	5	.	.	.	.	7	.	.	.	8	.	9	.	10	.	11	.	<b>150</b>

SPECIAL ERROR CODES CONTINUED:

- 87-CIRCUIT NUMBER INPUT IS LIMITED BY TYPE OF CIRCUIT PACK BEING ASSIGNED.
- 88-TRUNK GROUP ASSIGNED TO MODEM POOL. SEE PROC 180 WORD 1.
- 89-CHANGE NOT ALLOWED FOR EITHER ORIGINAL OR CHANGED TRUNK TYPE.
- 90-CANNOT CHANGE RECORDED ANNOUNCEMENT TRUNK (TYPE 52 OR TYPE 90 [WHEN CALL VECTORING ENABLED]).
- 91-CANNOT ASSIGN NIGHT TERMINAL TO RECORDED ANNOUNCEMENT TRUNK (TYPE 52 OR TYPE 90 [WHEN CALL VECTORING ENABLED]).
- 92-A MAXIMUM OF 255 TRUNKS (99 FOR TRUNK TYPES 103 - 109) CAN BE ASSIGNED TO A TRUNK GROUP.
- 93-REMOVE RECORDED ANNOUNCEMENT NUMBER IN PROC 289 WORD 1 BEFORE REMOVING IT HERE.
- 94-CAN ONLY ASSIGN AIOD NUMBER TO APLT TRUNK TYPES (12-15) AND CO TRUNK TYPES (17-20).
- 95-CIRCUIT PACK ASSIGNED TO VOICE OR DATA TERMINAL: YOU CANNOT ADMINISTER IT HERE. SEE PROC 051.
- 96-TRUNK GROUP ASSIGNED FOR AVD SERVICE, USE PROC 116 WORD 1 TO ADMINISTER.

- 97-TRUNK GROUP ASSIGNED AS LOOP-START TYPE. USE PROC 116 WORD 1 TO ADMINISTER.
- 98-A TRUNK CANNOT CHANGE INTO OR OUT OF A DCS TRUNK GROUP. IT MUST BE REMOVED, THEN ADDED BACK IN.

NOTES:

1. FOR FIELD 8, LEADING ZEROES MUST BE ENTERED IF ON SERVICE ORDER.
2. USE PROC 178 TO FIND ALL TRUNKS IN A TRUNK GROUP.
3. TRUNK GROUP 17 ALWAYS ASSIGNED TO TOUCH-TONE REGISTERS (TYPE 2 IN PROC 100 WORD 1).

FIELD LIMITS:

- FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16, 18-21  
FIELD 5: 0-3  
FIELD 6: 17-999  
FIELD 7: -, 00000-99999  
FIELD 8: -, 0000-9999  
FIELD 9: -, 1-18

FIELD 10:

- VECTOR OFF: -, 1-15  
VECTOR ON: -, OR IF TRUNK TYPE IS 52 THEN 1-15 IF TRUNK TYPE IS 90 THEN 16-99

FIELD 11:

- VECTOR OFF: -  
VECTOR ON: -, EXCEPT WHEN TRUNK TYPE IS 90 THEN 0-1.

WORD 1A

TRUNK  
FEATURES

150

FLIPCHART  
ISSUE 9

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**CONTACT INTERFACE**

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**INPUT FIELDS:**

DISPLAY: 1-2 OR 3-6  
 ADD: 1-7  
 REMOVE: 1-7  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS BOARD ASSIGNMENTS OF A GIVEN EQUIPMENT TYPE.

**SPECIAL ERROR CODES:**

81-THIS EQUIPMENT LOCATION IS NOT ASSIGNED TO A CONTACT INTERFACE BOARD.  
 82-THIS TRUNK GROUP IS NOT ASSIGNED AS A CONTACT INTERFACE TYPE. SEE PROC 100 WORD 1 TO FIND CORRECT TRUNK GROUP OR TO REDEFINE THIS TRUNK GROUP.  
 83-CIRCUITS ASSIGNED TO EQUIPMENT LOCATION. SEE PROC 290 WORD 1.

84-TO DISPLAY ALL BOARDS OF A GIVEN TYPE, USE THE NEXT DATA ROUTINE. WHEN CHANGING FIELDS 1 OR 2, USE THE DISPLAY ROUTINE TO START THE SEARCH OVER AGAIN.

EQUIPMENT TYPE	BOARD INDEX	EQUIPMENT LOCATION				TRUNK GROUP	CONTACT INTERFACE
		MODULE	CABINET	CARRIER	SLOT		
1	2	3	4	5	6	7	155

FIELD LIMITS:

- FIELD 1: -, 1-3
- FIELD 2: 0-13
- FIELD 3: 0-30
- FIELD 4: 0-6
- FIELD 5: 0-3
- FIELD 6: 0-3, 5-8, 12-16, 18-20
- FIELD 7: 18-999

NOTES:

1. CIRCUITS SHOULD BE ADDED AND REMOVED FORM SERVICE USING THE PROPER PROCEDURES AFTER ADDING AND BEFORE REMOVING THE BOARD WITH THIS PROCEDURE. SEE THE FOLLOWING TABLE FOR THOSE PROCEDURES:

EQUIPMENT TYPE	FIELD 1	FIELD 2	SEE PROCEDURE
CAS OUTGOING RLT STATUS	1	0-2	211 WORD 2*
CAS INCOMING RLT STATUS	2	0-13	212 WORD 2
ACD SPLIT STATUS	3	0-7	026
*THESE CIRCUITS ARE AUTOMATICALLY ASSIGNED.			

WORD 1A

CONTACT  
INTERFACE

155

FLIPCHART  
ISSUE 9

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**DISPLAY MISCELLANEOUS TRUNK RESTRICTION GROUPS**

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INPUT FIELDS:

DISPLAY: 1  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DISPLAY: NOT ALLOWED

NOTES:

1. USE PROC 175 WORD 1 TO DISPLAY THE TRUNK GROUPS ASSIGNED TO A RESTRICTION GROUP NUMBER. UP TO FOUR DACS (DIAL ACCESS CODES) CAN BE DISPLAYED AT ONE TIME USING THIS PROCEDURE.

FIELD LIMITS:

FIELD 1: 1-8  
 FIELD 2: 0-9, 11(\*),12(#)  
 FIELDS 3-5: -, 0-9  
 FIELD 6: 0-9, 11(\*),12(#)  
 FIELDS 7-8: -, 0, 0-9  
 FIELD 10: 0-9, 11(\*), 12(#)  
 FIELDS 11-13: -, 0-9  
 FIELD 14: 0-9, 11(\*), 12(#)  
 FIELDS 15-17: -, 0-9

REST GROUP	TRUNK GROUP 1				TRUNK GROUP 2				TRUNK GROUP 3				TRUNK GROUP 4				DISP MISC TRK RSTCN GRPS			
	DIALED DIGIT				DIALED DIGIT				DIALED DIGIT				DIALED DIGIT							
	FIRST	SECOND	THIRD	FOURTH	FIRST	SECOND	THIRD	FOURTH	FIRST	SECOND	THIRD	FOURTH	FIRST	SECOND	THIRD	FOURTH				
1	.				.				.				.				.	.	.	175

FLIPCHART  
ISSUE 9

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### SEARCH FOR TRUNK CHARACTERISTICS

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#### INPUT FIELDS:

DISPLAY: 1, 2-5, 2-6, 1 & 6, 7-11  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: SEE NOTE 2

#### SPECIAL ERROR CODES:

81-CIRCUIT ASSIGNED TO ATTENDANT INTERFACE (SEE PROC 210  
WORD 1)

#### NOTES:

1. THIS IS A DISPLAY ONLY PROCEDURE.
2. DISPLAYS THE NEXT TRUNK NUMBER IF DATA IS ENTERED IN FIELDS 1, 2-5, 2-6 OR 1-6. FIELDS 6-13 ARE DASHED AFTER THE LAST TRUNK IS DISPLAYED. THIS ALSO DISPLAYS EACH ASSIGNED CIRCUIT ON A CIRCUIT PACK IF DATA IS ENTERED IN FIELDS 7-11.

3. CONTACT INTERFACE AND 6-WAY CONFERENCE HAVE THE ENTIRE BOARD DEDICATED TO EACH TRUNK TYPE. MAAP PANEL WILL ALWAYS DISPLAY CIRCUIT 0.

WORD 1	TRUNK DAC					EQUIPMENT LOCATION					TRUNK TYPE	SIGNALING TYPE	SEARCH FOR TRUNK CHAR	
	TRUNK GROUP	FIRST DIGIT	SECOND	THIRD	FOURTH	TRUNK NUMBER	MODULE	CABINET	CARRIER	SLOT				CIRCUIT
	1	2	3	4	5	6	7	8	9	10	11	12	13	<b>178</b>

FIELD LIMITS:

FIELD 1: 17-999

FIELD 2: -, 0-9, 11(\*), 12(#)

FIELDS 3-5: -, 0-9

FIELD 6: -, 1-255

FIELD 7: 0-30

FIELD 8: 0-7

FIELD 9: 0-3

FIELD 10: 0-3, 5-8, 13-16, 18-21

FIELD 11: 0-3

FIELD 12: 0-120

FIELD 13: -, 0-27

(SEE PROC 100 WORD 0 FOR FIELDS 12 AND 13 ENCODES).

WORD 1A

SEARCH FOR  
TRUNK  
CHAR

178

FLIPCHART  
ISSUE 9

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**MODEM POOL**

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**INPUT FIELDS:**

DISPLAY: 1 OR 8  
 ADD: 1-13  
 REMOVE: 1 AND 1-13  
 CHANGE: NOT ALLOWED  
 NEXT DATA: SHOWS ALL MODEM POOL PAIRS FOR THE ENTERED TRUNK GROUP.

**SPECIAL ERROR CODES:**

81-ASSIGN THE DIGITAL TRUNK GROUP IN PROC 100 WORDS 1 AND 2 WITH TRUNK TYPE 102.  
 82-ASSIGN THE ANALOG TRUNK GROUP IN PROC 100 WORD 1 WITH TRUNK TYPE 101.  
 83-A TRUNK GROUP PAIR IS ALREADY ESTABLISHED.  
 84-USE THE DISPLAY ROUTINE BEFORE USING THE NEXT DATA ROUTINE.  
 85-A MAXIMUM NUMBER OF 99 TRUNKS CAN BE ASSIGNED TO A MODEM POOLING TRUNK GROUP.

86-TRUNK GROUP PAIR NOT ESTABLISHED. SEE NOTE 1.

87-YOU CANNOT ASSIGN THE SAME TRUNKS TO BOTH TRUNK GROUPS.  
 88-REMOVE THIS ASSIGNMENT FROM DSC (SEE PROC 360 WORD 1).

**NOTES:**

1. THE FIRST ASSIGNMENT OF MEMBERS TO A DIGITAL TRUNK GROUP AND AN ANALOG TRUNK GROUP LINKS THESE TRUNK GROUPS INTO A MODEM POOL PAIR.

WORD 1	DIGITAL TRUNK GROUP	DISPLAY ONLY	DIGITAL EQUIP LOCATION					ANALOG TRUNK GROUP	ANALOG EQUIP LOCATION					MODEM POOL	
		MODEM POOL MEMBER	MODULE	CABINET	CARRIER	SLOT	CIRCUIT		MODULE	CABINET	CARRIER	SLOT	CIRCUIT		
		1	2	3	4	5	6	7	8	9	10	11	12	13	<b>180</b>

NOTES CONTINUED:

2. THE TRUNKS MUST BE PHYSICALLY CONNECTED TO EACH OTHER AS WELL AS BEING PAIRED BY THIS PROCEDURE. THIS CONNECTION IS DONE WITH RS-232C CABLES BETWEEN THE DIGITAL DATA MODULE AND THE ANALOG MODEM.

FIELD LIMITS:

- FIELDS 1 & 8: -, 18-999
- FIELD 2: 1-99
- FIELDS 3 & 9: 0-30
- FIELDS 4 & 10: 0-7
- FIELDS 5 & 11: 0-3
- FIELD 6 & 12: 0-3, 5-8, 13-16, 18-21
- FIELD 7 & 13: 0-23

FLIPCHART  
ISSUE 9

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### CONSOLE FEATURES

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**INPUT FIELDS:**

DISPLAY: NONE  
 ADD: 1-13  
 REMOVE: NOT ALLOWED. ENTER ZEROS IN THE FIELDS YOU WISH TO DISABLE, AND USE THE CHANGE ROUTINE.  
 CHANGE: 1-13  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

87-PRIVACY (FIELD 7) MAY NOT BE ACTIVE WITHOUT LOCKOUT (FIELD 6) BEING ACTIVE.  
 88-EXTENDED DXS (FIELD 10) CANNOT BE ACTIVE WITH 5 DIGIT DIALING PLANS.

**NOTES:**

1. FOR SYSTEMS THAT DO NOT HAVE AN ATTENDANT CONSOLE, ENTER CONSOLE TYPE 30 (FIELD 1) TO ADMINISTER THE SYSTEM WIDE DON'T ANSWER TIMING INTERVAL (FIELD 4) AND SET THE CALLS WAITING LEVEL (FIELD 11) TO 1.

WORD 1	CONSOLE TYPE 1	COS DISPLAY 2	DIRECT TRUNK GROUP SELECT 3	DON'T ANSWER TIMING 4	INTERPOSITION CALLING 5	LOCKOUT 6	PRIVACY 7	TRUNK TEST 8	TWO PARTY HOLD 9	EXTENDED DXS 10	CALLS WAITING LEVEL 11	FAC RESTRICTION LEVEL 12	DISPLAY TRUNK GROUP ICI 13		CONSOLE FEATURES  <b>200</b>
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FIELD LIMITS:

FIELD 1:

- 30 = WITHOUT BLF/DXS
- 33 = DXS-6 GROUP BUTTONS
- 34 = DXS-18 GROUP BUTTONS

FIELD 2:

- 0 = CLASS OF SERVICE IS DISPLAYED
- 1 = FULL, TOLL, REST, AND NON ARE DISPLAYED

FIELD 3:

- 0 = DISABLED
- 1 = ENABLED (SEE PROC 202 WORD 1)

FIELD 4:

- 1-8 = RINGING CYCLES

FIELD 5:

- 0 = DISABLED
- 1 = ENABLED
- 2 = ENABLED PLUS EXTENSION TO SELECTED ATTENDANT

FIELDS 6-9:

- 0 = DISABLED
- 1 = ENABLED

FIELD 10:

- 0 = DISABLED
- 1 = ENABLED (SEE PROC 201 WORD 1)

FIELD 11: 1-99

FIELD 12: 0-7

(0 IS MOST RESTRICTIVE, 7 IS LEAST RESTRICTIVE)

FIELD 13:

- 0 = DISPLAY ICI OF LDN
- 1 = DISPLAY ICI OF TRUNK GROUP

WORD 1A

CONSOLE  
FEATURES

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FLIPCHART  
ISSUE 9

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### CONSOLE - BLF/DXS GROUP SELECT BUTTONS

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**INPUT FIELDS:**

DISPLAY: 1 OR 2 OR 3  
 ADD: 1 OR 2 OR 3 PLUS FIELDS 4-9  
 REMOVE: NOT ALLOWED. ENTER DASHES IN FIELDS 4-9 AND USE THE CHANGE ROUTINE.  
 CHANGE: 1 OR 2 OR 3 PLUS FIELDS 4-9  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-THIS PROCEDURE CANNOT BE USED WITH CONSOLE TYPE 30.  
 82-IF FIELD 11 EQUALS 1, USE PROC 201 WORD 2.  
 83-THIS PROCEDURE IS NOT VALID IN A 5-DIGIT DIAL PLAN.

**NOTES:**

1. EACH GROUP SELECT BUTTON ASSIGNED REPRESENTS A GROUP OF 100 EXTENSIONS. EACH DXS BUTTON REPRESENTS ONE EXTENSION IN THE HUNDREDS. ONE-DIGIT HUNDREDS GROUPS ARE USED FOR THREE-DIGIT DIALING PLANS. TWO-DIGIT HUNDREDS GROUPS ARE USED FOR FOUR DIGIT DIALING PLANS. ASSIGN THE FIRST GROUP SELECT BUTTON

TO A HUNDREDS GROUP EVEN IF MULTIPLE GROUPS ARE NOT REQUIRED.

**FIELD LIMITS:**

FIELDS 1-3:  
 - = NOT SELECTED  
 1 = SELECTED  
 FIELDS 4-9:  
 00-99 = 4-DIGIT DIAL PLAN  
 0-9 = 3-DIGIT DIAL PLAN

WORD 1	BUTTON GROUPS			HUNDREDS GROUP						DISPLAY ONLY		CNSL-BLF/DXS GRP SEL BTNS
	LEFT	MIDDLE	RIGHT	KEY 1	KEY 2	KEY 3	KEY 4	KEY 5	KEY 6	CONSOLE TYPE	EXTENDED DXS	
	1	2	3	4	5	6	7	8	9	10	11	

**201**





NOTES CONTINUED:

4. HAVING ENCODE 1 IN FIELD 9 WHEN THERE IS NO DAC IN FIELDS 10-12 MEANS THAT THE TRUNK GROUP (DAC IN FIELDS 3-6) HOMES ON THIS SWITCH, BUT MAY BE CONTROLLED OR SELECTED BY A REMOTE SWITCH. IF THERE IS A DAC IN FIELDS 10-12, THE TRUNK GROUP IS REMOTE TO THE SWITCH. IN THIS EVENT, THE LOCAL DAC (FIELDS 3-6) WILL ACCESS THE TIE TRUNK TO THE REMOTE SWITCH.
5. REMOTE DIAL ACCESS CODES (FIELDS 10-12) MUST BE THREE DIGITS OR LESS. THIS LIMIT IS BECAUSE OF DCIU LINK CONSTRAINTS.

FIELD LIMITS:

- FIELD 1: 1-4
- FIELD 2: 1-6
- FIELD 3: 0-9, 11(+), 12 (#)
- FIELDS 4-6: -, 0-9
- FIELD 7:
  - 0 = BUSY FOR THIS TRUNK GROUP ONLY
  - 1 = BUSY FOR THIS AND ROUTE ADVANCE TRUNK GROUPS
  - 2 = BUSY/WARNING FOR THIS TRUNK GROUP ONLY
  - 3 = BUSY/WARNING FOR THIS AND ROUTE ADVANCE TRUNK GROUPS
- FIELD 8: 0-7
- FIELD 9: 0-1
- FIELD 10: 0-9, 11(+), 12(#)
- FIELDS 11 & 12: -, 0-9

WORD 1A

CNSL DIR  
TRK GRP SEL

202

FLIPCHART  
ISSUE 9

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CONSOLE CONTROL BUTTONS

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INPUT FIELDS:

DISPLAY: 1  
 ADD: 1-7  
 REMOVE: NOT ALLOWED, ENTER ZEROS IN FIELDS  
 2-7 AND USE THE CHANGE ROUTINE  
 CHANGE: 2-7  
 NEXT DATA: NOT ALLOWED

NOTES:

1. ROWS ARE NUMBERED FROM BOTTON, BEGINNING WITH FIRST ROW  
 ABOVE 'START'.  
 CONTROL KEY ENCODES:  
 1 = CLASS OF SVC DISP  
 2 = UNA KEY (UNATTENDED/NIGHT STATION)  
 3 = POS BUSY (PSBY)  
 4 = SPLIT  
 5 = HOLD

6 = CANCEL (CANCL)  
 7 = BUSY VERIFICATION (VERFY)  
 8 = AUD. SIGNAL (AD OFF)  
 17 = EXT DXS-GRP SELECT  
 18 = EXT DXS-GRP DISPLAY  
 19 = ALTERNATE FRL  
 27 = DISPLAY ROUTE PLAN  
 28 = TRUNK ID (TRK ID)  
 29 = RLT RELEASE

42 = TERMINAL ID (STATID)  
 43 = MANUAL PREEMPTION  
 44 = DISP CALL PRECEDENCE LEVEL  
 45 = DISP CALLED NUM  
 46 = FLASH  
 47 = SET PRECEDENCE LEVEL  
 48 = MALICIOUS CALL TRACE  
 ACTIVATE  
 49 = MALICIOUS CALL TRACE  
 CONTROL

BUTTON ASSIGNMENTS

WORD 1

ROW

BUTTON  
1

BUTTON  
2

BUTTON  
3

BUTTON  
4

BUTTON  
5

BUTTON  
6

CONSOLE  
CONTROL BTNS

203

NOTES CONTINUED:

FIELD LIMITS:  
FIELD 1: 1-3  
FIELDS 2-7: 0-8, 10-29, 42-49

PAGING KEY ENCODES:							
ZONE	ALL	1	2	3	4	5	6
REG.	10	11	12	13	14	15	16
PRIORITY	20	21	22	23	24	25	26

WORD 1A

CONSOLE  
CONTROL BTNS

203

FLIPCHART  
ISSUE 9

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**CONSOLE MESSAGES/  
LISTED DIRECTORY NUMBER (LDN)**

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**INPUT FIELDS:**

DISPLAY: 1 OR 2 SEE CHART  
 ADD: 1-7 SEE CHART  
 REMOVE: AFTER DISPLAY ONLY  
 CHANGE: 3-7 SEE CHART  
 NEXT DATA: DISPLAYS ALL VALID ASSIGNED TRUNK  
 GROUPS/CALL TYPES

**SPECIAL ERROR CODES:**

81-LDN MUST BE REMOVED IN PRC 210 WORD 2 BEFORE BEING REMOVED  
 IN THIS WORD.

**NOTES:**

1. A LDN CANNOT BE AN ASSOCIATED EXTENSION NBR (PROC 001) OR AN ASSIGNED EXTENSION NBR (PROC 000).
2. CANNOT REMOVE AN EXTENSION THAT IS NOT A LDN.
3. ALPHA MESSAGES 1-3 ARE RESERVED FOR SPECIFIC FUNCTIONS:  
 INCOMING CALLS (INC), ATND CALL (ATND) ATND RECALL (RCL).

4. ALPHA DISPLAY NUMBERS ARE ENTERED AS NUMBERS (0-9). FOR LETTERS AND SYMBOLS, SEE CHART.
5. FOR CAS BRANCH I.D. CALL TYPE, FIELD 2 IS THE BRANCH NUMBER. BOTH FIELDS 1 AND 2 MUST BE ENTERED.
6. FOR SYSTEMS WITH DID, LDN CALLS FIRST GO TO THE ATTENDANT, LEADING ZEROS MUST BE ENTERED IF ON SERVICE ORDER.
7. TO DISPLAY MESSAGE NUMBERS 1, 2 OR 3 DASH FIELD 1, ENTER MESSAGE NUMBER IN FIELD 2, DISPLAY/EXECUTE.
8. TO CHANGE MESSAGE NUMBERS 1, 2 OR 3 AFTER DISPLAY, CHANGE ALPHA FIELDS 2-6 THEN CHANGE/EXECUTE.

WORD 1	TRUNK GROUP/CALL TYPE		ICI MESSAGE				LISTED DIRECTORY NUMBER	CONSOLE MESSAGES
	MESSAGE NUMBER OR CAS BRANCH NUMBER	CHARACTER 1	CHARACTER 2	CHARACTER 3	CHARACTER 4			
	1	2	3	4	5	6	7	204

NOTES CONTINUED:

- 9. FIELDS 3-6, MUST ALL BE DASHED, OR ALL FIELDS MUST BE NON DASHED.
- 10. FOR ACD SPLITS, ENTER THE SPECIAL QUEUE TRUNK GROUP IN FIELD 1.

ALPHA NUMERIC ENCODES FOR FIELDS 3-6:

2ND DIGIT		0	1	2	3	4	5	6	7	8	9
1ST DIGIT	1-	BLNK	A	B	C	D	E	F	G	H	I
	2-	J	K	L	M	N	O	P	Q	R	S
	3-	T	U	V	W	X	Y	Z	-		

WORD 1A

CONSOLE  
MESSAGES

204

NOTES CONTINUED:

ADD/CHANGE FOR FIELDS 1-7:

ADD/CHANGE			
FIELD 1	FIELD 2	FIELDS 3-6	FIELD 7
18-999	4-63	-, 00-37	DASH
1001-1999	DASH	-, 00-37	0000-99999
2290-2295			
2297-2308	4-63	-, 00-37	DASH
2320	1-40	-, 00-37	DASH
DASH	1-3	-, 00-37	DASH

WORD 1B

DISPLAY FIELDS 1-2:

DISPLAY	
FIELD 1	FIELD 2
18-999	NA
1001-1999	NA
2290-2295	
2297-2308	NA
2320	1-40
DASH	1-63

FIELD LIMITS:  
FIELD 1:

- 18-999 = TRUNK GROUP
- 1001-1999 = LISTED DIRECTORY NUMBER
- 2290 = CALL FORWARDING
- 2291 = ATND CTRL TRUNK GROUP
- 2292 = MANUAL LINE
- 2293 = CTRL RESTRICTION
- 2294 = TIMED RCL ON OUTGOING TRUNKS
- 2295 = RCL FROM CONF 6-PARTY
- 2297 = INTERPOSITION CALL
- 2298 = ACA-SHORE CALL
- 2299 = ACA-LONG CALL
- 2300 = FLASH OVERRIDE
- 2301 = FLASH
- 2302 = IMMEDIATE
- 2303 = PRIORITY
- 2304 = ROUTINE
- 2305 = CALLS TO VACANT DAC

- 2306 = CALLS TO RESTRICTED FEATURES OR TRUNKS
  - 2307 = CALLS TO RECENTLY DISCONNECTED TERMINAL
  - 2308 = ATTENDANT DIVERSION TO RECORDED ANNOUNCEMENT
  - 2320 = CAS BRANCH ID
- FIELD 2:
- = LDN CALL TYPE (FIELD 1 = 1001-1999)
  - 0 = UNASSIGNED
  - 1-63 = MESSAGE NUMBER
  - 1-40 = CAS BRANCH NUMBER
- FIELDS 3-6: -, 00-37  
FIELD 7: 0000-99999

CONSOLE MESSAGES



FLIPCHART  
ISSUE 9

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**CONSOLE ASSIGNMENTS - ATTENDANT PARTITIONS**

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**INPUT FIELDS:**

DISPLAY: 1 OR 2-3, 4  
ADD: 1-5  
REMOVE: 2-3, SEE NOTE 1  
CHANGE: 3-5, SEE NOTE 2  
NEXT DATA: DISPLAYS ALL ATTENDANT PARTITIONS  
ASSIGNED TO A CONSOLE

**SPECIAL ERROR CODES:**

81-THE FIRST CONSOLE ASSIGNED TO AN ATTENDANT PARTITION MUST BE THE CONTROLLING CONSOLE.  
82-ATTENDANT PARTITION ASSOCIATIONS MUST BE REMOVED FROM PROC 270 WORDS 1-5 BEFORE THE LAST CONSOLE FROM AN ATTENDANT PARTITION IS REMOVED.  
83-THE CONSOLE BEING REMOVED IS THE CONTROLLING CONSOLE. DESIGNATE ANOTHER CONSOLE ASSIGNED TO THIS ATTENDANT PARTITION AS THE CONTROLLING CONSOLE BEFORE REMOVING THE DISPLAYED CONSOLE.

84-THE CONSOLE MUST BE REMOVED FROM ATTENDANT PARTITION(S) 1-40 BEFORE IT MAY BE ASSIGNED TO PARTITION 0. ALSO, CONSOLE CANNOT BE REMOVED FROM ATTENDANT PARTITION 0. ALSO, THE ACA CONSOLE CANNOT BE ADDED TO ATTENDANT PARTITION(S) 1-40.  
85-ASSIGN THE LDN AND NPA-NXX DESIGNATOR IN PROC 204 WORD 1— AND PROC 354 WORD 3 BEFORE ADDING OR CHANGING IN THIS WORD.

WORD 2

CONSOLE  
NUMBER

1

ATTENDANT  
PARTITION

2

CONTROL

3

LDN

4

NPA-NXX  
DESIGNATOR

5

**CONSOLE  
ASSIGNMENTS**

**210**

NOTES:

1. DURING THE REMOVE ROUTINE, ONLY FIELDS 2 AND 3 ARE REMOVED.  
TO REMOVE FIELDS 4 AND 5, ENTER DASHES IN FIELDS 4 AND 5 AND USE  
THE CHANGE ROUTINE OR USE THE WORD 1 REMOVE ROUTINE.
2. THE CHANGE ROUTINE CANNOT BE USED TO MOVE A CONSOLE FROM ONE  
ATTENDANT PARTITION TO ANOTHER.

FIELD LIMITS:

- FIELD 1: 1-40
- FIELD 2: -, 0-40
- FIELD 3: -, 0-1
- FIELD 4: -, 000, 99999
- FIELD 5: -, 1-99

WORD 2A

CONSOLE  
ASSIGNMENTS

210

FLIPCHART  
ISSUE 9

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**CENTRALIZED ATTENDANT SERVICE -  
BRANCH CHARACTERISTICS**

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INPUT FIELDS:

DISPLAY: NONE  
ADD: 1-4  
REMOVE: 1-4  
CHANGE: 1-4  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

82-ASSIGN A CAS QUEUE GROUP WITH PROC 100 WORD 1 FIRST.  
83-USE THE ADD ROUTINE WHEN FIRST ADDING DATA TO THIS  
PROCEDURE AFTER THAT, USE THE CHANGE ROUTINE.

NOTES:

1. TIMED REMINDER IS THE NUMBER OF TWO-SECOND INTERVALS BEFORE  
TIMED REMINDER ON OUTGOING CALLS HELD ON THE CONSOLE IS  
ACTIVATED. USE A DASH IF YOU DON'T WANT TIMED REMINDERS.

FIELD LIMITS:

FIELD 1: -, 1-31  
FIELD 2: 0-1  
FIELD 3: 18-999  
FIELD 4:  
1-99 = OVERFLOW LEVEL  
- = NO OVERFLOW WARNING

WORD 1

TIMED  
REMINDER  
INTERVAL

1

LDN  
TONE

2

CAS  
QUEUE  
GROUP

3

CAS  
QUEUE  
OVERFLOW  
LEVEL

4

CAS  
BRANCH

**211**

FLIPCHART  
ISSUE 9

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**CENTRALIZED ATTENDANT SERVICE - BRANCH  
OUTGOING RELEASE LINK TRUNKS**

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INPUT FIELDS:

DISPLAY: 1-5 OR 6  
ADD: 1-7  
REMOVE: 1-7  
CHANGE: 1-7  
NEXT DATA: DISPLAYS ALL ASSIGNED RLT'S

SPECIAL ERROR CODES:

81-THE EQUIPMENT LOCATION MUST BE ASSIGNED AS AN OUTGOING RLT  
IN PROC 116 WORD 1 OR PROC 150 WORD 1.  
82-THE BACKUP EXTENSION CANNOT BE AN ASSOCIATED EXTENSION.  
83-NO BACKUP EXTENSION IS ASSIGNED TO THIS RLT; IT MUST BE  
ENTERED BEFORE A CHANGE IS ALLOWED.  
84-THIS EXTENSION IS ASSIGNED TO A MULTIAPPEARANCE TERMINAL.  
85-ALL AVAILABLE RLT'S ARE ASSIGNED.

NOTES:

1. A BACKUP EXTENSION MUST BE ASSIGNED FOR EACH RLT.  
2. IF FIELD 7 CONTAINS A 1, WINK SIGNALING IS SENT OVER THE  
RLT.  
FIELD LIMITS:  
FIELD 1: 0-30  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4: 0-3, 5-8, 13-16,18-21  
FIELD 5: 0-3  
FIELD 6: 000-99999  
FIELD 7: 1-0

WORD 2	RLT EQUIPMENT LOCATION					BACKUP EXTENSION	START PULSE	CAS BRANCH OUTGOING RLT
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT			
	1	2	3	4	5	6	7	211

FLIPCHART  
ISSUE 9

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**CENTRALIZED ATTENDANT SERVICE  
MAIN BRANCH NUMBER ASSIGNMENT**

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INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: 1-3  
NEXT DATA: DISPLAYS ALL ASSIGNED BRANCH  
LOCATIONS

SPECIAL ERROR CODES:

82-TRUNK GROUP MUST BE ASSIGNED AS RLT INCOMING TYPE WITH PROC  
100 FIRST.  
83-A TRUNK GROUP CAN ONLY BE ASSIGNED TO ONE BRANCH NUMBER.  
NOTES:  
1. ONLY ONE TRUNK GROUP CAN BE ASSOCIATED WITH A GIVEN BRANCH  
AND ALL RLT'S FROM THE BRANCH MUST BE IN THAT TRUNK GROUP.

FIELD LIMITS:

FIELD 1: 1-40  
FIELD 2: 18-999  
FIELD 3:  
0 = NON-ESS BRANCH  
1 = ESS BRANCH

WORD 1

BRANCH  
NUMBER

1

INCOMING  
RLT  
TRUNK  
GROUP

2

BRANCH  
TYPE

3

CAS  
MAIN  
BRANCH  
NUMBER

212



FLIPCHART  
ISSUE 9

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CARRIERS

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845552223

INPUT FIELDS:

DISPLAY: 1-3  
 ADD: 1-4; 1-4 & 9; 1-4, 10 & 11; 1-8 & 11  
 REMOVE: 4-15  
 CHANGE: 5, 6, 8, 11, 12-15  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

50-VALID SLOTS IN RMI CARRIER ARE 0-3, 5-8, 13-16, AND 18-21.  
 51-A REMOTE MODULE CANNOT BE USED AS THE LOCAL MODULE CONTROL FOR THE ASSIGNMENT OF A RMI CIRCUIT PACK, A RMI CARRIER, OR A SCS CIRCUIT PACK.  
 52-MODULES GREATER THAN 0 CANNOT BE ASSIGNED WITH A SYSTEM 85 SE (SEE PROC 276 WORD 1).  
 81-TIME MULTIPLEX SWITCH CARRIERS (TYPES 4, 5, 8, & 9) MUST BE MOUNTED IN COMMON CONTROL CABINET.

82-ONLY CARRIER TYPES 1,4,5,8,9 OR 15 CAN BE MOUNTED IN THE COMMON CONTROL CABINETS.  
 83-MODULE CONTROL CARRIERS DO NOT MEET THE PROPER CRITERIA. SEE NOTES.  
 84-I/O AND PDS CIRCUIT PACKS MUST BE INSTALLED IN THE MODULE CONTROL BEFORE THE ASSOCIATED PORT, DS1 OR RMI CARRIER CAN BE INSTALLED. (SEE TABLE 1).  
 85-THE COMMON CONTROL IS DUPLICATED. YOU CANNOT REMOVE THIS CARRIER. USE PROC 275 WORD 1 TO CHANGE FROM DUPLICATED TO UNDUPLICATED.

WORD 1	CARRIER LOC			CARRIER TYPE	COMMON MODULE CONTROL				PORT ELECTRICAL CARRIER NUMBER	TMS ELECTRICAL CARRIER NUMBER	SCS EQUIPPED	LOCAL RMI EQPT LOCATION FOR MODULE IN FIELD 1				CARRIERS
	MODULE	CABINET	CARRIER		I/O	PDS	DUPLIC	TMS				MODULE	CABINET	CARRIER	SLOT	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	250

SPECIAL ERROR CODES CONTINUED:

- 86-PORT (LINES AND TRUNKS), DS1, OR RMI CARRIERS ARE STILL ASSIGNED TO A PORT, DS1 OR RMI CARRIER. REMOVE THOSE ASSIGNMENTS BEFORE REMOVING THE CARRIER.
- 87-PORTS OR RMI CIRCUIT PACKS ARE STILL ASSIGNED TO A PORT, DS1, OR RMI CARRIER. REMOVE THOSE ASSIGNMENTS BEFORE REMOVING THE CARRIER.  
SEE PROC 290 WORD 1.
- 88-THE CHANGE ROUTINE IS UNACCEPTABLE. SEE NOTES.
- 89-TIME MULTIPLEX SWITCH CARRIERS FOR DUPLICATED TMS MUST MEET THE FOLLOWING:  
TMS 0 (TYPES 4 & 5) MUST BE ADDED BEFORE TMS 1 (TYPES 8 & 9), AND TMS 1 (TYPES 8 & 9) MUST BE REMOVED BEFORE TMS 0 (TYPES 4 & 5).
- 90-TMS GROWTH CARRIERS MUST BE MOUNTED IN VERTICALLY ADJACENT POSITIONS, STARTING AT THE LOWEST POSITION IN THE CABINET. THE CARRIERS MUST BE ASSIGNED AND REMOVED IN NUMERICAL ORDER. (I.E. ADD, FIELD 10 AS 0-1-2-3, AND REMOVE, FIELD 10 AS 3-2-1-0.
- 91-THE MODULE CONTROL CARRIER IS STILL ASSIGNED TO THE TMS CARRIERS. IT MUST BE REMOVED BEFORE THE TMS CARRIER CAN BE REMOVED.
- 92-IN A MULTI-MODULE SYSTEM WITH TMS THE SCS MUST BE MOUNTED IN THE TMS CARRIER, NOT THE MODULE CONTROL CARRIER.

- 93-SCS REFERENCE MUST BE REMOVED IN PROC 260 WORD 1 BEFORE THE SCS CIRCUIT PACK CAN BE REMOVED USING EITHER THE CHANGE OR REMOVE ROUTINE.
- 94-ONLY THE CHANGE ROUTINE IS ALLOWED FOR THE SCS FIELD IN TMS 0 (TYPE 4).
- 95-THE TMS MUST BE ADMINISTERED (CARRIER TYPE 4, 5, 8 OR 9) BEFORE ENABLING THE TMS (FIELD 8).
- 96-CANNOT REMOVE A DUPLICATED MODULE CONTROL OR TMS PROCESSOR WHEN IT IS ON-LINE. USE PROC 621 TEST 2 TO SWITCH PROCESSORS.
- 97-THE PORT ELECTRICAL CARRIER FOR A RMI CARRIER (ASSIGNED TO MODULE IN FIELD 12) CANNOT BE ASSIGNED TO MODULE 0, PORT ELECTRICAL CARRIER 0. A RMI CARRIER CANNOT BE ASSIGNED TO COMMON CONTROL CABINET 0, CARRIER 0. IF A RMI CARRIER IS IN NETWORK CABINET FIELDS 1 AND 12 MUST BE THE SAME.
- 98-ONLY FOUR RMI CARRIERS CAN BE ASSIGNED PER SYSTEM.

NOTES:

1. MODULE CONTROL CARRIERS ARE SET UP BASED ON THE FOLLOWING:
  - TWO PORT DATA STORE (PDS) CIRCUIT PACKS MAY BE ENTERED FOR EACH I/O CIRCUIT PACK. VIEWING THE CARRIER FROM THE FRONT, CIRCUIT PACKS ARE MOUNTED IN THE CARRIER FROM LEFT TO RIGHT.
  - FOR DUPLICATED MODULE CONTROLS, THE I/O AND PDS CIRCUIT PACKS MUST BE EQUIPPED IN THE SAME WAY. ALSO, IF MODULE CONTROL 0 IS REMOTE, BOTH MODULE CONTROLS MUST BE REMOTE.
  - DUPLICATED MODULE CONTROLS MUST BE IN ADJACENT POSITIONS.
  - MODULE CONTROL 0 MUST BE ADDED BEFORE MODULE CONTROL 1.
  - MODULE CONTROL 1 MUST BE REMOVED BEFORE MODULE CONTROL 0.
  - IF A RMI CIRCUIT PACK IS ASSIGNED TO A LOCAL MODULE CONTROL FOR A REMOTE MODULE CONTROL, THE RMI CIRCUIT PACK MUST BE REMOVED BEFORE THE LOCAL MODULE CONTROL CARRIER CAN BE REMOVED.
2. IN THE MODULE CONTROL CARRIER, THE CHANGE ROUTINE IS ALLOWED FOR FIELDS 5, 6, 8, OR 11. WITH A DUPLICATED MODULE CONTROL, THE I/O, PDS, AND SCS CIRCUIT PACKS IN BOTH CARRIERS ARE CHANGED WITH THIS ROUTINE. WHEN REDUCING THE NUMBER OF PDS CIRCUIT PACKS OR ASSOCIATED PORTS (LINES AND TRUNKS), REMOVE DS1 OR RMI CARRIERS FIRST.

3. WHEN A LOCAL RMI LOCATION IS DEFINED IN FIELDS 12-15, THE MODULE IN FIELD 1 IS A REMOTE MODULE. IF YOU DASH OUT FIELDS 12-15 AND DO A CHANGE ROUTINE, THE MODULE IN FIELD 1 BECOMES A LOCAL MODULE. WHEN CHANGING A DUPLICATED MODULE CONTROL FROM A LOCAL TO A REMOTE, THE PRIMARY MODULE CONTROL MUST BE CHANGED FIRST. WHEN CHANGING A DUPLICATED MODULE CONTROL FROM A REMOTE TO A LOCAL, THE DUPLICATED MODULE CONTROL MUST BE CHANGED FIRST. WHEN THERE IS NO ASSIGNMENT IN FIELDS 12-15, THE MODULE IN FIELD 1 IS A LOCAL MODULE. IF YOU ADD ASSIGNMENTS IN FIELDS 12-15 AND DO A CHANGE ROUTINE, THE MODULE IN FIELD 1 BECOMES A REMOTE MODULE. USE THE CHANGE ROUTINE TO CHANGE THE LOCATION OF THE RMI CIRCUIT PACK. THE MODULE CANNOT HAVE ASSIGNMENTS OF CALLING NUMBER DISPLAY TO STATION. (SEE PROC 253 WORD 1).

WORD 1B

CARRIERS

250

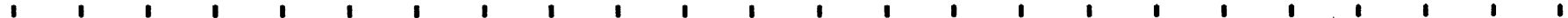


TABLE 1		
CONTROL CP'S REQ PER PORT ELECTRICAL CARRIER NUMBER		
I/O	PDS	PORT ELECT CARR NUM
1	1	0-1
	2	2-3
2	3	4-5
	4	6-7
3	5	8-9
	6	10-11

TABLE 2	
TMS CARRIER NUMBER	SERVICE MODULES
0 = TMS CONTROL	0-6
1 = TMS GROWTH 1	7-14
2 = TMS GROWTH 2	15-22
3 = TMS GROWTH 3	23-30

FIELD LIMITS:  
FIELD 1: 00-30, 99  
FIELD 2: 0-7  
FIELD 3: 0-3  
FIELD 4:

0 = UNEQUIPPED  
1 = COMMON CONTROL  
4 = TMS 0 CONTROL  
5 = TMS 0 GROWTH  
6 = MODULE CONTROL 0  
7 = MODULE CONTROL 1  
8 = TMS 1 CONTROL  
9 = TMS 1 GROWTH  
11 = DSI PORT  
12 = PORT  
13 & 14 = SPARE  
15 = RMI  
FIELD 5: -, 1-3  
FIELD 6: -, 1-6

FIELDS 7-8: -, 0-1  
FIELD 9: -, 0-11  
FIELD 10: -, 0-3  
FIELD 11: -, 0-1  
FIELD 12: 0-30  
FIELD 13: 0-7  
FIELD 14: 0-3  
FIELD 15: 0-3, 5-8, 13-16, 19-21, 25

WORD 1C

CARRIERS

250

CARR EQUIP LOC			TYPE	MODULE CONTROL			PORT ELEC CAR	TMS ELEC CAR	SCS	LOCAL RMI EQ LOC FOR MOD IN FLD 1							
MOD	CAB	CAR		I/O	PDS	DUP				TMS	MOD	CAB	CAR	SLOT			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
0-MAX	0-7	0-3	1	-	-	-	-	-	-	-	-	-	-	-			
99	0-3	0-3		-	-	-	-	-	-	-	-	-	-	-	-		
99	0-3	0-3		4,8,5,9	-	-	-	-	-	0 1-3	0-1	-	-	-	-		
0-MAX	0-7	0-3	6,7	1-3	1-6	0-1	0-1	-	-	0	0-MAX	0-7	0-3	25	-		
										0-1	-	-	-	-	-	-	-
										0	99	0-3	0-3	0-3,5-8 13-16 18-21	-	-	-
										0	0-MAX	0-7	0-3	0-3,5-8 13-16 18-21	-	-	-

CARR EQUIP LOC			TYPE	MODULE CONTROL			PORT ELEC CAR	TMS ELEC CAR	SCS	LOCAL RMI EQ LOC FOR MOD IN FLD 1				
MOD	CAB	CAR		I/O	PDS	DUP				TMS	MOD	CAB	CAR	SLOT
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0-MAX	0-7	0-3	11	-	-	-	-	0-11	-	-	-	-	-	-
0-MAX	0-7	0-3	12	-	-	-	-	0-11	-	-	-	-	-	-
99	0-3	0-3	15	-	-	-	-	0-11	-	-	0-MAX	-	-	-
0-MAX	0-7	0-3												

WORD 1D

CARRIERS

FLIPCHART  
ISSUE 9

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### STANDARD TONE PLANTS

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-5 OR 1-10  
 REMOVE: 1-5 OR 6-10  
 CHANGE: 1-10  
 NEXT DATA: DISPLAYS ALL ASSIGNED TONE PLANTS

**SPECIAL ERROR CODES:**

81-USE THE ADD ROUTINE IF ADDING A NEW MODULE.  
 82-IF TONE PLANT 0 AND TONE PLANT 1 ARE BEING ADDED OR CHANGED, BOTH MODULES MUST BE THE SAME.  
 83-USE THE CHANGE ROUTINE TO ADD, REMOVE, OR CHANGE THE SECOND TONE PLANT.  
 84-USE CIRCUIT 0.  
 85-REMOVE THE ASSOCIATED AUXILLIARY TONE PLANT BEFORE REMOVING THE LAST STANDARD TONE PLANT IN THIS MODULE (SEE PROC 252 WORD 2).

86-THE CIRCUIT PACK IN THIS SLOT IS NOT A TONE PLANT.

87-TONE PLANTS 0 AND 1 CANNOT HAVE THE SAME EQUIPMENT LOCATION.

**NOTES:**

1. AT LEAST 1 TONE PLANT IS REQUIRED PER EQUIPPED MODULE.

**FIELD LIMITS:**

FIELD 5: 0	FIELD 8: -, 0-3
FIELD 1: 0-30	FIELD 6: -, 0-30
FIELD 2: 0-7	FIELD 7: -, 0-7
FIELD 3: 0-3	FIELD 9: -, 0-3, 5-8, 13-16, 18-21
FIELD 4: 0-3, 5-8, 13-16, 18-21	FIELD 10: -, 0

WORD 1	TONE PLANT 0					TONE PLANT 1													TONE PLANTS	
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	MODULE	CABINET	CARRIER	SLOT	CIRCUIT										
	1	2	3	4	5	6	7	8	9	10										

**252**

FLIPCHART  
ISSUE 9

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**AUXILIARY TONE PLANTS**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 2 & 3  
ADD: 1-7  
REMOVE: 1-7  
CHANGE: 1-7  
NEXT DATA: DISPLAYS ALL MODULES IN THE SYSTEM  
AND ANY ASSIGNED AUXILIARY TONE  
PLANTS

SPECIAL ERROR CODES:

81-USE PROC 252 WORD 1 TO ASSIGN THE STANDARD TONE PLANT TO  
THIS MODULE BEFORE ASSIGNING THE AUXILIARY TONE PLANT.  
82-THE CODE CALLING FEATURE IS NOT AVAILABLE; EQUIPMENT TYPE  
MUST BE CAS OR TONE DETECTOR ONLY. (FIELD 1 = 1).  
83-CODE CALLING EQUIPMENT IS ASSIGNED.  
84-TONE PLANT NUMBER IS 0 OR 1.  
85-USE PROC 275 WORD 4 TO DISABLE CODE CALLING ACCESS BEFORE  
CHANGING OR REMOVING THIS ASSIGNMENT.

86-USE PROC 211 WORD 1 AND PROC 212 WORD 1 TO MAKE CAS  
INACTIVE BEFORE REMOVING IT HERE.  
87-THE CIRCUIT NUMBER MUST BE 0.  
88-THE CIRCUIT PACK IN THIS SLOT IS NOT AUXILLIARY TONE PLANT.  
89-NEXT DATA IS NOT ALLOWED AFTER CHANGING DATA IN FIELDS 1,  
2, OR 3. FIRST USE THE DISPLAY ROUTINE, THEN THE NEXT DATA  
ROUTINE.  
NOTES:  
1. AT LEAST ONE AUXILIARY TONE PLANT IS REQUIRED PER EQUIPPED  
MODULE, IF CAS IS ACTIVE.

WORD 2

EQUIP TYPE

TONE PLANT

MODULE

CABINET

CARRIER

SLOT

CIRCUIT

TONE PLANTS

**252**

1

2

3

4

5

6

7

FIELD LIMITS:

FIELD 1:

1 = CAS AND TONE DETECTOR ONLY

2 = CAS AND TONE DETECTOR WITH CODE CALLING

(ONLY 1 ASSIGNMENT OF THIS TYPE IS ALLOWED)

FIELD 2: 0-1

FIELD 3: 0-30

FIELD 4: 0-7

FIELD 5: 0-3

FIELD 6: 0-3, 5-18, 13-16, 18-21

FIELD 7: 0

WORD 2A

TONE PLANTS

252

FLIPCHART  
ISSUE 9

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**DATA CHANNELS**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 2-4  
ADD: 1-5  
REMOVE: 1-5  
CHANGE: 2-5 (FOR UNIT TYPE 1 ONLY)  
NEXT DATA: DISPLAYS ALL DATA CHANNEL  
ASSIGNMENTS

SPECIAL ERROR CODES:

83-UNIT TYPE 3, (ATTENDANT CONSOLE), IS ADMINISTERED IN  
PROC 210 WORD 1 AND IS DISPLAYED HERE FOR INFORMATION ONLY.  
84-TYPE 7, (MAAP), HAS A NON-ADMINISTRABLE, FIXED EQUIPMENT  
LOCATION & IS DISPLAYED HERE FOR INFORMATION ONLY.  
85-UNIT TYPE 5, (SMDR), HAS A FIXED EQUIPMENT LOCATION, WHICH  
MAY BE ADDED OR REMOVED BUT NOT CHANGED. (SLOT 23,  
CIRCUIT 15).  
86-THIS EXTENSION CANNOT BE AN ASSOCIATED EXTENSION.

87-UNIT TYPE 14, (NCOSS), MAY BE ADDED OR REMOVED BUT NOT  
CHANGED.  
88-UNIT TYPE 14, (NCOSS), MUST BE ASSIGNED TO CIRCUITS 14 AND  
15. UNIT NUMBER IS 1-8.  
89-A PCC BOARD RESIDES IN THIS SLOT. TRANSLATE IN PROC 255  
WORD 1.  
90-UNIT TYPE 16, (PCC), IS ADMINISTERED IN PROC 255 WORD 1 AND  
IS DISPLAYED HERE FOR INFORMATION ONLY.

EQUIPMENT LOCATION

UNIT  
TYPE

CARRIER

SLOT

CIRCUIT

UNIT OR  
EXTENSION

DATA CHANNELS

**253**

1

2

3

4

5

FIELD LIMITS

FIELD 1:

- 0 = NOT ASSIGNED
- 1 = CALLING NUMBER DISPLAY
- 2 = ATTENDANT CONSOLE
- 5 = SMDR
- 7 = MAAP
- 13 = FADS FOR CAS
- 14 = NCOSS (LSU)
- 16 = PCC

FIELD 2:

- 0 = COMMON CONTROL CARRIER

FIELD 3: 23-26

FIELD 4: 0-15

FIELD 5:

- UNIT TYPE 1 = 000-99999
- UNIT TYPES 5 & 13 = 000, 9999
- UNIT TYPE 14 = 1-8
- UNIT TYPE 16 = THE LOGICAL CIRCUIT PLUS 1

WORD 1A

DATA CHANNELS

253



FLIPCHART  
ISSUE 9

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**DIAL PULSE ORIGINATION REGISTER AND  
INTERCOM RECORDS**

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84552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2, AFTER DISPLAY ONLY  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-FIELD 2 CANNOT BE A LARGER NUMBER THAN FIELD 3.  
84-THIS CHANGE IS INCOMPLETE. THERE ARE NOT ENOUGH IDLE RECORDS  
AVAILABLE. DO A DISPLAY ROUTINE TO FIND THE NEW NUMBER OF  
ACTIVE RECORDS.

NOTES:

1. WHEN INCREASING THE NUMBER OF ACTIVE RECORDS, DO NOT ENTER  
THE MAXIMUM NUMBER SHOWN IN FIELD 3. A NUMBER OF SPARE  
RECORDS SHOULD ALWAYS BE MAINTAINED.

FIELD LIMITS:

FIELD 1:  
1 = DIAL PULSE RECORD  
2 = INTERCOM RECORD  
FIELD 2: 0-9999  
FIELD 3:  
DIAL PULSE = 0-246  
INTERCOM = 0-10496

TYPE	RECORDS ACTIVE	DISPLAY ONLY		DIAL PULSE
		MAXIMUM RECORDS ALLOWED		
1	2	3		<b>254</b>

FLIPCHART  
ISSUE 9

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**PROCESSOR COMMUNICATIONS CIRCUIT (PCC)  
LINK ATTRIBUTES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
ADD: 1-13  
REMOVE: 1-14  
CHANGE: 4-13  
NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-THIS CIRCUIT IS NOT A PCC. USE PROC 253 WORD 1 FOR DUAL SPEED CHANNELS.  
82-THE HIGH FIFO THRESHOLD CANNOT BE LESS THAN OR EQUAL TO THE LOW FIFO THRESHOLD.  
83-THE PCC MUST BE BUSIED OUT BEFORE IT CAN BE CHANGED OR REMOVED. USE PROC 651 TO BUSY OUT THE PCC.  
84-THE APPLICATION IS NOT ASSIGNED TO THIS EQUIPMENT LOCATION.  
85-UNABLE TO WRITE TO THE PCC BOARD.

86-BTC PROTOCOL IS ADMINISTERED IN WORD 2, FIELD 5. AN 8-BIT CHARACTER LENGTH IS REQUIRED.

**NOTES:**

1. THE DISPLAY ALWAYS SHOWS SWITCH TRANSLATIONS. IF A PCC BOARD IS PRESENT, A COMPARISON OF BOARD TRANSLATIONS TO SWITCH TRANSLATIONS IS DONE. IF ANY DIFFERENCES ARE PRESENT, THE FIELD NUMBER OF THE FIRST DIFFERENCE IS DISPLAYED IN FIELD 14. AFTER MAKING THE CORRECTION, ANOTHER DISPLAY WILL SHOW THE NEXT FIELD THAT HAS A DISCREPANCY, IF ANY.

WORD 1	APPLICATION TYPE	EQUIPMENT LOCATION		BAUD RATE	PARITY	STOP BITS	CHARACTER LENGTH	DATA TYPE		FIFO THRESHOLDS				DISPLAY ONLY	PCC LINK ATTRIBUTES
		SLOT	CIRCUIT					501-PCC	PCC-TO-PERIPHERAL	OUT		IN		MISMATCHED DATA IN FIELD	
										LOW	HIGH	LOW	HIGH		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	<b>255</b>

FIELD LIMITS:

- FIELD 1:  
1 = CALL DETAIL RECORDING (CDR)
- FIELD 2: 24-26
- FIELD 3: 0, 1
- FIELD 4:  
2 = 300 BPS  
3 = 600 BPS  
4 = 1200 BPS  
5 = 2400 BPS  
6 = 4800 BPS  
7 = 9600 BPS  
8 = 19200 BPS
- FIELD 5:  
0 = NO PARITY/NOT ASSIGNED  
1 = ODD  
2 = EVEN

FIELD 6:

- 1 = 1 BIT  
2 = 1 1/2 BITS  
3 = 2 BITS

FIELD 7:

- 1 = 5 BIT CHARACTERS  
2 = 6 BIT CHARACTERS  
3 = 7 BIT CHARACTERS  
4 = 8 BIT CHARACTERS (DEFAULT)

FIELD 8:

- 1 = 4 HEX NIBBLES (DEFAULT)  
2 = 2 ASCII CHARACTERS

FIELD 9:

- 1 = 2 HEX NIBBLES (DEFAULT)  
2 = 2 ASCII CHARACTERS

FIELD 10: 0-7 (DEFAULT IS 1)

FIELD 11: 0-7 (DEFAULT IS 7)

FIELD 12: 0-7 (DEFAULT IS 1)

FIELD 13: 0-7 (DEFAULT IS 7)

FIELD 14: -, 4-13

WORD 1A

PCC  
LINK  
ATTRIBUTES

255



NOTES:

1. THE DISPLAY ALWAYS SHOWS SWITCH TRANSLATIONS. IF A PCC BOARD IS PRESENT, A COMPARISON OF BOARD TRANSLATIONS TO SWITCH TRANSLATIONS IS DONE. IF ANY DIFFERENCES ARE PRESENT, THE FIELD NUMBER OF THE FIRST DIFFERENCE IS DISPLAYED IN FIELD 7.

FIELD LIMITS:

- FIELD 1:  
1 = CALL DETAIL RECORDING (CDR) (DEFAULT)
- FIELD 2:  
1 = 1-WAY COMMUNICATION (DEFAULT)
- FIELD 3:  
1 = MESSAGE LENGTH IN MESSAGE  
2 = STX/ETX DELIMITED (DEFAULT)  
3 = FIXED MESSAGE LENGTH
- FIELD 4: -, 1-128 (DEFAULT IS -)
- FIELD 5:  
1 = BTC PROTOCOL (DEFAULT)  
2 = DIRECT OUTPUT-18 WORD FORMAT  
3 = DIRECT OUTPUT-UNFORMATTED
- FIELD 6: 1-15
- FIELD 7: -, 3-6

WORD 2A

PCC  
ATTRIBUTES

255

FLIPCHART  
ISSUE 9

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DCIU LINK ASSIGNMENT

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84552223

INPUT FIELDS:

DISPLAY: 1 (9 OPTIONAL)  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2-8  
NEXT DATA: DISPLAYS EACH LINK ASSIGNMENT

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE-USED TABLES.  
82-YOU CANNOT UNASSIGN A LINK WHICH FORMS PART OF A NETWORK CHANNEL. USE PROC 257 WORD 1 TO REMOVE THE NETWORK CHANNEL.  
83-THE MAXIMUM COMBINED SPEED ON THE LINKS HAS BEEN EXCEEDED (76800 BPS).

84-CANNOT CHANGE DESTINATION MACHINE TYPE IF LINK FORMS PART OF A NETWORK CHANNEL. USE PROC 257 WORD 1 TO REMOVE NETWORK CHANNEL.  
85-A LINK CONNECTED TO AN AP MUST BE SPECIFIED AS A DTE (FIELD 4 = 0).

WORD 1	LINK	ASSIGNED	BAUD RATE	LOCAL DTE/DCE	DIAL UP	PROTOCOL	DESTINATION MACHINE TYPE	DESTINATION MACHINE NUMBER	TABLE INDICATOR	DISP ONLY TRANSLATION EQUIVALENCE	DCIU LINK ASGMT
	1	2	3	4	5	6	7	8	9	10	256

FIELD LIMITS:

FIELD 1: 1-8

FIELD 2:

0 = NO

1 = YES

FIELD 3:

0 = NONE ASSIGNED

1 = 300 BPS

2 = 600 BPS

3 = 1200 BPS

4 = 2400 BPS

5 = 4800 BPS

6 = 9600 BPS

7 = 19200 BPS

FIELD 4:

0 = THIS END IS DTE

1 = THIS END IS DCE

FIELD 5:

0 = NOT A DIAL UP LINK

1 = IS A DIAL UP LINK

FIELD 6:

1 = BX.25

FIELD 7:

1 = AP 16

2 = 3B5 AP

3 = AUDIX

4 = SYSTEM 75

5 = SYSTEM 85, RELEASE 1

6 = SYSTEM 85, RELEASE 2

7 = ENHANCED DIMENSION PBX (DCS)

8 = 3B2

FIELD 8:

1-7 = AP'S

1-8 = AUDIX

1-63 = DCS

FIELD 9:

0 = DISPLAY SCRATCH-PAD TABLE VALUES

1 = DISPLAY MACHINED-USED TABLE VALUES

FIELD 10:

0 = SCRATCH-PAD AND MACHINE-USED VALUES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED VALUES AGREE

WORD 1A

DCIU  
LINK ASGMT

256

FLIPCHART  
ISSUE 9

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DCIU LEVEL 2 LINK CHARACTERISTICS

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845552223

INPUT FIELDS:

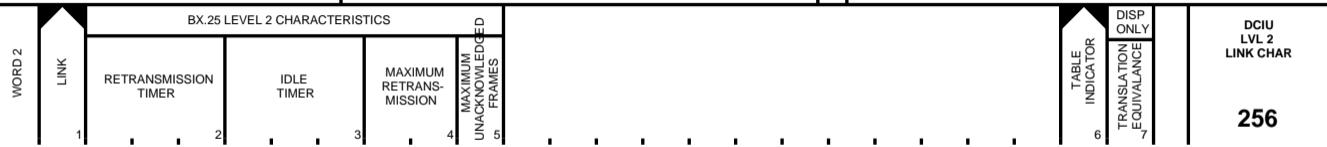
DISPLAY: 1 (6 OPTIONAL)  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-5  
 NEXT DATA: DISPLAYS EACH LINK ASSIGNMENT

SPECIAL ERROR CODE:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE USED TABLES.  
 FIELD LIMITS:  
 FIELD 1: 1-8  
 FIELD 2: 1-255 (IN ONE-SECOND INTERVALS)  
 FIELD 3: 1-255 (IN ONE-SECOND INTERVALS)  
 FIELD 4: 1-15

FIELD 5: 1-7

FIELD 6:  
 -, 0 = DISPLAY SCRATCH-PAD TABLE VALUES  
 1 = DISPLAY MACHINE-USED TABLE VALUES  
 FIELD 7:  
 0 = SCRATCH-PAD AND MACHINE-USED VALUES DIFFER  
 1 = SCRATCH-PAD AND MACHINE-USED VALUES AGREE



FLIPCHART  
ISSUE 9

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**DCIU LEVEL 3 LINK CHARACTERISTICS**

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845552223

INPUT FIELDS:

DISPLAY: 1 (11 OPTIONAL)  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-10  
 NEXT DATA: DISPLAYS EACH LINK ASSIGNMENT

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE-USED TABLES.  
 FIELD LIMITS:  
 FIELD 1: 1-8  
 FIELDS 2-6: 1-255 (SECONDS)  
 FIELDS 7-9: - (THIS FIELD IS NOT USED AT THIS TIME)  
 FIELD 10: 1-7

FIELD 11:

-, 0 = DISPLAY SCRATCH-PAD TABLE VALUES  
 1 = DISPLAY MACHINE-USED TABLE VALUES

FIELD 12:

0 = SCRATCH-PAD AND MACHINE-USED VALUES DIFFER  
 1 = SCRATCH-PAD AND MACHINE-USED VALUES AGREE

BX.25 LEVEL 3 CHARACTERISTICS

WORD 3	LINK	BX.25 LEVEL 3 CHARACTERISTICS										DISP ONLY	DCIU LVL 3 LINK CHAR
		ACTIVITY TIMER	ACKNOWLEDGEMENT TIMER	INTERRUPT TIMER	RESET TIMER	RESTART TIMER	RETRANS-MISSION COUNTER	RESET COUNTER	RESTART COUNTER	MAX UNACK'D PACKETS	TABLE INDICATOR	TRANSLATION EQUIVALENCE	
	1	2	3	4	5	6	7	8	9	10	11	12	

INPUT FIELDS:

DISPLAY: 1-2 (7 OPTIONAL)  
 ADD: 1-6  
 REMOVE: 1-7  
 CHANGE: 5  
 NEXT DATA: DISPLAYS ALL ASSIGNED NETWORK CHANNELS

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO AN ADD, CHANGE, OR REMOVE OPERATION ON THE MACHINE-USED TABLES.  
 82-THE LINK MUST BE ASSIGNED IN PROC 256 WORD 1 BEFORE ADDING A NETWORK CHANNEL.  
 83-THIS IS NOT A VALID NETWORK CHANNEL.  
 84-THIS PORT IS NOT PERMITTED ALTERNATE ROUTING STATUS.

85-THIS PORT IS NOT PERMITTED FIXED NETWORK CHANNEL STATUS.

86-THE SWITCH/PORT COMPONENT MUST BE COMPONENT A.  
 87-REMOTE PORT MUST BE DESIGNATED (PROC 257 WORD 2) FOR THE LOCAL PORT BEFORE INCLUSION IN THE NETWORK CHANNEL.  
 88-ALTERNATE ROUTING INFORMATION MUST BE DESIGNATED FOR THE LOCAL PORT BEFORE INCLUSION IN A NETWORK CHANNEL (PROC 257 WORD 2).  
 89-ALTERNATE ROUTING INFORMATION MUST BE REMOVED FOR THE LOCAL PORT BEFORE INCLUSION IN A NETWORK CHANNEL (PROC 257 WORD 2).

WORD 1	NETWORK CHANNEL				PRIORITY	ALTERNATE ROUTING FLAG	TABLE INDICATOR	DISP ONLY	DCIU NTWK CHNLS
	COMPONENT A		COMPONENT B					TRANSLATION EQUIVALENCE	
	LINK (SWITCH) 1	LOGICAL CHANNEL (LOCAL PORT) 2	LINK 3	LOGICAL CHANNEL 4				8	
				5	6	7		257	

SPECIAL ERROR CODES CONTINUED:

- 90-COMPONENT B MAY NOT BE DESIGNATED FOR ALTERNATE ROUTED NETWORK CHANNELS.
- 91-COMPONENTS A AND B OF NETWORK CHANNEL CANNOT BE IDENTICAL.
- 92-ALTERNATE ROUTING MAY ONLY BE USED ON DCS MACHINES (PROC 256 WORD 1).
- 93-DISASSOCIATE THE LOCAL PORT FROM ITS TRUNK GROUP AND DCS NODES BEFORE REMOVING THE LOCAL PORT FROM A NETWORK CHANNEL (PROC 257 WORD 3).

NOTES:

1. ON A DISPLAY OPERATION, INPUT DATA FROM COMPONENT A MAY BE MOVED TO COMPONENT B.
2. CONCEPTUALLY, THE DCIU HAS 9 LINKS. EIGHT ARE HARDWARE LINKS WHICH CAN BE CONNECTED TO REMOTE DEVICES. ONE (LINK 0) IS PERMANENTLY CONNECTED TO THE LOCAL SWITCH. EACH LINK SUPPORTS UP TO 64 LOGICAL CHANNELS, WHICH ARE CALLED PORTS ON THE LOCAL SWITCH LINK (LINK 0).
3. WHEN ASSIGNING A LOCAL SWITCH PORT TO A NETWORK CHANNEL, ADDITIONAL ADMINISTRATION IS REQUIRED IN WORD 2 AND WORD 3 IF THE REMOTE END OF THE NETWORK CHANNEL IS A DCS NODE.

FIELD LIMITS:

FIELDS 1 AND 3:

- 0 = LOCAL SWITCH LINK
- 1-8 = HARDWARE LINKS

FIELDS 2 AND 4: 1-64

FIELD 5:

- 0 = LOW
- 1 = HIGH

FIELD 6:

- 0 = NOT AN ALTERNATE ROUTED NETWORK CHANNEL
- 1 = NETWORK CHANNEL (DASH FIELDS 3 AND 4)

FIELD 7:

- 0 = DISPLAY SCRATCH-PAD TABLE VALUES FOR COMPONENT A
- 1 = DISPLAY MACHINE-USED TABLE VALUES FOR COMPONENT A

FIELD 8:

- 0 = SCRATCH-PAD AND MACHINE-USED VALUES FOR COMPONENT A DIFFER
- 1 = SCRATCH-PAD AND MACHINE-USED VALUES FOR COMPONENT A AGREE

WORD 1A

DCIU  
NTWK  
CHNLS

257

FLIPCHART  
ISSUE 9

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### DCIU PORT CHARACTERISTICS

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**INPUT FIELDS:**

DISPLAY: 1 OR 1 AND 8  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-4  
 NEXT DATA: DISPLAYS ALL AVAILABLE PORTS

**SPECIAL ERROR CODES:**

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE-USED TABLES.  
 82-A REMOTE PORT MAY NOT BE UNASSIGNED OR CHANGED BECAUSE THE LOCAL PORT IS ASSIGNED TO THE NETWORK CHANNEL.  
 83-ALTERNATE ROUTING INFORMATION MAY NOT BE REMOVED BECAUSE THE LOCAL PORT IS ASSIGNED TO AN ALTERNATE ROUTING NETWORK CHANNEL.

84-ALTERNATE ROUTING INFORMATION MAY NOT BE ADDED BECAUSE THE LOCAL IS ASSIGNED TO A FIXED ROUTED NETWORK CHANNEL.  
 85-A LOCAL PORT IS NOT PERMITTED ALTERNATE ROUTING STATUS.  
 86-A REMOTE PORT MUST BE DESIGNATED WHEN ALTERNATE ROUTING INFORMATION IS SPECIFIED.  
 87-YOU CANNOT ASSIGN CHARACTERISTICS TO AN UNRESERVED PORT. USE PROC 257 WORD 5 TO RESERVE THE PORT.  
 NOTES:  
 1. FIELD 2 IS DASHED UNLESS THE PORT IS ASSIGNED TO THE ALTERNATE ROUTING NETWORK CHANNEL.

ALTERNATE ROUTING

DISPLAY ONLY

DISP ONLY

WORD 2

LOCAL PORT

REMOTE PORT

DESTINATION ROUTING CODE

POSTAGE

PORT ASSIGNED TO NTWK CHL  
5

PRIORITY  
6

ALTERNATE ROUTING FLAG  
7

TABLE INDICATOR  
8

TRANSLATION EQUIVALENCE  
9

DCIU PORT CHAR

**257**

1

2

3

4

FIELD LIMITS:

FIELD 1: 1-64

FIELD 2:

1 = 11 AP 16

1 = 11 3B5 AP

1 = 10 AUDIX

1 = 20 SYSTEM 75

1 = 20 SYSTEM 85, RELEASE 1

1 = 64 SYSTEM 85, RELEASE 2

1 = 20 ENHANCED DIMENSION

1 = 11 3B2

FIELD 3: -, 1-255

FIELD 4: -, 2-255

FIELD 5:

0 = NO

1 = YES

FIELD 6:

0 = LOW

1 = HIGH

FIELD 7:

0 = PORT NOT ASSIGNED (DASH FIELDS 3-4)

1 = PORT ASSIGNED (FIELDS 3-4 REQUIRED)

FIELD 8:

-, 0 = DISPLAY SCRATCH-PAD TABLE VALUES FOR THE PORT

1 = DISPLAY MACHINE-USED TABLE VALUES FOR THE PORT

FIELD 9:

0 = SCRATCH-PAD AND MACHINE-USED VALUES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED VALUES AGREE

WORD 2A

DCIU  
PORT  
CHAR

257

FLIPCHART  
ISSUE 9

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**DCIU TRUNK GROUP & DCS NODE ASSIGNMENT**

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INPUT FIELDS:

DISPLAY: 1 OR 2 OR 3 (4 OPTIONAL)  
ADD: 1-3  
REMOVE: 1-4  
CHANGE: NOT ALLOWED  
NEXT DATA: SEE NOTE 1

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, THAT ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
81-YOU CANNOT DO AN ADD OR REMOVE ROUTINE ON THE MACHINE-USED TABLES.  
82-THE PORT HAS NOT BEEN ASSIGNED TO A NETWORK CHANNEL IN WORD 1.  
83-YOU CANNOT ASSIGN MORE THAN ONE DCS NODE TO A GIVEN LOCAL PORT.

84-YOU CANNOT ASSIGN A TRUNK GROUP OR DCS NODE TO A NON-DCS PORT.  
85-YOU CANNOT ASSIGN CHARACTERISTICS TO AN UNRESERVED PORT. USE PROC 257 WORD 5 TO RESERVE THE PORT.

WORD 3	LOCAL PORT	TRUNK GROUP NUMBER	REMOTE DCS NODE	TABLE INDICATOR	DISP ONLY	DCIU TG & DCS NODES
					TRANSLATION EQUIVALENCE	
	1	2	3	4	5	<b>257</b>

NOTES:

1. IF THE LOCAL PORT IS ENTERED, NEXT DATA DISPLAYS ALL TRUNK GROUPS ASSOCIATED WITH THE PORT. IF THE TRUNK GROUP IS ENTERED, NEXT DATA DISPLAYS ALL LOCAL PORTS AND NODES ASSOCIATED WITH THE TRUNK GROUP. IF THE DCS NODE IS ENTERED, NEXT DATA DISPLAYS ALL THE PORTS AND TRUNK GROUPS ASSOCIATED WITH THE DCS NODE.

FIELD LIMITS:

FIELD 1: 1-64

FIELD 2: -, 18-255 TRUNK GROUP MUST TERMINATE AT DCS NODE OF FIELD 3 OR BE SET TO DASH

FIELD 3: 1-63

FIELD 4: FOR DISPLAY OPERATION ONLY

-, 0 = DISPLAY SCRATCH-PAD TABLE VALUES

1 = DISPLAY MACHINE-USED TABLE VALUES

FIELD 5:

0 = SCRATCH-PAD AND MACHINE-USED TABLES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED TABLES AGREE

WORD 3A

DCIU TG &  
DCS NODES

257

FLIPCHART  
ISSUE 9

+

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DCIU ALTERNATE ROUTING

+

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845552223

INPUT FIELDS:

DISPLAY: 1 (10 OPTIONAL)  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 2-9  
 NEXT DATA: DISPLAYS ALL DESTINATION ROUTING CODES

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE-USED TABLES.  
 82-THE LOGICAL CHANNEL MUST BE SET TO 0 WHEN THE LOCAL SWITCH IS THE DESTINATION.  
 83-ONLY ROUTE 1 MAY BE SPECIFIED WHEN THE LOCAL SWITCH IS THE DESTINATION.

NOTES:

1. THE DESTINATION ROUTING CODE IS INSERTED INTO A HEADER FIELD OF AN ALTERNATE ROUTED PACKET. AT EACH TRAVERSED NODE OF THE DCS NETWORK THE CODE IS EXAMINED AND THE NEXT PATH IS CHOSEN FROM ROUTES 1, 2, OR 3 DEPENDING ON THE ALGORITHM ALSO ENCODED IN THE HEADER. THE ENTRIES AT A GIVEN DESTINATION ROUTING CODE AT EVERY DCIU IN THE ALTERNATE ROUTING NETWORK DEFINE A DESTINATION MAP (1-255).  
 2. IF FIELD 4 IS SET TO 0, PUT A 0 IN FIELD 5 AND LEAVE FIELDS 6-9 DASHED.

WORD 4	DESTINATION ROUTING CODE	ROUTING ALGORITHM	NUMBER OF ROUTES	ROUTE 1		ROUTE 2		ROUTE 3		TABLE INDICATOR	DISP ONLY TRANSLATION EQUIVALENCE	DCIU ALTERNATE RTNG
				LINK	LOGICAL CHANNEL	LINK	LOGICAL CHANNEL	LINK	LOGICAL CHANNEL			
	1	2	3	4	5	6	7	8	9	10	11	257

FIELD LIMITS:

FIELD 1: 1-255

FIELD 2:

0 = FIXED ROUTING

1 = ROUTING ON FAILURE

FIELD 3:

0 = FIELDS 4-9 MUST BE DASHED

1 = INPUT EXPECTED IN FIELDS 4-5

2 = INPUT EXPECTED IN FIELDS 4-7

3 = INPUT EXPECTED IN FIELDS 4-9

FIELDS 4, 6, 8,:

- = NOT ASSIGNED

0 = LOCAL SWITCH LOGICAL LINK

1-8 = PHYSICAL LINK

FIELDS 5, 7, 9: -, 0-64

FIELD 10:

-, 0 = DISPLAY SCRATCH-PAD TABLE VALUES

1 = DISPLAY MACHINE-USED TABLE VALUES

FIELD 11:

0 = SCRATCH-PAD AND MACHINE-USED TABLES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED TABLES AGREE

WORD 4A

DCIU  
ALTERNATE  
RTNG

257

. . . . .

FLIPCHART  
ISSUE 9

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DCIU PORT RESERVATION

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 2-3  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-3  
 NEXT DATA: 1 OR 2-3, SEE NOTE 1

SPECIAL ERROR CODES:

80-DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
 81-YOU CANNOT DO A CHANGE ROUTINE ON THE MACHINE-USED TABLES.  
 82-ALL PORTS ARE RESERVED.  
 83-THIS PORT CANNOT BE RESERVED FOR THIS APPLICATION TYPE/ INSTANCE NUMBER.  
 84-USE THE PROC 257 WORD 2, REMOVE ROUTINE TO CLEAR PORT CHARACTERISTICS BEFORE CHANGING THE RESERVATION OF A PORT.

85-USE THE PROC 257 WORD 3, REMOVE ROUTINE TO CLEAR TRUNK GROUP AND DCS —NODE ASSIGNMENTS BEFORE CHANGING THE RESERVATION OF A PORT.  
 86-APPLICATION TYPE/INSTANCE NUMBER IS ALREADY RESERVED ON ANOTHER PORT.  
 87-USE THE PROC 257 WORD 6 REMOVE ROUTINE TO CLEAR ENHANCED SERVICES PORT ROUTING INFORMATION BEFORE CHANGING THE RESERVATION OF A PORT.

WORD 5	APPLICATION			DISPLAY ONLY					DISP ONLY	DCIU PORT RESERV	
	PORT NUMBER	TYPE	INSTANCE NUMBER	ASSIGN	LINK	DESTINATION MACHINE TYPE	DESTINATION MACHINE NUMBER	DESTINATION ROUTING CODE	TABLE INDICATOR		TRANSLATION EQUIVALENCE
	1	2	3	4	5	6	7	8	9	10	257

SPECIAL ERROR CODES CONTINUED:

88-YOU ARE EXCEEDING ONE OF THE FOLLOWING LIMITS: ONLY 63 DCS PORTS CAN BE RESERVED; ONLY 8 AUDIX PORTS CAN BE RESERVED; ONLY 40 ENHANCED SERVICES PORTS CAN BE RESERVED.

NOTES:

1. IF PORT IS SPECIFIED, PORT ASSIGNMENTS ARE DISPLAYED. IF APPLICATION TYPE IS SPECIFIED, THE INSTANCE NUMBER IS DISPLAYED. IF NOTHING IS SPECIFIED, PORT ASSIGNMENTS ARE DISPLAYED.

FIELD LIMITS:

FIELD 1: -, 1-64

FIELDS 2 & 3:

APPLICATION INSTANCE NUMBER

UNRESERVED	0	DASH
AP CLOCK SYNCHRONIZATION (CLK)	2	DASH, 1-7
MESSAGE CENTER SERVICE (MCS)	3	DASH, 1-7
LEAVE WORD CALLING, HIGH PRIORITY (LWCH)	4	DASH, 1-7
LEAVE WORD CALLING, LOW PRIORITY (LWCL)	5	DASH, 1-7
AUTOMATIC MESSAGE WAITING LAMP (AMWL)	6	DASH, 1-7
TRAFFIC (TRAF)	7	DASH, 1
STATION MESSAGE DETAILED RECORDING (SMDR)	8	DASH, 1
DISTRIBUTED COMMUNICATION SYSTEM (DCS)	9	DASH, 1-63*
DIP/DCIU TEST (TEST)	10	DASH, 1-2
CALL MANAGEMENT SYSTEM (CMS)	11	DASH, 1
ENHANCED SERVICE (ES)	12	DASH, 1-63*
AUDIX	13	DASH, 1-8*

\*THESE LIMITS ARE PROVIDED FOR FLEXIBILITY IN THE USE OF INSTANCE NUMBER. HOWEVER, A MAXIMUM OF 63 DCS, AND 40ES, PORTS CAN BE RESERVED.  
\*FOR AUDIX PORTS, THE INSTANCE NUMBER USED MUST BE THE SAME AS THE AUDIX MACHINE NUMBER.

WORD 5A

DCIU  
PORT  
RESERV

257

FIELD LIMITS CONTINUED:

FIELD 4:

- = NOT RESERVED
- 0 = NOT ASSIGNED TO NETWORK CHANNEL
- 1 = ASSIGNED TO NETWORK CHANNEL

FIELD 5: 1-8

FIELD 6:

- 1 = AP 16
- 2 = 3B5 AP
- 3 = AUDIX
- 4 = SYSTEM 75
- 5 = SYSTEM 85, RELEASE 1
- 6 = SYSTEM 85, RELEASE 2
- 7 = ENHANCED DIMENSION SWITCH (DCS)
- 8 = 3B2

FIELD 7:

- 1-7 = AP'S
- 1-63 = DCS MACHINE
- 1-8 = AUDIX

FIELD 8: 1-255

FIELD 9:

- , 0 = DISPLAY SCRATCH-PAD TABLE VALUES FOR PORT
- 1 = DISPLAY MACHINE-USED TABLE VALUES FOR PORT

FIELD 10:

- 0 = SCRATCH-PAD AND MACHINE-USED VALUES DIFFER
- 1 = SCRATCH-PAD AND MACHINE-USED VALUE AGREE

WORD 5B

DCIU  
PORT  
RESERV

257

RESERVED PORTS BY APPLICATION TYPE

INSTANCE NUMBER	1	2	3	4	5	6	7
APPLICATION	PORT						
2 (CLK)	8	9	14	19	37	45	53
3 (MCS)	1	10	15	30	38	46	54
4 (LWCH)	2	11	16	31	39	47	55
5 (LWCL)	3	12	17	32	40	48	56
6 (AMWL)	4	13	18	33	41	49	57
7 (TRAF)	5						
8 (SMDR)	7						
11 (CMS)	64						

WORD 5C

ASSIGNING THE PORT IN FIELD 4:

	FIELD 5	FIELD 6	FIELD 7	FIELD 8
ALTERNATE ROUTED PORT	-	-	-	1-255
NON-ALTERNATE ROUTED PORT	1-8	1-8	1-63	-

DCIU  
PORT  
RESERV

257

FLIPCHART  
ISSUE 9

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**DCIU ENHANCED SERVICES PORTS**

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**INPUT FIELDS:**

DISPLAY: 1 OR 2 AND 3  
ADD: 1-3  
REMOVE: 1-4  
CHANGE: NOT ALLOWED  
NEXT DATA: SEE NOTE 1

**SPECIAL ERROR CODES:**

80-YOU CANNOT CHANGE DCIU TRANSLATIONS IN THE SCRATCH-PAD TABLES, WHICH ARE CURRENTLY PROTECTED (SEE PROC 258 WORD 1).  
81-YOU CANNOT DO A REMOVE OR ADD ROUTINE ON THE MACHINE USED TABLES.  
82-THE NETWORK ADJUNCT NUMBER IS ASSIGNED TO ANOTHER PORT.  
83-THE ENHANCED SERVICES PORT MUST BE RESERVED IN PROC 257 WORD 5 BEFORE USING THIS WORD.

**NOTES:**

1. IF FIELD 1 IS ENTERED, THE NETWORK ADJUNCT CLASS AND THE NETWORK ADJUNCT NUMBER ARE DISPLAYED. IF FIELDS 2 AND 3 ARE ENTERED, THE ENHANCED SERVICES PORT IS DELAYED.

WORD 6	ENHANCED SERVICES PORT	NETWORK ADJUNCT CLASS	NETWORK ADJUNCT NUMBER	TABLE INDICATOR		DCIU ENHANCED PORTS
				DISP ONLY	XLN EQUIV	
	1	2	3	4	5	<b>257</b>

FIELD LIMITS:

FIELD 1: 1-64

FIELD 2:

1 = AP

2 = AUDIX

3 = DCS

FIELD 3: 1-99

FIELD 4: FOR DISPLAY OPERATION ONLY

- , 0 = DISPLAY SCRATCH-PAD TABLE VALUES

1 = DISPLAY MACHINE-USED TABLE VALUES

FIELD 5:

0 = SCRATCH-PAD AND MACHINE-USED TABLES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED TABLES AGREE

WORD 6A

DCIU  
ENHANCED  
PORTS

257

FLIPCHART  
ISSUE 9

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REBOOT DCIU

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84552223

INPUT FIELDS:

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1 (SEE NOTE 4)  
 NEXT DATA: NOT ALLOWED

CAUTIONS:

WHEN FIELD 3 HAS A 1 FOLLOWING A DISPLAY ROUTINE, ENTERING A 1 IN FIELD 1 AND DOING A SUBSEQUENT CHANGE ROUTINE INITIALIZES ALL 64 PORTS CAUSING ALL UNPROCESSED MESSAGES TO BE LOST.

SPECIAL ERROR CODES:

81-THE SCRATCH-PAD TABLES AND THE MACHINE-USED TABLES HAVE BEEN SWAPPED, BUT THE DCIU REBOOT FAILED.

WORD 1	REBOOT DCIU	DISPLAY ONLY								REBOOT DCIU	
		TRANSLATION EQUIVALENCE									
		CONFIGURATION	RESERVATION CHANGE	LNK	NETWORK CHANNEL	PORT	DCS	ALTERNATE ROUTE	RESERVATION		ENHANCED SERVICES
1		2	3	4	5	6	7	8	9	10	258

NOTES:

1. SWAPPING CONFIGURATIONS.

THE CHANGE OPERATION SWAPS SCRATCH-PAD AND MACHINE-USED CONFIGURATIONS. AFTER MAKING DCIU TRANSLATION CHANGES WITH PROC 256 WORDS 1-3 AND PROC 257 WORDS 1-6, SET THE REBOOT FIELD TO 1 TO MOVE THE NEW CONFIGURATION IN THE SCRATCH-PAD TO THE MACHINE-USED TABLES. THE OLD CONFIGURATION WILL BE MOVED TO THE SCRATCH-PAD AND WILL BE PROTECTED FROM ANY ATTEMPT TO ALTER ITS VALUES USING PROC 256 AND PROC 257. THUS, THE OLD CONFIGURATION MAY BE RESTORED TO THE MACHINE-USED TABLES INTACT SHOULD THE NEW CONFIGURATION BE INCORRECT. THE TWO CONFIGURATIONS MAY BE SWAPPED INDEFINITELY BY SETTING THE REBOOT FIELD TO 1.

2. KEEPING TRACK OF CONFIGURATIONS.

FIELD 2 WILL BE SET TO 0 BY A DISPLAY ROUTINE WHEN THE SCRATCH-PAD TABLES CONTAIN THE NEW CONFIGURATION. FIELD 2 WILL BE SET TO 1 BY A DISPLAY ROUTINE WHEN THE SCRATCH-PAD TABLES CONTAIN THE OLD CONFIGURATION. FIELD 2 ALLOWS THE ADMINISTRATOR TO KEEP TRACK OF WHERE EACH CONFIGURATION RESIDES AT ALL TIMES.

3. PROTECTION OF OLD CONFIGURATION.

WHEN THE OLD CONFIGURATION RESIDES IN THE SCRATCH-PAD, IT IS PROTECTED FROM ANY ATTEMPT TO ALTER ITS VALUES USING PROC 256 AND PROC 257. ADDITIONAL WORK MAY BE DONE ON THE NEW CONFIGURATION BY FIRST PERFORMING A SWAP/CHANGE ROUTINE (SEE

NOTE 1). IF CHANGES ARE TO BE MADE FOR A NEW DCIU CONFIGURATION, USE PROC 258 WORD 2 TO RELEASE THE PROTECTION PLACED UPON THE OLD CONFIGURATION IN THE SCRATCH-PAD TABLES. (NOTE: THE OLD CONFIGURATION IS IRREVOCABLY DESTROYED.)

FIELD LIMITS:

FIELD 1:

- = NO REBOOT BEING DONE
- 1 = REBOOT DCIU

FIELD 2:

- 0 = NEW TRANSLATION IN THE SCRATCH-PAD TABLES IS UNPROTECTED
- 1 = OLD TRANSLATION IN THE SCRATCH-PAD TABLES IS PROTECTED

FIELD 3:

- 0 = NO CHANGE
- 1 = HAS BEEN CHANGED

FIELDS 4-10:

- 0 = SCRATCH-PAD AND MACHINE-USED TABLES DIFFER
- 1 = SCRATCH-PAD AND MACHINE-USED TABLES AGREE

WORD 1A

REBOOT DCIU

258



FIELD LIMITS:

FIELD 1: -, 1

FIELD 2:

0 = NEW TRANSLATION IN THE SCRATCH-PAD TABLES IS UNPROTECTED

1 = OLD TRANSLATION IN THE SCRATCH-PAD TABLES IS PROTECTED

FIELD 3:

0 = NO CHANGE

1 = HAS BEEN CHANGED

FIELDS 4-10:

0 = SCRATCH-PAD AND MACHINE-USED TABLES DIFFER

1 = SCRATCH-PAD AND MACHINE-USED TABLES AGREE

WORD 2A

REFRESH DCIU  
SCR-PAD

258

FLIPCHART  
ISSUE 9

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**DS1/ISDN AND RGIC CIRCUIT PACK ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-4  
ADD: 1-17  
REMOVE: 1-17  
CHANGE: 5-13, 15-17  
NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

50-CANNOT CHANGE FIELD 14, MUST REMOVE/ADD.  
51-BIT INVERSION NOT ASSIGNABLE FOR ISDN/PRI WITH ZCS (ZERO CODE SUPPRESSION) LINE CODING AND 23 B PLUS D CHANNELS ASSIGNED.  
81-THE DS1 TRUNK CIRCUIT PACK MUST BE IN SLOT 5 OR 18.  
82-PORTS ARE STILL ASSIGNED TO DS1-SEE PROC 116.  
83-PORTS ON THIS BOARD ARE STILL ASSIGNED TO ANOTHER APPLICATION. SELECT ANOTHER EQUIPMENT LOCATION OR READMINISTER THIS BOARD.

84-THE DS1 CIRCUIT PACK IS NOT ASSIGNED TO THIS EQUIPMENT LOCATION.  
85-AVD TRUNKS ASSIGNED TO DS1 CANNOT CHANGE FROM 24TH CHANNEL SIGNALING TO ROBBED BIT SIGNALING.  
86-THE PRIMARY SCS REFERENCE IS ALREADY ASSIGNED.  
87-THE SECONDARY SCS REFERENCE IS ALREADY ASSIGNED.  
88-THE SCS PRIMARY REFERENCE MUST BE ASSIGNED BEFORE THE SECONDARY REFERENCE CAN BE ASSIGNED. THE SECONDARY REFERENCE MUST BE REMOVED BEFORE THE PRIMARY REFERENCE CAN BE REMOVED.

WORD 1	EQUIPMENT LOCATION				RESERVED	SIGNALING				SLIP ENABLE	EXTERNAL LOOP	SCS		APPLICATION	BIT INVERSION	LINK TYPE	SAFX	DISPLAY ONLY	DS1 & RCL
	MODULE	CABINET	CARRIER	SLOT		FRAMING	PCS/CCS	24C/RBS	ZCS/B&ZS			EQUIPMENT TYPE	REFERENCE					SCS INFORMATION	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	<b>260</b>

SPECIAL ECCOR CODES CONTINUED:

- 89-THE SCS CIRCUIT PACK IS NOT ASSIGNED IN PROC 250 WORD 1.
- 90-THIS EQUIPMENT LOCATION IS ASSIGNED AS THE PRIMARY SCS REFERENCE.
- 91-THIS EQUIPMENT LOCATION IS ASSIGNED AS THE SECONDARY SCS REFERENCE.
- 92-THE TRUNK IS ASSIGNED TO THE 24TH CHANNEL PORT, YOU CANNOT CHANGE FROM ROBBED BIT TO 24TH CHANNEL SIGNALING.
- 93-THE SCS REFERENCE CANNOT BE ASSIGNED TO A DS1 INTERFACE IN A REMOTED MODULE.
- 94-WRONG DATA, REFER TO TABLE.
- 95-THE DS1 LINE BOARD AND RCG BOARD MUST BE IN SLOT 0, 5, 13, OR 18.
- 96-PORTS ASSIGNED TO SLOTS 0-2 FOR CIRCUIT PACK IN SLOT 0; 5-7 FOR CIRCUIT PACK IN SLOT 5; 13-15 FOR CIRCUIT PACK IN SLOT 13; OR 18-20 FOR CIRCUIT PACK IN SLOT 18.
- 97-A DS1 LINE BOARD MUST HAVE ROBBED BIT SIGNALLING.

NOTES:

1. SPECIAL ACCESS SHOULD ONLY BE USED WHEN FOREIGN EXCHANGE SIGNALING AND HARDWARE TO SUPPORT IT ARE NOT AVAILABLE AND ONLY APPLIES TO GROUND START AND LOOP START TRUNKS AND OPS LINES. SPECIAL ACCESS SIGNALING SHOULD NOT BE CONFUSED WITH SPECIAL ACCESS TO 4ESS.

2. THE FOLLOWING CHART SHOWS THE LEGAL VALUES FOR FIELDS 6-17 BASED ON THE APPLICATION TYPE (FIELD 14).

FIELD	RANGES				
	0 =	1 =	2 =	3 =	5 =
14 (DS1 APPLICATION)	TRUNK	DMI-BCS	LINE	RGIC	ISDN/PR
6 (FORMAT)	0, 1	0, 1	0, 1	0, 1	0, 1
7 (PCS/CCS)	0	0	0	0	0
8 (24C/RBS)	0, 1	0	1	0	0
9 (ZCS/B&ZS)	0, 1	0, 1	0, 1	0, 1	0, 1
10 (SLIP ENABLE)	0, 1	0, 1	0, 1	0	0, 1
11 (EXT LOOP AROUND)	0, 1	0, 1	0, 1	0, 1	0, 1
12 (EQUIP TYPE)	0, 1	0	0	0	0, 1
13 (REFERENCE)	0, 1, 2	0	0	0	0, 1, 2
15 (BIT INVERSION)	-	-	-	-	0, 1
16 (TRANSMISSION TYPE)	0/1	0/1	0/1	0, 1	0, 1
17 (FX/SA)	0/1	-	0/1	-	-

WORD 1A

DS1 & RCL

FIELD LIMITS:

FIELD 1: 0-30

FIELD 2: 0-7

FIELD 3: 0-3

FIELD 4: 0, 5, 13, 18

FIELD 6:

0 = D4

1 = FE

FIELD 7:

0 = PCS

1 = CCS

FIELD 8:

0 = 24TH CHANNEL SIGNALING

1 = ROBBED BIT SIGNALING

FIELD 9:

0 = ZERO CODE SUPPRESSION

1 = B&ZS

FIELD 10:

0 = SLIP COUNT OFF

1 = SLIP COUNT ON

FIELD 11:

0 = DISABLED

1 = ENABLED

FIELD 12:

0 = NO SCS

1 = DS1/TI SCS

FIELD 13:

0 = NONE

1 = PRIMARY SOURCE

2 = SECONDARY SOURCE

FIELD 14:

0 = DS1 TRUNKS/LINES

1 = DMI-BOS TRUNKS

2 = DS1 24-OPS

3 = DS1 RCG

5 = ISDN/PRI, DMI-MOS

FIELD 15:

- = NOT APPLICABLE

0 = YES

1 = NO

FIELD 16:

- = NOT APPLICABLE

0 = COPPER (T1)

1 = FIBER

FIELD 17:

- = NOT APPLICABLE

0 = FIX

1 = SA

FIELD 18 (DISPLAYED FOR APPLICATION

TYPES 0 & 5 ONLY):

0 = SECONDARY SOURCE IN CABLE 0,

SECONDARY SOURCE IN CABLE 1

OR DS-1 BOARD IS REINITIALIZING

1, 3 = SECONDARY SOURCE IN CABLE 1

2 = PRIMARY SOURCE IN CABLE 0, SECONDARY

SOURCE IN CABLE 1

4, 12 = SECONDARY SOURCE IN CABLE 0

5, 7, 13, 15 = NO CABLES IN PLACE

6, 14 = PRIMARY SOURCE IN CABLE 0

8 = SECONDARY SOURCE IN CABLE 0, PRIMARY

SOURCE IN CABLE 1

9, 11 = PRIMARY SOURCE IN CABLE 1

10 = PRIMARY SOURCE IN CABLE 0, PRIMARY

SOURCE IN CABLE 1

99 = COULD NOT READ

INFORMATION FROM

DS-1 BOARD

WORD 1B

DS1 & RCL

260



FLIPCHART  
ISSUE 9

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**NETWORK ADJUNCT CHARACTERISTICS**

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845552223

INPUT FIELDS:

DISPLAY: 1 AND 2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 3  
NEXT DATA: DISPLAYS ALL NETWORK ADJUNCTS WITH  
EXTENSIONS ASSIGNED

SPECIAL ERROR CODES:

81-THIS EXTENSION IS ALREADY ASSIGNED TO ANOTHER ADJUNCT.

FIELD LIMITS:

FIELD 1:  
1 = AP  
2 = AUDIX  
FIELD 2: 1-99  
FIELD 3: 000-99999

WORD 2	NETWORK ADJUNCT CLASS	NETWORK ADJUNCT NUMBER	ADJUNCT EXTENSION	NETWORK ADJUNCT CHAR
	1	2	3	261

FLIPCHART  
ISSUE 9

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**ISDN BOARD PARAMETERS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-4  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 5-11  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-THIS IS NOT ASSIGNED AS AN ISDN/PRI APPLICATION IN PROC 260  
 WORD 1.  
**NOTES:**  
 1. THE ACTUAL INTERNAL RANGE FOR T200 IS 0-25.5 AND WILL BE  
 TRANSFORMED WHEN USED INTERNALLY.

**FIELD LIMITS:**

FIELD 1: 0-30  
 FIELD 2: 0-7  
 FIELD 3: 0-3  
 FIELD 4: 5, 18  
 FIELD 5:  
 0 = USER-SIDE  
 1 = NETWORK-SIDE

WORD 1	EQUIPMENT LOCATION				PRI PARAMETERS			LAYER 2 PRI TIMERS				ISDN BOARD PARAMETERS
	MODULE	CABINET	CARRIER	SLOT	INTERFACE TYPE	FACILITY TEST CODE	TERMINAL ENDPOINT IDENTIFIER	TIMER T203	TIMER T200	COUNTER N200	COUNTER K	
	1	2	3	4	5	6	7	8	9	10	11	262

FIELD LIMITS CONTINUED:

FIELD 6:

- 0 = NONE
- 1 = LAYER 2
- 2 = LAYER 3
- 3 = BOTH LAYER 2 AND 3

FIELD 7: 0-63, 128

FIELD 8: 0-255 (IN INCREMENTS OF 1 SECOND, DEFAULT IS 30)

FIELD 9: 0-255 (IN INCREMENTS OF 0.1 SECOND, DEFAULT IS 10)

FIELD 10: 1-10 (DEFAULT IS 3)

FIELD 11: 1-7 (DEFAULT IS 7)

WORD 1A

ISDN  
BOARD  
PARAMETERS

262

FLIPCHART  
ISSUE 9

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**SPEECH PROCESSING ADJUNCT ALARM SPECIFICATION**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-3  
CHANGE: 1-3  
REMOVE: 1-3  
NEXT DATA: DISPLAYS THE NEXT ALARM TYPE

NOTES:

1. FIELD 2 DOES NOT NEED TO BE THE SAME FOR BOTH ALARM TYPES.

FIELD LIMITS:

FIELD 1:  
1 = MAJOR ALARM ON THE COMMON CONTROL  
2 = MINOR ALARM ON THE COMMON CONTROL  
FIELD 2:  
63 = SPA CONSIDERED EXTERNAL EQUIPMENT  
64 = SPA CONSIDERED EXTERNAL PROCESSOR  
FIELD 3: 1-32

WORD 1

ALARM  
TYPE

UNIT  
TYPE

UNIT  
NUMBER

SPA ALARM  
SPECIFICATION

263

FLIPCHART  
ISSUE 9

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**TENANT SERVICES  
EXTENSION PARTITIONS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1, 2 OR 3  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1, 2 OR 3  
NEXT DATA: SEE NOTE 1

**SPECIAL ERROR CODES:**

81-ASSIGN A CONSOLE TO AN ATTENDANT PARTITION USING PROC 210  
WORD 2, BEFORE ASSIGNING IT HERE.

**NOTES:**

1. BEGINNING WITH AN EXTENSION PARTITION, NEXT DATA DISPLAYS  
EACH EXTENSION PARTITION. BEGINNING WITH AN ATTENDANT  
PARTITION IT DISPLAYS THE EXTENSION PARTITION SERVED BY THE  
ATTENDANT PARTITION, AND THE PARTITION GROUP ASSOCIATED TO  
THE ASSOCIATED EXTENSION PARTITION. BEGINNING WITH A

PARTITION GROUP ENTRY, IT DISPLAYS EACH EXTENSION PARTITION  
ASSOCIATED WITH THE PARTITION GROUP AND THE ATTENDANT  
PARTITION THAT SERVES THE EXTENSION PARTITION.

FIELD LIMITS:  
FIELD 1: 0-999  
FIELD 2: -, 0-40  
FIELD 3: -, 1-500

WORD 1

EXTENSION  
PARTITION

ATTENDANT  
PARTITION

PARTITION  
GROUP

EXTENSION  
PARTITIONS

270

FLIPCHART  
ISSUE 9

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**TENANT SERVICES  
PARTITION OVERFLOW/RESTRICTIONS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1  
 ADD: 1-4  
 REMOVE: 2-4  
 CHANGE: AFTER DISPLAY 2-4  
 NEXT DATA: DISPLAYS THE NEXT CONSOLE AND ATTENDANT CONTROL RESTRICTION GROUP ASSIGNED TO THE ATTENDANT PARTITION.

**SPECIAL ERROR CODES:**

81-ASSIGN A CONSOLE TO THIS ATTENDANT PARTITION IN PROC 210 WORD 2, BEFORE ASSIGNING AN OVERFLOW CONDITION.  
 82-ATTENDANT PARTITION 0 CANNOT BE ASSIGNED AN OVERFLOW, AND HAS ACCESS TO ALL RESTRICTION GROUPS.

**NOTES:**

1. FIELDS 4 AND 5 ARE NOT RELATED, AND ALL CONSOLES IN AN ATTENDANT PARTITION HAVE ACCESS TO THE DISPLAYED RESTRICTION GROUPS.

**FIELD LIMITS:**

FIELD 1: 0-40  
 FIELD 2:  
 - = UNASSIGNED  
 0-40 = ASSIGNED  
 FIELD 3:  
 - = NO OVERFLOW  
 1 = POSITION BUSY OR HEADSET REMOVED  
 2 = POSITION BUSY, HEADSET REMOVED OR ALL SWITCH LOOPS BUSY

**FIELD 4:**

- = UNASSIGNED  
 1-63 = ASSIGNED  
 FIELD 5: -, 1-40

WORD 2	ATTENDANT PARTITION	OVERFLOW DESTINATION		ATTENDANT CONTROL OF VOICE TERMINAL GROUP											DISPLAY ONLY	PART OVERFLOW & REST
		ATTENDANT PARTITION	OVERFLOW CONDITION		ATTENDANT CONSOLE											
	1	2	3	4											5	<b>270</b>

FLIPCHART  
ISSUE 9

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**TENANT SERVICES  
UNATTENDED CONSOLE ASSIGNMENTS**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1, 2  
REMOVE: NOT ALLOWED  
CHANGE: 1, 2  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THE DEFAULT EXTENSION MUST BELONG TO AN EXTENSION PARTITION THAT IS RELATED TO THE ENTERED ATTENDANT PARTITION.  
82-THE DEFAULT EXTENSION MUST BE A WORKING EXTENSION (NOT AN ASSOCIATED EXTENSION).  
83-NO CONSOLES BELONG TO THIS ATTENDANT PARTITION.

FIELD LIMITS:

FIELD 1: 0-40  
FIELD 2: -, 000-99999  
FIELD 3: -, 000-99999

WORD 3

ATTENDANT  
PARTITION

1

DEFAULT  
EXTENSION

2

DISPLAY ONLY

COMMON  
EXTENSION

3

UNATT  
CON  
ASG

**270**

FLIPCHART  
ISSUE 9

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**TENANT SERVICES**  
**LISTED DIRECTORY NUMBER ASSIGNMENTS**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-2  
NEXT DATA: SEE NOTE 1

SPECIAL ERROR CODES:

81-ASSIGN A LDN IN PROC 204 WORD 1 BEFORE ASSIGNING IT TO AN ATTENDANT PARTITION.

NOTES:

1. IF A LDN IS ENTERED. ALL LDN ASSIGNMENTS IN THE SYSTEM ARE DISPLAYED. IF A PARTITION IS ENTERED. ALL LDN'S FOR THE PARTITION ARE DISPLAYED.

FIELD LIMITS:

FIELD 1: -, 000-99999  
FIELD 2: 0-40

WORD 4

LISTED DIRECTORY  
NUMBER

ATTENDANT  
PARTITION

LDN  
ASSIGNMENTS

270

FLIPCHART  
ISSUE 9

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**TENANT SERVICES  
TRUNK GROUPS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 2  
 ADD: 1, 2, 4, 5  
 REMOVE: 1-2 AND 4-5  
 CHANGE: 2, 4, 5 AFTER DISPLAY ONLY  
 NEXT DATA: DISPLAYS EACH TRUNK GROUP OR  
 EXTENSION PARTITION NUMBER

**SPECIAL ERROR CODES:**

81-AN ATTENDANT PARTITION CANNOT BE ASSIGNED TO A 1-WAY  
 OUTGOING TRUNK GROUP.  
 82-ALWAYS ASSIGN AN ATTENDANT PARTITION TO A 1-WAY INCOMING OR  
 2-WAY TRUNK GROUP.  
 83-TRUNK GROUPS ASSOCIATED WITH EXTENSION PARTITION ZERO CANNOT  
 BE REMOVED.

**FIELD LIMITS:**

FIELD 1: -, 18-999  
 FIELD 2: -, 0-999  
 FIELD 3: -  
 FIELD 4:  
 0 = TRUNK GROUP IS NOT DEDICATED  
 1 = TRUNK GROUP IS DEDICATED  
 FIELD 5: -, 0-40  
 FIELD 6: 0-255  
 FIELD 7: -, 0-40

WORD 5	TRUNK GROUP	EXTENSION PARTITION	OUTGOING		INC. TRK. ONLY	DISPLAY ONLY		TRK GRPS
				DEDICATED	ATTENDANT PARTITION	TOTAL TRUNKS	OUTGOING ATTENDANT PARTITION	
	1	2	3	4	5	6	7	<b>270</b>

FLIPCHART  
ISSUE 9

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**SYSTEM COS - AIOD AND OTHER FEATURES**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-18  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODE:

87-USE PROC 650 TEST 2 TO BUSY-OUT THE DCIU.

NOTES:

1. ENTER LEADING ZEROS IN FIELD 2 IF SIGNIFICANT. FOR EXAMPLE, IF 04 WAS ENTERED, IT WOULD BE APPENDED TO A TWO-DIGIT NUMBER TO MAKE A VALID FOUR-DIGIT NUMBER (04XX).
2. DISABLING SYSTEM CALL WAITING IN FIELD 5 DISABLES BOTH ATTENDANT AND EXTENSION CALL WAITING. IF ONLY ATTENDANT CALL WAITING IS DESIRED, DISABLE EXTENSION CALL WAITING USING PROC 010 WORD 1.

FIELD LIMITS:

FIELD 1:

- = NOT USED
- 0 = DISABLED
- 1 = ENABLED

FIELD 2: -, 0-99

FIELD 3: -, 0-99 (IN 0.1 SECOND INCREMENTS)

FIELD 4: -, 0-9999

WORD 1	AIOD				CALL WAITING	MULTI APPEARANCE/ DATA MODULE	PAGING/CODE CALLING	.	DID/CCSA/ DIGITS	DUPLICATED	MUSIC ON HOLD	SMDR/CDR			TANDEM TIE TRUNK	TRK TO TRK CALLING	DCIU	CACHE MEMORY	SYS COS-AIOD & FEATURES
	STATUS	PREFIX DIGITS	ANI DELAY TIMING	AUXILIARY ANI BILLING NUMBER								STATUS	ACCOUNT CODE LENGTH	INCOMING/ OUTGOING CALLS					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	275

FIELD LIMITS CONTINUED:

FIELD 5:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 6:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 7:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED WITH AUDIBLE RINGBACK
- 2 = ENABLED WITH MUSIC

FIELD 9: -, 0, 3-5

FIELD 10:

- 0 = UNDUPLICATED COMMON CONTROL
- 1 = DUPLICATED COMMON CONTROL

FIELD 11:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 12:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED
- 2 = ENABLED AND ACCOUNT CODE REQUIRED FOR  
ARS CALLS

FIELD 13: -, 1-15

FIELD 14:

- = NO CALLS RECORDED
- 0 = OUTGOING CALLS RECORDED
- 1 = INCOMING AND OUTGOING CALLS RECORDED

FIELD 15:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 16:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 17:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 18:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

WORD 1A

AIOD  
& FEATURES

275

FLIPCHART  
ISSUE 9

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**SYSTEM COS - UNATTENDED CONSOLE  
& REMOTE ACCESS**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-8, 10  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

82-THE CAAVT GONG EQUIPMENT LOCATION (FIELDS 3-7) MUST BE DASHED IF CAAVT IS NOT ACTIVE. FIELDS 3-7 CANNOT BE DASHED IF CAAVT IS ACTIVE.  
83-THE DEFAULT EXTENSION (FIELD 8) MUST BE A WORKING PRIMARY EXTENSION (NOT AN ASSOCIATED EXTENSION OR VDN).  
84-YOU CANNOT ADMINISTER FIELD 8 WHEN TENANT SERVICES ARE ACTIVE. SEE PROC 270 WORD 3.

FIELD LIMITS:

FIELDS 1, 2, 10:  
- = NOT AVAILABLE  
0 = DISABLED  
1 = ENABLED  
FIELD 3: -, 0-30  
FIELD 4: -, 0-7  
FIELD 5: -, 0-3  
FIELD 6: -, 0-3, 5-8, 13-16, 18-21

FIELD 7: -, 0-7  
FIELD 8: -, 000-99999  
FIELD 9: 000-99999  
FIELD 11: 0000-9999

WORD 2	PRESELECTED CALL ROUTING	CAAVT STATUS	CAAVT GONG EQUIPMENT LOCATION					DEFAULT EXTENSION	DISPLAY ONLY			REMOTE ACCESS			SYS COS UNATND CNSL SRV
			MODULE	CABINET	CARRIER	SLOT	CKT					SHARED	DISPLAY ONLY		
													BARRIER CODE		
1	2	3	4	5	6	7	8	9	10			11	<b>275</b>		

FLIPCHART  
ISSUE 9

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**SYSTEM COS - MISCELLANEOUS**

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845552223

**INPUT FIELDS:**

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-14  
 NEXT DATA: NOT ALLOWED

**CAUTIONS:**

FAILURE TO PROVIDE A LOCAL SWITCH NUMBER (FIELD 8) MAY RESULT IN LOST MESSAGES WHEN USING DCS CENTRALIZED MESSAGING.  
**SPECIAL ERROR CODES:**  
 81-REMOVE EXTENSION TRANSLATION IN PROC 350 WORD 1.  
 82-WHEN A LOCAL SWITCH NUMBER IS PROVIDED, THE TYPE MUST BE SPECIFIED IN FIELD 7.  
 83-THE TYPE (FIELD 7) CANNOT BE SPECIFIED WITHOUT A LOCAL SWITCH NUMBER IN FIELD 8.

84-NUMBER PORTABILITY CAN BE SPECIFIED ONLY IF MULTI-PREMISE AND STANDARD NETWORK ARE SPECIFIED IN PROC 276 WORD 1 AND A 4 OR 5-DIGIT DIAL PLAN IS SPECIFIED IN PROC 350 WORD 1.  
 85-THE LOCAL SWITCH NUMBER IN FIELD 8 IS ALREADY ASSIGNED AS A NODE NUMBER; IT MUST FIRST BE REMOVED IN PROC 354.

WORD 3	TOLL CALL DATA		CALL COVERAGE		ABBRV DIAL		MULTI MACHINE NODES			CALL CONTROL FRL	DEMAND PRINT PASSWORD	SMDR DEFAULT VARIABLE TIMER	TERMINAL DIAL INFORMATION	SMDR CALLS BLOCKAGE			SYSTEM COS-MISCELLANEOUS	
	DIAL 1 FOR TOLL	HOME NPA	CALLER RESPONSE INTERVAL	COVERAGE POINT DON'T ANSWERS INTERVAL	SYSTEM LIST SIZE	SYSTEM LIST ACCESS	TYPE	SWITCH TYPE	CAS MAIN SWITCH NUMBER									
	1		2	3	4	5	6	7	8	9	10	11	12	13	14			<b>275</b>

FIELD LIMITS:

FIELD 1:

- 0 = NOT REQUIRED
- 1 = ALL 10-DIGIT CALLS USING ARS DAC
- 2 = ALL TOLL CALLS USING ARS DAC
- 3 = ALL 10-DIGIT CALLS USING AAR OR ARS DAC

FIELD 2: 0-999

FIELD 3:

- 0 = NO INTERVAL ASSIGNED
- 1-5 = NUMBER OF 2 SECOND INTERVALS

FIELD 4:

- 2-6 = RINGING CYCLES

FIELD 5:

- 1 = 1-9
- 2 = 01-99
- 3 = 001-999
- 4 = 0001-9999

FIELD 6:

- 0 = ACCESS IS ON PER TERMINAL BASIS
- 1 = ACCESS TO ALL USERS

FIELD 7:

- = NO DCS, NO NUMBER PORTABILITY
- 1 = DCS SWITCH NUMBER
- 2 = NUMBER PORTABILITY SWITCH
- 3 = BOTH DCS AND NUMBER PORTABILITY

FIELD 8: -, 1-999

FIELD 9:

- = NO DCS
- 0 = DCS, (NO CAS)
- 1-40 = CAS MAIN SWITCH NUMBER

FIELD 10: -, 0-7 (0 = LEAST RESTRICTIVE  
7 = MOST RESTRICTIVE)

FIELD 11:

- 0 = NOT REQUIRED
- 1 = REQUIRED

FIELD 12:

- = 6 SECONDS
- 1-99 = SECONDS

FIELD 13:

- 0 = NOTHING PRINTED
- 1 = PRINT INFO FOR TERMINAL DIALED CALLS

FIELD 14:

- 0 = ALL
- 1 = ATND CALLS ONLY
- 2 = NO CALLS BLOCKED

WORD 3A

SYSTEM COS-  
MISCELLANEOUS



FLIPCHART  
ISSUE 9

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**SYSTEM COS - MISCELLANEOUS**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-17  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

86-TIMED RECALL (FIELD 5) IS MEASURED IN EVEN-NUMBERED SECONDS, 0-98.  
 87-CMS MUST BE BUSIED OUT USING PROC 028 WORD 2 BEFORE DISABLING CMS HERE.  
 88-REMOVE ALL REMOTE ACCESS TRUNK GROUPS FROM PROC 100 BEFORE DISABLING THIS FEATURE.  
 89-REMOTE ACCESS CANNOT BE ENABLED. PLEASE CALL YOUR AT&T SALES REPRESENTATIVE.

NOTES:

1. FIELD 3 MUST BE 1 IF THIS IS A CAS BRANCH LOCATION.
2. FOR PRECEDENCE CALLING FIELD 7 SHOULD ALWAYS CONTAIN A 0 (FLASH OVERRIDE).
3. IF THIS SWITCH IS AN AUTOVON INTERFACE SWITCH, THEN FIELD 10 IS THE SAME AS FIELD 18.

WORD 4	CODE CALL DIGITS	DISABLE REMOTE ACCESS	TRUNK TRANSFER	ATTENDANT RELEASE LOOP		DEFAULT RECENT DISCONNECT INTERVAL	MAX PREEMPTION LEVEL		AUTOVON INTER-FACE SWITCH	ACD ABANDON CALL SEARCH	VECTOR HOLD	CMS STATUS	ISDN STATUS	ADMINISTRABLE ALARMS			DISPLAY ONLY	SYSTEM COS-MISCELLANEOUS	
				STATUS	TIMED RECALL TIMER		ALL INCOMING	OUTGOING						EVEN PORT PERIPHERALS	TRUNK SOFTWARE	AUXILIARY SOFTWARE			LOCAL SWITCH NUMBER
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	275

FIELD LIMITS:

FIELD 1:

- 0 = DISABLED
- 2 = 2-DIGIT CALLED PARTY CODE
- 3 = 3-DIGIT CALLED PARTY CODE

FIELD 2:

- 0=REMOTE ACCESS ENABLED
- 1=REMOTE ACCESS DISABLED

FIELDS 3, 4:

- 0 = DISABLED
- 1 = ENABLED

FIELD 5: 0-98 (EVEN NUMBERED SECONDS)

FIELD 6: 1-511 (DAYS)

FIELDS 7-9:

- = DISABLED
- 0 = FLASH OVERRIDE
- 1 = FLASH

- 2 = IMMEDIATE
- 3 = PRIORITY
- 4 = ROUTINE

FIELD 10: 1-40

FIELD 11:

- 0 = NOT EXECUTED ON CO DISCONNECT
- 1 = EXECUTED ON CO DISCONNECT

FIELD 12:

- 0 = NOT ALLOWED
- 1 = ALLOWED

FIELD 13:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELD 14:

- = NOT AVAILABLE
- 0 = DISABLED
- 1 = ENABLED

FIELDS 15:

- = NOT AVAILABLE
- 0 = ENABLED (DEFAULT)
- 1 = DISABLED
- 2 = TERMINAL ALARMING ENABLED

FIELDS 16, 17:

- = NOT AVAILABLE
- 0 = ENABLED (DEFAULT)
- 1 = DISABLED

FIELD 18: 1-999



NOTES:

1. WHEN FIELD 6 IS SET TO 0, THE TENANT SERVICE TRANSLATIONS ARE NOT REMOVED FROM THE SYSTEM, BUT THEY WILL NO LONGER BE ACCESSED.

FIELD LIMITS:

FIELDS 1-7:

0 = DISABLED

1 = ENABLED

FIELD 9:

0 = DISABLED

1 = ENABLED

FIELD 10:

0 = NOT ACTIVE

1 = ACTIVE

FIELD 11:

104 = TO REMOVE TRANSLATION FOR MULTIPREMISE

257 = TO REMOVE DCS FROM DCIU

275 = TO REMOVE DCS

305 = TO REMOVE PRECEDENCE CABLE TRUNKS

321 = TO REMOVE TRANSLATION FOR STANDARD NETWORK

WORD 1A

FEATURE  
GROUP COS

276

FLIPCHART  
ISSUE 9

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**ASSIGN AGENTS TO A SET**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-2  
REMOVE: 1-2  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL SET NUMBER  
ASSIGNMENTS

NOTES:

1. THE REMOVE ROUTINE REMOVES THE TIE BETWEEN THE SET AND THE AGENT. THIS REMOVES THE RESTRICTION TO THAT SET OF APPLICATIONS, PERMITTING FULL ACCESS BY ANY AGENT.
2. OSS AGENT ENCODES APPEAR ON THE MODE FLIPCHART.

FIELD LIMITS:

FIELD 1: 0-9  
FIELD 2: 0-255

WORD 1

SET

OSS  
AGENT

AGENT  
ASSIGNMENT

277

FLIPCHART  
ISSUE 9

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**ASSIGN APPLICATIONS TO A SET**

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84552223

**INPUT FIELDS:**

DISPLAY: 2-3  
ADD: 1-3  
REMOVE: 1-3  
NEXT DATA: 1-2, DISPLAYS ALL PROCEDURES OR  
SMAP APPLICATIONS ASSIGNED TO A  
SET.

**SPECIAL ERROR CODES:**

81-APPLICATION MAY NOT BE RESTRICTED.  
82-APPLICATION IS ALREADY ASSIGNED TO THIS SET.  
83-APPLICATION IS ALREADY ASSIGNED TO ANOTHER SET.

**FIELD LIMITS:**

FIELD 1: 0-9  
FIELD 2:  
0 = PROCEDURE  
1 = SMAP ADMINISTRATION  
2 = SMAP DATA COLLECTION

**FIELD 3: 0-499**

IF FIELD 2 = 1 (RESTRICTED SMAP-ADMINISTRATION)  
1 = UNUSED  
2 = RECURSIVE PROCEDURE EXECUTION (INITIALIZATION)  
IF FIELD 2 = 2 (RESTRICTED SMAP-DATA COLLECTION NUMBER)  
1 = ATMS TRANSMISSION EXCEPTION MEASUREMENTS  
2 = ATMS MISCELLANEOUS EXCEPTION MEASUREMENTS  
3 = ATMS GROUP EXCEPTION MEASUREMENTS  
4 = ACA REFERRAL DATA

WORD 2

SET  
NUMBER

RESTRICTED  
APPLICATION  
TYPE

PROC  
OR  
SMAP  
APPLICATION

1

2

3

**ASSIGN  
APPLICATIONS**

**277**



FIELDS LIMITS CONTINUED:

FIELD 6: OPERATION

- 1 = REMOVE
- 2 = ADD
- 3 = CHANGE

FIELD 7:

- 1-12 = CHANGE WAS MADE
- 99 = CLOCK IS INVALID

FIELD 8:

- 1-31 = DAY OF THE MONTH CHANGE WAS MADE
- 99 = CLOCK IS INVALID

FIELD 9:

- 0-23 = HOUR OF THE DAY CHANGE WAS MADE
- 99 = CLOCK IS INVALID

FIELD 10:

- 0-59 = MINUTE OF THE HOUR CHANGE WAS MADE
- 99 = CLOCK IS INVALID

FIELD 11: 0-255

WORD 3A

HISTORY

277



**AUTHORIZATION CODE ALGORITHM**



**INPUT FIELDS:**

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: ONLY WHEN THERE ARE NO AUTHORIZATION CODES ADMINISTERED IN THE SYSTEM.  
 NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-A CHANGE ROUTINE IS ALLOWED WHEN NO AUTHORIZATION CODES ARE ADMINISTERED.  
 82-EACH DIGIT TO BE REMOVED MUST BE A DIFFERENT NUMBER.  
**NOTES:**  
 1. IF AUTHORIZATION CODES ARE NOT RANDOMLY SELECTED, FIELDS 2-4 SHOULD BE SET TO THE DIGIT POSITIONS WHICH CHANGE LEAST OFTEN. THE DIGIT POSITIONS ARE NUMBERED LEFT TO RIGHT 7 TO 1.

2. THE FOLLOWING CHART SHOWS THE LEGAL VALUES FOR FIELDS 2-4 BASED ON THE NUMBER OF DIGITS (FIELD 1).

FIELDS				
	1	2	3	4
VALID DATA	4	-	-	-
	5	1-5	-	-
	6	1-6	1-6	-
	7	1-7	1-7	1-7

WORD 1	DIGITS IN AUTHORIZATION CODE	DIGITS TO REMOVE			AUTH CODE ALGORITHM
		DIGIT 1	DIGIT 2	DIGIT 3	
1	2	3	4		281

FLIPCHART  
ISSUE 9

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**AUTHORIZATION CODE PARAMETERS**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-4  
REMOVE: 1  
CHANGE: 2-4  
NEXT DATA: SHOWS AUTHORIZATION CODES IN THE  
ORDER THEY WERE ADMINISTERED

SPECIAL ERROR CODES:

81-ENTER A VALID AUTHORIZATION CODE.  
82-THIS AUTHORIZATION CODE IS ALREADY IN THE SYSTEM. USE THE  
CHANGE ROUTINE TO CHANGE THE FRL, NETWORK ACCESS FLAG, OR  
PARTITION NUMBER.  
83-THE MAXIMUM OF 90,000 AUTHORIZATION CODES HAS BEEN REACHED.  
NO MORE CAN BE ADMINISTERED.  
84-THE FIRST DIGIT OF THE AUTHORIZATION CODE CANNOT BE A ONE.

FIELD LIMITS:

FIELD 1: 0000-99999999  
FIELD 2: 0-7 (0 IS MOST RESTRICTIVE, 7 IS LEAST)  
FIELD 3:  
0 = ON-NET ACCESS TO OFF-NET USERS NOT ALLOWED  
1 = ON-NET ACCESS TO OFF-NET USERS ALLOWED  
FIELD 4: 0-999

WORD 1

AUTHORIZATION CODE

FACILITY  
RESTRICTION  
LEVEL

NETWORK  
ACCESS FLAG

EXTENSION  
PARTITION

AUTHORIZATION  
CODE

282

FLIPCHART  
ISSUE 9

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NUMBER OF AUTHORIZATION CODES

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

NOTES:

1. THIS IS A DISPLAY ONLY PROCEDURE.

FIELD LIMITS:

FIELD 1: 0-90000

WORD 2

AUTHORIZATION  
CODES  
ASSIGNED

1

AUTHORIZATION  
CODE-NO

282

FLIPCHART  
ISSUE 9

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**FACILITY RESTRICTION LEVEL  
RELATED SEARCHES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 AND 2  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS NEXT EXTENSION, TRUNK  
 GROUP, OR AUTHORIZATION CODE  
 ASSIGNED TO THE SPECIFIED FRL.

**NOTES:**

1. ONLY FIELDS ASSOCIATED WITH THE TYPE OF SEARCH WILL DISPLAY  
 DATA. FIELDS 4-8 DISPLAY ON TYPE 1 ONLY FOR SINGLE  
 APPEARANCE TERMINALS.  
 FIELD LIMITS:  
 FIELD 1: 0-7 (0 IS MOST RESTRICTIVE, 7 IS LEAST)  
 FIELD 2:  
 1 = SEARCH FOR EXTENSION  
 2 = SEARCH FOR TRUNK GROUP  
 3 = SEARCH FOR AUTHORIZATION CODE

FIELD 3: -, 000-99999  
 FIELD 4: 0-3  
 FIELD 5: 0-7  
 FIELD 6: 0-3  
 FIELD 7: 0-3, 5-8, 13-16, 18-21  
 FIELD 8: 0-7  
 FIELD 9: -, 18-999  
 FIELD 10: -, 0000-9999999

WORD 1	SEARCH		TERMINAL EQUIPMENT LOCATION					TRUNK GROUP	AUTHORIZATION CODE	FRL RELATED SEARCHES	
	FACILITY RESTRICTION LEVEL	TYPE	MODULE	CABINET	CARRIER	SLOT	CIRCUIT				
	1	2	3	4	5	6	7	8	9	10	283



FLIPCHART  
ISSUE 9

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**SYSTEM COS - NETWORK**

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84552223

INPUT FIELDS:

DISPLAY: NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: 1-12 SEE NOTES 2 & 3  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-FIELDS 6 AND 7 MUST NOT BE THE SAME UNLESS BOTH ARE ZERO. A ZERO ENTERED IN FIELD 6 OR 7 INDICATES NO ACCOUNT CODE PREFIX OR RESERVED DIGIT. FIELD 6 OR 7 MUST NOT BE THE SAME AS THE FIRST DIGIT OF ANY LOCATION CODE (SEE PROC 321 WORD 4).  
 82-REMOVE REMOTE ACCESS TRUNK GROUP TERMINATION IN PROC 115 WORD 1 BEFORE CHANGING FROM SPEAKER VERIFICATION.

NOTES:

1. CHANGES MADE IN THIS PROCEDURE AFFECT THE TOTAL NETWORK.
2. THE EXTENSIONS IN FIELDS 8 AND 9 MUST BE ASSIGNED IN PROC 000 WORD 1 BEFORE ENTRY.
3. WHEN THE COS TRANSLATION IS DISPLAYED, DASHES APPEAR IN FIELDS ASSOCIATED WITH FEATURES THAT ARE NOT ACTIVE ON THIS SYSTEM. IN DOING A CHANGE ROUTINE, ONLY DASHES ARE PERMITTED IN THESE FIELDS.

REMOTE ACCESS CODE REQUIRED	NETWORK UNIFORM NUMBER PLAN		ACA ENABLE	SYMMETRICAL ROUTING DEPTH	ACCOUNT CODE PREFIX	RESERVED DIGIT	EXTENSION FOR TRUNK VERIFICATION	REMOTE MAINTENANCE EXTENSION	ARS/AAR AUTH CODE ENABLED	IXC ACCESS CODE	AAR DIAL TONE SUPPRESSED	SYSTEM COS NETWORK
	LOCATION CODE DIGITS	EXTENSION DIGITS										
1	2	3	4	5	6	7	8	9	10	11	12	285

FIELD LIMITS:

FIELD 1:

- 0 = NO BARRIER CODE REQUIRED
- 1 = BARRIER CODE REQUIRED
- 2 = AAR/ARS AUTHORIZATION CODE REQUIRED
- 3 = SPEAKER VERIFICATION REQUIRED

FIELD 2: -, 0, 2-3

FIELD 3: -, 0, 2-4

FIELD 4:

- 0 = DISABLED FOR ALL TRUNK GROUPS
- 1 = ENABLED FOR ALL VALID TRUNK GROUPS

FIELD 5:

- 0 = HIERARCHICAL ROUTING
- 1-9 = SYMMETRICAL ROUTING PATTERN DEPTH

FIELD 6: -, 0, 2-9

FIELD 7:

- 0 = NO DIGIT
- 2-9 = FOR AAR ACCESS

FIELD 8: -, 000-99999

FIELD 9: -, 000-99999

FIELD 10:

- 0 = DISABLED
- 1 = ENABLED

FIELD 11:

- 0 = 5- AND 7-DIGIT IXC(S)
- 1 = ALL IXC(S) ARE 7 DIGITS

FIELD 12:

- 0 = NOT SUPPRESSED
- 1 = SUPPRESSED (AUTOVON)

WORD 1A

1

SYSTEM COS  
NETWORK

285



- FIELD 1:  
 0 = NOT ACTIVE ON ANY TRUNK GROUP  
 1 = ACTIVE ON ALL APPROPRIATE TRUNK GROUPS
- FIELD 2:  
 0 = FAILURES ARE NOT REFERRED TO ATTENDANT  
 1 = FAILURES ARE REFERRED TO LOCAL OR CAS ATTENDANT  
 2 = FAILURES ARE REFERRED TO A REMOTE SYSTEM
- FIELD 3:  
 - = NO ATTENDANT CONSOLE, OR REFERRED TO REMOTE SYSTEM  
 0 = REFERRALS ARE DIRECTED TO CAS MAIN SWITCH  
 1-40 = REFERRALS ARE DIRECTED TO A LOCAL SWITCH ATTENDANT

TYPE OF REFERRAL	FLD 2	FLD 3
NONE	0	DASH
LOCAL ATTENDANT	1	1-40
CAS ATTENDANT	1	0
REMOTE	2	DASH

- FIELD 4:  
 0 = DISABLED  
 1 = ENABLED
- FIELDS 5-12: 0-7 (0 IS LEAST RESTRICTIVE, 7 IS MOST).
- FIELD 13: 1-3
- FIELD 14:  
 0 = AUTOMATIC CONTROL OF ARS PLAN IN EFFECT  
 1 = MANUAL OR CLOCKED MANUAL OVERRIDE
- FIELD 15:  
 0 = NOT RECORDED BY SMDR  
 1 = RECORDED BY SMDR
- FIELD 16:  
 0 = INTERCEPT AFTER TIMEOUT  
 1 = LOCAL ATTENDANT AFTER TIMEOUT  
 2 = CAS ATTENDANT AFTER TIMEOUT

WORD 1A

CUST CHG  
SYS COS  
NETWORK

286

FLIPCHART  
ISSUE 9

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**ARS CLOCKED MANUAL OVERRIDE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: 1-4 AND/OR 5-7  
REMOVE: 1-7  
CHANGE: 1-4 AND/OR 5-7  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THE ADD ROUTINE CANNOT BE USED TO CHANGE AN EXISTING SETTING.  
82-THE CHANGE ROUTINE CANNOT BE USED TO ADD A NEW SETTING.  
83-THE REAL TIME CLOCK NEEDS TO BE RESET. SEE PROC 284 WORD 1.  
84-CLOCKED MANUAL OVERRIDE AND RETURN TO AUTOMATIC TIMES MUST BE DIFFERENT.  
85-SAME DAY TIMES MUST BE GREATER THAN THE CURRENT TIME.

NOTES:

1. FIELDS 8 & 9 ARE NOT AUTOMATICALLY UPDATED WHEN A CLOCKED SWITCH OCCURS.  
2. USE PROC 286 TO IMMEDIATELY OVERRIDE OR RETURN TO AUTO CONTROL.

CLOCKED MANUAL OVERRIDE

RETURN TO AUTOMATIC

DISP ONLY

ARS CLOCKED  
MAN OVERRIDE

DAY

HOURS

MINUTES

PLAN

DAY

HOURS

MINUTES

PLAN IN  
EFFECT

CONTROL  
MODE

**287**

1

2

3

4

5

6

7

8

9

FIELD LIMITS:

FIELDS 1 & 5:

- 1 = MONDAY
- 2 = TUESDAY
- 3 = WEDNESDAY
- 4 = THURSDAY
- 5 = FRIDAY
- 6 = SATURDAY
- 7 = SUNDAY

FIELDS 2 & 6: 0-23

FIELDS 3 & 7: 0, 15, 30, 45 ONLY

FIELDS 4 & 8: 1-3

FIELD 9:

- 0 = AUTOMATIC
- 1 = MANUAL
- 2 = CLOCKED MANUAL OVERRIDE

WORD 1A

ARS CLOCKED  
MAN OVERRIDE

287



FLIPCHART  
ISSUE 9

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**CALL DETAIL RECORDING -  
FORMAT OPTIONS**

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845552223

**INPUT FIELDS:**

DISPLAY: NONE  
ADD: 1-4  
REMOVE: 1-4  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

**SPECIAL ERROR CODES:**

81-TO ADD OR REMOVE DATA IN THIS WORD DISABLE SMDR/CDR IN PROC 275 WORD 1, FIELD 12.  
82-STANDARD FORMAT CAN ONLY BE USED WITH 15 OR 18 WORD RECORD LENGTHS AND OPCODES MUST BE PROVIDED (FIELD 2 = 1).  
83-REMOVE DATA IN WORD 2 BEFORE ADDING A STANDARD FORMAT IN THIS PROCEDURE.  
84-THE SMDR MESSAGE LENGTH CANNOT BE GREATER THAN THE CDR RECORD LENGTH.

85-AN 18-WORD CDR RECORD WITH OPCODES MUST BE ADMINISTERED WHEN "DIRECT OUTPUT-18 WORD FORMAT" IS ADMINISTERED IN PROC 255 WORD 2.

**NOTES:**

1. WHEN A STANDARD FORMAT IS REMOVED IN WORD 1 ALL DATA THAT CAN BE DISPLAYED IN WORD 2 IS REMOVED. WHEN A CUSTOM FORMAT IS REMOVED THE DATA IN WORD 2 IS NOT REMOVED AND CAN BE CHANGED FOR THE NEW FORMAT.

WORD 1

CDR  
RECORD  
LENGTH

1

OPCODES  
PROVIDED

2

FORMAT

3

SMDR  
MESSAGE  
LENGTH

4

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**CALL DETAIL  
FORMAT OPTS**

**288**

FIELD LIMITS:  
FIELD 1: 15-24 WORDS  
FIELD 2:  
0 = NOT PROVIDED  
1 = PROVIDED  
FIELD 3:  
0 = DEFAULT  
1 = CUSTOM  
FIELD 4: 15, 18 WORDS

WORD 1A

CALL DETAIL  
FORMAT OPTS

288

FLIPCHART  
ISSUE 9

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**CALL DETAIL RECORDING -  
FORMAT OPTIONS**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL ASSIGNED DATA ITEMS

SPECIAL ERROR CODES:

81-DISABLE SMDR/CDR USING PROC 275 WORD 1, FIELD 12 BEFORE USING THIS PROCEDURE.  
82-THE RECORD LENGTH MUST BE ASSIGNED IN WORD 1 FIRST.  
83-THE NUMBER OF CELLS (FIELD 3) EXCEEDS THE NUMBER OF CELLS AVAILABLE.  
84-CELL POSITIONS ARE ALREADY ASSIGNED FOR THIS ENCODE.  
85-WHEN OPCODES ARE PROVIDED (WORD 1, FIELD 2 = 1) THEN CELLS 1, 5, 9, (ETC. IN INCREMENTS OF 4 TO 93) CANNOT BE USED FOR

STARTING POSITIONS FOR DATA ITEMS AND ARE NOT COUNTED FOR ITEM LENGTH (FIELD 3).  
86-ENCODES 52-75 FOR STATUS MESSAGE DIAL ACCESS CODES MUST BE ENTERED IN CONSECUTIVE ORDER AND REMOVED IN REVERSE ORDER.  
87-WHEN STANDARD FORMAT IS SPECIFIED IN WORD 1, FIELD 3, THIS PROCEDURE CAN ONLY BE USED TO DISPLAY THE STANDARD FORMAT ENCODE DATA. ADD AND REMOVE ARE NOT ALLOWED FOR STANDARD FORMAT ENCODE DATA.

WORD 2

DATA  
ITEM  
ENCODE

1

STARTING  
CELL  
NUMBER

2

ITEM  
LENGTH

3

CALL DETAIL  
FORMAT OPTS

**288**

FIELD LIMITS:

FIELD 1:

ENCODE	DATA ITEM	ENCODE	DATA ITEM
	0 NOT USED	(2) 14	INCOMING CIRCUIT ID
(1) 1	CALL DURATION-HOURS	(2) 15	FEATURE FLAGS
(1) 2	CALL DURATION-MINUTES	(2) 16	OUTGOING CIRCUIT ID
(1) 3	CALL DURATION-TENTHS OF A MINUTE	(2) 17	OUT GOING CIRCUIT ID (HUNDREDS DIGIT)
(1) 4	CONDITION CODE	(2) 18	INCOMING CIRCUIT ID (HUNDREDS DIGIT)
(1) 5	TRUNK ACCESS CODE DIALED	(2) 19	INTEREXCHANGE CARRIER CODE/ISDN
(1) 6	TRUNK ACCESS CODE USED		NETWORK IDENTIFIER
(1) 7	DIALED NUMBER	20	TIME OF DAY-HOURS
(1) 8	CALLING NUMBER (*)	21	TIME OF DAY-MINUTES
(1) 9	ACCOUNT CODE (*)	22	DATE-MONTH
(1) 10	AUTHORIZATION CODE	23	DATE-DAY
(1) 11	TIME IN QUEUE	24	DATE-YEAR
(1) 12	FACILITY RESTRICTION LEVEL USED	(1) 25	INCOMING TRUNK DIAL ACCESS CODE (*)
(2) 13	10-THOUSANDTHS DIGIT OF-CALLING NUMBER	26	PRECEDENCE LEVEL DIGIT

- (1) ENCODES FOR 15 AND 18 WORD STANDARD FORMATS
- (2) ENCODES FOR 18 WORD STANDARD FORMAT
- (\*) DATA ENTRY IN RECORD LEFT JUSTIFIED

WORD 2A

CALL DETAIL  
FORMAT OPTS

288

FIELD LIMITS CONTINUED:

DATA ITEM ENCODES DEFINED FOR STANDARD AND CUSTOMIZED RECORDS.

ENCODE	DATA ITEM	ENCODE	DATA ITEM	ENCODE	DATA ITEM
27	ATTENDANT CONSOLE NUMBER	(1) 57	6TH DIAL ACCESS CODE	72	21ST DIAL ACCESS CODE
28	ISDN NETWORK SERVICE VALUE	(1) 58	7TH DIAL ACCESS CODE	73	22ND DIAL ACCESS CODE
29	EXTENSION PARTITION NUMBER	(1) 59	8TH DIAL ACCESS CODE	74	23RD DIAL ACCESS CODE
30	<u>NODE NUMBER</u>	60	<u>9TH DIAL ACCESS CODE</u>	75	24TH DIAL ACCESS CODE
31	ISDN BEARER CAPABILITY CLASS	61	10TH DIAL ACCESS CODE		SPARE
32	QDN/VDN	62	11TH DIAL ACCESS CODE	(1)	ENCODES FOR 15 AND 18 WORD STANDARD FORM
33	AGENT LOGIN	63	12TH DIAL ACCESS CODE	(2)	ENCODES FOR 18 WORD STANDARD FORMAT
34-49	SPARE	64	13TH DIAL ACCESS CODE	(*)	DATA ENTRY IN RECORD LEFT JUSTIFIED
(1) 50	ARS CONTROL MODE (*)	65	14TH DIAL ACCESS CODE		
(1) 51	TIME OF DAY PATTERN SET	66	15TH DIAL ACCESS CODE		
(1) 52	1ST DIAL ACCESS CODE	67	16TH DIAL ACCESS CODE		
(1) 53	2ND DIAL ACCESS CODE	68	17TH DIAL ACCESS CODE		
(1) 54	3RD DIAL ACCESS CODE	69	18TH DIAL ACCESS CODE		
(1) 55	4TH DIAL ACCESS CODE	70	19TH DIAL ACCESS CODE		
(1) 56	5TH DIAL ACCESS CODE	71	20TH DIAL ACCESS CODE		

FIELD 2: 1-96  
FIELD 3: 1-31

WORD 2B

CALL DETAIL  
FORMAT OPTS

288

THE FOLLOWING TABLES CONTAIN  
THE CELL NUMBERS USED IN  
PROC 288 WORD 2, FIELD 2,  
TO IDENTIFY THE STARTING  
CELL NUMBER FOR EACH DATA  
ITEM.

CELL NUMBERING PLAN FOR ALL FORMATS

WORD	BIT															
	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
00	01				02				03				04			
01	05				06				07				08			
02	09				10				11				12			
03	13				14				15				16			
04	17				18				19				20			
05	21				22				23				24			
06	25				26				27				28			
07	29				30				31				32			

CELL NUMBERING PLAN FOR ALL FORMATS

WORD	BIT															
	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
08	33				34				35				36			
09	37				38				39				40			
10	41				42				43				44			
11	45				46				47				48			
12	49				50				51				52			
13	53				54				55				56			
14	57				58				59				60			
15	61				62				63				64			

WORD 2C

CALL DETAIL  
FORMAT OPTS

288

CELL NUMBERING PLAN FOR ALL FORMATS

WORD	BIT															
	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
16	65				66				67				68			
17	69				70				71				72			
18	73				74				75				76			
19	77				78				79				80			
20	81				82				83				84			
21	85				86				87				88			
22	89				90				91				92			
23	93				94				95				96			

WHEN OPCODES ARE PROVIDED THEY USE BITS 12 TO 15

WORD 2D

CALL DETAIL  
FORMAT OPTS

288

FLIPCHART  
ISSUE 9

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**PROGRAMMABLE INTERCEPT TREATMENT**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-3  
REMOVE: FIELD 2 IS 0, FIELD 3 IS DASHED  
CHANGE: 1-3  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-IF FIELD 2 IS 1 OR 3, FIELD 3 MUST BE ENTERED. IF FIELD 2 IS 2, FIELD 3 MUST BE BLANK. THE RECORDED ANNOUNCEMENT NUMBER MUST ALREADY BE ADMINISTERED IN PROC 150 WORD 1.  
82-RECORDED ANNOUNCEMENT NUMBER NOT UNIQUE FOR INTERCEPT TYPE 0 IN FIELD 1.

WORD 1

INTERCEPT  
TYPE

1

INTERCEPT  
TREATMENT

2

RECORDED  
ANNOUNCEMENT  
NUMBER

3

PROGRAMMABLE  
INTERCEPT

**289**

FIELD LIMITS:

THIS TABLE CONTAINS THE ENCODE (0-3, 9-11, 17-19), IN FIELD 1, IN ORDER TO TO GENERATE THE VARIOUS INTERCEPT CAUSE FOR THE GIVEN SOURCE.

INTERCEPT TYPE VALUES BASED ON NETWORK SOURCE:

INTERCEPT CAUSE	SOURCE		
	PUBLIC	PRIVATE	TERMINAL
CALLS TO VACANT DIAL ACCESS CODES	1	9	17
CALLS TO RESTRICTED FEATURES OR TRUNKS	2	10	18
CALLS TO RECENTLY DISCONNECTED STATIONS	3	11	19
ATTENDANT DIVERSION TO RECORDED ANNOUNCEMENT	0	0	0

FIELD 2:

- 0 = APPROPRIATE TONE (INTERCEPT OR RECORDER-BASED ON SOURCE)
- 1 = RECORDED ANNOUNCEMENT
- 2 = DIVERSION TO ATTENDANT
- 3 = RECORDED ANNOUNCEMENT FOLLOWED BY DIVERSION TO ATTENDANT. (FIELD 2 MUST EQUAL 1 WHEN FIELD 1 = 0).

FIELD 3: 1-15

WORD 1A

PROGRAMMABLE  
INTERCEPT



THE FOLLOWING TABLE SPECIFIES WHAT THE REMOTE CARRIER SLOT NUMBERS ARE THAT CORRESPOND TO THE GIVEN ANN16 DEPENDING ON THE DISPLAYED SLOT NUMBER ON THE MAAP.

DS-1 CARRIER	SLOT DISPLAYED ON MAAP					REMOTED CARRIER SLOT NUMBERS	
						ANN16 IN SLOT 5	ANN16 IN SLOT 0
ANN15 REAL	0	0	5	13	18	4	1
VIRTUAL 1	1	6	14	19	7	2	
VIRTUAL 2	2	7	15	20	8	3	

WORD 1A

FIELD LIMITS:

FIELD 1:

- 1 = ON PREMISES LINE
- 2 = OFF PREMISES LINE
- 3 = CO TRUNK
- 4 = DID TRUNK
- 5 = TIE TRUNK/ATTENDANT INTERFACE
- 6 = AUXILIARY TRUNK
- 7 = 72 SERIES TERMINAL (MFET)
- 8 = GPP USED AS A LINE
- 9 = ANI SIGNAL DISTRIBUTION
- 10 = CALL PROGRESS TONE
- 11 = TT RECEIVER
- 12 = TT SENDER
- 13 = AUXILIARY TONE PLANT
- 14 = ATTENDANT CONFERENCE
- 15 = FACILITY TEST CIRCUIT
- 16 = DATA PORT
- 17 = CONTACT INTERFACE

18 = TONE DETECTOR

19 = 73 SERIES TERMINAL (MFAT)

20 = ADFTC

21 = DS1 REAL

22 = DS1 VIRTUAL

23 = EIA

24 = GPP USED AS A DATA TRUNK

25 = ISDN REAL

26 = ISDN VIRTUAL

FIELD 2: 0-30

FIELD 3: 0-7

FIELD 4: 0-3

FIELD 5: 0-3, 5-8, 13-16, 18-21

FIELDS 6-13:

- = DOES NOT EXIST

0 = NOT ASSIGNED

1 = ASSIGNED

2 = DS1 OPS LINE

3 = DS1 CO/FX/WATS/RA TRUNK

4 = DS1 DID TRUNK

5 = DS1 TIE TRUNK

6 = MODEM POOL DIGITAL

7 = MODEM POOL ANALOG

8 = ISDN TRUNK

FIELD 14:

- = NOT IN A REMOTED CARRIER

1 = IN A REMOTED CARRIER

CIRCUIT  
STATUS

290

FLIPCHART  
ISSUE 9

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**INSTALLED CIRCUIT PACK IDENTIFICATION**

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845552223

INPUT FIELDS:

DISPLAY: 1-4 OR 1-4, 17  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS ALL ASSIGNMENTS IN A CARRIER

SPECIAL ERROR CODES:

81-EQUIPMENT LOCATION (FIELDS 1-4) IS NOT A MODULE CONTROL CARRIER OR A PORT CARRIER, A COMMON CONTROL CARRIER OR A TMS CARRIER.

82-A SCANNER I/O ERROR OCCURRED. TRY AGAIN.

NOTES:

1. THE MODULE NUMBER FOR THE SYSTEM CONTROL CABINET IS 99. SINCE ONLY THE ONLINE COMMON CONTROL CAN BE DISPLAYED, ENTER 99, 0, -, 0 IN FIELDS 1-4 TO DISPLAY THE COMMON CONTROL

(IF 0 IS ENTERED IN FIELD 3, DISPLAY CHANGES IT TO A DASH.) IN ORDER TO DISPLAY THE OTHER COMMON CONTROL USE PROC 613 TEST 3 TO SWITCH PROCESSORS.  
 2. SINCE THIS PROCEDURE CANNOT TELL WHETHER A BOARD IS PLUGGED INTO EITHER SLOT 1 OR 2, THAT BOARD DISPLAYS IN BOTH SLOTS. (IF A TN530 BOARD IS PRESENT IN SLOT 15, THEN THE MODULE CONTROL CARRIER IS DUPLICATED AND THE TN481 BOARD MUST BE IN SLOT 1. ON THE OTHER HAND, IF NO TN530 BOARD IS IN SLOT 15, THEN THE MODULE CONTROL CARRIER IS NOT DUPLICATED AND THE TN481 BOARD MUST BE IN SLOT 2).

WORD 2	EQUIPMENT LOCATION				CIRCUIT PACK													REMOTE BOARD	INSTALLED CIRCUIT PACK ID
	MODULE	CABINET	CARRIER	SLOT	PREFIX	NUMBER	SUFFIX	VINTAGE	SERIES	VINTAGE UPDATE									
										1	2	3	4	5	6	7			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	290	

INSTALLED CIRCUIT PACK IDENTIFICATION

FIELD LIMITS:

FIELD 1: 0-30, 99

FIELD 2: 0-7

FIELD 3: 0-3

FIELD 4:

0-31 = COMMON CONTROL

0-28 = TMS

0-21 = RMI

0-3, 6-22, 25 = MODULE CONTROL

0-3, 5-8, 13-16, 18-21 = DSI PORT CARRIER

FIELD 5:

0 = TN

1 = SN

2 = UN

3 = ANN

FIELD 6: 0-999

FIELD 7:

0 = NONE

1 = B

2 = C 8 = I 14 = O

3 = D 9 = J 15 = P

4 = E 10 = K

5 = F 11 = L

6 = G 12 = M

7 = H 13 = N

FIELD 8: 0-31

FIELD 9: 0-15

FIELDS 10-16:

0 = NOT INSTALLED

1 = INSTALLED

FIELD 17:

- = NOT A REMOTE BOARD

1 = RLC FOR SLOTS 0, 5, 13, 18

2 = RCC FOR SLOTS 0, 5, 13, 18

3 = PORT BOARD 1 FOR SLOTS 1, 6, 14, 19

4 = PORT BOARD 2 FOR SLOTS 1, 6, 14, 19

5 = PORT BOARD 3 FOR SLOTS 2, 7, 15, 20

WORD 2A

INSTALLED CIRCUIT  
PACK ID

290

FLIPCHART  
ISSUE 9

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**0/1 TOLL NONRESTRICTED CODES**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-2  
REMOVE: 1-2  
CHANGE: 2  
NEXT DATA: DISPLAYS ALL CODE NUMBERS AND  
NONRESTRICTED CODES

NOTES:

1. EXTENSION NUMBERS WITH 0/1 TOLL RESTRICTION ASSIGNED IN  
PROC 010 WORD 3 MAY DIAL THE CODES IN FIELD 2. THE CODES CAN  
BE NPA, OFFICE OR SPECIAL SERVICE CODES SUCH AS 911, 411,  
AND 800.

FIELD LIMITS:

FIELD 1: 1-10  
FIELD 2: 100-999

CODE  
NUMBER

NON  
RESTRICTED  
OFFICE  
OR  
AREA CODE

0/1 TOLL NON  
RSTRD CODES

**300**

1

2

FLIPCHART  
ISSUE 9

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**CODE RESTRICTION - TRUNK GROUP & TYPE**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: 1-4  
REMOVE: 1-4  
CHANGE: 2-4  
NEXT DATA: DISPLAYS ALL TRUNK GROUPS THAT  
HAVE BEEN ASSIGNED

SPECIAL ERROR CODES:

81-THE PRIMARY RESTRICTION GROUP IS LIMITED TO ONE PER GROUP.  
THE TRUNK TYPE MUST BE CO.  
82-A CHANGE FROM A PRIMARY TO A SECONDARY OR A SECONDARY TO  
PRIMARY RESTRICTION GROUP IS NOT ALLOWED.  
83-REMOVE THE TRUNK GROUP DATA IN PROC 302 WORD 1 AND PROC 301  
WORD 2 BEFORE THE TRUNK GROUP CAN BE REMOVED IN THIS  
PROCEDURE.  
84-A TRUNK MUST BE ASSIGNED TO THE TRUNK GROUP.

FIELD LIMITS:

FIELD 2:  
1 = PRIMARY RESTRICTION GROUP  
2 = SECONDARY RESTRICTION GROUP  
FIELD 3:  
0 = NOT REQUIRED FOR TOLL CALLS  
1 = IS DIALED FOR TOLL CALLS REQUIRING AN NPA CODE  
2 = IS DIALED FOR ALL CALLS

WORD 1	TRUNK GROUP	RESTRICTION GROUP	DIAL 1 FOR TOLL	HOME NPA	CODE RSTRN TRK & TYPE
		1	2	3	4
					301

FLIPCHART  
ISSUE 9

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**CODE RESTRICTION - DIGIT ABSORPTION**

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84552223

**INPUT FIELDS:**

DISPLAY: 1  
ADD: 1-3  
REMOVE: PUTS A ZERO IN FIELD 3 WHILE  
LEAVING FIELDS 1 AND 2 INTACT  
CHANGE: 2-3  
NEXT DATA: DISPLAYS ALL THE DIGIT ABSORPTION  
ASSIGNMENTS

**SPECIAL ERROR CODES:**

81-TRUNK GROUP MUST BE ADDED IN WORD 1 BEFORE USING THIS WORD.  
82-REMOVE TRUNK GROUP IN PROC 302 WORD 1 BEFORE REMOVING IT  
HERE.  
84-ASSIGN A TRUNK TO THE TRUNK GROUP IN PROC 150 WORD 1.

**NOTES:**

1. FOR A TRUNK GROUP, THE TREATMENT MUST BE EITHER 0-2 OR 3-5.  
DO NOT MIX TREATMENT GROUPS.

**FIELD LIMITS:**

FIELD 1: 18-999  
FIELD 2: 2-9  
FIELD 3 (THE DIGIT IS ABSORBED):  
0 = NEVER  
1 = REPEATEDLY  
2 = ONCE  
3 = IF FIRST DIALED DIGIT  
4 = IF SECOND DIALED DIGIT  
5 = IF FIRST OR SECOND DIALED DIGIT

WORD 2

TRUNK  
GROUP

DIGIT

ABSORPTION  
TREATMENT

1

2

3

CODE RSTRN  
DIGIT  
ABSORP

**301**

FLIPCHART  
ISSUE 9

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**ALLOWED CODES - PRIMARY  
RESTRICTION GROUP**

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84552223

INPUT FIELDS:

DISPLAY: 1-2  
ADD: 1-3  
REMOVE: CHANGES THE CODE RESTRICTION  
LEVEL TO 0  
CHANGE: 3  
NEXT DATA: DISPLAYS THE RESTRICTION LEVEL  
FOR ALL CODES

NOTES:

1. CODE RESTRICTION LEVELS ARE ASSIGNED IN PROC 010 WORD 3.

FIELD LIMITS:

FIELD 2:

1 = OFFICE CODE  
2 = NPA CODE

FIELD 3:

0 = ACCESSIBLE BY EXTENSIONS WITH CODE RESTRICTION 0,1,2,  
OR 3  
1 = ACCESSIBLE BY EXTENSIONS WITH CODE RESTRICTION 1 ONLY  
2 = ACCESSIBLE BY EXTENSIONS WITH CODE RESTRICTION 1 OR 2  
3 = ACCESSIBLE BY EXTENSIONS WITH CODE RESTRICTION 1,2, OR 3

WORD 3

OFFICE  
OR  
AREA  
CODE

1

CODE  
TYPE

2

CODE RESTRICTION  
LEVEL

3

ALLOWED CODES-  
PRIM RSTCN

**301**

FLIPCHART  
ISSUE 9

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**CODE RESTRICTION  
ALLOWED NPA & OFFICE CODES**

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84552223

INPUT FIELDS:

DISPLAY: 1-2  
ADD: 1-4  
REMOVE: 1-4  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL CODES FOR ALL  
RESTRICTION LEVELS ASSIGNED TO A  
TRUNK

SPECIAL ERROR CODE:

80-ASSIGN THIS TRUNK GROUP IN PROC 301 WORD 1 BEFORE USING  
THIS PROCEDURE.  
82-USE PROC 301 WORD 3 TO ASSIGN OFFICE CODES FOR HOME NPA OF  
PRIMARY RESTRICTION GROUP.  
83-USE PROC 301 WORD 3 TO ASSIGN OFFICE CODES FOR FOREIGN NPA  
OF PRIMARY RESTRICTION GROUP.  
84-CANNOT ADD CONTROL RESTRICTION OF 0 ONLY.

NOTES:

1. FOR THE PRIMARY RESTRICTION GROUP, ONLY FOREIGN NPAs WITH  
OFFICE CODES MAY BE ENTERED.
2. FOR SECONDARY RESTRICTION GROUPS, NPAs OR NPAs WITH  
OFFICE CODES MAY BE ENTERED.
3. EACH NPA AND OFFICE CODE ENTRY IN THE TRUNK GROUP TABLE  
MUST BE SIX DIGITS LONG.

TRUNK  
GROUP

1

CODE RESTRICTION  
LEVEL

2

AREA  
CODE  
(NPA)

3

OFFICE  
CODE

4

CODE RESTRICTION

**302**

FLIPCHART  
ISSUE 9

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**AUTOVON TRUNK GROUP ROUTING PATTERNS**

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INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: 3  
NEXT DATA: DISPLAYS ALL TRUNK GROUP  
ASSIGNMENTS FOR A GIVEN  
DESTINATION SWITCH

SPECIAL ERROR CODES:

81-ONLY 15 TRUNK GROUPS CAN BE ASSIGNED PER DESTINATION.  
82-NON-PRECEDENCE (ROUTINE ONLY) CAN ONLY BE ASSIGNED TO THE  
AUTOVON SWITCH (0 IN FIELD 1).

FIELD LIMITS:

FIELD 1:  
0 = AUTOVON SWITCH  
1-40 = SWITCH ADMINISTERED  
IN PROC 275, WORD 3.  
FIELD 2: 18-999

FIELD 3:

0 = FLASH OVERRIDE  
1 = FLASH  
2 = IMMEDIATE  
3 = PRIORITY  
4 = ROUTINE  
- = NON-PRECEDENCE

WORD 1	DESTINATION	OUTGOING TRUNK GROUP	MAX PRECEDENCE LEVEL	AUTOVON
	1	2	3	305

FLIPCHART  
ISSUE 9

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**AUTOVON NNXD ROUTING PATTERNS**

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**INPUT FIELDS:**

DISPLAY: 1 OR 2-3 (SEE NOTE 1)  
ADD: 1-4 (SEE NOTE 2, FIELD 1-3 LIMITS)  
REMOVE: 1-4  
CHANGE: NOT ALLOWED  
NEXT DATA: 1 DISPLAYS NNXDS FOR A GIVEN DESTINATION

**SPECIAL ERROR CODE:**

81-FIRST DIGIT IS NOT ASSIGNED FOR EXTENSIONS IN PROC 350 WORD 1.

**NOTES:**

1. WHEN A DISPLAY IS DONE WITH A VALUE IN FIELD 2 AND A DASH IN FIELD 3, THE FIRST NNXD ASSOCIATED WITH FIELD 1 IS DISPLAYED.
2. ON AN ADD ROUTINE A DASH IN FIELD 3 CREATES 10 NNXD ROUTING PATTERNS CORRESPONDING TO EACH OF THE POSSIBLE VALUES 0-9 IN FIELD 3.

**FIELD LIMITS:**

FIELD 1:  
0 = AUTOVON SWITCH  
1-40 = SWITCH ADMINISTERED IN PROC 275 WORD 3.  
FIELD 2: 220-299..920-999  
FIELD 3: -, 0-9  
FIELD 4:  
- = NOT USED  
0-9 = HOME SWITCH AND/OR FIVE-DIGIT DIALING PLAN

WORD 2	DESTINATION	ROUTING DIGITS (NNXD)		FIRST DIGIT											AUTOVON NNXD ROUTING									
		AUTOVON NNX	1000 DIGIT																					
	1		2	3	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

**305**



**AUTOMATIC ROUTE SELECTION - ROUTE TABLES**



**INPUT FIELDS:**

DISPLAY: 1-3, 4  
 ADD: 1-12  
 REMOVE: 1-12 ALSO REMOVES ALL DATA IN WORDS 3-5  
 CHANGE: 4-12  
 NEXT DATA: DISPLAYS ALL ASSIGNED PREFERENCES AND PATTERNS NOT ALLOWED ON FIELD 4

**SPECIAL ERROR CODES:**

81-ADD PREFERENCE NUMBERS STARTING WITH 1. DO NOT LEAVE GAPS.  
 82-REMOVE PREFERENCE NUMBERS STARTING WITH THE HIGHEST NUMBER. WHEN REMOVING A SMALLER NUMBER, MOVE THE HIGHER ONES TO FILL GAPS.  
 83-THREE OR FOUR DIGITS MUST BE ENTERED FOR THE IXC.

**NOTES:**

1. ONLY ONE ARS PLAN CAN BE ACTIVE AT A TIME.
2. PATTERN 1 IS NORMALLY RESERVED FOR INTERCEPT.
3. THE LOWER THE PREFERENCE NUMBER, THE HIGHER THE PREFERENCE.
4. IT IS RECOMMENDED THAT YOU DO NOT ASSIGN A TRUNK GROUP WITH TRUNK TYPE 30 TO AN ARS PATTERN.
5. FACILITY RESTRICTION LEVEL 0 IS THE LOWEST LEVEL OF ACCESS, 7 IS THE HIGHEST LEVEL OF ACCESS.

WORD 1	ARS PLAN	PATTERN NUMBER	PREF NUMBER	TRUNK GROUP	FACILITY RSTCN LEVEL	WARNING TONE	DISTANT AREA CODE (NPA)	SEND 1 FOR TOLL	TOLL TABLE INDEX	DIGITS DELETED	DC SIGNAL IGNORE	IXC/ISDN NETWORK IDENTIFIER	ARS-ROUTE TABLES	
	1	2	3		4	5	6	7	8	9	10	11	12	<b>309</b>

FIELD LIMITS:

FIELD 1: 1-3

FIELD 2: 1-64

FIELD 3: 1-16

FIELD 4: 18-999

FIELD 5: 0-7

FIELD 6:

0 = NOT GIVEN

1 = GIVEN

FIELD 7: 0-999

FIELD 8:

0 = NOT REQUIRED

1 = REQUIRED FOR FOREIGN NPA

2 = REQUIRED FOR TOLL CALLS

FIELD 9:

- = ALL CALLS ARE LOCAL

0 = ALL CALLS ARE TOLL CALLS

1-63 = USE INDEXES ASSIGNED IN WORD 2

FIELD 10: 0-7

FIELD 11:

0 = DISABLE

1 = ENABLE

FIELD 12: -, 000-9999

WORD 1A

ARS-ROUTE  
TABLES

309

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FLIPCHART  
ISSUE 9

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**AUTOMATIC ROUTE SELECTION - TOLL TABLES**

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**INPUT FIELDS:**

DISPLAY: 1 OR 1-2  
ADD: 1-3  
REMOVE: NOT ALLOWED  
CHANGE: 3  
NEXT DATA: DISPLAYS ALL OFFICE CODES THAT  
ARE MARKED AS LOCAL IN THE TOLL  
TABLE

**SPECIAL ERROR CODES:**

81-USE THE DISPLAY ROUTINE TO INITIATE A SEARCH AND USE THE  
NEXT DATA ROUTINE TO CONTINUE A SEARCH.

**NOTES:**

1. FIELD 1 INDEXES ONE OF 63 POSSIBLE TOLL TABLES TO ASSIGN  
OFFICE CODES A TOLL OR LOCAL INDICATION. EACH OFFICE CODE AT  
THE DISTANT END OF A ROUTE (HOME NPA OF THE TRUNK GROUP)  
SHOULD BE ENTERED AND DESIGNATED TOLL OR LOCAL. THE TOLL  
TABLES ARE ASSIGNED TO PREFERENCES IN PROC 309 WORD 1.

2. AN OFFICE CODE HAS THE FORM NXX, WHERE N EQUALS ANY OF THE  
DIGITS 2-9, AND X EQUALS ANY OF THE DIGITS 0-9.  
3. ERRORS MADE USING THIS PROCEDURE COULD CAUSE TOLL CALLS TO  
BE MADE NONTOLL AND VICE VERSA.

**FIELD LIMITS:**

FIELD 1: 1-63  
FIELD 2: 200-999  
FIELD 3:  
0 = TOLL (DEFAULT)  
1 = LOCAL

WORD 2	TOLL TABLE INDEX	OFFICE CODE (NXX)	TOLL/ LOCAL	ARS TOLL TABLE
	1	2	3	309

FLIPCHART  
ISSUE 9

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### AUTOMATIC ROUTE SELECTION - SUBNET TRUNKING

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**INPUT FIELDS:**

DISPLAY: 1-3  
 ADD: 1-14 (SEE NOTE 1)  
 REMOVE: 4-14 ALSO REMOVES DATA IN WORD 4  
 CHANGE: 4-14 (SEE NOTE 1)  
 NEXT DATA: DISPLAYS THE NEXT SEQUENTIAL  
 ASSIGNED ROUTE ENTRY

**SPECIAL ERROR CODES:**

81-ASSIGN A TRUNK GROUP TO THIS ROUTE IN PROC 309 WORD 1 FIRST.  
 82-DATA ENTERED IN FIELDS 4, 7, 10 & 13 MUST BE EVEN NUMBERS.  
 (MAXIMUM IS 16).

**NOTES:**

1. GROUPS MUST BE ASSIGNED SEQUENTIALLY. ALL FIELDS OF GROUP MUST HAVE ENTRY.
2. THE DC SIGNAL IGNORE FIELD (FIELD 11) IN WORD 1 MUST BE SET IN ORDER FOR THE GROUP ONE PAUSE LENGTH TO BE RECOGNIZED.
3. IT IS POSSIBLE TO HAVE GROUP ONE DATA WITHOUT GROUP TWO, BUT NOT GROUP TWO DATA WITHOUT GROUP ONE.

WORD 3	ARS PLAN	PATTERN NUMBER	PREFERENCE NUMBER	GROUP ONE			GROUP TWO			GROUP THREE			GROUP FOUR		ARS SUBNET TRUNKING
				PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	SIGNALING	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	309

FIELD LIMITS:

FIELD 1: 1-3

FIELD 2: 1-64

FIELD 3: 1-16

FIELDS 4, 7, 10, 13: -, 0-16 (EVEN)

FIELDS 5, 8, 11: -, 0-15

FIELDS 6, 9, 12:

- = NOT ASSIGNED

0 = TOUCH-TONE

1 = ROTARY

WORD 3A

ARS  
SUBNET  
TRUNKING

309

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INPUT FIELDS:

DISPLAY: 1-3  
 ADD: 1-10  
 REMOVE: 4-10  
 CHANGE: 4-10  
 NEXT DATA: DISPLAYS EACH ASSIGNED ROUTE ENTRY  
 BASED ONLY ON THE DATA IN FIELDS  
 1-3

SPECIAL ERROR CODES:

81-ASSIGN A TRUNK GROUP FOR THIS ROUTE IN PROC 100 WORD 1  
 FIRST.  
 82-INVALID TRUNK TYPE. FIELD 4 MUST BE DASHED IF THE  
 PRE-ASSIGNED TRUNK TYPE IN PROC 100 IS NOT ISDN DYNAMIC.  
 83-TRUNK TYPE INCOMPATIBLE, SEE VALID ENCODES FOR FIELD 4.

FIELD LIMITS:

FIELD 1: 1-3  
 FIELD 2: 1-64  
 FIELD 3: 1-16

WORD 5	ARS PLAN	PATTERN NUMBER	PREF NUMBER	ISDN DYNAMIC TRUNK TYPE	NETWORK SERVICE VALUE	BEARER CAPABILITY				ARS PARAMETERS		
						VOICE OR VOICE GRADE	MODE 1 DATA	MODE 2 DATA	MODE 3 DATA		MODE 0 DATA	
1		2	3	4		6	7	8	9	10		309

FIELD LIMITS CONTINUED:

FIELD 4:

- 17 = 1-WAY OUTGOING DOD CO
- 27 = 1-WAY OUTGOING DOD WATS
- 41 = 2-WAY WINK IN, DELAY DIAL OR WINK OUT TIE
- 43 = 1-WAY OUT, DELAY DIAL OR WINK TIE
- 46 = 2-WAY DIAL REPEATING IN, DELAY OR WINK OUT TIE
- 47 = 2-WAY DIAL REPEATING DELAY IN, DELAY OR WINK OUT TIE
- 108 = WINK IN, AUTOMATIC OUT DMI HOST
- 109 = WINK IN, WINK OUT DMI HOST
- = NOT APPLICABLE, TRUNK TYPE IS NOT ISDN DYNAMIC

FIELD 5: -, 1-511, 999

FIELDS 6-10:

- 0 = NOT SUPPORTED
- 1 = SUPPORTED

WORD 5A

ARS  
PARAMETERS

309



FLIPCHART  
ISSUE 9

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**AUTOMATIC ROUTE SELECTION -  
OFFICE AND SERVICE CODES FOR HOME NPA**

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INPUT FIELDS:

DISPLAY: 1  
ADD: 1-2  
REMOVE: 1-2  
CHANGE: 2  
NEXT DATA: DISPLAYS ALL ASSIGNED OFFICE CODES  
AND SERVICE CODES.

NOTES:

1. A REMOVE ROUTINE CAUSES THE OFFICE CODE OR SERVICE CODE TO BE REMOVED FROM TRANSLATION.
2. WHEN THE OFFICE CODE FIELD IS LESS THAN 200 AND THE MIDDLE DIGIT IS 0 OR 1, THE NPA TRANSLATION IS UPDATED. WHEN GREATER THAN 199 THE HOME NPA TRANSLATION IS UPDATED.
3. TO ASSIGN A ROUTING DESIGNATOR FOR '01' (INTERNATIONAL OPERATOR ASSISTED) CALLS, ENTER 1 IN FIELD 1.

4. TO ASSIGN A ROUTING DESIGNATOR FOR '011' CALLS, ENTER 11 IN FIELD 1.
  5. TO ASSIGN A ROUTING DESIGNATOR FOR 'IXC+0' CALLS, ENTER 2 IN FIELD 1.
  6. TO ASSIGN A ROUTING DESIGNATOR FOR 'IXC+01' CALLS, ENTER 3 IN FIELD 1.
- FIELD LIMITS:  
FIELD 1 = 0-3, 11, 110-119, 200-999  
FIELD 2 = 1-64

WORD 1

OFFICE  
CODE

1

ROUTING  
DESIGNATOR  
FOR  
ALL  
PLANS

2

ARS - HOME NPA

**311**

FLIPCHART  
ISSUE 9

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**AUTOMATIC ROUTE SELECTION -  
AREA CODE FOR FOREIGN NPA**

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INPUT FIELDS:

DISPLAY: 1-2  
ADD: 1-12  
REMOVE: 1-12  
CHANGE: 3-12  
NEXT DATA: DISPLAYS ALL ASSIGNED AREA CODES.

SPECIAL ERROR CODES:

81-IF SIX-DIGIT TRANSLATION IS TO BE USED FOR AN NPA, ENTER A 6 IN FIELD 2. THERE MUST BE DATA IN AT LEAST ONE ROUTING DESIGNATOR FIELD. WHEN THREE AND SIX DIGIT TRANSLATION ARE BOTH USED, THE SIX DIGIT TRANSLATION MUST BE ADDED OR CHANGED FIRST.

82-IF THREE DIGIT TRANSLATION IS TO BE USED, ENTER A 3 IN FIELD 2. DASHES MUST BE PRESENT IN FIELDS (6-12). ALSO, THERE MUST BE DATA IN AT LEAST ONE OF THE THREE DIGIT TRANSLATION ROUTING DESIGNATOR FIELDS. SIX DIGIT TRANSLATION MUST BE PRESENT FOR ANY DASHED THREE DIGIT PATTERN FIELD.

ROUTING DESIGNATORS

WORD 2

AREA CODE

NUMBER OF  
TRANSLATION  
DIGITS

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ROUTING  
DESIGNATOR

ARS - FOREIGN NPA

**311**

1

2

3

4

5

6

7

8

9

10

11

12

NOTES:

1. FOR SIX-DIGIT TRANSLATION, THE FIRST ROUTING DESIGNATOR, (FIELD 3), IS USED AS DEFAULT FOR ALL OFFICE CODES NOT OTHERWISE ASSIGNED IN WORD 3.
2. A CHANGE IN THE SIX-DIGIT TRANSLATION REMOVES ALL THREE DIGIT TRANSLATION AND AFFECTS THE DATA IN WORD 3. THREE DIGIT TRANSLATION FOR ALL THREE PLANS REMOVES ALL SIX DIGIT TRANSLATION.
3. ERRORS MADE USING THIS PROCEDURE RESULT IN CALLS BEING IMPROPERLY ROUTED.

FIELD LIMITS:

FIELD 1: 200-999

FIELD 2:

3 = THREE DIGIT TRANSLATION

6 = SIX DIGIT TRANSLATION

FIELDS 3-12: -, 1-64

WORD 2A

ARS - FOREIGN NPA

311

FLIPCHART  
ISSUE 9

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**AUTOMATIC ROUTE SELECTION -  
SIX - DIGIT TRANSLATION**

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84552223

**INPUT FIELDS:**

DISPLAY: 1-2  
ADD: 1-3  
REMOVE: NOT ALLOWED  
CHANGE: 3  
NEXT DATA: DISPLAYS ALL OFFICE CODES WITHIN  
AN AREA CODE ASSIGNED OR DEFAULTED  
ON A ROUTING DESIGNATOR OTHER  
THAN 1.

**SPECIAL ERROR CODES:**

81-SIX-DIGIT TRANSLATION MUST EXIST TO USE THIS WORD. USE  
WORD 2 TO ASSIGN SIX-DIGIT ROUTING DESIGNATORS.  
82-ROUTING DESIGNATOR NUMBER (FIELD 3) MUST BE ASSIGNED IN SIX  
DIGIT TRANSLATION (PROC 311 WORD 2) BEFORE IT CAN BE USED  
HERE.

**NOTES:**

1. IN THE ABSENCE OF AN ASSIGNED ROUTING DESIGNATOR, OFFICE  
CODES DEFAULT TO THE FIRST ROUTING DESIGNATOR (PROC 311  
WORD 2) OR, IF THE FIRST ROUTING DESIGNATOR IS DASHED,  
DEFAULT TO ROUTING DESIGNATOR 1. ROUTING DESIGNATOR 1 IS  
NORMALLY USED TO ROUTE TO INTERCEPT.

**FIELD LIMITS:**

FIELD 1: 200-999  
FIELD 2: 200-999  
FIELD 3: 1-64

WORD 3

NPA  
(AREA CODE)

1

OFFICE  
CODE

2

ROUTING  
DESIGNATOR

3

ARS-DIGIT  
TRANSLATION

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FLIPCHART  
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TEN - DIGIT CONVERSION

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INPUT FIELDS:

DISPLAY: 1  
ADD: 1-7  
REMOVE: 2-7  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS EACH NUMBER ASSIGNED FOR  
THE RNX

SPECIAL ERROR CODES:

81-THIS NUMBER IS ASSIGNED AS A CONTROLLED NUMBER IN PROC 313  
WORD 1.  
82-PART OF THIS BLOCK IS CURRENTLY TRANSLATED.  
83-THE 6-DIGIT TABLE IS FULL  
84-THE 7-DIGIT TABLE IS FULL  
85-THE 8-DIGIT TABLE IS FULL  
86-THE 9-DIGIT TABLE IS FULL  
87-THE 10-DIGIT TABLE IS FULL

NOTES:

1. YOU CANNOT HAVE A RNX WITH A FIRST DIGIT THE SAME AS THE  
CDR ACCOUNT CODE PREFIX OR RESERVED DIGIT ADMINISTERED IN  
PROC 285 WORD 1.  
FIELD LIMITS:  
FIELD 1: 220-299, 320-399..920-999  
FIELD 2: 200-999  
FIELD 3: 200-999  
FIELDS 4-7: 0-9

WORD 1

LOCATION  
CODE  
(RNX)

1

AREA  
CODE  
(NPA)

2

OFFICE  
CODE  
(NXX)

3

DIGIT 7

4

DIGIT 8

5

DIGIT 9

6

DIGIT 10

7

10-DIGIT  
CONVERSION

312

FLIPCHART  
ISSUE 9

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TEN - DIGIT CONVERSION

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INPUT FIELDS:

DISPLAY: 1-3, 1-4, 1-5, 1-6  
ADD: 1-3, 1-4, 1-5, 1-6 & 7  
REMOVE: 1-3, 1-4, 1-5, 1-6  
CHANGE: 1-3, 1-4, 1-5, 1-6 & 7  
NEXT DATA: DISPLAYS ALL THE CONVERSION  
NUMBERS ASSIGNED TO BE CONVERTED  
TO A RNX LOCATION CODE.

SPECIAL ERROR CODES:

81-NUMBER IS ASSIGNED AS A CONTROLLED NUMBER IN PROC 313  
WORD 1.  
82-PART OF THIS BLOCK IS CURRENTLY TRANSLATED.  
83-THE 6-DIGIT TABLE IS FULL  
84-THE 7-DIGIT TABLE IS FULL  
85-THE 8-DIGIT TABLE IS FULL  
86-THE 9-DIGIT TABLE IS FULL  
87-THE 10-DIGIT TABLE IS FULL

NOTES:

1. YOU CANNOT HAVE A RNX WITH A FIRST DIGIT THE SAME AS THE  
CDR ACCOUNT CODE PREFIX OR RESERVED DIGIT ADMINISTERED IN  
PROC 285 WORD 1.  
FIELD LIMITS:  
FIELD 1: 200-999  
FIELD 2: 200-999  
FIELD 3: 0-9  
FIELDS 4-6: -, 0-9  
FIELD 7: 220-299, 320-399..920-999

WORD 2

AREA CODE  
(NPA)

OFFICE  
CODE  
(NNX)

DIGIT 7

DIGIT 8

DIGIT 9

DIGIT 10

RNX  
(LOCATION  
CODE)

10-DIGIT  
CONVERSION

312



NOTES:

1. FOR INTERNATIONAL ROUTING, IF INTERNATIONAL OPERATOR ASSISTANCE IS USED ONLY 01 IS NEEDED AS AN IAC. THE FIRST DIGIT OF THE COUNTRY CODE SHOULD BE USED TO FILL THIS FIELD TO 3 DIGITS, CONTINUING INTO THE NEXT FIELD WITH THE SECOND DIGIT OF THE COUNTRY CODE.
2. PROC 312 WORDS 1 AND 2 AND PROC 313 WORD 1 SHARE THE SAME SOFTWARE TABLES. THE NUMBER OF CONVERSIONS IN PROC 312 WORDS 1-3 AND THE NUMBER OF RESTRICTIONS IN PROC 313 ARE ADDED TOGETHER IN THE SAME TABLE. IF AN ERROR IN ONE PROCEDURE INDICATES A MAXIMUM IN ONE PROCEDURE, INFORMATION MUST BE REMOVED FROM THE OTHER PROCEDURE FIRST.
3. THIS PROCEDURE HAS PRECEDENCE OVER PROC 311 FOR INTERNATIONAL.
4. THE ROUTING DESIGNATOR MUST BE ASSIGNED.

FIELD LIMITS:

- FIELD 1: 010-019
- FIELDS 2-5: 0-9
- FIELDS 6-16: -, 0-9
- FIELD 17: 1-64

WORD 3A

INTERNATIONAL  
ROUTING

312







**ARS ROUTING TENANT SERVICES**



INPUT FIELDS:

DISPLAY: 1-2  
ADD: 1-3  
REMOVE: 1-3  
CHANGE: 1-3  
NEXT DATA: NOT ALLOWED

NOTES:

1. WHEN THE TENANT SERVICE FEATURE IS NOT ACTIVE, ONLY CALL CATEGORY 0 IS USED.
2. FOR CALL CATEGORY 0 IN A NONPARTITIONED SWITCH, THE ROUTING DESIGNATOR EQUALS THE PATTERN NUMBER. THIS CAN BE CHANGED IF NECESSARY.

FIELD LIMITS:

FIELD 1: 1-64  
FIELD 2: 0-63  
FIELD 3: 1-64

WORD 1	ROUTING DESIGNATOR	ARS CALL CATEGORY	ARS PATTERN NUMBER											ARS ROUTING
	1	2	3											<b>314</b>



FLIPCHART  
ISSUE 9

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**AAR CALL CATEGORY CONDITIONAL ROUTING**

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INPUT FIELDS:

DISPLAY: 1 OR 2  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 OR 1-2  
NEXT DATA: 1 OR 2, SEE NOTE 1

NOTES:

1. IF FIELD 1 IS ENTERED AND FIELD 2 IS DASHED, NEXT DATA DISPLAYS ALL AAR CONDITIONAL ROUTE COUNT. IF FIELD 2 IS ENTERED AND FIELD 1 IS DASHED, NEXT DATA DISPLAYS A CALL CATEGORY AND THEN THE AAR CONDITIONAL ROUTING COUNT.

FIELD LIMITS:

FIELD 1: 0-2 (0 IS THE DEFAULT CALL CATEGORY)  
FIELD 2:  
-, 0-2 = NUMBER OF SATELLITE LINKS USED

WORD 1

CALL  
CATEGORY

1

2

AAR CONDITIONAL  
ROUTING  
COUNT

AAR  
CALL  
CATEGORY

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FLIPCHART  
ISSUE 9

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**ARS CALL CATEGORIES FOR EXTENSION PARTITIONS**

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INPUT FIELDS:

DISPLAY: 1 OR 3  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 AND 3  
NEXT DATA: DISPLAYS EXTENSION PARTITIONS  
ASSIGNED TO EACH CALL CATEGORY

SPECIAL ERROR CODES:

81-BOTH FIELDS 1 AND 3 MUST HAVE VALID DATA BEFORE DOING A  
CHANGE ROUTINE.

FIELD LIMITS:

FIELD 1: -, 0-63  
FIELD 3: -, 0-999

WORD 2	CALL CATEGORY	RESERVED	EXTENSION PARTITION	ARS CALL CATEGORY
	1	2	3	320

FLIPCHART  
ISSUE 9

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**AUTOMATIC ROUTE SELECTION  
CALL CATEGORY FOR ATTENDANT PARTITIONS**

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INPUT FIELDS:

DISPLAY: 1 OR 3  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 AND 3  
NEXT DATA: DISPLAYS ASSIGNED ATTENDANT  
PARTITIONS FOR EACH CALL CATEGORY

SPECIAL ERROR CODES:

81-BOTH FIELDS 1 AND 3 MUST HAVE VALID DATA BEFORE DOING A  
CHANGE ROUTINE.

FIELD LIMITS:

FIELD 1: -, 0-63  
FIELD 3: -, 0-40

WORD 3

CALL  
CATEGORY

RESERVED

ATTENDANT  
PARTITION

1

2

3

ARS  
CALL  
CATEGORY

**320**

FLIPCHART  
ISSUE 9

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**AUTOMATIC ALTERNATE ROUTING  
ROUTE TABLES**

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845552223

**INPUT FIELDS:**

DISPLAY: 1-2, OR 3  
 ADD: 1-10  
 REMOVE: SEE ERROR CODE 84 & NOTES 1 AND 2  
 CHANGE: 3-10  
 NEXT DATA: DISPLAYS ALL PATTERNS AND PREFERENCES. NEXT DATA IS NOT ALLOWED ON FIELD 3.

**SPECIAL ERROR CODES:**

81-ASSIGN THIS TRUNK GROUP IN PROC 100 WORD 1 BEFORE USING THIS PROCEDURE.  
 82-A PATTERN AND PREFERENCE NUMBER IS ALREADY ASSIGNED. USE THE CHANGE ROUTINE.  
 83-ADD PREFERENCE NUMBERS IN ORDER, STARTING WITH 1. NO GAPS ALLOWED.  
 84-ONLY THE HIGHEST PREFERENCE NUMBER CAN BE REMOVED.  
 85-THREE OR FOUR DIGITS MUST BE ENTERED FOR THE IXC.

**NOTES:**

1. THE REMOVE ROUTINE DELETES ALL TRANSLATION DATA ASSOCIATED WITH THE PATTERN AND PREFERENCE NUMBERS, INCLUDING THAT USED IN WORDS 2, 3 AND 5.
2. USE THE CHANGE ROUTINE TO MOVE DATA FROM HIGHER NUMBERED PREFERENCE NUMBERS DOWN AND THEN REMOVE THE HIGHEST ONE. THE DATA THEN NEEDS TO BE MOVED TO THE NEW PATTERN AND PREFERENCE NUMBER IN WORDS 2, 3 AND 5.
3. WHEN FIELD 6 IS 1, THE LAST 4 DIGITS TO BE INSERTED DIGITS (WORD 3) MUST CONTAIN THE LDN OF THE DESTINATION.

WORD 1	PATTERN NUMBER	PREF NUMBER	TRUNK GROUP	FACILITY RSTCN LEVEL	WARNING TONE	OFF NET	NBR. OF DIGITS DELETED	DC SIGNAL IGNORE	OXXX ALLOWED	IXC/ISDN NETWORK IDENTIFIER	AAR-ROUTE TABLES
	.	.	.	.	.	.	.	.	.	.	<b>321</b>
	1	2	3	4	5	6	7	8	9	10	

FIELD LIMITS:

FIELD 1: 1-640

FIELD 2: 1-16

FIELD 3: 18-999

FIELD 4: 0-7

FIELD 5: 0-1

FIELD 6:

0 = ON NET ROUTE

1 = OFFNET DDD ROUTE

2 = OFFNET IDDD ROUTE

FIELD 7: 0-7

FIELD 8: 0-1

FIELD 9:

0 = EXTENSIONS CAN'T START WITH 0

1 = EXTENSIONS CAN START WITH 0

FIELD 10: -, 000-9999

WORD 1A

AAR-ROUTE  
TABLES

321

FLIPCHART  
ISSUE 9

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**AUTOMATIC ALTERNATE ROUTING  
SUBNET TRUNKING**

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85552223

INPUT FIELDS:

DISPLAY: 1-2  
 ADD: 1-13 (FIELD 3 MUST CONTAIN VALID DATA)  
 REMOVE: 3-13 (ALSO REMOVES DATA IN WORD 3)  
 CHANGE: 1-13 (FIELD 3 MUST CONTAIN VALID DATA)  
 NEXT DATA: DISPLAYS ALL ASSIGNED PATTERNS AND PREFERENCES

SPECIAL ERROR CODES:

81-A PATTERN AND PREFERENCE MUST FIRST BE ASSIGNED IN WORD 1.  
 82-THIS GROUP IS ALREADY ASSIGNED. USE THE CHANGE ROUTINE.  
 83-IF NUMBER OF DIGITS (FIELDS 4, 7 OR 10) IS ZERO OR DASH, SIGNALING (FIELDS 5, 8, 11 OR 13) MUST BE DASH.  
 84-ADD GROUPS FROM LEFT TO RIGHT STARTING WITH GROUP ONE. NO GAPS ALLOWED.  
 85-PAUSE LENGTH FOR GROUP 1 (FIELD 3) CANNOT BE ZERO.  
 86-PAUSE LENGTH MUST BE AN EVEN NUMBER AND BE 16 OR LESS.

FIELD LIMITS:

FIELD 1: 1-640  
 FIELD 2: 1-16  
 FIELD 3: 2-16 (EVEN)  
 FIELDS 4,7,10: -, 0-15  
 FIELDS 5,8,11,13:  
 - = NOT ASSIGNED  
 0 = TOUCH-TONE SIGNALS ARE OUT PULSED  
 1 = ROTARY SIGNALS ARE OUT PULSED  
 FIELDS 6,9,12: -, 2-16 (EVEN)

WORD 2	PATTERN NUMBER	PREFERENCE NUMBER	GROUP ONE			GROUP TWO			GROUP THREE			GROUP FOUR		AAR-SUBNET TRUNKING
			PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	NUMBER OF DIGITS	SIGNALING	PAUSE LENGTH (SECONDS)	SIGNALING	
	1	2	3	4	5	6	7	8	9	10	11	12	13	<b>321</b>

FLIPCHART  
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**AUTOMATIC ALTERNATE ROUTING  
DIGITS INSERTED**

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INPUT FIELDS:

DISPLAY: 1-3  
 ADD: 1-11 (1-4 MUST CONTAIN DATA)  
 REMOVE: NOT ALLOWED (USE WORDS 1 AND 2)  
 CHANGE: 4-11 (1-4 MUST CONTAIN DATA)  
 NEXT DATA: DISPLAYS ALL ASSIGNED PATTERNS AND PREFERENCES

SPECIAL ERROR CODES:

81-A PATTERN AND PREFERENCE NUMBER MUST FIRST BE ASSIGNED IN WORD 1.  
 82-A PATTERN AND PREFERENCE NUMBER IS ALREADY ASSIGNED. USE THE CHANGE ROUTINE.  
 83-ENTER DIGITS IN FIELDS 4-11 WITHOUT GAPS.  
 84-THE ADD ROUTINE IS ALLOWED ONLY IF AT LEAST ONE DIGIT HAS BEEN ENTERED.

NOTES:

1. IF PROC 321 WORD 1, FIELD 6 EQUALS 1 FOR THIS PATTERN AND PREFERENCE, THE LAST FOUR DIGITS INSERTED MUST BE THE LDN.  
 FIELD LIMITS:  
 FIELD 1: 1-640  
 FIELD 2: 1-16  
 FIELD 3:  
 1 = DIGITS 1-8  
 2 = DIGITS 9-16  
 3 = DIGITS 17-20  
 FIELDS 4-11: -, 0-9, 11 (\*), 12 (#)

DIGIT SEGMENTS ONE, TWO, AND THREE

WORD 3	PATTERN NUMBER	PREFERENCE NUMBER	DIGIT SEGMENT	DIGIT SEGMENTS ONE, TWO, AND THREE								AAR-DIGITS INSERTED	
				DIGIT 1, 9 OR 17	DIGIT 2, 10 OR 18	DIGIT 3, 11 OR 19	DIGIT 4, 12 OR 20	DIGIT 5 OR 13	DIGIT 6 OR 14	DIGIT 7 OR 15	DIGIT 8 OR 16		
	1	2	3	4	5	6	7	8	9	10	11		<b>321</b>

FLIPCHART  
ISSUE 9

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**AUTOMATIC ALTERNATE ROUTING  
ROUTING**

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**INPUT FIELDS:**

DISPLAY: SEE TABLE ON WORD 4B  
ADD: 1-5, SEE ERROR CODE 81  
REMOVE: 1-5  
CHANGE: 1-5 (AFTER DISPLAY ONLY)  
NEXT DATA: SEE TABLE ON WORD 4B

**SPECIAL ERROR CODES:**

81-AN ADD OR CHANGE ROUTINE CANNOT BE DONE TO A LOCATION CODE THAT BEGINS WITH THE CHARGE CODE PREFIX OR RESERVED DIGIT (SEE PROC 285 WORD 1).  
82-THIS CODE IS ALREADY ASSIGNED. USE THE CHANGE ROUTINE.  
83-TO USE THE DISPLAY OR NEXT DATA ROUTINES. SEE WORD 4B.  
84-FIRST DIGIT FIELD MUST BE SUPPLIED FOR FIVE-DIGIT DIALING PLANS ONLY IF IT IS A HOME RNX (PATTERN 641).  
85-THE ENTERED LOCATION CODE (RNX) DOES NOT MAP TO THE ENTERED PATTERN NUMBER.

86-FIRST DIGIT FIELD MUST BE DASHED. YOU CANNOT ADMINISTER A PATTERN AND A FIRST DIGIT TO ONE RNX.  
87-THE NODE NUMBER HAS PREVIOUSLY BEEN ASSIGNED TO A DIFFERENT PATTERN NUMBER. USE THE CHANGE ROUTINE.  
88-A FIRST DIGIT CAN ONLY BE TRANSLATED IN A FIVE DIGIT DIALING PLAN.  
89-THE NUMBER OF DIGITS IN THE LOCATION CODE HAS NOT BEEN SET IN PROC 285 WORD 1.

WORD 4

LOCATION  
CODE  
(RNX)

1

NODE  
NUMBER

2

CALL  
CATEGORY

3

PATTERN  
NUMBER

4

FIRST  
DIGIT

5

AAR-ROUTING

**321**

NOTES:

1. YOU CANNOT HAVE A RNX WITH A FIRST DIGIT THE SAME AS THE CDR ACCOUNT CODE PREFIX OR RESERVED DIGIT ADMINISTERED IN PROC 285 WORD 1.
2. RNX'S ADMINISTERED TO PATTERNS OTHER THAN 641 ARE THE HOME RNX'S OF OTHER SWITCHES. TO DISPLAY THE HOME RNX(S) FOR THIS SWITCH, ENTER A 641 IN FIELD 4 AND DO A DISPLAY EXECUTE.
3. THE NODE NUMBER AND FIRST DIGIT FIELDS ARE MUTUALLY EXCLUSIVE. EITHER FIELDS 2-4 OR FIELD 5 WILL BE DASHED WHEN THE LOCATION CODE IS DISPLAYED.
4. WHEN USING THE PATTERN NUMBER, EITHER DEFAULT (DASH) CALL CATEGORY OR ENTER VALID DATA. WHEN USING NODE NUMBER, EITHER DEFAULT (DASH) CALL CATEGORY OR ENTER VALID DATA.
5. THE TABLE, (SEE WORD 4B), CONTAINS THE TYPE OF DATA THAT MUST BE ENTERED IN EACH FIELD IN ORDER TO USE THE NEXT DATA ROUTINE, (SEARCH), ON A GIVEN FIELD.

FIELD LIMITS:

- FIELD 1: 20-99, 220-299, 920-999
- FIELD 2: 1-999
- FIELD 3: 0-2
- FIELD 4: 1-640 & 641
- FIELD 5: -, 0-9

WORD 4A

AAR-ROUTING

321



FIELD 1	FIELD 2	FIELD 3	FIELD 4	FIELD 5
LOCATION CODE	NODE NUMBER	CALL CATEGORY	PATTERN NUMBER	FIRST DIGIT
ENTERED - NEXT DATA INCREMENTS THIS FIELD	DASHED - DISPLAY THIS FIELD	DEFAULT TO 0 IF NOT ENTERED	DASHED - DISPLAY THIS FIELD	DASHED - DISPLAY THIS FIELD
ENTERED - FIND ALL VALUES FOR FIELD 2	DASHED - FIND ALL VALUES FOR FIELD 4	DEFAULT TO 0 IF NOT ENTERED	ENTERED - NEXT DATA FINDS NEXT NODE NUMBER & LOCATION CODES FOR IT	DASHED - DISPLAY THIS FIELD
DASHED - FIND ALL VALUES FOR FIELD 2	DASHED - FIND ALL VALUES FOR FIELD 4	DEFAULT TO 0 IF NOT ENTERED	ENTERED - NEXT DATA FINDS NEXT NODE NUMBER & LOCATION CODES FOR IT	DASHED - DISPLAY THIS FIELD
DASHED - FIND ALL VALUES FOR FIELD 2	ENTERED - NEXT DATA FINDS NEXT LOCATION CODE	DEFAULT TO 0 IF NOT ENTERED	DASHED - DISPLAY THIS FIELD	DASHED - DISPLAY THIS FIELD

WORD 4B

AAR-ROUTING

321



INPUT FIELDS:

DISPLAY: 1-2 & 4  
 ADD: 1-9  
 REMOVE: 3-9  
 CHANGE: 3-9  
 NEXT DATA: DISPLAYS ALL ASSIGNED PATTERNS AND PREFERENCES. CANNOT BE USED ON FIELD 4.

SPECIAL ERROR CODES:

81-ASSIGN A TRUNK GROUP FOR THIS ROUTE IN WORD 1 FIRST.  
 82-INVALID TRUNK TYPE. FIELD 3 MUST BE DASHED IF THE PRE-ASSIGNED TRUNK TYPE IN PROC 100 IS NOT ISDN DYNAMIC.  
 83-TRUNK TYPE INCOMPATIBLE, SEE VALID ENCODES FOR FIELD 3.

FIELD LIMITS:

FIELD 1: 1-640  
 FIELD 2: 1-16

WORD 5	PATTERN NUMBER	PREF NUMBER	ISDN TRUNK TYPE	NETWORK SERVICE VALUE	BEARER CAPABILITY					ISDN AAR-TRANSLATION	
					VOICE OR VOICE GRADE	MODE 1 DATA	MODE 2 DATA	MODE 3 DATA	MODE 0 DATA		
	. . . 1	. . . 2	. . . 3	. . . 4	. . . 5	. . . 6	. . . 7	. . . 8	. . . 9	. . . . . . . . . . .	<b>321</b>

FIELD LIMITS CONTINUED:

FIELD 3:

- 17 = 1-WAY OUTGOING DOD CO
- 27 = 1-WAY OUTGOING DOD WATS
- 41 = 2-WAY WINK IN, DELAY DIAL OR WINK OUT TIE
- 43 = 1-WAY OUT, DELAY DIAL OR WINK TIE
- 46 = 2-WAY DIAL REPEATING IN, DELAY OR WINK OUT TIE
- 47 = 2-WAY DIAL REPEATING DELAY IN, DELAY OR WINK OUT TIE
- 108 = WINK IN, AUTOMATIC OUT DMI HOST
- 109 = WINK IN, WINK OUT DMI HOST
- = NOT APPLICABLE, TYPE IS NOT ISDN DYNAMIC

FIELD 4: -, 1-511, 999

FIELDS 5-9:

- 0 = NOT SUPPORTED
- 1 = SUPPORTED

WORD 5A

ISDN AAR-  
TRANSLATION

321



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**PORTABILITY ROUTING**

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**INPUT FIELDS:**

DISPLAY: 1, 1 & 2 OR 3  
ADD: 1, 2 & 3 OR 1 & 3  
REMOVE: 1-3  
CHANGE: 3, ONLY AFTER DISPLAY  
NEXT DATA: SEE NOTE 1

**SPECIAL ERROR CODES:**

81-FIRST DIGIT MUST BE PROPERLY ASSIGNED IN PROC 350 WORD 1.  
82-DIGITS SPECIFIED IN FIELDS 1 & 2 ARE ALREADY ASSIGNED AN  
RNx, USE CHANGE.  
83-ONLY AFTER DISPLAY IS CHANGE ALLOWED FOR FIELD 3.

**NOTES:**

1. NEXT DATA DISPLAYS THE RNx ASSOCIATED WITH THE NEXT FIRST AND SECOND DIGITS OR IF RNx IS ENTERED AND FIELDS 1 AND 2 ARE DASHED, IT DISPLAYS THE NEXT FIRST AND SECOND DIGITS ASSOCIATED WITH THE RNx. WHEN DISPLAYING THE RNx FOR A SPECIFIC FIRST DIGIT, IT DISPLAYS A DASH (-) IN THE SECOND DIGIT FIELD (FIELD 2). AT THE START OF A NEW FIRST DIGIT, THE SECOND DIGIT FIELD DISPLAYS A DASH, WHICH ALLOWS THE USER TO ADD OR CHANGE THE ENTIRE GROUP OF 10 RNx'S.

WORD 1

DIGIT 1

DIGIT 2

LOCATION  
CODE  
(RNx)

1

2

3

**PORTABILITY  
ROUTING**

**322**

NOTES CONTINUED:

- 2. IF NOTHING IS ENTERED IN FIELD 2, ALL SECOND DIGITS OF THE FIRST DIGIT IN FIELD 1 ARE ADMINISTERED.
- 3. YOU CANNOT HAVE A RNX WITH A FIRST DIGIT THE SAME AS THE CDR ACCOUNT CODE PREFIX OR RESERVED DIGIT ADMINISTERED IN PROC 285 WORD 1.

FIELD LIMITS:

- FIELD 1: 0-9
- FIELD 2: 0-9
- FIELD 3: 220-299, 320-399..920-999

WORD 1A

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PORTABILITY  
ROUTING

322



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### QUEUING - TRUNK GROUP TRANSLATION

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INPUT FIELDS:

DISPLAY: 1  
ADD: 1-10  
REMOVE: 1-10  
CHANGE: 2-10  
NEXT DATA: DISPLAYS THE QUEUING DATA FOR EACH TRUNK GROUP

SPECIAL ERROR CODES:

81-DATA CANNOT BE ENTERED IN THIS FIELD FOR THE TRUNK TYPE SPECIFIED.  
82-QUEUING CANNOT BE ACTIVE WITH QUEUE LENGTHS OF 0.  
83-RINGBACK QUEUING IS NOT ALLOWED FOR THIS TYPE OF TRUNK.

NOTES:

1. DASH FIELDS 3, 4, 8 AND 9 FOR INCOMING ONLY TRUNK GROUPS.
2. WAIT TIME FOR OHQ IS IN 0.1 MINUTE INCREMENTS AND FOR RBQ IS IN MINUTE INCREMENTS. A DASH MEANS UNLIMITED WAIT TIME.
3. NON-PRIORITY OFF-HOOK QUEUING IS THE DEFAULT FOR THE SYSTEM.

OUTGOING TRUNK GROUP QUEUE DATA

WORD 2

TRUNK GROUP

1  
QUEUING ACTIVE

2  
NON PRIORITY QUEUE LENGTH

3  
PRIORITY QUEUE LENGTH

4  
WAIT TIME

OHQ		RBQ
NON PRIORITY	PRIORITY	
5	6	7

8  
RINGBACK RSTCN

9  
ROUTE ADV

10  
INC TRK GRP QUEUE DATA

QUEUING TRK GRP TRANS

330

FIELD LIMITS:

FIELD 1: 18-999

FIELD 2: 0-1

FIELDS 3, 4: -, 0-63

FIELDS 5, 6: 1-79

- = NO LIMIT

FIELD 7: 1-60

- = NO LIMIT

FIELD 8:

-, 0 = RBQ NOT RESTRICTED

1 = RBQ RESTRICTED

2 = CHANGE RBQ TO OHQ

FIELD 9: -, 0-1

FIELD 10:

- = SEE ERROR CODE 81

0 = OHQ NP

1 = OHQ P

2 = RBQ 2 DIGITS

3 = RBQ 3 DIGITS

4 = RBQ 4 DIGITS

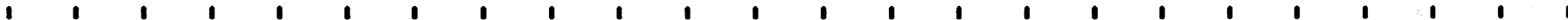
5 = RBQ 5 DIGITS

6 = NO QUEUE

WORD 2A

QUEUING  
TRK GRP  
TRANS

330



BASIC TERMINAL FEATURES

CALL FORWARDING

- \*1 = FOLLOW ME
- \*2 = BUSY/DONT ANSWER
- \*3 = CANCEL
- \*4 = CALL HOLD
- \*5 = CALL PICKUP
- \*6 = CALL WAITING  
ANSWER/HOLD
- \*7 = PRIORITY CALLING
- \*8 = ATTENDANT DAC
- \*9 = AUTOMATIC CALLBACK  
OR QUEUING-CANCEL
- \*10 = DEMAND PRINTING
- \*11 = OVERRIDE
- \*13 = DATA PROTECTION  
TEMPORARY
- 14 = DEMAND PRINT-ACCESSED
- \*16 = CAAVT CODE
- \*17 = PAGING-ANSWER BACK
- \*19 = AUTO CALLBACK-CALLING
- \*30 = TERMINAL TO SELECT ATND
- \*32 = ARS NON TOLL ROUTE
- \*33 = ARS TOLL ROUTE
- \*36 = SMDR-ACCOUNT CODE
- 40 = TERMINAL TEST
- 59 = LAST NUMBER DIALED

CTRL OF TRK GRP ACCESS

- 20 = ACTIVATE
- 21 = CANCEL FULL NIGHT  
SERVICE
- 22 = CLEAR ALL TERMINALS
- 23 = ASSIGN COMMON  
TERMINAL
- 24 = OVERRIDE COMMON  
TERMINAL
- 25 = ASSIGN TERM TO TRK
- 97 = ACTIVATE NIGHT
- 98 = DEACTIVATE NIGHT

BASIC ATTENDANT FEATURES

ATTENDANT CONTROL OF VOICE TERMINALS

- 26 = REMOTE ACCESS-  
CHANGE BARRIER CODE
- 27 = SINGLE EXTENSION
- 28 = GROUP OF EXTENSIONS
- 29 = INTERPOSITION CALL
- 31 = ARL TIME CHANGE
- 37 = SMDR-START
- 38 = SMDR-STOP
- \*55 = SEND ALL CALLS-ACTIVATE
- \*56 = SEND ALL CALLS-CANCEL
- \*57 = BURNED-IN CODE CANCEL FEATURE
- 58 = CALL TRANSFER TO AUDIX
- \*66 = LEAVE WORD CALLING-ACTIVATE
- \*67 = LEAVE WORD CALLING-CANCEL
- 68 = LOCK MESSAGE RETRIEVAL
- 69 = UNLOCK MESSAGE RETRIEVAL
- 80 = DIVERT ATTENDANT CALLS TO  
RECORDED ANNC-ACTIVATE
- 81 = DIVERT ATTENDANT CALLS TO  
RECORDED ANNC-CANCEL

\*ALLOWED TO BE ASSIGNED IN WORD 3

WORD 0

FEATURE DIAL  
CODE ENCODES

350

ABBREVIATED DIAL FEATURES

- \*90 = DIAL THE SYSTEM LIST -TT TERMINAL
- \*91 = DIAL LIST A - TT TERMINAL
- \*92 = DIAL LIST B - TT TERMINAL
- \*93 = PROGRAM AUTO DIAL NUMBER OR LIST
- 94 = DIAL THE SYSTEM LIST - ROTARY TERMINAL
- 95 = DIAL LIST A - ROTARY TERMINAL
- 96 = DIAL LIST B - ROTARY TERMINAL

NETWORK FEATURES

- 42 = MTCE BUSY A TRK
- 43 = MTCE UNBUSY A TRK
- 44 = TRK TEST FROM TERMINAL
- 53 = SPECIFIC MODEM POOL RESERVATION
- 60 = NETWORK ARS PLAN SWITCH
- \*61 = AAR CALL
- 62 = AUTO CIRCUIT ASSURANCE-START
- 63 = AUTO CIRCUIT ASSURANCE-STOP

RETAIL FEATURES

- 18 = CODE CALL ANSWER BACK
- 45 = CAS CONTROL ACTIVATE
- 46 = CAS BACKUP TERMINAL CTRL-ACTIVATE
- 47 = CAAVT-ACTIVATE FOR CAS BACKUP
- 48 = CAS ATTND REMOTE HOLD
- 49 = CAS CALL TO ATTND
- 50 = CAS BRANCH LAMP TEST
- 64 = CAS MAIN LAMP TEST

SPECIAL FEATURES

- 82 = AUTOVON PRECEDENCE CALLING
- 83 = AUTOVON ATTENDANT ASSISTANCE
- 99 = MALICIOUS CALL TRACE DEACTIVATION
- 100 = MALICIOUS CALL TRACE ACTIVATION

ACD FEATURES:

- 70 = AUTO IN MODE
- 71 = AUX WORK MODE
- 72 = MANUAL IN MODE
- 73 = STAFFED MODE
- 74 = MEMBER ADD
- 75 = MEMBER DELETE
- 76 = ANC VERIFY
- 77 = AGENT OVERRIDE
- 78 = AGENT OVERRIDE (TONE)
- 79 = RELOAD LAMP OUT
- 84 = OVERLOAD BALANCE ALL
- 85 = OVERLOAD OVERFLOW
- 86 = OVERLOAD BALANCE DEFAULT
- 87 = OVERLOAD BALANCE CANCEL
- 88 = AGENT LOG IN
- 89 = AGENT LOG OUT

SPEAKER VERIFICATION FEATURES

- 101 = SPEAKER VERIFICATION ACCEPT
- 102 = SPEAKER VERIFICATION FAIL
- 103 = UNADMINISTERED AUTHORIZATION CODE ENTERED
- 104 = NO AUTHORIZATION CODE ENTERED

\* ALLOWED TO BE ASSIGNED IN WORD 3.

WORD 0A

FEATURE DIAL  
CODE ENCODES

350



NOTES:

1. THE NUMBER OF DIGITS EXPECTED (FIELD 2) WHEN THE FIRST DIGIT IS DIALED IS DETERMINED BY THE CALL TYPE (FIELD 3). THE SAME INITIAL DIGIT CANNOT BE USED FOR DIFFERENT CALL TYPES. FOR EXTENSION CALL TYPES (ENCODE 1), 3, 4, OR 5 DIGITS ARE EXPECTED. EXTENSIONS MUST ALL CONTAIN THE SAME NUMBER OF DIGITS. FOR TRUNK, FEATURE, AND ATTENDANT DACS (ENCODE 2), 1-4 DIGITS ARE EXPECTED. THIS LENGTH CAN VARY WITHIN THE SAME SYSTEM EXCEPT THAT ALL TRUNK, FEATURE, AND ATTENDANT DACS USING THE SAME FIRST DIGIT MUST HAVE THE SAME LENGTH.

FIELD LIMITS:

FIELD 1: 0-9, 11(\*), 12(#)

FIELD 2:

1-4 = TRUNK, FEATURES, AND ATTENDANT DACS

3-5 = EXTENSIONS

FIELD 3:

1 = EXTENSION NUMBER

2 = TRUNK, FEATURE, OR ATTENDANT DAC

WORD 1A

DIALING PLAN  
FIRST DIGIT

350

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**DIALING PLAN - FEATURE DIAL ACCESS CODES**



INPUT FIELDS:

DISPLAY: 1 OR 2-5  
 ADD: 1-5  
 REMOVE: 1-5  
 CHANGE: 1 OR 2-5, EITHER THE DIAL ACCESS CODE OR THE FEATURE CODE CAN BE CHANGED, BUT NOT BOTH.  
 NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

80-YOU CANNOT CHANGE CODES THAT HAVE NOT BEEN ASSIGNED.  
 81-THIS DIAL ACCESS CODE IS ALREADY ASSIGNED AS A TRUNK ACCESS CODE.  
 82-THE AAR DIAL ACCESS CODE IS RESTRICTED TO A SINGLE DIGIT.  
 83-EITHER THE DIAL ACCESS CODE OR THE FEATURE CODE CAN BE CHANGED, BUT NOT BOTH.  
 84-BURNED-IN CANCEL FEATURE CANNOT BE ASSIGNED TO A DIAL ACCESS CODE.

86-WHEN VECTORING IS ENABLED, DIAL ACCESS CODES 84-87 ARE NOT ALLOWED.  
 87-CODE IS ASSIGNED WITH MORE DIGITS (SEE PROC 354 WORD 1).  
 88-SET UP THE DIALING PLAN FIRST (PROC 350 WORD 1).  
 89-ENCODES 11 OR 12 ARE NOT VALID FOR ROTARY TYPE ENCODES.

WORD 2	DIAL ACCESS CODE					DIALING PLAN FEATURE ACCESS
	FEATURE	DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	
	1	2	3	4	5	<b>350</b>

NOTES:

1. FIRST DIGIT MUST BE ASSIGNED IN WORD 1.
2. SEE WORDS 0 & 0A FOR FEATURE ENCODES.
3. COORDINATE REMOVAL/CHANGE OF FEATURE DAC WITH POSSIBLE ASSIGNMENT IN PROC 354 WORD 2.

FIELD LIMITS:

- FIELD 1: -, 1-104  
FIELD 2: -, 0-9, 11(\*), 12(#)  
FIELDS 3-5: -, 0-9

WORD 2A

DIALING PLAN  
FEATURE ACCESS

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**BURNED - IN CODE FEATURE ASSIGNMENT**

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INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-8  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-CANNOT ASSIGN THAT FEATURE.  
82-MUST ASSIGN DIAL ACCESS CODE TO FEATURE USING WORD 2.  
83-MUST ASSIGN DIAL ACCESS CODE TO CORRESPONDING FEATURE CANCEL  
ENCODE USING WORD 2 (EG ENCODES 3, 9, 56, 67).

FIELD LIMITS:

FIELDS 1-8: 0-11, 13, 16-19, 30, 32-33, 36, 55-57, 61, 66-67,  
90-93  
0 = BUTTON UNASSIGNED

WORD 3	BUTTON 1	BUTTON 2	BUTTON 3	BUTTON 4	BUTTON 5	BUTTON 6	BUTTON 7	BUTTON 8	BURNED-IN CODE FEATURE
	. . 1	. . 2	. . 3	. . 4	. . 5	. . 6	. . 7	. . 8	<b>350</b>

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**EXTENSION GROUPS**

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INPUT FIELDS:

DISPLAY: 1  
ADD: 1-2 OR 1-3, SEE ERROR CODES 81 & 82  
REMOVE: SEE ERROR CODES 83, 84, & 85  
CHANGE: 3 (ONLY IN A 5-DIGIT DIALING PLAN)  
NEXT DATA: DISPLAYS ASSIGNED BLOCKS OF EXTENSIONS

SPECIAL ERROR CODES:

81-FIRST DIGIT MUST BE PROPERLY ASSIGNED IN PROC 350 WORD 1.  
82-THE FIRST EXTENSION MUST BE SMALLER THAN THE LAST EXTENSION AND THE FIRST EXTENSION MUST END IN 0 AND THE LAST EXTENSION MUST END IN 9.  
83-EXTENSIONS MUST BE REMOVED IN PROC 000 WORD 1 BEFORE THE EXTENSION BLOCK CAN BE REMOVED OR CHANGED.  
84-THE DAC, NODE, OR RNX EXTENSION MUST BE REMOVED IN PROC 354 WORD 2 BEFORE THE EXTENSION BLOCK CAN BE REMOVED OR CHANGED

85-EXTENSION(S) MUST BE TAKEN OUT OF RECENT DISCONNECT USING PROC 003 WORD 1 BEFORE THE EXTENSION BLOCK CAN BE REMOVED OR CHANGED.  
86-MUST HAVE A 4 OR 5-DIGIT DIALING PLAN TO CHANGE THE NODE NUMBER. THE NODE NUMBER CANNOT BE "THIS SWITCH" AND NUMBER PORTABILITY MUST BE SPECIFIED IN PROC 275 WORD 3.  
87-NUMBER PORTABILITY MUST BE SPECIFIED IN PROC 275 WORD 3 TO ENTER A NODE NUMBER IN FIELD 3.

WORD 1	FIRST EXTENSION	LAST EXTENSION	NODE NUMBER	DISPLAY ONLY		EXTENSION GROUPS
				BLOCK TYPE	FIRST EXTENSION ASSIGNED	
.	.	.	.	.	.	<b>354</b>

SPECIAL ERROR CODES CONTINUED:

- 88-LDN'S MUST FIRST BE REMOVED IN PROC 204 WORD 1.
- 89-TRUNK GROUP DAC MUST BE REMOVED IN PROC 100 WORD 1.
- 90-FEATURE DAC MUST BE REMOVED IN PROC 350 WORD 2.

NOTES:

1. FOR BLOCK TYPE = 1, THE UNIQUE DAC EXTENSION OR BLOCK OF CONSECUTIVE EXTENSIONS CAN BE FOUND BY STRIPPING OFF THE TRAILING 0/9 DIGIT PAIRS FROM THE FIRST AND LAST EXTENSION.
2. IF THE FIRST DIGIT IS ASSIGNED AS A ONE DIGIT ATTENDANT DAC, THEN THE BLOCK OF EXTENSIONS CAN ONLY BE ASSIGNED AS LDN'S (PROC 204 WORD 1).

FIELD LIMITS:

- FIELDS 1: 000-99990
- FIELDS 2: 009-99999
- FIELD 3: -, 1-999
- FIELD 4:
  - 0 = EXTENSION
  - 1 = DAC IN BLOCK
  - 2 = RNX IN BLOCK
  - 3 = NODE NUMBERS IN BLOCK
  - 4 = LDN IN BLOCK
  - 5 = EXTENSIONS IN BLOCK ARE IN RECENT DISCONNECT
  - 6 = VECTOR DIRECTORY NUMBERS IN BLOCK
  - 7 = TRUNK GROUP NUMBER IN BLOCK BASED ON DAC
  - 8 = FEATURE NUMBER IN BLOCK BASED ON DAC
- FIELD 5: 000-99999

WORD 1A

EXTENSION  
GROUPS

354



ERROR CODES CONTINUED:

- 88-ONLY ALLOWED TO ADMINISTER RNX, DAC, OR NODE.
- 89-EXTENSION IS AN LDN AND MUST FIRST BE REMOVED IN PROC 204 WORD 1.
- 90-FOR RNX/DAC USE CODE (FIELD 2) MUST BE A 2 (RNX) OR 4 (DAC).
- 91-SPECIFY FOUR OR FIVE DIGITS IN FIELD 1 TO ADD, CHANGE, OR REMOVE A NODE NUMBER, WHEN ASSIGNING NODE NUMBER STEERING.
- 92-SPECIFY THE NODE NUMBER (FIELD 7) WHEN REQUESTING A NODE TYPE (FIELD 2 = 3).
- 93-THE FIRST DIGIT MUST BE PROPERLY ASSIGNED AS AN EXTENSION IN PROC 350 WORD 1.
- 95-THE CHANGE ROUTINE CANNOT CHANGE THE EXTENSION (FIELD 1).
- 96-EXTENSION IS A VDN AND MUST FIRST BE REMOVED IN PROC 031 WORD 1 AND PROC 000 WORD 1.

NOTES:

- 1. IF WORD 2 IS ENTERED IMMEDIATELY AFTER ERROR 84 IS DISPLAYED IN WORD 1, THE EXT DISPLAYED IN FIELD 5 OF WORD 1 IS USED AS THE ENTRY FOR FIELD 1 OF WORD 2 FOR 'DISPLAY, EXECUTE', PROVIDED FIELD 1 OF WORD 2 IS DASHED).
- 2. FOLLOW THESE STEPS TO DO THE NEXT DATA SEARCH SEQUENCE:
  - A. SEARCH ON FIELD 1. ENTER DATA IN FIELD 1 AND DO A DISPLAY ROUTINE. TO CONTINUE, USE THE NEXT DATA ROUTINE.
  - B. TO SEARCH FOR ALL "ALLOCATED EXTENSIONS, BUT UNASSIGNED," ENTER 5 IN FIELD 2 AND LEAVE THE OTHER FIELDS DASHED. THIS IS THE ONLY CASE WHEN AN ENTRY IN FIELD 2 ALONE IS ALLOWED.
- 3. RNX STEERING IS ONLY VALID IN A 5-DIGIT DIALING PLAN.
- 4. TABLE ONE, (SEE WORD 28), CONTAINS THE FIELDS THAT MUST BE ENTERED IN ORDER TO SEARCH, ON THE GIVEN DISPLAY TYPE.
- 5. TABLE TWO, (SEE WORD 28), CONTAINS THE FIELD NUMBERS AND DATA TYPES THAT MUST BE ENTERED IN THE SPECIFIED FIELDS IN ORDER TO ADD/CHANGE THE GIVEN ROUTING TYPE.
- 6. AN RNX MUST BE 220-299, 320-399, 420-499, 520-599, 620-699, 720-799, 820-899, 920-999. YOU CANNOT HAVE AN RNX WITH A FIRST DIGIT THE SAME AS THE CDR ACCOUNT CODE PREFIX OR RESERVED DIGIT ADMINISTERED IN PROC 285 WORD 1.

WORD 2A

EXTENSION  
DESTINATION

354

1.

FIELDS					
FIELD NUMBER	1	2	3-6	7	
DISPLAY TYPE	EXT	EXT	RNX/DAC	NODE	NOTE ON NEXT DATA
EXTENSION	EXT #	DASH	DASH	DASH	FINDS TYPE OF NEXT EXTENSION
VDN	EXT #	5	DASH	DASH	FINDS NEXT VDN
ALLOCATED EXT. BUT UNASSIGNED	EXT #	6	DASH	DASH	FINDS NEXT ALLOCATED BUT UNASSIGNED EXTENSION
RNX	DASH	2	RNX	DASH	FINDS NEXT EXTENSION WITH THIS RNX
DAC	DASH	4	DAC	DASH	FINDS NEXT EXTENSION WITH THIS DAC
NODE NUMBER	DASH	3	DASH	NODE	FINDS NEXT EXTENSION WITH THIS NODE NUMBER

WORD 2B

2.

PROC 354, WORD 2 ADD/CHANGE TABLE				
FIELD NUMBER	1	2	3-6	7
ROUTING TYPE	EXT	USE	RNX/DAC	NODE
RNX IN DCS NETWORKS WITH CENTRALIZED MESSAGING	EXT#	2	RNX	NODE
IN ALL NETWORKS WITHOUT CENTRALIZED MESSAGING	EXT#	2	RNX	[NODE]
NODE NUMBER	EXT#	3	DASH	NODE
DAC IN DCS NETWORKS WITH CENTRALIZED MESSAGING	EXT#	4	DAC	NODE
IN ALL NETWORKS WITHOUT CENTRALIZED MESSAGING	EXT#	4	DAC	[NODE]
BRACKETS [ ] INDICATE OPTIONAL ITEM				

EXTENSION  
DESTINATION

354

FIELD LIMITS:

FIELD 1: 000-99999 FOR EXTENSIONS, 0-99999 FOR STEERING CODE

FIELD 2:

- 0 = NOT ALLOCATED (DISPLAY ONLY)
- 1 = SINGLE EXTENSION NUMBER ON LOCAL SWITCH (DISPLAY AND SEARCH ONLY, PROC 000)
- 2 = EXTENSION NUMBER ASSIGNED TO AN RNX
- 3 = EXTENSION NUMBER ASSIGNED TO A NODE NUMBER
- 4 = EXTENSION NUMBER ASSIGNED TO A TRUNK DAC
- 5 = VECTOR DIRECTORY NUMBER ON LOCAL SWITCH (DISPLAY AND SEARCH ONLY, PROC 000)
- 6 = ALLOCATED, BUT UNASSIGNED (DISPLAY AND SEARCH ONLY)
- 7 = EXTENSION NUMBER IS IN RECENT DISCONNECT (DISPLAY ONLY, PROC 003)
- 8 = EXTENSION IS AN LDN, (DISPLAY ONLY, PROC 204)
- 9 = DAC DIGITS ARE SPECIFIED AND THE ENTRY IS A TRUNK GROUP
- 10 = DAC DIGITS ARE SPECIFIED AND THE ENTRY IS A FEATURE

FIELD 3: FOR DAC: 0-9, 11(\*), 12(#)

FIELDS 4-6: -, 0-9

FIELD 7: 1-999

FIELDS 8 & 9: -, 0-999

WORD 2C

EXTENSION  
DESTINATION

354

FLIPCHART  
ISSUE 9

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**NPA - NXX ASSIGNMENT**

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845552223

INPUT FIELDS:

DISPLAY: 1, 2-3, 2-4  
ADD: 1-4  
REMOVE: 1-4  
CHANGE: 1-4  
NEXT DATA: 1

SPECIAL ERROR CODES:

81-REMOVE THE NPA-NXX DESIGNATOR IN PROC 000 WORD 4 AND  
PROC 210 WORD 2 BEFORE REMOVING IT FROM THIS WORD.

FIELD LIMITS:

FIELD 1: 1-99  
FIELD 2: 2 00-999  
FIELD 3: 200-999  
FIELD 4: -, 0-9

WORD 3

NPA-NXX  
DESIGNATOR

NPA

NXX

THOUSAND'S  
DIGIT

NPA-NXX  
ASSIGNMENT

**354**

1

2

3

4

FLIPCHART  
ISSUE 9

+

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**PRECEDENCE CALLING - DIALED DIGIT ASSIGNMENT**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-5  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-THIS DIGIT IS ALREADY ASSIGNED IN ANOTHER FIELD.

NOTES:

1. NO TWO FIELDS IN THIS PROCEDURE CAN HAVE THE SAME DIGIT.

FIELD LIMITS:

FIELDS 1-5: 0-9, 11(\*), 12(#)

ASSIGNMENTS

WORD 1

FLASH  
OVERRIDE

FLASH

IMMEDIATE

PRIORITY

ROUTINE

1

2

3

4

5

PRECEDENCE  
CALL

**356**



NOTES CONTINUED:

4. FOR MODE 3 DATA MODULES, DCP DATA LINE, THE EQUIPMENT LOCATION SPECIFIED IN FIELDS 3-7 IS CONSIDERED AN ORIGINATOR WHILE THE EQUIPMENT LOCATION IN FIELDS 10-14 IS CONSIDERED A TERMINATOR.
5. THE PERMISSIBLE EQUIPMENT COMBINATIONS (AND USE RESTRICTIONS) ARE:
- DATA LINE TO DATA LINE (DATA ONLY)
  - DATA LINE TO DMI TRUNK (DATA ONLY)
  - DATA LINE TO DS-1 TRUNK (DATA ONLY)
  - DATA DS-1 TRUNK TO DATA DS-1 TRUNK (VOICE OR DATA)
  - DMI TRUNK TO DATA DS-1 TRUNK (DATA ONLY)
  - DMI TRUNK TO DMI TRUNK (DATA ONLY)
  - ANALOG LINE/TRUNK TO ANALOG LINE/TRUNK (VOICE ONLY)
  - ANALOG LINE/TRUNK TO ANY DS-1 TRUNK (VOICE ONLY)
  - NON-DATA DS-1 TRUNK TO ANY DS-1 TRUNK (VOICE ONLY)
- NOTE: A DATA DS-1 TRUNK HAS ROBBED BIT SIGNALING DISABLED, OR 24TH CHANNEL SIGNALLING.

FIELD LIMITS:

- FIELD 1:  
0 = DISABLED  
1 = ENABLED
- FIELD 2: -, 0-1023
- FIELDS 3 & 10: 0-30
- FIELDS 4 & 11: 0-7
- FIELDS 5 & 12: 0-3
- FIELDS 6 & 13: 0-3, 5-8,  
13-16, 18-21
- FIELDS 7 & 14: 0-7
- FIELDS 8 & 15:  
- = PORT IS NOT A GPP  
1 = I-CHANNEL 1 (PDM)  
2 = I-CHANNEL 2 (DTDM)

FIELDS 9 & 16:

- 0 = UNKNOWN
- 1 = DS-1, RBS DISABLED, 24TH CHANNEL SIGNALLING
- 2 = DS-1 RBS ENABLED
- 3 = DMI TRUNK
- 4 = ANALOG LINE, DS-1 LINE ON LINE BOARD,  
DCP VOICE LINE
- 5 = DS-1 LINE ON TRUNK BOARD
- 6 = ANALOG TRUNK
- 7 = DCP DATA LINE

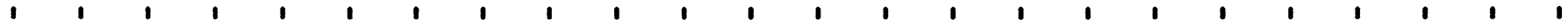
FIELD 17:

- 0 = DSC NOT BUSIED OUT
- 1 = DSC BUSIED OUT (BOTH PORTS)
- = IF FIELD 1 = 0

WORD 1A

DEDICATED  
SWITCH  
CONN

360





FIELD LIMITS:

FIELDS 1, 2: 1-99 (UNITS OF 0.1 MINUTES)

FIELD 3: 0-23

FIELD 4: 0-59

FIELD 5: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55

FIELD 6:

- = DO NOT RESET OFFSET OR OUTPUT REGISTERS

1 = RESET OFFSET TO TIME DISPLAYED (FIELD 5) AND RESET ALL TRAFFIC  
OUTPUT REGISTERS

FIELD 7:

- = NO CHANGE

1 = COPY CUSTOMERS PEAK AND TIME COINCIDENT REGISTER ASSIGNMENTS (AS  
ADMINISTERED IN PROC 414) INTO THIS TRAFFIC TRANSLATION. (VERIFY  
COPY USING PROC 454).

FIELD 8:

- = NO CHANGE

1 = ZERO PEAK AND TIME COINCIDENT REGISTER ASSIGNMENTS (AS ADMINISTERED IN PROC 414)

2 = ZERO ARS TRAFFIC STUDIES (AS ADMINISTERED IN PROC 413)

3 = ZERO AAR TRAFFIC STUDIES (AS ADMINISTERED IN PROC 413)

4 = ZERO CALL COVERAGE TRAFFIC STUDIES ( AS ADMINISTERED IN PROC 413)

FIELD 9:

- = NO CHANGE

0 = REGULAR STUDY SIZE (2000 REGISTERS)

1 = LARGE STUDY SIZE (4000 REGISTERS)

FIELD 10:

0 = NO

1 = YES (USE PROC 284 WORD 1 TO RESET)

WORD 1A

TRAFF STUDIES  
XLN & CLK

410

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES LOAD BALANCE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-2  
NEXT DATA: NOT ALLOWED

NOTES:

1. IF NO TRUNK GROUP IS SPECIFIED, ALL TRUNK GROUPS ARE STUDIED.

FIELD LIMITS:

FIELD 1:  
0 = INACTIVE  
1 = ACTIVE  
FIELD 2:  
- = ALL TRUNK GROUPS  
18-999 = TRUNK GROUPS 18-999

WORD 1

LOAD BALANCE

1

TRUNK  
GROUP

2

TRAFFIC STUDIES  
LOAD BAL

**411**

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES  
CARRIER USAGE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-15  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-MODULE 1 MUST BE ASSIGNED.  
83-DATA IN FIELDS 3-14 MUST BE ENTERED  
BEGINNING TO END WITH NO GAPS.

FIELD LIMITS:

FIELD 1:  
0 = INACTIVE  
1 = ACTIVE  
FIELDS 2 & 15: -, 0-30  
FIELDS 3, 6, 9, 12: -, 0-6  
FIELDS 4, 7, 10, 13: -, 0-3

FIELDS 5, 8, 11, 14  
(FULL DENSITY):  
0 = SLOTS 0-3  
1 = SLOTS 5-8  
2 = SLOTS 13-16  
3 = SLOTS 18-21

WORD 2	CARRIER USAGE	IN FIRST MODULE												MODULE	TRAFFIC STUDIES CARR USAGE	
		FIRST MODULE	QUARTER CARRIER 1			QUARTER CARRIER 2			QUARTER CARRIER 3			QUARTER CARRIER 4				
			CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER			BEG SLOT ENCODE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	411	

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES  
TRUNK GROUP COMBINATIONS**

+

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 1 -2  
ADD: 1-7  
REMOVE: 2-7  
CHANGE: 1-7  
NEXT DATA: DISPLAYS ALL SEGMENTS OF ALL  
COMBINATIONS (FIELDS 1 AND 2)

SPECIAL ERROR CODES:

82-ONLY ONE-WAY, TWO-WAY, DID, ISDN DYNAMIC AND REMOTE ACCESS  
TRUNKS ARE ALLOWED.

NOTES:

1. TWENTY TRUNK GROUPS MAY BE ASSIGNED TO A COMBINATION BY  
ENTERING TRUNK GROUPS IN EACH OF 4 SEGMENTS.

FIELD LIMITS:

FIELD 1: 1-3  
FIELD 2: 1-4  
FIELDS 3-7: -, 8-999

WORD 1	COMBINATION NUMBER	SEGMENT	TRUNK GROUP 1	TRUNK GROUP 2	TRUNK GROUP 3	TRUNK GROUP 4	TRUNK GROUP 5		TRAFFIC STUDIES TG COMB
	1	2	3	4	5	6	7		<b>413</b>

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES  
SPECIAL MEASUREMENT GROUPS**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 1-2  
ADD: 1-2  
REMOVE: 1-2  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL ASSIGNED ROUTING  
PATTERNS, OR CALL COVERAGE  
GROUPS, OR VDN'S (FIELD 2)

SPECIAL ERROR CODES:  
83- THE DATA TABLE IS FULL.  
NOTES:  
1. FIELD 3 COUNTS THE NUMBER OF PATTERNS OR CALL COVERAGE  
GROUPS TO BE STUDIED.  
MAXIMUM: AAR = 30, ARS = 16, CALL COVERAGE = 25.

FIELD LIMITS:

FIELD 1:  
1 = ARS  
2 = AAR  
3 = CALL COVERAGE  
FIELD 2:  
ARS = 1-64  
AAR = 1-640  
CALL COVERAGE = 1-4095  
FIELD 3: 0-255

WORD 2

TYPE

MEASUREMENT  
ITEM

DISPLAY  
ONLY

NUMBER  
ASSIGNED

TRAFF STUDIES  
SPEC MEAS

413

1

2

3

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES  
PEAK REGISTER ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: NONE, 1, OR 2 & 3  
ADD: 1-3 OR 2-3  
REMOVE: AFTER DISPLAY ONLY  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS THE TRAFFIC PEAK REGISTER ASSIGNMENTS

**SPECIAL ERROR CODES:**

82-TYPE 2 MAY NOT BE ASSIGNED AS PEAK REGISTER.  
83-WHEN THE REGULAR STUDY SIZE IS ADMINISTERED (SEE FIELD 4 AND PROC 410, FIELD 9), THE PEAK REGISTER NUMBER CANNOT EXCEED 2000.  
84-THE REGULAR STUDY SIZE LIMIT HAS BEEN REACHED. TO ADMINISTER MORE REGISTERS, THE LARGE STUDY SIZE MUST BE ADMINISTERED IN PROC 410 WORD 1.

**NOTES:**

1. THE REMOVE ROUTINE REMOVES ALL TIME COINCIDENT REGISTER ASSIGNMENTS FOR PEAK REGISTER REMOVED.
2. USE PROC 410 WORD 1 TO COPY CUSTOMER ASSIGNMENTS.
3. IF FIELD 1 IS DASHED DURING THE ADD ROUTINE, THE FIRST AVAILABLE PEAK REGISTER IS SELECTED.
4. THE MAXIMUM NUMBER OF PEAK REGISTERS PLUS TIME COINCIDENT REGISTERS ASSIGNED CAN BE 2000-5999 DEPENDING ON THE MIX OF PEAK VS TIME COINCIDENT ASSIGNMENTS AND THE STUDY SIZE.

WORD 1	PEAK			DISPLAY ONLY		TRAFF STUDIES PEAK REG
	PEAK REGISTER	TYPE	ITEM	STUDY SIZE	PEAK AND TIME COINCIDENT REGISTERS	
	1	2	3	4	5	<b>414</b>

FIELD LIMITS:

FIELD 1: -, 1-4000

FIELD 2:

1 = TRAFFIC TRUNK GROUP COMBINATION USAGE

3 = NETWORK AND PROCESSOR MEASUREMENTS

5-9 = TRUNK GROUP MEASUREMENTS

10-12 = TIMESLOT INTERCHANGER MEASUREMENTS

13-14 = TIME MULTIPLEX SWITCH MEASUREMENTS

20 = ATTENDANT FEATURE MEASUREMENTS (CONSOLE TOTALS)

21-23 = ATTENDANT FEATURE MEASUREMENTS (PER CONSOLE)

30-34 = QUEUING MEASUREMENTS (PRIORITY QUEUES)

40-44 = QUEUING MEASUREMENTS (NON-PRIORITY QUEUES)

50-52 = MAIN/SATELLITE MEASUREMENT

60 = CAS MEASUREMENT

61-63 = ACD AND MESSAGE CENTER MEASUREMENTS

65-66, 68-69 = TRUNK GROUP DATA MEASUREMENTS

70 = TRUNK GROUP BUSY OUT USAGE

71-73 = TRUNK GROUP GLARE MEASUREMENTS

74 = TRUNK GROUP BUSY USAGE

FIELD 3: 1-999

FIELD 4:

0 = REGULAR STUDY (2000 REGISTERS)

1 = LARGE STUDY (4000 REGISTERS)

FIELD 5: 0-5999

SEE SUPPORT DOCUMENTATION FOR FIELD 3 ENCODES WITH RESPECT TO FIELD  
2 ENCODES.

WORD 1A

TRAFF STUDIES  
PEAK REG

414

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES**  
**TIME COINCIDENT REGISTER ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 1, 5 AND 6  
 ADD: 1 AND 5-6  
 REMOVE: 1-6  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS ALL THE TIME COINCIDENT TRAFFIC ASSIGNMENTS ASSOCIATED WITH ALL PEAK REGISTERS.

**SPECIAL ERROR CODES:**

81-THE PEAK REGISTER MUST BE ASSIGNED IN WORD 1.  
 83-WHEN THE REGULAR STUDY SIZE IS ADMINISTERED (PROC 410 WORD 1), THE PEAK REGISTER NUMBER CANNOT EXCEED 2000.  
 84-THE REGULAR STUDY SIZE LIMIT HAS BEEN REACHED. TO ADMINISTER MORE REGISTERS, THE LARGE STUDY SIZE MUST BE ADMINISTERED IN PROC 410 WORD 1.

**NOTES:**

1. SEE SUPPORT DOCUMENTATION FOR TYPE AND ITEM ENCODES (FIELDS 2-3, 5-6).
2. TO REMOVE PEAK AND ALL CORRESPONDING TIME COINCIDENT ASSIGNMENTS, USE WORD 1.
3. FIELD 4, SYSTEM ASSIGNED, BEGINS WITH 1 FOR EACH NEW PEAK. IT IS NEEDED AS INPUT TO PROC 421.

WORD 2	DISPLAY ONLY		DISPLAY ONLY	TIME COINCIDENT		DISPLAY ONLY	TRAFF STUDIES TC REG  <b>414</b>
	PEAK REGISTER		TIME COINCIDENT REGISTER	TYPE	ITEM	PEAK AND TIME COINCIDENT REGISTERS	
	1	2	3	4	5	6	

NOTES CONTINUED:

4. THE MAXIMUM NUMBER OF PEAK REGISTERS PLUS TIME COINCIDENT REGISTERS ASSIGNED  
CAN BE 2000-5999 DEPENDING ON THE MIX OF PEAK VS TIME COINCIDENT ASSIGNMENTS  
AND THE STUDY SIZE.

FIELD LIMITS:

FIELD 1: -, 1-4000

FIELDS 2 & 5: 1-3, 5-14, 20-23, 30-34,  
40-44, 50-52, 60-63,  
65-66, 68-74

FIELDS 3 & 6: 1-999

FIELD 4: 1-5997

FIELD 7: 0-5998

WORD 2A

TRAFF STUDIES  
TC REG

414

FLIPCHART  
ISSUE 9

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**TRAFFIC STUDIES  
MAIN/SATELLITE TRANSLATION**

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845552223

**INPUT FIELDS:**

DISPLAY: 1, OR NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
DASH FIELD 2 AND USE THE CHANGE  
ROUTINE.  
CHANGE: 1-2  
NEXT DATA: DISPLAYS ALL TRUNK GROUPS WITH  
TRAFFIC SATELLITE ASSIGNMENTS.

**SPECIAL ERROR CODES:**

82-IF FIELD 2 IS 1-4, TRUNK GROUP MUST BE ASSIGNED AS  
MAIN/SATELLITE IN PROC 104.

**NOTES:**

1. SATELLITES 1-4 ARE DEFINED, FOR TRAFFIC STUDY PURPOSES, BY  
ADMINISTERING SATELLITE NUMBER 1-4 IN FIELD 2 TO ALL  
RELEVANT MAIN/SATELLITE TRUNK GROUPS.

**FIELD LIMITS:**

FIELD 1: 18-999  
FIELD 2:  
- = UNASSIGNED  
1-4 = SATELLITE

TRUNK  
GROUP

SATELLITE

1

2

TRAFF STUDIES  
MAIN/SAT

**415**

FLIPCHART  
ISSUE 9

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**PROCESSOR DATA**

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84552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS MEASUREMENT DATA FOR  
TYPES 1, 2, AND 4

NOTES:

1. TYPE 1 (FIELD 1) DISPLAYS THE TIME LEFT IN MILLISECONDS (FIELD 2) AFTER CALL PROCESSING FOR BASE LEVEL MAINTENANCE TASKS. MULTIPLY BY 1000 THE VALUE APPEARING IN FIELD 3 TO GET THE NUMBER OF TIMES THE VALUE IN FIELD 2 REMAINED DURING EACH 10 MILLISECOND CYCLE FOR THE LAST TRAFFIC HOUR.
2. TYPE 2 (FIELD 1) SHOWS THE NUMBER OF TIMES EACH OF THE 128 CALL PROCESSING TASKS WAS INTERRUPTED. MULTIPLY BY 100 THE VALUE APPEARING IN FIELD 3 TO GET THE NUMBER OF INTERRUPTS.

3. TYPE 3 (FIELD 1) DISPLAYS THE CURRENT 10-SECOND PROCESSOR OCCUPANCY IN PERCENT.
4. TYPE 4 (FIELD 1) DISPLAYS THE PAST HOUR'S 100-SECOND OCCUPANCY VALUES IN REVERSE ORDER, INDEXED BY FIELD 2, MOST CURRENT VALUE FIRST. THERE ARE 36 VALUES, ALL SHOWN AS A PERCENTAGE.

TYPE	DISPLAY ONLY			DISPLAY ONLY			PROCESSOR DATA
	NUMBER	DATA	TIME OF DAY		OFFSET		
			HOUR	MINUTE			
1	2	3	4	5	6	<b>420</b>	

FIELD LIMITS:

FIELD 1: -, 1-4

FIELD 2: 1-128

FIELDS 3: 0-9999

FIELD 4: 0-23

FIELD 5: 0-59

FIELD 6: 0-5, 10, 15, 20

25, 30, 35, 40

45, 50, 55

WORD 1A

PROCESSOR  
DATA

420

FLIPCHART  
ISSUE 9

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TRAFFIC  
DATA DISPLAY AND RESET

+

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845552223

INPUT FIELDS:

DISPLAY: 1, 1-2, 1-3, OR 1-4  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 & 5, 1-2 & 5, 1-3 & 5, OR 1-4 & 5  
NEXT DATA: STEPS THROUGH ANY INDEX OF A  
CATEGORY IF THE INDEX TO BE STEPPED  
ON IS DASHED.

CAUTIONS:

1. WHEN A CATEGORY IS ZEROED, IT ZEROES ALL CATEGORIES IN  
THE PACKET.  
SPECIAL ERROR CODES:  
81-FOR CATEGORY 2, THE MODULE IN INDEX 1 MUST BE LESS THAN THE  
MODULE IN INDEX 2.  
82-STUDY NOT ACTIVE - SEE PROC 411 WORD 1.  
83-TO RESET (ZERO) A SINGLE TRAFFIC REGISTER:  
DISP REG, SET FLD 5 = 1, ADD EXECUTE THE CHANGE ROUTINE.  
FIELDS 1-4 MUST NOT BE CHANGED AFTER DISPLAY.

84-TO RESET (ZERO) A ENTIRE PACKET: ENTER ANY CATEGORY  
IN THE PACKET IN FIELD 1, DASH FIELDS 2-4, SET  
FIELD 5 = 9, AND EXECUTE THE CHANGE ROUTINE.  
85-IN CATEGORY 2, INTERLOAD BALANCE DOES NOT APPLY TO A  
ONE - MODULE SYSTEM.  
91-THE DOUBLE PRECISION DATA EXCEEDS 99, 942, 399.  
92-THIS CATEGORY IS RESERVED FOR FUTURE USE.

WORD 1

CATEGORY

INDEX 1

INDEX 2

INDEX 3

RESET

DISPLAY ONLY

DATA

POWER  
OF 10

TRAFF DATA  
DISPL & RESET

421

NOTES:

1. SEE SUPPORT DOCUMENTATION FOR ALL FIELD INPUTS AND DESCRIPTIONS.
2. FIELD 7 IS USED WHEN DOUBLE PRECISION DATA IS DISPLAYED TO SPECIFY THE NUMBER OF ZEROS TO APPEND TO THE DATA IN FIELD 6.

FIELD LIMITS:

FIELD 1: 1-28

FIELD 2: -, 0-4000

FIELD 3: -, 1-5998

FIELD 4: -, 1-32

FIELD 5:

- = NO RESET

1 = RESET SINGLE REGISTER TO ZERO

9 = RESET ENTIRE PACKET TO ZERO

FIELD 6: 0-99999

FIELD 7: -, 0-3

WORD 1A

TRAFF DATA  
DISP & RESET

421

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FLIPCHART  
ISSUE 9

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**TRAFFIC  
NETWORK CHANNEL INDEX DISPLAY**

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845552223

INPUT FIELDS:

DISPLAY: 2 OR NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL INDEX 1 CHANNEL  
NUMBERS

NOTES:

1. SEE SUPPORT DOCUMENTATION FOR ALL FIELD INPUTS AND  
DESCRIPTIONS.  
FIELD LIMITS:  
FIELD 1: 20  
FIELD 2: -, 1-128  
FIELD 3:  
0 = LOGICAL SWITCH LINK  
1-8 = PHYSICAL DCIU LINK

FIELD 4: -, 1-64

FIELD 5:  
- = ALTERNATE ROUTING IS IN EFFECT  
0 = LOGICAL SWITCH LINK  
1-8 = PHYSICAL DCIU LINK  
FIELD 6:  
- = ALTERNATE ROUTING IS IN EFFECT  
1-64 = PORT

WORD 3	DISPLAY ONLY		DISPLAY ONLY				TRAFF NTWK CHAN INDX  <b>421</b>
	CATEGORY	INDEX 1	NETWORK CHANNEL A		NETWORK CHANNEL B		
			LINK (SWITCH)	BX.25 LOGICAL CHANNEL (PORT)	LINK (SWITCH)	BX.25 LOGICAL CHANNEL (PORT)	
	1	2	3	4	5	6	

FLIPCHART  
ISSUE 9

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**FORCE ADMINISTRATION DATA SYSTEM**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: 1-3  
REMOVE: NOT ALLOWED  
CHANGE: 1-3  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

82-FIELD 3 MUST BE (0-55) WITH RIGHTMOST (UNITS) DIGIT BEING A 0 OR A 5.  
83-FIELD 1 EQUALING 1 IS ONLY VALID IF THE FADS TERMINAL IS ASSIGNED (PROCEDURE 253 WORD 1).

FIELD LIMITS:

FIELDS 1, 2:  
0 = NOT ACTIVE  
1 = ACTIVE  
FIELD 3: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55  
FIELD 4: 0-23  
0 = MIDNIGHT  
12 = NOON  
FIELD 5: 0-59  
FIELD 6:  
0 = NO RESET NEEDED  
1 = RESET NEEDED (USE PROCEDURE 284 WORD 1)

FADS ACTIVE	AUTO PRINT	OFFSET MINUTES	DISPLAY ONLY			CLOCK RESET	FORCE ADMIN DATA SYSTEM
			TIME OF DAY		426		
			HOURS	MINUTES			
1	2	3	4	5	6		

FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
SYSTEM TRANSLATION AND CLOCK**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 5-9  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

82-FIELD 5: RIGHTMOST (UNITS) DIGIT MUST BE 0 OR 5.  
83-OFFSET CANNOT BE CHANGED WITHOUT REINITIALIZING TRAFFIC (SEE FIELD 6).  
84-THE PEAK AND TIME COINCIDENT TRANSLATION TO BE COPIED (AS ADMINISTERED IN PROC 454) EXCEEDS THE REGULAR STUDY SIZE.  
85-THE REGULAR STUDY SIZE CANNOT BE ADMINISTERED WHEN THE CURRENT STUDY (AS ADMINISTERED IN PROC 414) EXCEEDS THE REGULAR STUDY SIZE OR WHEN A PEAK REGISTER GREATER THAN 2000 IS ASSIGNED.

NOTES:

1. TO RESET TRAFFIC OUTPUT REGISTERS, DISPLAY CORRECT OFFSET IN FIELD 5, SET FIELD 6 TO 1 AND USE THE CHANGE ROUTINE.
2. FIELD 6 REINITIALIZES TRAFFIC STUDIES.
3. FIELD 7 REWRITES ALL PEAK AND TIME COINCIDENT ASSIGNMENTS WITH CUSTOMER TRAFFIC STUDIES.
4. FIELD 8 ZEROES TRAFFIC STUDY ASSIGNMENTS.

DISPLAY ONLY

QUEUE PEG TIME

TIME OF DAY

RINGBACK  
QUEUE  
PEG  
TIMING

OFFHOOK  
QUEUE  
PEG  
TIMING

HOUR

MINUTES

OFFSET  
MINUTES

RESET

COPY  
TRANSLATION

ZERO  
TRANSLATION

PEAK  
TIME COINCIDENT  
SIZE

DISP  
ONLY

CLOCK  
ERROR

CUST TRAFF  
STDY XLN & CLK

**450**

1

2

3

4

5

6

7

8

9

10

FIELD LIMITS:

FIELDS 1, 2: 1-99 (UNITS OF 0.1 MINUTES)

FIELD 3: 0-23

FIELD 4: 0-59

FIELD 5: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55

FIELD 6:

- = DO NOT RESET OFFSET OR OUTPUT REGISTERS

1 = RESET OFFSET TO TIME DISPLAYED (FIELD 5) AND RESET ALL TRAFFIC  
OUTPUT REGISTERS

FIELD 7:

- = NO CHANGE

1 = COPY CUSTOMERS PEAK AND TIME COINCIDENT REGISTER ASSIGNMENTS (AS  
ADMINISTERED IN PROC 414) INTO THIS TRAFFIC TRANSLATION. (VERIFY  
COPY USING PROC 454).

FIELD 8:

- = NO CHANGE

1 = ZERO PEAK AND TIME COINCIDENT REGISTER ASSIGNMENTS (AS ADMINISTERED IN PROC 414)

2 = ZERO ARS TRAFFIC STUDIES (AS ADMINISTERED IN PROC 413)

3 = ZERO AAR TRAFFIC STUDIES (AS ADMINISTERED IN PROC 413)

4 = ZERO CALL COVERAGE TRAFFIC STUDIES (AS ADMINISTERED IN PROC 413)

FIELD 9:

- = NO CHANGE

0 = REGULAR STUDY SIZE (2000 REGISTERS)

1 = LARGE STUDY SIZE (4000 REGISTERS)

FIELD 10:

0 = NO

1 = YES (USE PROC 284 WORD 1 TO RESET)

WORD 1A

CUST TRAFF  
STDY XLN & CLK

450



FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
LOAD BALANCE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-2  
NEXT DATA: NOT ALLOWED

NOTES:

1. IF NO TRUNK GROUP IS SPECIFIED, ALL TRUNK GROUPS ARE STUDIED.

FIELD LIMITS:

FIELD 1:  
0 = INACTIVE  
1 = ACTIVE  
FIELD 2:  
- = ALL TRUNK GROUPS  
18-999 = TRUNK GROUPS 18-999

WORD 1	LOAD BALANCE	TRUNK GROUP	CUST TRAFF STDY LOAD BAL
1		2	451

FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
CARRIER USAGE**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1-15  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

81-MODULE 1 MUST BE ASSIGNED.  
83-DATA IN FIELDS 3-14 MUST BE ENTERED  
BEGINNING TO END WITH NO GAPS.

FIELD LIMITS:

FIELD 1:  
0 = INACTIVE  
1 = ACTIVE  
FIELDS 2 & 15: -, 0-30  
FIELDS 3, 6, 9, 12: -, 0-6  
FIELDS 4, 7, 10, 13: -, 0-3

FIELDS 5, 8, 11, 1F (FULL DENSITY):  
0 = SLOTS 0-3  
1 = SLOTS 5-8  
2 = SLOTS 13-16  
3 = SLOTS 18-21

WORD 2	CARRIER USAGE	IN FIRST MODULE												MODULE	CUST TRAFF STDY CARRIER	
		FIRST MODULE	QUARTER CARRIER 1			QUARTER CARRIER 2			QUARTER CARRIER 3			QUARTER CARRIER 4				
			CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER	BEG SLOT ENCODE	CABINET	CARRIER			BEG SLOT ENCODE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	451	



FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
SPECIAL MEASUREMENT GROUPS**

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845552223

INPUT FIELDS:

DISPLAY: 1 OR 1-2  
ADD: 1-2  
REMOVE: 1-2  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL ASSIGNED ROUTING  
PATTERNS, OR CALL COVERAGE  
GROUPS, OR VDN'S (FIELD 2)

SPECIAL ERROR CODES:

83- THE DATA TABLE IS FULL.

NOTES:

1. FIELD 3 COUNTS THE NUMBER OF PATTERNS OR CALL COVERAGE  
GROUPS TO BE STUDIED.  
MAXIMUM: AAR = 30, ARS = 16, CALL COVERAGE = 25.

FIELD LIMITS:

FIELD 1:

1 = ARS  
2 = AAR  
3 = CALL COVERAGE

FIELD 2:

ARS = 1-64  
AAR = 1-640  
CALL COVERAGE = 1-4095

FIELD 3: 0-255

WORD 2

TYPE

MEASUREMENT  
ITEM

DISPLAY  
ONLY

NUMBER  
ASSIGNED

CUST TRAFF  
STDY SPEC MEAS

**453**

1

2

3

FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
PEAK REGISTER ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: NONE, 1, OR 2 & 3  
ADD: 1-3 OR 2-3  
REMOVE: AFTER DISPLAY ONLY  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS THE TRAFFIC PEAK REGISTER ASSIGNMENTS

**SPECIAL ERROR CODES:**

82-TYPE 2 MAY NOT BE ASSIGNED AS PEAK REGISTER.  
83-WHEN THE REGULAR STUDY SIZE IS ADMINISTERED (SEE FIELD 4 AND PROC 450, FIELD 9), THE PEAK REGISTER NUMBER CANNOT EXCEED 2000.  
84-THE REGULAR STUDY SIZE LIMIT HAS BEEN REACHED. TO ADMINISTER MORE REGISTERS, THE LARGE STUDY SIZE MUST BE ADMINISTERED IN PROC 450 WORD 1.

**NOTES:**

1. THE REMOVE ROUTINE REMOVES ALL TIME COINCIDENT REGISTER ASSIGNMENTS FOR PEAK REGISTER REMOVED.
2. USE PROC 450 WORD 1 TO COPY CUSTOMER ASSIGNMENTS (FROM PROC 414).
3. IF FIELD 1 IS DASHED DURING THE ADD ROUTINE, THE FIRST AVAILABLE PEAK REGISTER IS SELECTED.

WORD 1	PEAK			DISPLAY ONLY		CUST TRAFF STDY PEAK REG
	PEAK REGISTER	TYPE	ITEM	STUDY SIZE	PEAK AND TIME COINCIDENT REGISTERS	
	1	2	3	4	5	<b>454</b>

NOTES CONTINUED:

4. THE MAXIMUM NUMBER OF PEAK REGISTERS PLUS TIME COINCIDENT  
REGISTERS ASSIGNED CAN BE 2000-5999 DEPENDING ON THE MIX  
OF PEAK VS TIME COINCIDENT ASSIGNMENTS AND THE STUDY SIZE.

FIELD LIMITS:

FIELD 1: -, 1-4000

FIELD 2:

- 1 = TRAFFIC TRUNK GROUP COMBINATION USAGE
- 3 = NETWORK AND PROCESSOR MEASUREMENTS
- 5-9 = TRUNK GROUP MEASUREMENTS
- 10-12 = TIMESLOT INTERCHANGER MEASUREMENTS
- 13-14 = TIME MULTIPLEX SWITCH MEASUREMENTS
- 20 = ATTENDANT FEATURE MEASUREMENTS (CONSOLE TOTALS)
- 21-23 = ATTENDANT FEATURE MEASUREMENTS (PER CONSOLE)
- 30-34 = QUEUING MEASUREMENTS (PRIORITY QUEUES)
- 40-44 = QUEUING MEASUREMENTS (NON-PRIORITY QUEUES)
- 50-52 = MAIN/SATELLITE MEASUREMENT
- 60 = CAS MEASUREMENT
- 61-63 = ACD AND MESSAGE CENTER MEASUREMENTS

65-66, 68-69 = TRUNK GROUP DATA MEASUREMENTS

70 = TRUNK GROUP BUSY OUT USAGE

71-73 = TRUNK GROUP GLARE MEASUREMENTS

74 = TRUNK GROUP BUSY USAGE

FIELD 3: 1-999

FIELD 4:

0 = REGULAR STUDY (2000 REGISTERS)

1 = LARGE STUDY (4000 REGISTERS)

FIELD 5: 0-5999

SEE SUPPORT DOCUMENTATION FOR FIELD 3 ENCODES WITH RESPECT TO FIELD  
2 ENCODES.

CUST TRAFF  
STDY PEAK REG

454

FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
TIME COINCIDENT REGISTER ASSIGNMENTS**

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845552223

**INPUT FIELDS:**

DISPLAY: 1 OR 1, 5 AND 6  
ADD: 1 AND 5-6  
REMOVE: 1-6  
CHANGE: NOT ALLOWED  
NEXT DATA: DISPLAYS ALL THE TIME COINCIDENT TRAFFIC ASSIGNMENTS ASSOCIATED WITH ALL PEAK REGISTERS.

**SPECIAL ERROR CODES:**

81-THE PEAK REGISTER MUST BE ASSIGNED IN WORD 1.  
83-WHEN THE REGULAR STUDY SIZE IS ADMINISTERED (PROC 450 WORD 1), THE PEAK REGISTER NUMBER CANNOT EXCEED 2000.  
84-THE REGULAR STUDY SIZE LIMIT HAS BEEN REACHED. TO ADMINISTER MORE REGISTERS, THE LARGE STUDY SIZE MUST BE ADMINISTERED IN PROC 450 WORD 1.

**NOTES:**

1. SEE SUPPORT DOCUMENTATION FOR TYPE AND ITEM ENCODES (FIELDS 2-3, 5-6).
2. TO REMOVE PEAK AND ALL CORRESPONDING TIME COINCIDENT ASSIGNMENTS, USE WORD 1.
3. FIELD 4, SYSTEM ASSIGNED, BEGINS WITH 1 FOR EACH NEW PEAK. IT IS NEEDED AS INPUT TO PROC 461.

WORD 2	DISPLAY ONLY		DISPLAY ONLY	TIME COINCIDENT		DISPLAY ONLY	CUST TRAFF STDY TC REG  <b>454</b>	
	PEAK REGISTER		PEAK	TIME COINCIDENT REGISTER	TYPE	ITEM		PEAK AND TIME COINCIDENT REGISTERS
	1	2	3	4	5	6		7

NOTES CONTINUED:

4. THE MAXIMUM NUMBER OF PEAK REGISTERS PLUS TIME COINCIDENT REGISTERS ASSIGNED  
CAN BE 2000-5999 DEPENDING ON THE MIX OF PEAK VS TIME COINCIDENT ASSIGNMENTS  
AND THE STUDY SIZE.

FIELD LIMITS:

FIELD 1: -, 1-4000

FIELDS 2 & 5: 1-3, 5-14, 20-23, 30-34,  
40-44, 50-52, 60-63,  
65-66, 68-74

FIELDS 3 & 6: 1-999

FIELD 4: 1-5997

FIELD 7: 0-5998

WORD 2A

CUST TRAFF  
STDY TC REG

454



FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC STUDIES  
MAIN/SATELLITE TRANSLATION**

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845552223

**INPUT FIELDS:**

DISPLAY: 1, OR NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
DASH FIELD 2 AND USE THE CHANGE  
ROUTINE.  
CHANGE: 1-2  
NEXT DATA: DISPLAYS ALL TRUNK GROUPS WITH  
TRAFFIC SATELLITE ASSIGNMENTS.

**SPECIAL ERROR CODES:**

82-IF FIELD 2 IS 1-4, TRUNK GROUP MUST BE ASSIGNED AS  
MAIN/SATELLITE IN PROC 104.

**NOTES:**

1. SATELLITES 1-4 ARE DEFINED, FOR TRAFFIC STUDY PURPOSES, BY  
ADMINISTERING SATELLITE NUMBER 1-4 IN FIELD 2 TO ALL  
RELEVANT MAIN/SATELLITE TRUNK GROUPS.

**FIELD LIMITS:**

FIELD 1: 18-999  
FIELD 2:  
- = UNASSIGNED  
1-4 = SATELLITE

TRUNK  
GROUP

SATELLITE

1

2

CUST TRAFF  
STDY MAIN/SAT

**455**

FLIPCHART  
ISSUE 9

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CUSTOMER TRAFFIC  
DATA DISPLAY AND RESET

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845552223

INPUT FIELDS:

DISPLAY: 1, 1-2, 1-3, OR 1-4  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 1 & 5, 1-2 & 5, 1-3 & 5, OR 1-4 & 5  
NEXT DATA: STEPS THROUGH ANY INDEX OF A  
CATEGORY IF THE INDEX TO BE STEPPED  
ON IS DASHED.

CAUTIONS:

1. WHEN A CATEGORY IS ZEROED, IT ZEROES ALL CATEGORIES IN  
THE PACKET.  
SPECIAL ERROR CODES:  
81-FOR CATEGORY 2, THE MODULE IN INDEX 1 MUST BE LESS THAN THE  
MODULE IN INDEX 2.  
82-STUDY NOT ACTIVE - SEE PROC 451 WORD 1.  
83-TO RESET (ZERO) A SINGLE TRAFFIC REGISTER:  
DISP REG, SET FLD 5 = 1, ADD EXECUTE THE CHANGE ROUTINE.  
FIELDS 1-4 MUST NOT BE CHANGED AFTER DISPLAY.

84-TO RESET (ZERO) A ENTIRE PACKET: ENTER ANY CATEGORY  
IN THE PACKET IN FIELD 1, DASH FIELDS 2-4, SET  
FIELD 5 = 9, AND EXECUTE THE CHANGE ROUTINE.  
85-IN CATEGORY 2, INTERLOAD BALANCE DOES NOT APPLY TO A  
ONE - MODULE SYSTEM.  
91-THE DOUBLE PRECISION DATA EXCEEDS 99, 942, 399.  
92-THIS CATEGORY IS RESERVED FOR FUTURE USE.

WORD 1

CATEGORY

INDEX 1

INDEX 2

INDEX 3

RESET

DISPLAY ONLY

DATA

POWER  
OF 10

CUST TRAFF  
DATA DISPLAY

461

1

2

3

4

5

6

7

NOTES:

1. SEE SUPPORT DOCUMENTATION FOR ALL FIELD INPUTS AND DESCRIPTIONS.
2. FIELD 7 IS USED WHEN DOUBLE PRECISION DATA IS DISPLAYED TO SPECIFY THE NUMBER OF ZEROS TO APPEND TO THE DATA IN FIELD 6.

FIELD LIMITS:

FIELD 1: 1-28

FIELD 2: -, 0-4000

FIELD 3: -, 1-5998

FIELD 4: -, 1-32

FIELD 5:

- = NO RESET

1 = RESET SINGLE REGISTER TO ZERO

9 = RESET ENTIRE PACKET TO ZERO

FIELD 6: 0-99999

FIELD 7: -, 0-3

WORD 1A

CUST TRAFF  
DATA DISPLAY

461



FLIPCHART  
ISSUE 9

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**CUSTOMER TRAFFIC  
NETWORK CHANNEL INDEX DISPLAY**

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845552223

**INPUT FIELDS:**

DISPLAY: 2 OR NONE  
 ADD: NOT ALLOWED  
 REMOVE: NOT ALLOWED  
 CHANGE: NOT ALLOWED  
 NEXT DATA: DISPLAYS ALL INDEX 1 CHANNEL NUMBERS

**NOTES:**

1. SEE SUPPORT DOCUMENTATION FOR ALL FIELD INPUTS AND DESCRIPTIONS.  
**FIELD LIMITS:**  
 FIELD 1: 20  
 FIELD 2: -, 1-128  
 FIELD 3:  
 0 = LOGICAL SWITCH LINK  
 1-8 = PHYSICAL DCIU LINK

FIELD 4: -, 1-64

FIELD 5:  
 - = ALTERNATE ROUTING IS IN EFFECT  
 0 = LOGICAL SWITCH LINK  
 1-8 = PHYSICAL DCIU LINK  
 FIELD 6:  
 - = ALTERNATE ROUTING IS IN EFFECT  
 1-64 = PORT

WORD 3	DISPLAY ONLY		DISPLAY ONLY				CUST TRAFF NTWK CHAN INDX
	CATEGORY	INDEX 1	NETWORK CHANNEL A		NETWORK CHANNEL B		
			LINK (SWITCH)	BX.25 LOGICAL CHANNEL (PORT)	LINK (SWITCH)	BX.25 LOGICAL CHANNEL (PORT)	
	1	2	3	4	5	6	<b>461</b>



FIELD LIMITS:

FIELD 1: 1-999

FIELDS 2 & 3: -, 0-9999

FIELD 4: -, 000-199

FIELD 5: -, 1-999

FIELD 6: -, 0-99999

FIELD 7:

0 = NO

1 = YES

WORD 1A

PATCH  
BLK IDENT

490

FLIPCHART  
ISSUE 9

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PATCH DATA

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: 2-3, AFTER DISPLAY ONLY  
REMOVE: NOT ALLOWED  
CHANGE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

SPECIAL ERROR CODES:

80-CANNOT ACCESS THE TAPE SYSTEM. REPEAT THE ADD OR DISPLAY ROUTINE AND REPORT TROUBLE.  
81-REENTER DATA IN FIELDS 2-3.  
82-TAPE OPERATION FAILED. REPEAT THE ADD OR DISPLAY ROUTINE AND REPORT TROUBLE.  
83-SYSTEM IS OPERATING ON HOLDOVER POWER. TRY AGAIN LATER.  
84-INSERT CARTRIDGE IN THE TAPE DRIVE AND REPEAT THE ROUTINE.  
85-REENTER ALL DATA BEGINNING WITH THE WORD 1 ADD ROUTINE.  
86-DO A DISPLAY ROUTINE BEFORE DOING AN ADD ROUTINE.

87-THE TAPE CARTRIDGE IS WRITE PROTECTED.

NOTES:

STEPS TO ENTER A NEW PATCH

1. USE THE DISPLAY ROUTINE. (FIELDS 1 AND 4 = 1)
2. ENTER ADDRESS AND DATA LINE BY LINE. AFTER THE LAST LINE HAS BEEN ENTERED, FIELDS 1-3 DISPLAY DASHES.
3. WHEN FIELD 4 = 2, DO AN ADD ROUTINE TO WRITE PATCH TO MEMORY
4. WHEN FIELD 4 = 3, DO AN ADD ROUTINE TO WRITE PATCH TO TAPE.

WORD 2	DISP ONLY	MEMORY ADDRESS	CONTENTS OF MEMORY ADDRESS	DISP ONLY	PATCH DATA
	LINE NUMBER				
	1	2	3	4	490

NOTES CONTINUED:

STEPS TO COPY PATCH ON TAPE:

1. USE THE DISPLAY ROUTINE FIELD 4 = 3.
2. INSERT TAPE CARTRIDGE SO THE PATCH CAN BE COPIED.
3. USE THE ADD ROUTINE. AFTER THE WAIT LAMP IS OFF, STEPS 1-3 CAN BE REPEATED IF NECESSARY.

FIELD LIMITS:

FIELD 1: 1-999

FIELDS 2 & 3: 0-77777777

FIELD 4:

- 1 = ENTER PATCH DATA
- 2 = DO AN ADD ROUTINE TO WRITE THE PATCH TO MEMORY
- 3 = DO AN ADD ROUTINE TO WRITE THE PATCH TO TAPE

WORD 2A

PATCH  
DATA

490

CUSTOMER IDENTIFICATION CHARACTER ENCODES

845552223

NOTES: MAAP CHARACTER ENCODES:

A - 21	H - 42	O - 63	V - 83	a - 24	h - 45	o - 66	v - 86	0 - 00	7 - 07	. - 10	' - 29	\ - 70	+ - 59	& - 88
B - 22	I - 43	P - 71	W - 91	b - 25	i - 46	p - 74	w - 94	1 - 01	8 - 08	! - 17	, - 30	[ - 67	* - 60	€ - 89
C - 23	J - 51	Q - 11	X - 92	c - 26	j - 54	q - 14	x - 95	2 - 02	9 - 09	? - 18	( - 37	] - 68	< - 77	\$ - 90
D - 31	K - 52	R - 72	Y - 93	d - 34	k - 55	r - 75	y - 96	3 - 03		; - 19	) - 38	- 69	> - 78	BLANK - 50
E - 32	L - 53	S - 73	Z - 12	e - 35	l - 56	s - 76	z - 15	4 - 04		: - 20	[ - 47	- - 39	= - 79	~ - 40
F - 33	M - 61	T - 81		f - 36	m - 64	t - 84		5 - 05		' - 27	] - 48	^ - 49	% - 80	
G - 41	N - 62	U - 82		g - 44	n - 65	u - 85		6 - 06		' - 28	/ - 57	- - 58	# - 87	

ILLEGAL ENCODES:

13  
16  
97  
98  
99

WORD 0

A CONVENIENT WAY EXISTS FOR RECALLING THE TWO DIGIT ENCODES FOR NUMBERS AND LETTERS WITHOUT CONSTANT REFERENCE TO THIS TABLE. FOR NUMBERS: THE FIRST DIGIT IS 0, THE SECOND IS THE NUMBER ITSELF. MOST ALPHABETIC ENCODES ARE DERIVED FROM THE CHARACTER POSITION ON THE TOUCH-TONE PAD OF THE MAAP. (THE EXCEPTIONS ARE Q AND Z WHICH ARE ASSUMED TO RESIDE ON BUTTON 1.) FOR UPPER CASE LETTERS: THE FIRST DIGIT CORRESPONDS TO THE NUMBER OF THE KEY ON WHICH THE LETTER APPEARS; THE SECOND DIGIT CORRESPONDS TO THE POSITION OF THE LETTER AMONG THE THREE LETTERS ON THAT KEY. FOR LOWER CASE LETTERS: THE ENCODE IS DERIVED BY ADDING 3 TO THE CORRESPONDING UPPER CASE ENCODE.

CUSTOMER IDENTIFICATION

497

FLIPCHART  
ISSUE 9

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**CUSTOMER SERIAL NUMBER AND SOFTWARE VERSION**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: NONE  
NEXT DATA: 100 NOT ALLOWED

NOTE:

1. DO NOT CHANGE FIELD 2. IF FIELD 2 IS CHANGED,  
YOUR CUSTOMER SERIAL NUMBER MAY BE CONFUSED WITH  
ANOTHER CUSTOMER'S SERIAL NUMBER.

FIELD LIMITS:

FIELD 1: IS ALWAYS 0 FOR SYSTEM 85.  
FIELD 2: 000000001-999999999  
FIELDS 3-5: 0-99.  
FIELD 6: 1-99.  
FIELD 7:  
1 = A  
2 = B  
3 = C, ETC.

WORD 1	PRODUCT IDENTIFICATION				DISPLAY ONLY			CUSTOMER SERIAL NBR
	DISP ONLY	SERIAL NUMBER	DOT ISSUE (.)	RELEASE LEVEL NO. (V)	OFFICIAL ISSUE (I)	RELEASE (R)	MEMORY SIZE	
	SYSTEM							
1		2	3	4	5	6	7	<b>497</b>

FLIPCHART  
ISSUE 9

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**CUSTOMER IDENTIFICATION**

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845552223

INPUT FIELDS:

DISPLAY: 1  
ADD: NOT ALLOWED  
REMOVE: NOT ALLOWED  
CHANGE: 2-11  
NEXT DATA: NOT ALLOWED

NOTES:

1. CUSTOMER NAME IS DIVIDED INTO 2 SEGMENTS OF 10 CHARACTERS EACH.
2. SEE WORD 0 FOR CHARACTER ENCODES.

FIELD LIMITS:

FIELD 1:  
1 = CHARACTERS 1-10  
2 = CHARACTERS 11-20  
FIELDS 2-11: -, 00-12, 14-15, 17-96

CUSTOMER NAME

CUSTOMER  
IDENTIFICATION

**497**

WORD 2

SEGMENT

CHARACTERS  
1 OR  
11

CHARACTERS  
2 OR  
12

CHARACTERS  
3 OR  
13

CHARACTERS  
4 OR  
14

CHARACTERS  
5 OR  
15

CHARACTERS  
6 OR  
16

CHARACTERS  
7 OR  
17

CHARACTERS  
8 OR  
18

CHARACTERS  
9 OR  
19

CHARACTERS  
10 OR  
20

1

2

3

4

5

6

7

8

9

10

11

FLIPCHART  
ISSUE 9

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**CUSTOMER ALARM PHONE NUMBER**

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845552223

INPUT FIELDS:

DISPLAY: NONE  
ADD: NOT ALLOWED  
CHANGE: 1-5  
REMOVE: NOT ALLOWED  
NEXT DATA: NOT ALLOWED

NOTES:

1. FIELDS 1 AND 2 ARE OPTIONAL. FIELDS 3 AND 4 ARE  
REQUIRED ENTRIES FOR THE ALARM REPORTING TELEPHONE  
NUMBER.

FIELD LIMITS:

FIELD 1: -, 1-9  
FIELD 2: 999  
FIELD 3: 200-999  
FIELD 4: 0-9999  
FIELD 5: 000000-999999

ALARM REPORTING TELEPHONE NUMBER

WORD 3

PREFIX

AREA  
CODE

OFFICE  
CODE

STATION  
NUMBER

SECURITY  
CODE

**CUSTOMER  
ALARM PHONE  
NBR**

**497**

1

2

3

4

5

## FLIPCHART

ISSUE 1

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## ALARM CAUSES/ERROR LOG

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84552223

## UNIT TYPE (FIELD 2):

1 = ENVIRONMENT

2 = TAPE

3 = INIT CAUSES

4 = COMMON CONTROL I/O

5 = MEMORY

6 = MODULE CONTROL CHANNEL

7 = TMS/MODULE PROCESSOR

8 = MAINT INTERFACE

9 = MODULE CLOCK

10 = TSI ALU

11 = TSI PSTORE

12 = I/O BUS INTERFACE

13 = PORT DATA STORE

14 = PORT CONTROL INTERFACE

15 = PORT DATA INTERFACE

16 = TONE PLANT

17 = ATTENDANT CONSOLE

18 = CACHE

19 = DCIU

20 = SMDR

21 = ANI

22 = PROCESSOR DUPLICATION

23 = TMS/NETWORK DUPLIC.

24 = TT SENDER

25 = TT RECEIVER

26 = NETWORK I/O

27 = GENERAL PURPOSE PORT

28 = 72 SERIES (MFET) PORT

29 = LINE CIRCUIT

30 = EVEN PORT PERIPHERALS

31 = AUXILIARY TONE PLANT

32 = CO TRUNK

33 = DID TRUNK

34 = TIE TRUNK/DATA PORT

35 = DIGITAL TRUNK

36 = DIGITAL USER PROBLEM

37 = CALLING NUMBER DISPLAY

38 = REAL TIME CLOCK SYNC

39 = FADS DISPLAY

40 = NON-NETWORK PERIPHERALS

41 = TRUNK, SOFTWARE

42 = CALLS ABORTED

43 = STATUS MEMORY AUDITS

44 = ATTENDANT CONSOLE INTF

45 = AUXILIARY TRUNK

46 = ATTENDANT CONFERENCE

48 = ODD PORT PERIPHERALS

49 = MAINT. AND ADMIN. PANEL

50 = TMS CLOCK OSCILLATOR

51 = LOCAL CLOCK TERMINATION

52 = SYSTEM CLOCK SYNC.

53 = MULTIPLEXER

54 = FANOUT

55 = MODULE INTERFACE

56 = INTERMODULE DATA STORE

57 = LIGHT GUIDE INTERFACE

58 = FANIN

59 = TMS MAINTENANCE

60 = DIAGNOSTIC PROCESSOR/  
REMOTE INTERFACE

61 = CONFIGURATION AUDITS

62 = ANALOG/DIGITAL FACILITY TST

63 = EXTERNAL EQUIPMENT

64 = EXTERNAL PROCESSOR

65 = MODEM POOLING

66 = TONE DETECTOR 2

67 = UNDEFINED EXCEPTION FIFO CODE

68 = DS1

69 = MFAT

70 = AUTO. TRANS. MEASUREMENT SYS.

71 = REMOTE MODULE INTERFACE

72 = EIA

73 = DEDICATED SWITCH CONN. (DSC)

74 = REMOTE CARRIER GROUP (RCG)

75 = PRIMARY RATE INTERFACE (PRI)

76 = ISDN ERROR PROCESSING

77 = PROC. COMM. CKT. (PCC)

## ALARM STATUS (FIELD 8):

0 = NO ERRORS RECORDED

1 = MAJOR

2 = MINOR

3 = WARNING

4 = ERRORS RECORDED

5 = ALARM RESOLVED

## STAMP INDEX (FIELD 11):

1 = TIME OF MOST RECENT ERROR/  
TIME ALARM RESOLVED

2 = TIME WHEN ERROR BEGINS

3 = TIME WHEN ERROR WAS  
ALARMEDGENERAL  
SYSTEM

600

01000

FLIPCHART  
ISSUE 1

**ALARM CAUSES/ERROR LOG**

84552223

TEST 1: DISPLAYS FAILURE HISTORY IN ORDER OF IMPORTANCE FOR ALARMED FAILURES. USE 'NEXT CIRCUIT' TO DISPLAY NEXT ALARMED CIRCUIT. USE 'NEXT DATA' TO DISPLAY NEXT TIME STAMP. USE 'CLEAR DATA', 'EXECUTE' TO RETIRE ALARM FOR DISPLAYED ENTRY OR ALL ALARMS WHEN EXECUTED WITH A SUMMARY DISPLAYED.

TEST 2: DISPLAYS FAILURE HISTORY FOR CIRCUITS WHICH HAVE BEEN ALARMED OR WHICH HAVE ERRORS RECORDED BY UNIT TYPE. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT. USE 'NEXT UNIT' TO SELECT NEXT UNIT TYPE. USE 'NEXT DATA' TO DISPLAY NEXT TIME STAMP. USE 'CLEAR DATA', 'EXECUTE' TO CLEAR FAILURE HISTORY OF THE DISPLAYED LOCATION OR ALL ENTRIES FOR THE ENTERED UNIT TYPE.

TEST 3: DISPLAYS RESOLVED ALARMED ENTRIES BY UNIT TYPE. USE 'NEXT CIRCUIT' TO DISPLAY NEXT RESOLVED CIRCUIT. USE 'NEXT UNIT' TO DISPLAY NEXT UNIT TYPE. USE 'NEXT DATA' TO DISPLAY NEXT TIME STAMP. USE 'CLEAR DATA', 'EXECUTE' TO CLEAR FAILURE HISTORY FOR DISPLAYED ENTRY OR ALL ENTRIES WHEN EXECUTED WITH A DASH IN FIELD 2.

NOTE: THE TEST NUMBER CAN ONLY BE CHANGED BY 'NEXT TEST'.

(CONTINUED ON WORD 0)

TEST NO	TEST 2 & 3	EQUIPMENT LOCATION					ALARM STATUS	TOTAL FAILS	CIRCUIT ENTRY INDEX	TIME STAMP				PROC REFER.	GENERAL SYSTEM
	UNIT TYPE	MODULE OR STATUS MEMORY	CABINET	CARRIER	SLOT	CIRCUIT				STAMP INDEX	DAY	HOUR	MINUTE		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	<b>600</b>

FLIPCHART  
ISSUE 1

ENVIRONMENTAL TEST

84552223

TEST 1: DISPLAYS FAILURE HISTORY BY ALARM SEVERITY. USE 'CLEAR DATA,' 'EXECUTE' TO RETIRE ALARM.

TEST 2: TESTS ALL CABINETS OR RANGE OF CABINETS IN SYSTEM FOR ALARM CONDITIONS.

FIELD LIMITS:  
MCC STATUS (FIELD 4):  
0 = OFF LINE  
1 = ON LINE

ALARM STATUS (FIELD 15):  
DISPLAYS HIGHEST CABINET ALARM  
0 = NO ERRORS RECORDED  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

NOTES:  
1. THE TEST NUMBER CAN ONLY BE CHANGED BY 'NEXT TEST.'

SPECIAL ERROR CODES:  
80-NO ALARMS  
81-MESSAGE TRANSMISSION TO MODULE CONTROL CHANNEL FAILED

USE 'NEXT UNIT' TO READ ALARM CONDITIONS FROM OFF-LINE MODULE CONTROL CHANNEL.

CABINET ALARM CAUSE (FIELDS 5-14):  
0 = PASS  
1 = ALARM CONDITION PRESENT

USE 'NEXT CIRCUIT' TO DISPLAY NEXT CIRCUIT LOCATION

TEST NO	EQUIPMENT LOCATION		MCC STATUS	CABINET ALARM CAUSE										ALARM STATUS	NUMBER OF CABINETS OR NUMBER TESTED	TOTAL FAILURES	FAILURE INDEX	GENERAL SYSTEM
	TEST 2			CABINET POWER		FUSE/BKR	DC/DC CONV	FREQ GEN	AIR FLOW	TEMPERATURE	HOLD OVER	MODULE CTRL CARRIER POWER						
	MODULE	CABINET		AC	48 VOLT							LEFT	RIGHT					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	601

FLIPCHART  
ISSUE 4

TAPE TEST

845552223

TEST 1: DISPLAYS ALARMED TAPE FAILURES. USE 'CLEAR DATA', 'EXECUTE' TO RETIRE ALARM.

TEST 2: PERFORM RESET OF TN430 AND DIAGNOSE OF HCMR.

FIELD LIMITS:  
FIELDS 2-8:  
1-FIRST INDICTMENT  
2-SECOND INDICTMENT (IF ANY)  
3-THIRD INDICTMENT (IF ANY)

ALARM STATUS (FIELD 9)  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

USE 'NEXT CIRCUIT' TO DISPLAY FAILURES (TESTS 1 AND 2)

USE 'NEXT DATA' TO CYCLE THROUGH BEGINNING & ENDING TIME STAMP. (TEST 1)

TEST NUMBER	EQUIPMENT							ALARM STATUS	NUMBER FAILURES	INDEX	FAULT CODE	TEST 1			HOURS SINCE LAST RUN TAPE	COMMON CONTROL TESTS
	TAPE INFO	HCMR					CARTRIDGE					TIME				
		COUNT	DATA	EXPORT	SERVICE	POWER						DAY	HR	MIN		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	610

FLIPCHART  
ISSUE 2

**COMMON CONTROL TESTS**

84552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'CLEAR DATA,' 'EXECUTE' TO RETIRE ALARM. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT.

TEST 2: TESTS ALL CIRCUITS. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT.

TEST 3: TESTS A PARTICULAR CIRCUIT CONTINUOUSLY. USE 'NEXT CIRCUIT' TO DISPLAY NEXT CIRCUIT.

FIELD LIMITS:  
ALARM STATUS (FIELD 7):  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

CIRCUIT TYPE (FIELD 8):  
1 = 4MHZ CHANNEL  
2 = DUAL SPEED CHANNEL  
3 = I/O BUFFER BOARD  
  
REMOTE STATUS (FIELD 9):  
0 = LOCAL  
1 = REMOTE

SPECIAL ERRORS CODES:  
81-PCC CIRCUIT RESIDES IN THIS SLOT. TEST IN PROC 651.

TEST NUMBER	EQUIPMENT LOCATION					ALARM STATUS	CIRCUIT TYPE	REMOTE STATUS	FAILURE INDEX	SPECIAL FAULT CODE	TEST 1		COMMON CONTROL TEST	
	TEST 3										NO OF CHANNELS TRANSLATED	NO OF I/O CKT PACKS		
	MOD	CAB	CAR	SLOT	CHANNEL									TEST 3
	1	2	3	4	5						6	7		8
														<b>611</b>

FLIPCHART

ISSUE 1

INITIALIZATION CAUSES

845552223

USE 'NEXT FAULT' TO DISPLAY NEXT INIT CAUSE. USE 'CLEAR DATA', 'EXECUTE' TO RETIRE ALARMS. SELECT INIT NO. = 99 AND USE 'CLEAR DATA', 'EXECUTE' TO ZERO ALL MAINTENANCE DATA. 99 IS ONLY VALID INPUT.

INIT CAUSE CODES (FIELD 3):

- 1 = SHORT POWER FAIL
- 2 = MICRO MEM PARITY
- 3 = SANITY TIME OUT
- 4 = I/O SANITY TIME OUT
- 5 = MEMORY PARITY-LOW
- 6 = MEMORY PARITY-HIGH
- 7 = MEMORY PARITY-BOTH
- 8 = ILLEGAL OP CODE

- 9 = FETCH ABORT
- 10 = WRITE PROTECT
- 11 = ILLEGAL MICRO INST
- 12 = BUS TIME OUT
- 13 = DUP CHANNEL RECEIVE
- 14 = DUP ILLEGAL INST
- 15 = CACHE PARITY-LOW
- 16 = CACHE PARITY-HIGH
- 17 = CACHE PARITY-BOTH

- 18 = 501CC DIAG. REG.
- 19 = REC FROM SUICIDE
- 20 = HOLD/GET OVERFLOW
- 21 = LONG PWR FAIL
- 22 = MICRO DIAG 15
- 23 = HOLD GET AREA
- 24 = BRANCH TO ZERO
- 25 = INTERRUPT AREA
- 26 = FALSE ID

- 27 = 2 PROCESSORS ONLINE
- 28 = PROCESSOR SUICIDE
- 29 = 5 SHORT INITS
- 30 = DUP MEM MATCH
- 31 = PARITY AUDIT
- 32 = XRAY PROCESSOR
- 33 = XRAY MEMORY
- 34 = MICRO DIAGNOSTIC
- 35 = PROCESSOR SWITCH

- 36 = HALT/GO
- 37 = CACHE RECOVERY
- 38 = MEM RECOVERY
- 39 = EMER TRANSFER
- 40 = NETWORK TEST CONTROLLER
- 41 = DUPLICATION CHANNEL BAD
- 42 = I/O

PROCESSOR HEALTH (FIELD 10):  
 0 = PASS    2 = SOFT B  
 1 = SOFT A  
 3 = HARDWARE

NOTE: MEMORY BLOCK SIZE IS 256K.

INIT FAULT NUMBER	UNIT TYPE	FAULT CODE	ADDRESS		TIME			COUNT TO RELOAD	PROCESSOR HEALTH	COMMON CONTROL TESTS
			MEMORY BLOCK	ADDRESS IN BLOCK (OCTAL)	DAY	HOUR	MINUTE			
1	2	3	4	5	6	7	8	9	10	<b>612</b>

FLIPCHART  
ISSUE 1

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DUPLICATE PROCESSOR CONTROL & TEST

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84552223

(NOTE CONT FROM PROC 613)  
NOTES:

1. PROCESSOR STATUS (FIELD 2):  
0 = OFFLINE  
1 = ONLINE
2. SWITCH STATUS (FIELD 10):  
0 = SWITCH PERMITTED  
1 = SWITCH NOT PERMITTED

ALARM STATUS (FLD 9):  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

SPECIAL ERROR  
CODE:

80-ILLEGAL SWITCH  
ATTEMPT  
81-OFFLINE DCUI  
NOT INIALIZED

WORLD 1A

COMMON  
CONTROL TESTS

**613**

FLIPCHART  
ISSUE 5

DUPLICATE PROCESSOR CONTROL & TEST

845552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'CLEAR DATA,' 'EXECUTE' TO RETIRE ALARM. USE 'NEXT FAULT' TO DISPLAY NEXT FAILURE. USE 'NEXT DATA' TO DISPLAY NEXT STAMP INDEX.

TEST 2: TESTS THE DUPLICATION CHANNEL AND DISPLAYS FAILURE CODE IN FIELD 12. USE ONLY IN ONLINE PROCESSOR.

TEST 3: DISPLAYS HEALTH CODE OF BOTH PROCESSORS. USE 'NEXT UNIT' TO SWITCH PROCESSORS IF SWITCH STATUS PERMITS.

TEST 1 FAILURE CODES (FIELD 12):  
SEE DOCUMENTATION.

TEST 2 AND 3 FAILURE CODES  
(FIELD 12):

0 = PASS  
1-9 = PROCESSOR STATUS  
11-19 = DOUBLE WRITE FF  
21-29 = MEMORY UPDATE FF

31-39 = READ/WRITE  
41-49 = BLOCK TRANSFER  
51-59 = ID CHIP  
61-69 = PARITY  
71-94 = UNUSED  
95 = SWITCH ATTEMPT FAILED  
96 = OFFLINE DCIU  
NOT INITIALIZED

97 = UNRESOLVED DUPLICATION FAILURE  
98 = DUPLICATION STATUS REGISTER  
99 = OFFLINE PROCESSOR RELOAD

(CONTINUED ON WORD 1A)

TEST NO	PROCESSOR STATUS	HEALTH CODE			HEALTH CODE OF OTHER PROCESSOR			ALARM STATUS	SWITCH STATUS	FAULT INDEX	FAILURE CODE	TIMES FAILED	TIME STAMP				COMMON CONTROL TESTS
		HARDWARE	SOFT B	SOFT A	HARDWARE	SOFT B	SOFT A						STAMP INDEX	DAY	HOUR	MINUTE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	613

FLIPCHART

ISSUE 1

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MEMORY READ/MEMORY MATCH TESTS

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845552223

NOTES:

1. THE MEMORY MATCH TESTS (2-4) COMPARE THE CONTENTS OF CORRESPONDING LOCATIONS IN DUPLICATED COMMON CONTROLS. THE RANGE OF MEMORY TESTED IS RESTRICTED TO THE PROGRAM PATCH AND TRANSLATION AREAS. TEST 5 IS NOT RESTRICTED AND ALLOWS THE CONTENTS OF MEMORY TO BE READ OVER THE FULL RANGE OF MEMORY.
2. MEMORY ADDRESSES AND CONTENTS ARE DISPLAYED IN OCTAL.

MEMORY AREA CODE (FIELD 7):

- |                                 |                             |  |
|---------------------------------|-----------------------------|--|
| 1 = PROGRAM ONLY                | 8 = OTHER                   | 13 = PROGRAM, TRANSLATION & OTHER        |
| 2 = PATCH ONLY                  | 9 = PROGRAM & OTHER         | 14 = PATCH, TRANSLATION & OTHER          |
| 3 = PROGRAM & PATCH             | 10 = PATCH & OTHER          | 15 = PROGRAM, PATCH, TRANSLATION & OTHER |
| 4 = TRANSLATION ONLY            | 11 = PROGRAM, PATCH & OTHER |  |
| 5 = PROGRAM & TRANSLATION       | 12 = TRANSLATION & OTHER    |  |
| 6 = PATCH & TRANSLATION         |                             |  |
| 7 = PROGRAM PATCH & TRANSLATION |                             |  |

SPECIAL ERROR CODES:

- 74-MEMORY MATCH TEST NOT PERFORMED
- 80-LOCATION OUT OF MEMORY RANGE
- 82-USE PROC 613 TO CLEAR DUPLICATION CHANNEL FAILURES

NOTE: MEMORY BLOCK SIZE IS 256K.

WV(MI) 0

- |                                |                                     |                                      |
|--------------------------------|-------------------------------------|--------------------------------------|
| FAILURE CODE (FIELD 8):        | 6 = MEMORY ID CHIP ERRORS           | 14 = 50% OR MORE SUPERSET FAILED     |
| 0 = NO FAILURES                | 7 = PARITY CHECK ERRORS             | 15 = TAG/VALID ERROR COUNTER FAILURE |
| 1 = MEMORY MISMATCHES          | 8 = HARD FAILURE                    | 16 = CACHE I/O FAILURE               |
| 2 = PARITY ERRORS              | 9 = ECC TURNED OFF                  | 17 = CACHE INVALIDATION FAILURE      |
| 3 = MEMORY SCRUB ERROR         | 10 = CACHE NOT PRESENT              |                                      |
| 4 = DUPLICATION CHANNEL ERRORS | 11 = CACHE TURNED OFF               |                                      |
| 5 = MEMORY I/O ERRORS          | 12 = CACHE ID CHIP ERROR            |                                      |
|                                | 13 = LESS THEN 50% SUPERSETS FAILED |                                      |

COMMON CONTROL TESTS

**614**

FLIPCHART  
ISSUE 1

MEMORY READ/MEMORY MATCH TESTS

84552223

TEST 1: DISPLAYS A MEMORY FAILURE. USE 'NEXT FAULT' TO ADVANCE AND DISPLAY NEXT FAILURE. USE 'CLEAR DATA', 'EXECUTE' TO RETIRE ALARM, OR ALL MEMORY ALARMS WHEN EXECUTED WITH A SUMMARY DISPLAYED.

TEST 2: TESTS MEMORY ID CHIPS AND LOCATIONS. DISPLAYS SUMMARY AND RANGE OF MEMORY TESTED.

TEST 3: TESTS MEMORY LOCATIONS AND DISPLAYS RANGE OF FAILED BLOCK. DISPLAYS TYPE OF FAILURE AND MEMORY AREA FOR FAILED BLOCK. USE 'NEXT FAULT' TO ADVANCE TO NEXT BLOCK. USE 'NEXT DATA' TO DISPLAY CONTENTS OF FIRST MEMORY LOCATION IN ON-LINE CC, THEN FIRST MEMORY LOCATION IN OFF-LINE CC, THEN ADVANCE TO NEXT MEMORY LOCATION IN ON-LINE CC.

TEST 4: TESTS SPECIFIED RANGE OF MEMORY CONTINUOUSLY.

TEST 5: READS THE CONTENTS OF ANY MEMORY LOCATION OR ANY RANGE OF MEMORY LOCATIONS. USE 'EXECUTE' TO DISPLAY CONTENTS OF FIRST MEMORY LOCATION IN ON-LINE CC. USE 'NEXT DATA' TO DISPLAY CONTENTS OF FIRST MEMORY LOCATION FOR OFF-LINE CC. SUBSEQUENT 'NEXT DATA' OPERATIONS FUNCTION AS IN TEST 3.

TEST 6: CONTINUOUS TEST OF ID CHIP AND SUPERSETS OF THE CACHE MEMORY. USE 'EXECUTE' TO DISPLAY FIRST FAILURE. USE 'EXECUTE' TO ADVANCE AND DISPLAY NEXT FAILURE.

TEST NO	MEMORY LOCATIONS			COMMON CONTROL	TESTS 2&3 TOTAL FAILED WORDS	MEMORY AREAS	TESTS 1,2,3 TOTAL FAILED BLOCKS	COMMON CONTROL TESTS
	TESTS 3,4,&5	TESTS 4&5	TESTS 1,3,4&6 FAILURE CODE					
1	MEMORY BLOCK	TEST 6 CACHE TAG/VALID OR SUPERSET	MEMORY BLOCK	5	TESTS 3&5 CONTENTS OF FIRST MEMORY LOCATION	7	8	614
2								



FLIPCHART  
ISSUE 1

**ALARM PANEL TEST**

845552223

TEST 1:

SIMULTANEOUSLY TESTS ALL INDICATORS SHOWN ON FLIP CHART. USE 'NEXT DATA' TO TURN INDICATORS ON AND OFF.

TEST 2:

INDIVIDUALLY TESTS INDICATORS BY FLASHING THEM AT A 1/2 SECOND ON/OFF RATE. USE 'NEXT DATA' TO ADVANCE TO NEXT INDICATOR OR USE CHANGE SEQUENCE TO SELECT A SPECIFIC FIELD AND ENTER A VALUE OF 1.

SPECIAL ERROR CODE:

80-UNABLE TO DISABLE AAOF AND DP BACKGROUND TESTS.

TEST 2

TEST NO

TEST NO	ALARMS			PROCESSOR/MEMORY						ATND CNSL		ENV	COM CNTRL			NETWORK				APPL PROC		OTHER		
	MAJOR	MINOR	WARNING	MAJOR PRGX	PRGX	MEM	DIAG PRGX	PASS	FAIL	ACK	EXTERNAL ACK	PWR/TMP AIRFLOW	TAPE	CACHE MEMORY	I/O CHANNEL	UNUSED	SWITCH	PORT	PERIPH EXPT	AP INTER	EXT PRGX	OTHER FAILS	EXT EXPT	RMATS DIAG
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

COMMON  
CONTROL TESTS

**616**

FLIPCHART  
ISSUE 1

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**DIAGNOSTIC PROCESSOR/REMOTE  
INTERFACE TEST**

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845552223

UNIT TYPES (FIELD 2)

60 = DIAGNOSTIC  
PROCESSOR/REMOTE  
INTERFACE  
63 = EXTERNAL EQUIPMENT  
64 = EXTERNAL PROCESSOR

ALARM STATUS (FIELD 7):

1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

TEST 1 SPECIFIC FAULT  
CODES (FIELD 9):  
SEE DOCUMENTATION

TESTS 2 AND 3 SPECIFIC  
FAULT CODES (FIELD 9):  
0 = PASS  
SEE DOCUMENTATION FOR  
ALL OTHER VALUES

TESTS 4 AND 5 CALL STATE (FIELD 9):

0 = TESTS CALL NOT RUN  
1 = DIALING IN PROGRESS  
2 = REMOTE MODEM CONNECTED  
3 = TEST DATA RECEIVED  
4 = TEST CALL PASSED, MODEM 0 IDLE,  
AAOF DISABLED  
5 = TEST CALL PASSED, MODEM 0 IDLE,  
AAOF ENABLED  
6 = TEST CALL FAILED, I/O TO DIAGNOSTIC  
PROCESSOR FAILED  
7 = TEST CALL FAILED, CALLING OUT FAILED  
8 = TEST CALL FAILED, TEST DATA  
NOT RECEIVED

9 = TEST CALL FAILED, TEST CALL  
NOT TERMINATED

10 = TEST CALL FAILED, TEST  
CALL ABORTED

11 = TEST CALL FAILED, MODEM 0 BUSY

12 = TEST CALL FAILED, MODEM 1 BUSY

13 = TEST CALL FAILED, MODEMS 0 AND 1 BUSY

STAMP INDEX (FIELD 11):

1 = TIME OF MOST RECENT ERROR/  
TIME ALARM RESOLVED

2 = TIME WHEN ERROR BEGINS

3 = TIME WHEN ERROR WAS ALARMED

0 (RM) 0

COMMON  
CONTROL  
TESTS

**618**

FLIPCHART  
ISSUE 1

DIAGNOSTIC PROCESSOR/REMOTE INTERFACE/ALARM  
INTERFACE TEST

84552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'CLEAR DATA' 'EXECUTE' TO RETIRE ALARM. USE 'NEXT UNIT' TO DISPLAY NEXT UNIT TYPE. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILURE. USE 'NEXT DATA' TO DISPLAY NEXT TIME STAMP.

TEST 2: TEST THE DIAGNOSTIC PROCESSOR COMPLEX AND DISPLAY THE FAILURE CODE IN FIELD 9. USE 'NEXT UNIT' TO DISPLAY NEXT UNIT TYPE. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILURE.

TEST 3: TEST THE DIAGNOSTIC PROCESSOR COMPLEX CONTINUOUSLY AND DISPLAY THE FAILURE CODE IN FIELD 9. USE 'STOP' TO HALT THE TEST. USE 'NEXT UNIT' TO DISPLAY THE NEXT UNIT TYPE. USE 'NEXT CIRCUIT' TO DISPLAY THE NEXT FAILURE.

TEST 4: MAKE A TEST CALL TO RMATS AND DISPLAY THE TEST RESULT.

TEST 5: DISPLAY RESULT OF TEST 4.

(FIELD DEFINITIONS CONT. ON WORD 0)

SPECIAL ERROR CODE:  
80-THERE IS REDUCED TESTING FUNCTIONALITY  
81-DMIDS OVERFLOW  
82-MODEM 0 BUSY  
83-MODEM 1 BUSY  
84-MODEMS 0 AND 1 BUSY  
85-TEST CAN NOT RUN IN

OFF-LINE PROCESSOR  
86-PROCEDURE CANNOT BE RUN FROM THIS PORT  
87-PROCEDURE CANNOT BE MOVED TO PSEUDO PORT TO ALLOW TEST CALL  
88-I/O TO DIAGNOSTIC PROCESSOR FAILED

TEST NO	UNIT TYPE	TESTS 1-3				T1	ALARM STATUS	TESTS 1-3	FAILURE INDEX	TESTS 1-3 SPECIFIC FAULT CODE	TEST 3	TEST 3		TEST 1	COMMON CONTROL TESTS		
		EQUIPMENT LOCATION										TESTS 4-5 CALL STATE	FAULT OCCUR.			TIMES TESTED	TIMES FAILED
		MOD	CAB	CAR	SLOT												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	618			

FLIPCHART  
ISSUE 3

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**NETWORK PROCEDURE**

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84552223

UNIT TYPE (FIELD 2):

6 = MODULE CONTROL CHANNEL  
7 = TMS/MODULE PROCESSOR  
8 = MAINT INTERFACE  
9 = MODULE CLOCK  
10 = TSI ALU  
11 = TSI PSTORE  
12 = I/O BUS INTERFACE

13 = PDS

14 = PCI

15 = PDI

16 = TONE PLANT

23 = TMS/NET DUPLICATION

24 = TT SENDER

25 = TT RECEIVER

26 = NETWORK I/O

27 = GPP

28 = MFET

29 = LINE CIRCUIT

31 = AUX TONE PLANT

32 = CO TRUNK

33 = DID TRUNK

34 = TIE TRK/DATA PORT

44 = ATND CNSL INTF

45 = AUXILIARY TRUNK

46 = ATTENDANT CONFERENCE

50 = TMS CLOCK OSCILLATOR

51 = LOCAL CLOCK TERMINATION

52 = SCS

53 = MULTIPLEXOR

54 = FAN OUT

55 = MODULE INTERFACE

56 = INTERMODULE

DATA STORE

57 = LIGHT GUIDE

INTERFACE

58 = FAN IN

59 = TMS MAINT INTER.

62 = ADFTC

66 = TONE DETECTOR 2

68 = DS1

69 = MFAT

71 = RMI

72 = EIA

74 = RCG

75 = PRI

98 = TMSF

99 = TSI

SPECIAL ERROR CODES:

80-BUSY/RELEASE BUSY NOT ALLOWED FOR THIS UNIT  
81-MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED  
82-TEST OF RANGE NOT COMPLETED  
83-SWITCH RESOURCES NOT AVAILABLE  
84-DMIDS OVERFLOW

**WORD 0**

REMOTE STATUS (FIELD 8):

0 = LOCAL  
1 = REMOTE TI  
2 = REMOTE FIBER

ALARM STATUS (FIELD 9):

0 = NO ERRORS RECORDED  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS RECORDED  
5 = ALARM RESOLVED

CIRCUIT STATUS (FIELD 10):

0 = IDLE 1 = ON-LINE & IN USE  
2 = OFF-LINE 3 = MAINT BUSY  
4 = NOT PLUGGED IN OR UNABLE TO COMMUNICATE  
5 = BOARD IDLE WITH SOME PORTS MAINTENANCE BUSY

FAULT CODE INDEX (FIELD 11):

1 = SPECIFIC FAULT  
CODE

FAULT CODE (FIELD 12):

9999 = FAILURE DETECTED ON OTHER THAN TESTED CIRCUIT (TEST 5)  
SEE DOCUMENTATION

85-NON-NETWORK EQUIP SPECIFICATION

86-NO CIRCUIT OF THIS TYPE IN THE SPECIFIED RANGE

87-MODULE CONTROL SWITCHED DURING TEST

88-SEE DOCUMENTATION FOR REPLACEMENT OF CIRCUIT PACKS

90-TEST PASSED, SEE DOCUMENTATION

**NETWORK**

**620**



FLIPCHART  
ISSUE 1

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NETWORK DUPLICATION CHANNEL

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84552223

EQUIP TYPE  
(FIELD 2):

1 = NETWORK MODULE  
2 = TMS

ON-LINE STATUS  
(FIELD 6):

0 = ON-LINE  
1 = ON-LINE & LOCKED  
2 = OFF-LINE  
3 = OFF-LINE & LOCKED

SWITCH STATUS (FIELD 7):

0 = SOFT SWITCH PERMITTED  
1 = SOFT SWITCH PERMITTED  
BUT PROBLEMS EXIST  
2 = SOFT SWITCH NOT PERMITTED

ENABLED (FIELD 8):

0 = SWITCH/INIT DISABLED  
1 = SWITCH/INIT ENABLED

SWITCH TYPE (FIELD 19)

1 = 32 HR PERIODIC SOFT SWITCH  
2 = CRAFT REQUEST HARD SWITCH  
3 = CRAFT REQUEST SOFT SWITCH  
4 = RECOVERY SOFT SWITCH  
5 = HARDWARE FAILURE HARD SWITCH

UNIT TYPE (FIELD 20):

UNIT TYPE OF FAILURE CAUSING  
SWITCH. (SEE UNIT TYPE LIST FOR  
PROC 600)

WORD 0

NETWORK

621

FLIPCHART  
ISSUE 4

**NETWORK DUPLICATION CHANNEL**

845552223

TEST 1: DISPLAYS SWITCH HISTORY.

TEST 2: SOFT SWITCH.

TEST 3: HARD SWITCH.

TEST 4: INITIALIZATION

SPECIAL ERROR CODES:

80-SWITCH FAILED

81-MESSAGE TRANSMISSION TO MODULE

82-HARD SWITCH WILL OCCUR

83-LOCK/UNLOCK FAILED

84-TMS/MODULE CONTROL CHANNEL

UNDUPLICATED-ONLY TEST 4 CAN BE USED

85-PUSH 'EXECUTE' TWICE TO SWITCH/  
INITIALIZE

86-INITIALIZATION FAILED

USE 'NEXT DATA' TO DISPLAY SWITCH HISTORY.  
USE 'CLEAR DATA,' 'EXECUTE' TO CLEAR SWITCH HISTORY.

USE 'NEXT CIRCUIT' TO CHANGE DISPLAYED DUPLICATION CHANNEL. USE 'BUSY OUT' AND 'RLS BUSY OUT' TO CONTROL SOFT LOCK. (TEST 2 & 3)

USE 'NEXT CIRCUIT' TO CHANGE DISPLAYED CONTROL CARRIER. USE 'EXECUTE' TO DISPLAY STATE OF HEALTH CODES. (TEST 4)

TEST NO	EQUIPMENT TYPE	EQUIPMENT LOCATION			ON LINE STATUS	T 2 SWITCH STATUS	T2-4 ENABLE	TESTS 2 THRU 4					SWITCH INDEX	TEST 1			NETWORK			
		TESTS 2 THRU 4						HEALTH CODE						TIME SWITCHED ON LINE				SWITCH CAUSE		
		TEST 1 MODULE	CABINET	CARRIER				CC	SHUT DOWN	SOFT 0	SOFT A1	SOFT A2		SOFT A3	DAY	HOUR		MINUTE	SWITCH TYPE	UNIT TYPE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	621

FLIPCHART

ISSUE 3

NETWORK PERIPHERALS

84552223

EQUIPMENT TYPE (FIELD 2):		9 = 7407D DATA MODULE	17 = AP32 ODD PORT CHANNEL	ALARM STATUS (FIELD 9):	CIRCUIT STATUS (FIELD 10):	TEST MODE (FIELD 11):	FAULT CODE (FIELD 12):
1 = PDM	10 = BCT 510 VOICE STATION	11 = BCT 510 DATA MODULE	18 = 73 SERIES		0 = IDLE		
2 = 74 SERIES	12 = BCT 515 VOICE STATION	13 = BCT 515 DATA MODULE	20 = 7406D VOICE STATION	1 = MAJOR	1 = IN USE	1 = SERVICE AFFECTING	1 = IN USE
3 = DTD	14 = 7404D VOICE STATION	15 = 7404D DATA MODULE	21 = PC EVEN PORT CHANNEL	2 = MINOR	2 = BUSIED OUT	NOTE: THE TEST NUMBER CAN ONLY BE CHANGED BY 'NEXT TEST.'	2-99 = TYPE OF FAILURE FOUND, SEE DOCUMENTATION
4 = 72 SERIES	16 = AP32 EVEN PORT CHANNEL		22 = PC ODD PORT CHANNEL	3 = WARNING	LOCAL/REMOTE (FIELD 8)		
5 = TDM				4 = ERRORS RECORDED	0 = LOCAL PORT		
6 = PDM/2				5 = ALARM RESOLVED	1 = REMOTE PORT, T1 CARRIER		
7 = TDM/2					2 = REMOTE PORT, FIBER		
8 = 7407D VOICE STATION							

WUMD 0

CAUTION: OPERATING 'BUSY OUT' FOR A DIGITAL TERMINAL WITH BRIDGED APPEARANCES CAUSES ALL CALLS ON THOSE TERMINALS TO BE DROPPED.

NETWORK

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FLIPCHART  
ISSUE 1

**ANI FAILURES**

845552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'CLEAR DATA,' 'EXECUTE' TO RETIRE ALARMS.

TEST 2: SENDS 4 TEST MESSAGES THROUGH THE DISPLAYED ANI TRUNK CIRCUIT.

TEST 3: SENDS A SINGLE TEST MESSAGE THROUGH THE DISPLAYED TRUNK CIRCUIT. USE 'NEXT DATA' TO SELECT ANOTHER DATA PATTERN.

TEST 4: SENDS EACH OF 4 TEST MESSAGES ALTERNATELY TO EACH CIRCUIT OF THE SELECTED ANI TRUNK BOARD CONTINUOUSLY UNTIL AN ERROR IS DETECTED OR 'STOP' IS PRESSED.

FAILURE CODES (FIELD 8):  
0 = PASS  
1 = NO ACKNOWLEDGE  
2 = 2/5 ERROR  
3 = ALWAYS BUSY  
4 = NO WORD SHIFT  
5 = NO LOOP CURRENT

6 = WRONG CHANNEL  
7 = BID ERROR

USE THE ANI TEST SET.  
USE 'NEXT UNIT' TO DISPLAY ADDITIONAL FAILURES AFTER TEST IS EXECUTED.

TEST NO	TEST 3 DATA	TRUNK CIRCUIT							FAILURE	FAILURES PER HOUR	ANI ATTEMPTS	LOAD ERRORS	TIME OUT ERRORS	TRANS-MISSION ERRORS	QUEUE OVERFLOW ERRORS	NETWORK
		EQUIPMENT LOCATION					SLOT	CKT								
		MODULE	CAB	CARR	SLOT	CKT										
1	2	3	4	5	6	7	8	9	10	11	12	13	14		<b>623</b>	

FLIPCHART  
ISSUE 1

CONTACT INTERFACE TEST

845552223

TEST 1: AUTOMATICALLY SEQUENCE THRU ALL CONTACTS ON A BOARD, OPENING AND CLOSING EACH EXCLUSIVELY AT A 60 IPM RATE FOR 5 SECONDS.

TEST 2: SAME AS TEST 1 EXCEPT EACH CONTACT REMAINS CLOSED FOR ENTIRE 5 SECOND INTERVAL.

TEST 3: MANUAL SELECTION OF CONTACT, OPENING AND CLOSING AT A 60 IPM RATE FOR ANY DESIRED TESTING INTERVAL.

TEST 4: SAME AS TEST 3 EXCEPT CONTACT REMAINS CLOSED FOR DURATION OF TESTING INTERVAL.

USE 'STOP' THEN 'NEXT DATA' TO ADVANCE TO THE NEXT CONTACT - TESTS 3 & 4.

NOTE: FIELDS (7-14) INDICATE CURRENT STATE OF CONTACT WHEN TESTING IS ACTIVE; 0 = OPEN, 1 = CLOSED.

FIELD 15 FAILURE CODE:  
9-MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED.

TEST NO	CONTACT INTERFACE BOARD EQUIPMENT LOCATION				CURRENT CONTACT	CONTACT STATES OF BOARD UNDER TEST								FAILURE CODE	NETWORK
	MODULE	CAB	CARR	SLOT		CONTACT 0	CONTACT 1	CONTACT 2	CONTACT 3	CONTACT 4	CONTACT 5	CONTACT 6	CONTACT 7		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	624

FLIPCHART  
ISSUE 4

SYNCHRONIZATION REFERENCE MONITOR

845552223

FIELD	FIELD	CODE	TESTS	DEFINITION	FIELD	CODE	TESTS	DEFINITION
DESCRIPTION:	8 (CONT)	0-6	2	3 = I/O FAILURE 4 = UNUSABLE REFERENCE 5 = NOT ADMINISTERED 6 = MAINTENANCE BUSIED	10 (CONT)	0-9	1	5 = EXCESSIVE MISFRAMES 6 = NETWORK ALARM 7 = BOARD HEALTH 8 = MAJOR ERROR RATE ALARM 9 = MINOR ERROR RATE ALARM
	9	0-2	2	AUTOMATIC SWITCH ENABLE/DISABLE FIELD 0 = ENABLE AUTOMATIC SWITCH OF REFERENCE 1 = DISABLE SOFTWARE SWITCH 2 = DISABLE SOFTWARE AND HARDWARE SWITCH <b>CAUTION: ENCODES 1 AND 2 IMPAIR THE RECOVERY MECHANISM OF THE SWITCH.</b>	17	0-9	2	SWITCH CAUSE FIELD 0 = CRAFT REQUEST 1 = BOARD PROCESSOR SANITY 2 = UNUSABLE REFERENCE REPORTED BY SCS 3 = LOSS OF SIGNAL REPORTED BY DS-1 4 = EXCESSIVE SLIPS 5 = EXCESSIVE MISFRAMES 6 = NETWORK ALARM 7 = BOARD HEALTH 8 = THE HIGH ACCURACY CLOCK WAS PUT ON LINE 9 = THE CAUSE OF THE LAST SWITCH HAS CLEARED
	10	0-9	1	HEALTH CODE FIELD DASH = BOARD HEALTHY 0 = MAINTENANCE BUSY 1 = BOARD PROCESSOR SANITY 2 = UNUSABLE REFERENCE REPORTED BY SCS (REF. ONLY) 3 = LOSS OF SIGNAL REPORTED BY DS-1 4 = EXCESSIVE SLIPS				

VALUES 3-6  
INDICATES WHY  
A SWITCH  
ATTEMPT FAILED

0 (CR) 0

NETWORK  
FACILITY  
MONITOR

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FLIPCHART  
ISSUE 1

**SYNCHRONIZATION REFERENCE MONITOR**

845552223

TEST 1: DISPLAY FACILITY STATUS.	FIELD	CODE	TESTS	DEFINITION	FIELD	CODE	TESTS	DEFINITION
TEST 2: SWITCH SYNC. REFERENCES AND/OR TOGGLE AUTO-SWITCH.	1	1-2	1-2	TEST NUMBER FIELD	7	0-2	1-2	1 = PRIMARY REFERENCE
	2	1-9	1-2	FACILITY TYPE FIELD 1 = DS-1 2 = LOCAL END OF REMOTED PAIR 3 = REMOTE END OF REMOTED PAIR 4 = PRIMARY RATE INTERFACE	8	0-6	2	2 = SECONDARY REFERENCE (DASH = NON-REFERENCE) SWITCH ENABLE & STATUS FLD 0 = DISABLE SWITCH OF REFERENCE 1 = ENABLE SWITCH OF REFERENCE 2 = RESET SLIP COUNTS (FIELD DEFINITIONS CONT ON WD 0)
	7	0-2	1-2	REFERENCE INDICATION FIELD 0 = HIGH ACCURACY CLOCK				

SPECIAL ERROR  
CODES:  
80-I/O ERROR FAILURE  
81-NOT TRANSLATED  
DS1 BOARD  
82-NOT A PHYSICAL  
DS1 BOARD

TEST NUMBER	FACILITY TYPE	TEST 1				REFERENCE INDICATOR	T2		TEST 1			TEST 2					NETWORK FACILITY MONITOR
		EQUIPMENT LOCATION					SWITCH STAT	AUTO SWITCH	HEALTH	SLIPS	MISFRAMES	SWITCH TIME & CAUSE					
		MODULE	CABINET	CARRIER	SLOT							INDEX	DAY	HOUR	MINUTE	CAUSE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	<b>625</b>

FLIPCHART  
ISSUE 1

**BUSY OUT/RELEASE BUSY OUT**

845552223

TEST NUMBERS (FIELD 1):  
1 = TERMINALS  
2 = TRUNKS  
3 = TONE PLANTS/AUXILIARY  
TONE PLANTS

USE 'NEXT CIRCUIT' TO ADVANCE TO NEXT BUSIED OUT CIRCUIT.  
TO FIND MAINTENANCE BUSY AND IN USE STATUS OF A PARTICULAR  
CIRCUIT, ENTER EQUIPMENT LOCATION AND USE 'NEXT DATA'.  
'NEXT DATA' MUST BE OPERATED BEFORE 'BUSY OUT'. USE 'BUSY OUT'  
OR 'RELEASE BUSY' TO CHANGE MAINTENANCE BUSY STATUS. TO RELEASE  
BUSY OUT ON ALL CIRCUITS IN A TEST USE 'CLEAR DATA', 'EXECUTE'.

MAINTENANCE BUSY STATUS (FIELD 7):  
0 = NOT BUSIED  
1 = DEMAND BUSIED  
2 = AUTOMATIC BUSIED  
AUXILIARY TONE PLANT SHOULD BE BUSIED WHEN  
ITS ASSOCIATED TONE PLANT IS BUSIED.

SPECIAL ERROR CODE:  
  
81-NOT BUSIED BECAUSE  
MESSAGE TRANSMISSION  
TO MODULE PROCESSOR  
FAILED.

CAUTION: OPERATING 'BUSY OUT' CAN DROP A CUSTOMER CALL.

TEST NO	EQUIPMENT LOCATION-BUSIED OUT CIRCUIT					MICE BUSY STATUS	TOTAL NUMBER OF CIRCUITS BUSIED OUT IN THIS TEST	DISPLAYED BUSIED OUT CIRCUIT INDEX	NETWORK BUSY OUT
	TESTS 1-3		TESTS 1-2						
	MODULE	CAB	TEST 3		CKT				
	2	3	CARR	SLOT	5	6	8	9	<b>630</b>

FLIPCHART

ISSUE 1

## TRUNK GROUP BUSY OUT

84552223

TEST 1:  
BUSY OUT OR RELEASE BUSY OUT  
ENTIRE TRUNK GROUP.  
USE 'NEXT UNIT' TO ADVANCE TO NEXT  
EQUIPPED TRUNK GROUP.

TEST 2:  
BUSY OUT OR RELEASE BUSY OUT INDIVIDUAL CIRCUITS.  
USE 'NEXT CIRCUIT' TO DISPLAY THE NEXT CIRCUIT.  
USE 'EXECUTE' TO DETERMINE THE TRUNK GROUP NUMBER  
FOR A DISPLAYED EQUIPMENT LOCATION.

NOTE:  
TRUNK GROUP  
INDEX DOES NOT  
CORRESPOND TO  
TRUNK NUMBER  
USED BY TRUNK  
VERIFICATION.

MAINTENANCE  
BUSY STATUS  
(FIELD 10):  
0 = NOT BUSIED  
1 = DEMAND BUSIED  
2 = AUTOMATIC BUSIED

SPECIAL ERROR CODES:  
  
80-MORE THAN 255 TRUNKS IN GROUP. USE PROC 630  
OR PROC 632 TO BUSY OUT OR RELEASE BUSY OUT  
REST OF TRUNKS.  
81-NOT BUSIED BECAUSE MESSAGE TRANSMISSION  
TO MODULE PROCESSOR FAILED.

CAUTION: OPERATING 'BUSY OUT' CAN DROP A CUSTOMER CALL.

TEST NO	TEST 1		NUMBER OF TRUNKS IN TRUNK GROUP	NUMBER OF TRUNKS BUSIED	TEST 2					MAINT BUSY STATUS	TRUNK GROUP INDEX (SEE NOTE)	NETWORK BUSY OUT
	TRUNK GROUP NUMBER				EQUIPMENT LOCATION							
					MODULE	CAB	CARR	SLOT	CKT			
1	2		3	4	5	6	7	8	9	10	11	<b>631</b>

FLIPCHART

ISSUE 1

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CARRIER BUSY NETWORK

BUSY OUT

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845552223

CODE	MAINTENANCE BUSIED BY	TYPE OF TASK	CODE	MAINTENANCE BUSIED BY	TYPE OF TASK
630	PROCEDURE 630	DEMAND			
631	PROCEDURE 631	DEMAND			
632	PROCEDURE 632	DEMAND			
635	PROCEDURE 635	DEMAND			
640	PROCEDURE 640	DEMAND			
646	PROCEDURE 646	DEMAND			
647	PROCEDURE 647	DEMAND			
648	PROCEDURE 648	DEMAND			

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CARRIER BUSY NETWORK  
BUSY OUT

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FLIPCHART  
ISSUE 1

CARRIER BUSY NETWORK  
BUSY OUT

84552223

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OC)

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CODE	MAINTENANCE BUSIED BY	TYPE OF TASK	CODE	MAINTENANCE BUSIED BY	TYPE OF TASK
27	TOUCH-TONE SENDER RECEIVER	PERIODIC	211	GPP PORT MAINTENANCE	DEMAND
28	TRUNK ERROR	CALL PROCESSING	212	LINE CIRCUIT MAINTENANCE	DEMAND
29	ISDN (BUSY FROM FAR-END)	PERIODIC	213	MLP PORT MAINTENANCE	DEMAND
200	AUTOMATIC TRANSMISSION MEASUREMENT SYSTEM	DEMAND	214	MODEM POOLING FACILITY MAINTENANCE	DEMAND
201	ATTENDANT CONFERENCE MAINTENANCE	DEMAND	215	TERMINAL MAINTENANCE	DEMAND
202	AUXILIARY TONE PLANT MAINTENANCE	DEMAND	216	TIE TRUNK MAINTENANCE	DEMAND
203	AUXILIARY TRUNK MAINTENANCE	DEMAND	217	tone DETECTOR MAINTENANCE	DEMAND
204	CIRCUIT SELECT (PORT MAINTENANCE)	DEMAND	218	CALL PROGRESS TONE PLANT MAINTENANCE	DEMAND
205	CO TRUNK MAINTENANCE	DEMAND	219	TOUCH-TONE SENDER RECEIVER MAINTENANCE	DEMAND
206	DATA PORT MAINTENANCE	DEMAND	220	TRUNK VERIFICATION BY STATION	DEMAND
207	DID TRUNK MAINTENANCE	DEMAND	221	DEDICATED SWITCH CONNECTION	DEMAND
208	DIGITAL SERVICE (DS-1) MAINTENANCE	DEMAND	620	PROCEDURE 620	DEMAND
209	EIA PORT MAINTENANCE	DEMAND	622	PROCEDURE 622	DEMAND
210	FACILITY TEST CIRCUIT MAINTENANCE	DEMAND	623	PROCEDURE 623	DEMAND

CARRIER BUSY  
NETWORK  
BUSY OUT

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FLIPCHART  
ISSUE 1

CARRIER BUSY NETWORK  
BUSY OUT

845552223

CODE	MAINTENANCE BUSIED BY	TYPE OF TASK	CODE	MAINTENANCE BUSIED BY	TYPE OF TASK
1	ABBREVIATED DIAL TONE TEST	PERIODIC	14	EIA PORT MAINTENANCE	TIME AVAILABLE
2	AUTOMATIC TRANSMISSION MEASUREMENT SYSTEM	PERIODIC	15	HYPERACTIVE TERMINAL MAINTENANCE TEST	PERIODIC
3	ATTENDANT CONFERENCE MAINTENANCE	TIME AVAILABLE	16	FACILITY TEST CIRCUIT MAINTENANCE	PERIODIC
4	ABBREVIATED TOUCH-TONE TEST	PERIODIC	17	GPP MAINTENANCE	TIME AVAILABLE
5	AUXILIARY TONE PLANT MAINTENANCE	PERIODIC	18	LINE CIRCUIT MAINTENANCE	TIME AVAILABLE
6	AUXILIARY TRUNK MAINTENANCE	PERIODIC	19	MLP MAINTENANCE	TIME AVAILABLE
7	CIRCUIT SELECT (PORT MAINT. TEST CONTROLLER)	PERIODIC	20	MODEM POOL FACILITY MAINTENANCE	PERIODIC
8	CO TRUNK MAINTENANCE	PERIODIC	21	MODEM POOL MAINTENANCE SCHEDULER	PERIODIC
9	MODEM POOL CALL PROCESSING	PERIODIC	22	OPERATIONAL ERROR PROCESSING	PERIODIC
10	DATA LINKAGE	AUDIT	23	STATUS MEMORY	AUDITS
11	DATA PORT MAINTENANCE	TIME AVAILABLE	24	TIE TRUNK MAINTENANCE	PERIODIC
12	DID TRUNK MAINTENANCE	PERIODIC	25	TONE DETECTOR MAINTENANCE	TIME AVAILABLE
13	DIGITAL SERVICE (DS-1) MAINTENANCE	PERIODIC	26	CALL PROGRESS TONE PLANT MAINTENANCE	PERIODIC

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CARRIER BUSY  
NETWORK  
BUSY OUT

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FLIPCHART  
ISSUE 4

**CARRIER BUSY**

84552223

TEST 1: DISPLAY BUSY OUT CARRIERS. USE 'NEXT UNIT' TO FIND NEXT CARRIER BUSIED OUT OR PARTIALLY BUSIED OUT.

TEST 2: BUSY OUT OR RELEASE BUSY OUT CARRIERS. USE 'NEXT UNIT' TO ADVANCE TO NEXT CARRIER.

TEST 3: BUSY OUT OR RELEASE BUSY OUT CIRCUITS. USE 'NEXT CIRCUIT' TO ADVANCE TO NEXT CIRCUIT. USE 'BUSY OUT' AND 'RLS BUSY OUT' TO BUSY OR RELEASE A CIRCUIT. USE 'NEXT UNIT' TO ADVANCE TO NEXT CARRIER.

CARRIER TYPE (FIELD 7):  
1 = NORMAL PORT CARRIER  
2 = DS1/MFAT PORT CARRIER  
3 = OTHER

MNT BUSY STATUS (FIELD 8):  
TEST 1 & 2  
0 = NOT BUSIED OUT  
1 = BUSIED OUT  
2 = PARTIALLY BUSIED OUT CARRIER

TEST 3: 0 = NOT BUSIED  
SEE WORD 0.

SPECIAL ERROR CODE:  
81-NOT BUSIED  
BECAUSE MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED.

USE 'BUSY OUT' AND 'RLS BUSY OUT' TO BUSY OR RELEASE A CARRIER.

CAUTION: OPERATING 'BUSY OUT' CAN DROP A CUSTOMER CALL.

TEST NO	EQUIPMENT LOCATION					CARR TYPE	MAINT BUSY STATUS	TOTAL MODULES IN SYSTEM	TOTAL CAB IN MODULE	TOTAL CARR IN CAB	TOTAL CIRCUITS IN CARRIER	TOTAL CIRCUITS BUSIED IN CARRIER	TEST 1	NETWORK BUSY OUT
	TEST 3			SLOT	CRT								RUNNING TOTAL: CARRIERS WITH BUSY CIRCUITS	
	TEST 2												TEST 3	
	MODULE	CAB	CARR										UNIT TYPE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
														<b>632</b>

## FLIPCHART

ISSUE 1

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## CAUSE OF BUSY OUT

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845552223

## PORT TYPE (FIELD 2):

01 = CALL PROGRESS TONE PLANT	41 = CONTACT INTERFACE
16 = ON PREMISES TERMINAL	42 = TONE DETECTOR 2
17 = ATTENDANT INTERFACE	43 = GPP DATA MODULE TRUNK
18 = OFF PREMISES TERMINAL	44 = EIA TRUNK
19 = TRANSMISSION TEST	45 = PRIMARY RATE INTERFACE TRUNK
20 = AUXILIARY TONE PLANT	48 = MULTIFUNCTIONAL DIGITAL TERMINAL
21 = DATA ANSWER TONE PORT	49 = MULTIFUNCTIONAL ELECTRONIC TERMINAL
32 = CO TRUNK	50 = MULTIFUNCTIONAL ANALOG TERMINAL
33 = DID TRUNK	51 = GPP DATA MODULE TERMINAL
34 = TIE TRUNK	52 = EIA TERMINAL
35 = AUXILIARY TRUNK	53 = ANALOG/DIGITAL FACILITY TEST CIRCUIT
36 = TOUCH-TONE RECEIVER	90 = DUPLICATION/UPDATE CHANNEL
37 = TOUCH-TONE SENDER	91 = DATA COMMUNICATIONS INTERFACE UNIT
38 = ATTENDANT CONFERENCE	92 = PROCESSOR COMMUNICATIONS CIRCUIT
39 = ANI DATA TRANSMITTER	93 = TIME-OF-DAY CLOCK SYNCHRONIZER
40 = DATA PORT TRUNK	

## LOCATION STATUS (FIELD 8):

0 = LOCAL  
 1 = REMOTE  
 2 = EVEN PORT, LOCAL  
 3 = ODD PORT, LOCAL  
 4 = EVEN PORT, REMOTE  
 5 = ODD PORT, REMOTE

## CIRCUIT STATUS (FIELD 9):

0 = IDLE  
 1 = IN USE  
 2 = TRUNK IN LIMBO  
 3 = PERMANENT IN SEIZURE  
 4 = ISDN MAINTENANCE  
 (NEAR-END)  
 5 = ISDN MAINTENANCE  
 (FAR-END)

## MAIN BUSY STATUS (FIELD 11):

0 = NOT BUSY (SEE PROC 632, WORD 0,  
 FOR BUSIED BY ENCODES).

WORD 06

NETWORK  
BUSY OUT**635**

FLIPCHART

ISSUE 2

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CAUSE OF BUSY OUT

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845552223

USE 'EXECUTE' TO BEGIN A SEARCH FOR THE FIRST BUSIED OUT PORT (TEST 1),  
NON-NETWORK PORT (TEST 2) OR PORT BY EXTENSION (TEST 3).

USE 'NEXT FAULT' TO SEARCH FOR THE NEXT BUSIED OUT PORT, NON-NETWORK  
PORT OR PORT BY EXTENSION.

USE 'NEXT UNIT' (TEST 1) TO ADVANCE TO THE NEXT PORT TYPE.

USE 'NEXT CIRCUIT' (TEST 1 & 3) TO ADVANCE TO THE THE NEXT ASSIGNED PORT  
OR EXTENSION.

USE 'BUSY OUT' OR 'RLS BUSY OUT' TO BUSY OUT OR RELEASE BUSY A SINGLE  
PORT (TEST 1), A RANGE OF PORTS (TEST 1) OR THE PORT ASSOCIATED  
WITH THE DISPLAYED EXTENSION (TEST 3).

NOTES:

1. EXECUTE IS NOT REQUIRED PRIOR TO USING 'NEXT FAULT', 'NEXT  
CIRCUIT', 'BUSY OUT' OR 'RLS BUSY OUT'.
2. IF SPECIAL ERROR CODE 81 OCCURS WHILE PERFORMING  
A RANGE BUSY OUT OR RELEASE BUSY IN TEST 1, THE LOCATION THAT  
CAUSED THE ERROR WILL BE DISPLAYED. USE 'STOP' TO ABORT THE  
REST OF THE RANGE OR USE 'BUSY OUT' OR 'RLS BUSY OUT'  
(AS APPROPRIATE) TO CONTINUE THE RANGE FROM THE DISPLAYED LOCATION.
3. A DASH IN THE PORT TYPE OR EQUIPMENT LOCATION (FIELDS 2-7)  
INDICATES A RANGE ON THE DASHED FIELDS).
4. NON-NETWORK PORTS ARE THOSE WITH PORT TYPES (FIELD 2)  
NINETY OR HIGHER.

WORD 0A

NETWORK  
BUSY OUT

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FLIPCHART

ISSUE 2

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CAUSE OF BUSY OUT

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TEST 1: SEARCH FOR BUSIED OUT PORTS, BUSY OUT OR RELEASE BUSY PORTS, DISPLAY AND/OR CHANGE THE STATUS OF ALL PORTS IN A DEFINABLE RANGE (SEE NOTE 3).

TEST 2: SEARCH FOR NON-NETWORK PORT USES OF (LIGHTED) MAAP BUSY OUT INDICATION, (SEE NOTE 4).

TEST 3: SEARCH FOR BUSIED OUT PORTS (BY EXTENSION), BUSY OUT OR RELEASE BUSY PORT ASSOCIATED WITH DISPLAYED EXTENSION.

SPECIAL ERROR CODES:  
80-PUSH 'BUSY OUT' TWICE WHEN BUSYING OUT PORTS IN A RANGE.  
81-BUSY OUT FAILED, MODULE PROCESSOR FAILED TO BLIND OR I/O ERROR (SEE NOTE 2).

CAUTION: OPERATING 'BUSY OUT' CAN DROP A CUSTOMER CALL.

TEST NO	PORT TYPE & EQUIPMENT LOCATION						LOCATION STATUS	CIRCUIT STATUS	TEST 3			NETWORK BUSY OUT	
	TEST 1								EXTENSION	MAINTENANCE BUSY STATUS	TRUNK GROUP		PROC REFER
1	PORT TYPE	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	8	9	10	11	12	13	635
	2	3	4	5	6	7							

FLIPCHART  
ISSUE 3

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**TRUNK FAILURES**

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84552223

MAINTENANCE  
BUSY STATUS  
(FIELD 7):  
0 = NOT BUSY  
1 = BUSY

ALARM STATUS  
FIELD 8:  
0 = NO ERRORS RECORDED  
1 = MAJOR  
2 = MINOR  
3 = WARNING  
4 = ERRORS  
5 = ALARM RESOLVED

TRUNK DATA:  
FIELD 12:  
1 = SIGNALING SEQUENCE (TEST 1)  
2 = DATA WHEN FAILURE OCCURRED (TEST 1)  
3 = DYNAMIC DATA (TEST 2)  
4 = FROZEN DATA (TEST 2)

FIELD 13:  
0-6 = TRUNK TABLE INDEX  
7 = SCAN STATUS  
8 = FAILING STIMULUS (TEST 1),  
10 MS. COUNTER (TEST 2)

FIELD 14:  
TRUNK DATA CODES  
REQUIRE EXTENSIVE CALLS  
PROCESSING KNOWLEDGE

FIELD 15:  
0-9 = PRIOR CODE INDEX FOR  
FROZEN DATA (TYPE 4)

**WORD 0**

**NETWORK**

**640**

FLIPCHART  
ISSUE 3

**TRUNK FAILURES**

845552223

TEST 1: DISPLAY FAILURE HISTORY. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT. USE 'NEXT UNIT' TO DISPLAY DISPLAY NEXT FAIL CODE. USE 'NEXT FAULT' TO DISPLAY NEXT GROUP OF 6 FAILED CIRCUITS. USE 'CLEAR DATA', 'EXECUTE' TO RETIRE ALARMED CIRCUITS ONE AT A TIME.

FAILURE CODES (FIELD 9):  
 1 = SIGNALING SEQUENCE  
 2 = CALL PROCESSING  
 3 = QUEUE AUDIT  
 4 = TRUNK FALSELY ACTIVE  
 5 = QUARANTINE (T\_LIMBO)  
 6 = CAUSED ALARM  
 7 = SEQUENCE INITIALIZE  
 8 = UNIVERSAL TRUNK TIME-OUT  
 9 = PERMANENT INCOMING SEIZURE

SPECIAL ERROR CODE:  
 81-NOT BUSIED BECAUSE MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED

TEST 2 (SEE NOTE): MONITORS TRUNK DATA. USE 'EXECUTE' TO DISPLAY DYNAMIC TRUNK DATA CODE (FIELD 14). USE 'STOP' TO FREEZE DYNAMIC TRUNK DATA. USE 'NEXT UNIT' TO DISPLAY PRIOR TRUNK DATA CODES FOR DATA TYPE 4.

USE 'BUSY OUT' OR 'RELEASE BUSY OUT' TO CHANGE MAINTENANCE BUSY STATUS. CAUTION: 'BUSY OUT' MAY DROP A CUSTOMER CALL.

USE 'NEXT DATA' TO ADVANCE TRUNK DATA IN FIELDS 12 AND 13.

TEST NO	TEST 2					MAINTENANCE BUSY STATUS	ALARM STATUS	FAILURE CODE	NUMBER OF FAILURES	FAILURE INDEX	TRUNK DATA				NETWORK
	EQUIPMENT LOCATION										TYPE	INDEX	CODE	PRIOR CODE INDEX	
	MODULE	CAB	CARR	SLOT	CKT										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	640



FLIPCHART  
ISSUE 1

TERMINAL TO TONE TEST CALL

845552223

TEST 1:  
TRANSMITS ALL TONES SEQUENTIALLY FROM THE SPECIFIED TONE PLANT.

TEST 2:  
TRANSMITS SELECTED TONES FROM THE SPECIFIED TONE PLANT. PLACE 1 IN THE FIELDS OF THE TONES TO BE TRANSMITTED.

NOTES:  
1. A DEFAULT TEST LINE IS DISPLAYED (AFTER BEING ADMINISTERED IN PRC 000).  
2. IN TEST 2 THE TONES ARE TRANSMITTED IN THE ORDER SPECIFIED.

SPECIAL ERROR CODE:  
80-NO TONE SELECTED FOR TRANSMISSION

USE 'NEXT CIRCUIT' TO OBTAIN THE NEXT TONE PLANT.  
USE 'NEXT UNIT' TO OBTAIN THE FIRST TONE PLANT IN NEXT MODULE.  
USE 'NEXT DATA' TO TRANSMIT NEXT TONE.

TEST NO	TEST LINE EQUIPMENT LOCATION					TONE PLANT EQUIPMENT LOCATION				TEST 2								NETWORK TEST CALLS
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	MODULE	CABINET	CARRIER	SLOT	TRANSMITTED TONE								
										BUSY	REODR	AUD ALERT	S P AUD ALERT	DIAL	RECALL	MISC	INCPY	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	643

FLIPCHART  
ISSUE 3

TERMINAL TO AUXILIARY TONE TEST CALL

845552223

TEST 1:  
TRANSMITS ALL TONES SEQUENTIALLY FROM  
THE SPECIFIED AUXILIARY TONE PLANT.

TEST 2:  
TRANSMITS SELECTED TONES FROM THE SPECIFIED AUXILIARY TONE  
PLANT. PLACE 1 IN THE FIELDS OF THE TONES TO BE TRANSMITTED.

NOTES:

1. A DEFAULT TEST LINE IS DISPLAYED (AFTER BEING ADMINISTERED IN PRC 000).
2. IN TEST 2 THE TONES ARE TRANSMITTED IN THE ORDER SPECIFIED.

SPECIAL ERROR CODE:  
80-NO TONE SELECTED  
FOR TRANSMISSION

USE 'NEXT CIRCUIT' TO OBTAIN THE NEXT ASSIGNED AUXILIARY TONE PLANT.  
USE 'NEXT UNIT' TO OBTAIN THE FIRST ASSIGNED AUXILIARY TONE PLANT IN A SUBSEQUENT MODULE.  
USE 'NEXT DATA' TO TRANSMIT NEXT TONE.

TEST NO	TEST LINE EQUIPMENT LOCATION					AUXILIARY TONE PLANT EQUIPMENT LOCATION				TEST 2						NETWORK TEST CALLS
	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	MODULE	CABINET	CARRIER	SLOT	TRANSMITTED TONE						
										IMM AUD ALERT	ZIP TONE	REM HOLD	DATA ANS TONE	PRE- EMPT TONE	PREC AUD ALERT	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
																<b>644</b>

## FLIPCHART

ISSUE 5

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## MODEM POOLING AND FACILITY TESTING

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84552223

## EQUIPMENT LOCATION

TYPES (FIELD 6):

0 = ADFTC

1 = MEMBER A GPP

2 = MEMBER A DATA PORT

3 = MEMBER B GPP

4 = MEMBER B DATA PORT

AFTER TEST EXECUTION, DATA TYPE (FIELD 13)

CONTAINS AN ENCODE THAT INDICATES THE  
TYPE OF DATA THAT IS DISPLAYED IN FIELD 14:

1 = SPECIFIC FAULT CODE

2 = BIT ERROR RATE/BITS SENT

3 = BLOCK ERROR RATE/BLOCKS SENT

4 = NUMBER OF CIRCUITS TESTED

5 = MAINT BUSY

6 = NOT MAINT BUSY

TEST LENGTH, INPUT BEFORE

TEST EXECUTION (FIELD 12):

1-4 = 1-4 MINUTES

DASH = DEFAULT LENGTH

DATA RATE, INPUT BEFORE TEST

EXECUTION (FIELD 14):

DASH = DEFAULT RATE

3 = 300 BPS

12 = 1200 BPS

24 = 2400 BPS

48 = 4800 BPS

96 = 9600 BPS

192 = 19.2K BPS

560 = 56K BPS

640 = 64K BPS

SPECIAL ERROR CODES:

80-EQUIPMENT LOCATION NOT COMPLETE

81-MESSAGE TRANSMISSION TO

MODULE PROCESSOR FAILED.

82-TEST OF RANGE NOT COMPLETED

83-NO ADFTC AVAILABLE FOR TEST

84-DMIDS OVERFLOW

85-INVALID EQUIPMENT LOCATION

86-INVALID TEST TYPE

87-INVALID CIRCUIT FIELDS

88-INVALID MEMBER

89-NO MEMBER AVAILABLE

90-INVALID DATA RATE

91-WRONG EQUIPMENT

LOCATION TYPE

92-INVALID TEST TYPE

FOR TRUNK GROUP MODE

93-NO CIRCUIT FOUND IN RANGE

94-MEMBER B INVALID

FOR DIGITAL FACILITIES

95-WAIT FOR TEST TO STOP

96-FLDS 7-11 MUST BE ENTERED

BEFORE USE OF BUSY OUT/

RELEASE BUSY OUT.

97-PROC 100 HAS DISABLED DIGITAL

FACILITY TESTING FOR THIS

TRUNK GROUP

WORLD 08

NETWORK

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## NOTES CONTINUED:

## BIT/BLOCK ERROR DATA OUTPUT (FIELD 14):

THE FIRST TWO DIGITS IN FIELD 14 ARE THE BIT OR BLOCK ERROR RATE; THE SECOND TWO DIGITS IN FIELD 14 ARE THE NUMBER OF BITS OR BLOCKS SENT. ZEROS (0'S) DISPLAYED IN FIELD 14 INDICATE THAT NO BITS OR BLOCKS WERE SENT.

BLANKS DISPLAYED IN THE FIRST TWO DIGITS INDICATE A ZERO ERROR RATE. TO OBTAIN THE BIT OR BLOCK ERROR RATE, MULTIPLY THE FIRST (LEFT MOST) DIGIT BY 10 RAISED TO THE NEGATIVE POWER OF THE SECOND DIGIT. TO OBTAIN THE NUMBER OF BITS OR BLOCKS SENT, MULTIPLY THE THIRD DIGIT BY 10 RAISED TO THE POSITIVE POWER OF THE FOURTH DIGIT.

EXAMPLE: FIELD 14 = 3586

BIT OR BLOCK ERROR RATE =  $3 \times 10^4$

BITS OR BLOCKS SENT =  $8 \times 10^4$

## TEST 1 TEST TYPES (FIELD 2):

- 0 = ALL ADFTC SELF TESTS
- 1 = ONE PORT ADFTC SELF TEST
- 2 = TWO PORT NORMAL ADFTC SELF TEST
- 3 = TWO PORT REVERSE ADFTC SELF TEST

## TEST 2 TEST TYPES (FIELD 2):

- 0 = ALL TESTS OR HOST ACCESS
- 1 = ALL ORIGINATING TESTS
- 2 = ALL TERMINATING TESTS
- 3 = TWO PORT ORIGINATING, NORMAL TEST
- 4 = TWO PORT ORIGINATING, REVERSE TEST
- 5 = TWO PORT TERMINATING, NORMAL TEST
- 6 = TWO PORT TERMINATING, REVERSE TEST
- 7 = ONE PORT ORIGINATING TEST
- 8 = ONE PORT TERMINATING TEST

## TEST 3 TEST TYPES (FIELD 2):

- 0 = ALL TESTS OR HOST ACCESS
- 1 = ALL EIA REMOTE LOOPBACK TESTS
- 2 = DATA MODULE REMOTE LOOPBACK TEST
- 3 = EIA LOCAL LOOPBACK TEST
- 4 = EIA REMOTE LOOPBACK TEST, ORIGINATING
- 5 = EIA REMOTE LOOPBACK TEST, TERMINATING

(CONTINUED ON WORD 08)



MEASUREMENTS ORIENTED BY INDEX

NOTE:  
MEASUREMENT  
RESULTS OF 90-99  
REPRESENT -0 TO -9.

MEASUREMENT INDEX	FIELD	MEASUREMENT
10	13	404 HZ LOSS FAR END TO NEAR END MEASUREMENT
	14	0 DBM LOSS FAR END TO NEAR END MEASUREMENT
	15	2804 HZ LOSS FAR END TO NEAR END MEASUREMENT
20	13	404 HZ LOSS NEAR END TO FAR END MEASUREMENT
	14	0 DM LOSS NEAR END TO FAR END MEASUREMENT
	15	2804 HZ LOSS NEAR END TO FAR END MEASUREMENT
30	13	1004 HZ LOSS FAR END TO NEAR END MEASUREMENT
	14	1004 HZ LOSS NEAR END TO FAR END MEASUREMENT
	15	C - MESSAGE NOISE WITHOUT TONE - NEAR END MEASUREMENT

MEASUREMENT INDEX	FIELD	MEASUREMENT
40	13	C - MESSAGE NOISE WITHOUT TONE - FAR END MEASUREMENT
	14	C - MESSAGE NOISE W/TONE-NEAR END MEASUREMENT
	15	C - MESSAGE NOISE W/TONE-FAR END MEASUREMENT
50	13	SRL LOW - NEAR END MEASUREMENT
	14	ERL - NEAR END MEASUREMENT
	15	SRL HIGH - NEAR END MEASUREMENT
60	13	SRL LOW - FAR END MEASUREMENT
	14	ERL - FAR END MEASUREMENT
	15	SRL HIGH - FAR END MEASUREMENT

WORD DC

NETWORK  
ATMS  
TESTS

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FLIPCHART

ISSUE 4

AUTOMATIC TRANSMISSION MEASUREMENT

SYSTEM (ATMS) TESTS

845552223

FAULT CODES (FIELD 12)  
CONTINUED FROM  
WORD 0A.

ASSOCIATED WITH TEST STATE 5 & 6:  
 0-PASSED ALL TESTS  
 11-FAILED 404HZ FAR END TO NEAR END DEVIATION THRESHOLD  
 12-FAILED 0 DBM LOSS FAR END TO NEAR END LOSS THRESHOLD  
 13-FAILED 2804HZ FAR END TO NEAR END DEVIATION THRESHOLD  
 21-FAILED 404HZ NEAR END TO FAR END DEVIATION THRESHOLD  
 22-FAILED 0 DBM LOSS NEAR END TO FAR END LOSS THRESHOLD  
 23-FAILED 2804HZ NEAR END TO FAR END DEVIATION THRESHOLD  
 31-FAILED 1004HZ FAR END - NEAR END LEVEL LOSS THRESHOLD  
 32-FAILED 1004HZ NEAR END - FAR END LEVEL LOSS THRESHOLD  
 33-FAILED NEAR END C-MESSAGE WITHOUT TONE NOISE THRESHOLD  
 41-FAILED FAR END C-MESSAGE WITHOUT TONE NOISE THRESHOLD  
 42-FAILED NEAR END C-MESSAGE WITH TONE THRESHOLD  
 43-FAILED FAR END C-MESSAGE WITH TONE THRESHOLD  
 51-FAILED NEAR END SINGING RETURN LOSS LOW THRESHOLD  
 52-FAILED NEAR END ECHO RETURN LOSS THRESHOLD  
 53-FAILED NEAR END SINGING RETURN LOSS THRESHOLD

61-FAILED FAR END SINGING RETURN LOSS LOW THRESHOLD  
 62-FAILED FAR END ECHO RETURN LOSS THRESHOLD  
 63-FAILED FAR END SINGING RETURN LOSS THRESHOLD

TRUNK TYPE (FIELD 15):  
 SAME AS USED IN PROC 100

TEST LINE TYPES (FIELD 11):  
 1-102 OR OLD 100-TYPE  
 2-NEW 100-TYPE  
 3-LC-145 OR SN-260A  
 4-SN-260B  
 5-56A OR 105 W/O RETURN LOSS  
 6-SN-261, ZLC-12, OR 105  
 WITH RETURN LOSS

WORD 0B

(MEASUREMENT INDEX CONTINUED ON WORD 0C)

NETWORK  
ATMS  
TESTS

647

FLIPCHART

ISSUE 1

**AUTOMATIC TRANSMISSION MEASUREMENT**

**SYSTEM (ATMS) TESTS**

845552223

MEASUREMENT INDEX: (FIELD 12): ASSOCIATED WITH TEST STATE 4:  
10-FIRST SET OF MEASUREMENTS 1-ADFTC IN USE (SUBSEQUENT TO STATE 2)  
20-SECOND SET OF MEASUREMENTS 67-NO TEST TONE FROM FAR END  
30-THIRD SET OF MEASUREMENTS 68-OTL NOT ASSIGNED AS ROTARY  
40-FOURTH SET OF MEASUREMENTS 69-ADFTC RECEIVED UNSENT STOP TEST MESSAGE  
50-FIFTH SET OF MEASUREMENTS 70-ADFTC SELF-TEST FAILS  
60-SIXTH SET OF MEASUREMENTS 71-BAD I/O TO/FROM OTL  
FAULT CODES: 72-CANNOT SEIZE OR  
ASSOCIATED WITH (FIELD 12) TEST STATE 2: 73-DIALING OF TVS FEATURE FAILED  
1-ADFTC IN USE 74-CODE DIALED DID NOT MATCH TVS FEATURE  
2-ADFTC NOT AVAILABLE 75-TRUNK GROUP D.A.C. INAPPROPRIATE  
3-ADFTC MAINTENANCE BUSIED 76-SOFTWARE RECORD INCORRECT  
ASSOCIATED WITH TEST STATE 3: 77-ADFTC AND TRUNK CANNOT BE CONNECTED  
4-NO TTL ADMINISTERED 78-INTERCEPT TONE  
5-TRUNK IN USE 79-REORDER TONE  
6-CAN'T RELEASE BUSY THE TRUNK 80-OTHER UNEXPECTED TONE  
81-RING NO ANSWER FROM FAR END  
82-UNIDENTIFIABLE INTERRUPTED TONE  
83-BUSY FROM FAR END  
84-FAR END RELEASE  
85-NO RESPONSE FROM FAR END  
86-NO DATA RETURNED FROM FAR END  
87-STEADY UNIDENTIFIABLE TONE FROM FAR END  
88-BROADBAND ENERGY FROM FAR END (NOISE,  
VOICE, OR RECORDED ANNOUNCEMENT)  
89-FAR END TEST LINE UNAVAILABLE  
90-NEAR-END SELF-TEST FAILED  
91-FAR END LOSS SELF-TEST AT 0 DBM 1004 HZ FAILED  
92-FAR END NOISE SELF-TEST FAILED  
93-FAR END HIGH FREQ. SINGING RETURN LOSS SELF-TEST FAILED  
94-FAR END ECHO RETURN LOSS SELF-TEST FAILED  
95-FAR END SINGING RETURN LOSS SELF-TEST FAILED  
96-FAR END LOSS SELF-TEST AT-16DBM 1004 HZ FAILED  
97-FAR END LOSS SELF-TEST AT-16DBM 404 HZ FAILED  
98-FAR END LOSS SELF TEST AT-16DBM 2804 HZ FAILED  
99-FAR END NOISE WITH TONE SELF-TEST FAILED  
(FAULT CODES CONTINUED ON WORD 0B)  
TRUNK TYPE: SAME AS USED IN PROCEDURE  
100.

WORD 0A

NETWORK  
ATMS  
TESTS

**647**

FLIPCHART + + **AUTOMATIC TRANSMISSION MEASUREMENT SYSTEM (ATMS) TESTS** + + 845552223

TEST 1:  DISPLAYS FAILURE HISTORY. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT. USE 'CLEAR DATA','EXECUTE' TO CLEAR FAILURE HISTORY FOR FAILED CIRCUIT.	TEST 2:  TESTS SELECTED CIRCUIT(S) AND COMPARES TRANSMISSION MEASUREMENTS TO ADMINISTERED THRESHOLDS. USE 'NEXT CIRCUIT' TO DISPLAY NEXT TESTED CIRCUIT USE 'NEXT FAULT' TO DISPLAY ADDITIONAL FAULTS. USE 'NEXT DATA' TO DISPLAY MEASUREMENTS.	TEST 3:  RUNS A SUPERVISION ONLY TEST ON SELECTED CIRCUIT(S) USE 'NEXT CIRCUIT' TO DISPLAY NEXT TESTED CIRCUIT.	OTHER CODES: (FIELD 9): 0-IDLE 1-IN USE 2-DEMAND MAINT BUSY 3-AUTOMIC MAINT BUSY	ALARM STATUS: (FIELD 10): 1-MAJOR 2-MINOR 3-WARNING 4-ERRORS RECORDED 5-RESOLVED	TEST STATE: (FIELD 10): 1-RESOLVING CONTENTION 2-GETTING AFTC 3-SEIZING TRUNK 4-TEST IN PROGRESS 5-TEST COMPLETED	6-TEST COMPLETED UNACCEPTABLE TRUNK 9-TEST(S) TERMINATED SUMMARY DISPLAY	SPECIAL ERROR CODES: 81-MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED. 82-STDP USED - RANGE NOT COMPLETED 83-DMIDS OVERFLOW - RANGE NOT COMPLETED
---	---	---	---	---	--	---	--

TEST NO	TESTS 2 & 3		TESTS 2 & 3		TESTS 2 & 3				CIRCUIT STATUS	ALARM STATUS TEST STATE TESTS 2 & 3 TEST 1	TEST LINE TYPE	MEASUREMENT INDEX  FAULT CODE	MEASUREMENT RESULTS			NETWORK ATMS TESTS
	TRUNK GROUP	TRUNK NUMBER	EQUIPMENT LOCATION				CIRCUITS TESTED	CIRCUITS FAILED					TRUNK TYPE			
			MODULE	CABINET	CARRIER	SLOT								CIRCUIT	FAILURE INDEX	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	<b>647</b>	

FAULT CODES (FIELD 14):

ASSOCIATED WITH TEST STATE 1:

- 1 = ADFTC NOT AVAILABLE
- 2 = ADFTC IN USE
- 3 = ADFTC MAINTENANCE BUSIED
- 33 = ADFTC LINE MAINTENANCE BUSY OR ADFTC NOT ON-HOOK

ASSOCIATED WITH TEST STATE 2:

- 4 = CURRENT TEST NOT TRANSLATED FOR THIS BOARD
- 5 = CANT PUT TRUNK IN ISDN MAINTENANCE STATE-QUEUE OCCUPANCY
- 6 = TRUNK WENT TO ISDN MAINTENANCE STATE-DID NOT RELEASE FROM BUSY
- 7 = MAINTENANCE SERVICE ACKNOWLEDGE NOT RECEIVED
- 8 = TRUNK IN-USE
- 9 = NO TTL ASSIGNED

ASSOCIATED WITH TEST STATE 3:

- 10 = INTERNAL ADFTC FAILURE
- 11 = OTL NOT ASSIGNED AS ROTARY
- 12 = ADFTC FAILED SELF TEST
- 13 = BAD I/O - NO ISDN LEVEL 3 RESPONSE  
IN SPECIFIED TEST TIME
- 14 = TVS DAC NOT ASSIGNED, OR
- 14 = ADFTC (OTL) NOT RESPONDING, OR
- 14 = KEYBOARD DIALING NOT ASSIGNED TO ADFTC
- 15 = CODE DIALED DID NOT MATCH TVS FEATURE
- 16 = TRUNK GROUP D.A.C. INAPPROPRIATE
- 17 = SOFTWARE RECORD INCORRECT
- 18 = TRUNK CANNOT BE CONNECTED
- 19 = OTL WENT ON-HOOK
- 20 = BAD I/O FROM OTL
- 21 = CANNOT SEIZE ORIGINATING REGISTER
- 22 = INVALID RESPONSE ON ISDN LEVEL 2 LINK

23 = NO RESPONSE ON ISDN LEVEL 2 LINK

- 24 = START HANDSHAKE NOT RECEIVED BY ADFTC
- 25 = ERROR OVERFLOW DETECTED BY ADFTC
- 26 = NO DATA RECEIVED BY ADFTC
- 27 = DATA TRANSMISSION TO ADFTC INTERRUPTED
- 28 = NO BIT ERROR RATE RESPONSE FROM ADFTC
- 29 = NO BLOCK ERROR RATE RESPONSE FROM ADFTC
- 30 = NO BIT OR BLOCK ERROR RATE RESPONSE FROM ADFTC
- 34 = BAD I/O TO ISDN LEVEL 2 LINK ON  
PRIMARY RATE INTERFACE BOARD

ASSOCIATED WITH TEST STATE 4:

- 0 = PASS
- 31 = BIT ERROR RATE THRESHOLD  
EXCEEDED
- 32 = BLOCK ERROR RATE  
THRESHOLD EXCEEDED

OTHER CODES:  
CIRCUIT STATUS (FIELD 9):  
0-IDLE  
1-IN USE  
2-IN USE FAR END TEST CALL  
3-DEMAND MAINT BUSY  
4-AUTO MAIN BUSY  
5-FAR END MAIN BUSY  
6-TRUNK RECORDS IN INVALID OR  
TRANSITORY STATE  
ALARM STATUS (FIELD 10):  
1-MAJOR  
2-MINOR  
3-WARNING  
4-ERRORS RECORDED  
5-ALARM RESOLVED

TEST STATE (FIELD 10):  
1-GETTING ADFTC  
2-SEIZING TRUNK  
3-TEST IN PROGRESS  
4-TEST COMPLETED  
5-CHANGING ISDN LEVEL 3 STATUS  
9-TEST TERMINATED/SUMMARY DISPLAY  
DATA TYPE (FIELD 13):  
1-FAULT CODE  
2-BIT ERROR RATE  
3-BLOCK ERROR RATE  
4-CIRCUITS TESTED  
5-LENGTHS OF TEST  
2, 3 & 5 ARE TEST  
3 ONLY

SPECIAL ERROR CODES:  
81-MESSAGE TRANSMISSION TO MODULE PROCESSOR FAILED.  
82-STOP USED-RANGE NOT COMPLETED.  
83-DMIDS OVERFLOW.

FIELD LIMITS:  
FIELD 14 (BIT/BLOCK ERROR DATA OUTPUT):  
THE FIRST TWO DIGITS IN FIELD 14 ARE THE BIT OR BLOCK ERROR RATE;  
THE SECOND TWO DIGITS IN FIELD 14 ARE THE NUMBER OF BITS OR  
BLOCKS SENT. ZEROS (0'S) DISPLAYED IN FIELD 14 INDICATE THAT NO  
BITS OR BLOCKS WERE SENT. BLANKS DISPLAYED IN THE FIRST TWO  
DIGITS INDICATE A ZERO ERROR RATE. TO OBTAIN THE BIT OR BLOCK  
ERROR RATE, MULTIPLY THE FIRST (LEFT MOST) DIGIT BY 10 RAISED TO  
THE NEGATIVE POWER OF THE SECOND DIGIT. TO OBTAIN THE NUMBER  
OF BITS AND BLOCKS SENT, MULTIPLY THE THIRD DIGIT BY 10 RAISED TO  
THE POSITIVE POWER OF THE FOURTH DIGIT.

EXAMPLE:  
FIELD 14 = 3586  
BIT OR BLOCK ERROR  
RATE =  $3 \times 10^4$   
BITS OR BLOCKS SENT =  $8 \times 10^6$

TEST 1: DISPLAY FAILURE HISTORY. USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CIRCUIT. USE 'CLEAR DATA' 'EXECUTE' TO RESOLVE ALARM FOR FAILED CIRCUITS.

TEST 2: TESTS SELECTED CIRCUIT(S) AT THE ISDN LEVEL 2 LAYER. USE 'NEXT CIRCUIT' TO DISPLAY NEXT TESTED CIRCUIT. USE 'BUSY' TO MAINTENANCE BUSY THE DISPLAYED CIRCUIT. USE 'RELEASE BUSY' TO RELEASE THE BUSIED TRUNK CIRCUIT FROM MAINTENANCE BUSY.

TEST 3: TESTS SELECTED CIRCUIT(S) AT THE ISDN LEVEL 3 LAYER. USE 'NEXT CIRCUIT' TO DISPLAY NEXT TESTED CIRCUIT. USE 'NEXT DATA' TO CYCLE THROUGH DATA TYPES AND ASSOCIATED FAULT/DATA INFORMATION. USE 'BUSY' TO MAINTENANCE BUSY THE DISPLAYED TRUNK CIRCUIT. USE 'RELEASE BUSY' TO RELEASE THE DISPLAYED TRUNK CIRCUIT FROM MAINTENANCE BUSY.

THE LENGTH OF TEST IS ASSIGNED WITH THE 'CHANGE FIELD 14' SEQUENCE AS FOLLOWS:

1. DASH-8 SECONDS (DEFAULT)-READS 127 ON 'NEXT DATA'
2. 0-SEND ONE BLOCK OF DATA
3. 1-126-MINUTES OF TEST

EACH CIRCUIT TESTED IS TESTED FOR THIS LENGTH OF TIME.

(CONTINUED ON WORD 1A)

TEST NO	TESTS 2 & 3		TESTS 2 & 3					CIRCUIT STATUS	ALARM STAT (TEST 1)	FAILURE INDEX	NUMBER FAILED	DATA TYPE	TESTS 1, 2 & 3		NETWORK ISDN FACILITIES TESTING
	TRUNK GROUP	TRUNK GROUP MEMBER	EQUIPMENT LOCATION										TEST STAT (TEST 2-3)	LENGTH OF TEST	
1	2	3	MODULE	CABINET	CARRIER	SLOT	CIRCUIT	9	10	11	12	13	14		

FLIPCHART

ISSUE 4

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DCIU TESTS

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84552223

NOTES:

1. DATA LINK MUST BE MAINTENANCE BUSIED TO RUN TEST 3.
2. BUSY-OUT AND RELEASE BUSY-OUT NOT VALID FOR UNTRANSLATED DATA LINKS IN TEST 3.
3. ONLY INTERNAL DCIU LOOPBACK TESTING IS ALLOWED ON THE OFF-LINE COMMON CONTROL.
4. PROPER INTERNAL DCIU LOOPBACK TESTING FOR AN ON-LINE UNASSIGNED DATA LINK MAY REQUIRE A LOOP-AROUND CONNECTOR.

5. FAILURE RATE (FIELD 13, TEST 3) SHOULD BE LESS THAN 1 PER 100,000 BITS SENT (I.E. PER 100 IN FIELD 14). IF FIELD 14 LESS THAN 1000, RESULTS ARE NOT CONCLUSIVE IF FIELD 13 LESS THAN 10. IF AN XRAY TAPE IS AVAILABLE, A SHORTENED TEST TO DETERMINE THE DCIU HARDWARE INTEGRITY UP TO THE LOCAL END CAN BE USED WITH A LOCAL LOOPBACK PLUG (GROUP 9, ED-1E422). THIS TEST LASTS APPROXIMATELY 32 SECONDS AND WILL LIGHT THE GREEN LED ON THE UN156 IF THE DCIU PASSES. HOWEVER, THE CIRCUIT PACK WILL CONTINUE TO BE TESTED UNTIL THE "STOP" BUTTON IS PUSHED. IF THE LINK IS LOOPED BACK AT IT'S REMOTE END, THE TEST MUST BE RUN AS SPECIFIED IN THE MAINTENANCE MANUAL.

FIELD LIMITS:

DATE LINK (FIELD 6): 1-8

LOOPBACK TYPE (FIELD 7): 0 = INTERNAL

1 = EXTERNAL MANUAL

2 = EXTERNAL AUTOMATIC

ALARM STATUS (FIELD 8): 1 = MAJOR

2 = MINOR

3 = WARNING

4 = ERRORS RECORDED

5 = ALARM RESOLVED

DCIU STATUS (FIELD 9): 0 = ONLINE AND OPERATIONAL

1 = OFFLINE AND OPERATIONAL

2 = ONLINE AND OUT OF SERVICE

3 = OFFLINE AND OUT OF SERVICE

DATA LINK STATUS (FIELD 10): 0 = TRANSLATED AND OPERATIONAL

1 = TRANSLATED AND BUSIED OUT

2 = UNTRANSLATED

WXR00

COMMON CONTROL  
PERIPHERALS

650



FLIPCHART

ISSUE 4

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PROCESSOR COMMUNICATION CIRCUIT (PCC) TESTS

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84552223

NOTES:

1. TEST NUMBER CAN ONLY BE CHANGED BY 'NEXT TEST'.

FIELD LIMITS:

FIELD 2 (CARRIER): 0-1

FIELD 3 (SLOT): 24-26

FIELD 4 (CIRCUIT): 0-1

FIELD 5 (CONTINUOUS FLAG):

0 = SINGLE ITERATION TEST

1 = RUN TEST CONTINUOUSLY

FIELD 6 (ALARM STATUS):

1 = MAJOR

2 = MINOR

3 = WARNING

4 = ERRORS RECORDED

5 = ALARM RESOLVED

FIELD 7 (CIRCUIT STATUS):

0 = CIRCUIT NOT TRANSLATED

1 = CIRCUIT BUSIED

2 = CIRCUIT TRANSLATED AND IN-SERVICE

3 = CIRCUIT CURRENTLY IN TEST

4 = CIRCUIT NON-OPERATIONAL

WJMD 0

COMMON  
CONTROL  
PERIPHERALS

651

## FLIPCHART

ISSUE 4

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## PROCESSOR COMMUNICATION CIRCUIT (PCC) TESTS

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845552223

TEST 1: DISPLAYS FAILURE HISTORY.

TEST 2: PCC SELF TEST AND INTERNAL  
LOOP AROUND TEST.TEST 3: PCC END-TO-END LOOP  
AROUND TEST.

USE 'CLEAR DATA' EXECUTE TO RESOLVE ALARM(S). (TEST 1)

USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILING CIRCUIT (TEST 1).

USE 'NEXT FAULT' TO DISPLAY NEXT SPECIFIC FAULT CODE (TEST 2).

USE 'BUSY OUT' TWICE TO MAINTENANCE BUSY DISPLAYED CIRCUIT  
(TEST 2 OR 3).

USE 'RLS BUSYOUT' TO RELEASE CIRCUIT FROM MAINTENANCE BUSY STATUS (TEST 2 OR 3).

USE 'NEXT CIRCUIT' TO SELECT PCC CIRCUIT FOR TESTING (TEST 2 OR 3).

USE 'STOP' TO TERMINATE TEST 3.

SPECIAL ERROR CODES:

80-BUSY OUT KEY PRESSED ONCE.

81-CIRCUIT MUST BE BUSIED OUT TO  
EXECUTE THIS TEST.

82-CIRCUIT NOT TRANSLATED AS USING THE BTC PROTOCOL

83-TEST 3 CANNOT BE EXECUTED ON THE OFF-LINE PROCESSOR

84-CANNOT COMMUNICATE WITH THE TN474-BUSY OUT FAILED

(CONT ON WORD 0)

TEST NUMBER	EQUIPMENT LOCATION			CONTINUOUS FLAG	ALARM STATUS	CIRCUIT STATUS	FAILURE INDEX	SPECIFIC FAULT CODE	NUMBER OF FAILED MESSAGES	NUMBER OF ATTEMPTED MESSAGES		COMMON CONTROL PERIPHERALS
	CARRIER	SLOT	CIRCUIT									
1	2	3	4	5	6	7	8	9	10	11		651



FLIPCHART  
ISSUE 1

ATTENDANT CONSOLE TESTS

84552223

TEST 1:  
DISPLAYS FAILURE HISTORY.  
USE 'CLEAR DATA', 'EXECUTE'  
TO RETIRE ALARMS.

TEST 2:  
TESTS ALL CIRCUITS.  
TO ISOLATE I/O FAILURES  
USE PROC 611.

TEST 3:  
TESTS A PARTICULAR CIRCUIT  
CONTINUOUSLY. USE 'NEXT  
CIRCUIT' TO ADVANCE TO  
NEXT CIRCUIT WITHIN  
DISPLAYED CARRIER.

NOTE:  
1. HANDSET MUST BE PLUGGED  
INTO CONSOLE FOR TESTS 2 & 3.

REMOTE STATUS  
(FIELD 6):  
0 = LOCAL  
1 = REMOTE

FAILURE CODES  
(FIELD 7):  
0 = PASS  
1 = ON-LINE PERIODIC

CONSOLE:  
4 = ADDRESSING  
5 = MESSAGE ECHO

USE 'NEXT CIRCUIT' TO DISPLAY NEXT FAILED CONSOLE.

TEST 3				CONSOLE NUMBER	REMOTE STATUS	FAIL CODE	NUMBER OF CONSOLES	NUMBER OF FAILED CHANNELS	FAILED CONSOLE INDEX	FAILURE HISTORY				COMMON CONTROL PERIPHERALS
TEST NO	EQUIPMENT LOCATION									FAILURES PER HOUR	FAILURES BEGAN (HOURS AGO)	MOST RECENT FAILURE		
	CARRIER	SLOT	CHANNEL									HOURS AGO	MINUTES AGO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	<b>653</b>

FLIPCHART

ISSUE 1

DISPLAY TERMINALS TEST

84552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'CLEAR DATA,' 'EXECUTE' TO RETIRE ALARM.

TEST 2: TESTS ALL TERMINALS (ECHO TEST). TO ISOLATE I/O FAILURES USE PROC 611.

TEST 3: TESTS A PARTICULAR TERMINAL CONTINUOUSLY (CYCLES THROUGH DIGIT DISPLAYS). USE 'NEXT CIRCUIT' TO ADVANCE TO THE NEXT TERMINAL. USE 'NEXT UNIT' TO ADVANCE TERMINAL TYPE IN FIELD 2.

TERMINAL TYPE (FIELD 2):  
1 = CALL NUMBER DISPLAY  
13 = CAS/FADS

FAILURE CODES (FIELDS 8&9):  
0 = PASS  
1 = DATA CHANNEL ADDRESS  
2 = NO REPLY-TERMINAL  
3 = 1&2  
4 = BAD REPLY-TERMINAL  
5 = 1&4  
6 = 2&4  
7 = 1,2,& 4

USE 'NEXT CIRCUIT' TO ADVANCE TO NEXT FAILING TERMINAL.

TEST NO	TERMINAL TYPE	EXTENSION NUMBER (TYPE 1) UNIT NUMBER (TYPE 13)	DATA CHANNEL EQPT LOCATION			DISPLAY DIGIT	FAILURE CODES		TOTAL CHANNELS FAILED	TIME STAMP			COMMON CONTROL PERIPHERALS
			CARR	SLOT	CHANNEL		ONCE	LAST		DAY	HOUR	MINUTE	
1	2	3	4	5	6	7	8	9	10	11	12	13	654

FLIPCHART

ISSUE 1

STATION MESSAGE DETAIL RECORDER TEST

845552223

TEST 1: DISPLAYS FAILURE HISTORY. USE 'NEXT DATA' TO SELECT ANOTHER FAILURE CODE (FIELD 13). USE 'CLEAR DATA','EXECUTE' TO RETIRE ALARM.

TEST 3: SENDS AND ALTERNATING ONE-ZERO PATTERN CONTINUOUSLY. USE PROC 275 TO DISABLE SMDR SERVICE.

TEST 4: SENDS A 16 MESSAGE PATTERN TO THE SMDR.

TEST 5: SENDS 1 TEST WORD. USE 'NEXT DATA' TO SELECT FROM LIST OF 10 TEST WORDS OR ENTER A TEST WORD. USE PROC 275 TO DISABLE SMDR SERVICE.

FAILURE CODES (FIELDS 7,8):

- 0 = PASS
- 1 = DATA CHANNEL ADDRESS
- 2 = BAD REPLY PARITY
- 3 = 1&2
- 4 = ECHO MISMATCH
- 5 = 1&4
- 6 = 2&4
- 7 = 1,2&4
- 8 = SMDR EQUIPMENT

FAILURE CODES (FIELD 13):

- 0 = SUMMARY DIS.
- 1 = NO REPLY OR ECHO MISMATCH
- 8 = SMDR EQUIPMENT

SPECIAL ERROR CODE:

80-'EXECUTE' OPERATED WITH SMDR SERVICE ENABLED FOR TEST 3 OR TEST 5.

TEST 2: ECHO TEST. TO ISOLATE I/O FAILURES USE PROC 611.

USE 'NEXT DATA' TO CHANGE MESSAGE LENGTH ENCODE:  
0 = 12 WORDS, 1 = 15 WORDS, 2 = 18 WORDS

ALARM CAUSE (FLD 9)

- 0 = NONE
- 1 = SMDR FAILURE

TEST NO	TEST WORD (TEST 5)		DATA CHANNEL EQPT LOCATION			FAILURE CODE		ALARM CAUSE	TIME STAMP			FAILURE CODE	TSTS 3 & 4	COMMON CONTROL PERIPHERALS
	OP CODE	DATA	CARR	SLOT	CHANNEL	ONCE	LAST		DAY	HOUR	MINUTE		MSG LENGTH ENCODE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	655



USE TEST 1 FOR XRAY TESTS.  
USE 'NEXT UNIT' TO SEQUENCE  
THROUGH THE TEST MODES.

NOTES:

1. USE PROC 600 FOR FAULT DIAGNOSIS.
2. WHILE PROC 900 IS EXECUTING, PRESSING THE BLANK KEY, ROW 2, COLUMN 2 (THE KEY JUST LEFT OF "WORD NO"), WILL START/STOP AN ERROR LOG REPORT PRINTOUT IF THE PRINTER BOARD AND PRINTER ARE PRESENT.

SPECIAL ERROR CODES:

- 80 = NO MODE SET
- 81 = XRAY RUNNING
- 82 = XRAY NOT RUNNING
- 83 = NO TRANSLATION, RUN PROC 901

FIELD LIMITS:

- FIELD 2:  
0 = CONTINUOUS  
1 = STOP ON ERROR  
2 = BURN-IN  
3 = STOP AFTER ONE PASS  
4 = NO MODE SET
- FIELD 3:  
0 = COMMON CONTROL  
1 = NETWORK

FIELD 10:

- 0 = XRAY NOT RUNNING
  - 1 = XRAY RUNNING
- FIELD 11:  
0 = NO ALARM  
1 = ALARM
- FIELD 12:  
0 = NO FAULTS  
1 = FAULT(S)

WORD 1 TEST NUMBER	TEST MODE	EQUIPMENT LOCATION				CLOCK			STATUS	ALARM	FAULT FLAG	TEST CYCLE COUNT	XRAY
		SUBSYSTEM	MODULE	CABINET	CARRIER	HOURS	MINUTES	SECONDS					
1	2	3	4	5	6	7	8	9	10	11	12	13	900



FIELD 9:

- 0 = UNEQUIPPED
- 1 = COMMON CONTROL 0
- 2 = COMMON CONTROL 1
- 4 = TMS 0 CONTROL
- 5 = TMS 0 GROWTH
- 6 = MODULE CONTROL 0
- 7 = MODULE CONTROL 1
- 8 = TMS 1 CONTROL
- 9 = TMS 1 GROWTH
- 11 = DS1 PORT
- 12 = FULL DENSITY PORT
- 15 = RMI

- FIELD 10: 0-30
- FIELD 11: 0-3
- FIELD 12: 0-3
- FIELD 13: 0-21

CARRIER CONVERSION FOR WORD 1: FIELDS 7 & 8

WORD 2: FIELDS 6 & 7

IOBI FIELD	CARRIER FIELD	PORT ELECT CARRIER (AS DESCRIBED IN PROC 250)
0	0	0
0	1	1
0	2	2
0	3	3
1	0	4
1	1	5
1	2	6
1	3	7
2	0	8
2	1	9
2	2	10
2	3	11

WORD 1A

XRAY

901





FIELD 7:

- 0 = MISSING/FAULTY
- 1 = INCONSISTENT CODE
- 2 = EXTRANEIOUS TONE BOARD
- 3 = EXTRANEIOUS AUXILIARY TONE BOARD
- 4 = CANNOT BRING MODULE  
PROCESSOR ONLINE
- 5 = BOARD IN ELECTRICAL ADDRESS 0
- 6 = CANNOT BRING TMS PROCESSOR ONLINE
- 7 = UNUSED
- 8 = 4MHZ CHANNEL IS MISSING
- 9 = I/O ERROR IN DUAL SPEED CHANNEL
- 10 = DS1 ERROR
- 11 = RCG ERROR
- 12 = RESERVED

- 50 = BOTH MODULE PROCESSORS ARE DEAD
- 51 = BOTH TMS PROCESSORS ARE DEAD
- 52 = MISSING BOARD
- 53 = INCONSISTENT CHIP ENCODE
- 54 = TMS OUT OF SEQUENCE
- 55 = TMS MIS-DUPLICATED
- 56 = SCS PLACEMENT ERROR
- 57 = ERROR IN PHYSICAL TO ELECTRICAL
- 58 = RMI PLACEMENT ERROR
- 59 = OFFLINE CC DOES NOT MATCH  
ONLINE CC
- 60 = CANNOT COMMUNICATE WITH  
OFFLINE CC
- 61 = RESERVED
- 99 = ATTISL USE

WORD 3A

XRAY

901

| | | | | | | | | | | | | | | | | | | | | |

NOTES:  
1. DISPLAYS SUMMARIES OF COMMON CONTROL CIRCUIT PACKS AND SYSTEM PERIPHERALS.  
2. THE BLANK KEY ROW 2 COLUMN 2 (THE KEY JUST LEFT OF "WORD NO") WILL START/STOP TRANSLATION REPORT PRINTING IN WORD 1 IF THE PRINTER BOARD AND PRINTER ARE PRESENT.

CODES:  
9 = DISCREPANCY  
FIELD 2:  
1 = SINGLE PROCESSOR  
2 = DUPLICATED PROCESSOR  
9 = DISCREPANCY  
FIELDS 6, 9, 10, 11:  
0 = NOT PRESENT  
1 = PRESENT  
2 = DUPLICATED  
8 = PRESENT, NOT HEALTHY

SPECIAL ERROR CODES:  
80-NO DATA, RUN PROC 901.  
81-DATA IS INCONSISTENT, RUN PROC 901.  
82-SLOT FAULT, CAN'T READ ID CHIP.  
83-INVALID CARRIER.  
84-CC ONLINE INVALID.  
85-CARRIER SPECIFIED IS A NETWORK CARRIER.  
86-INVALID PORT TRANSLATION.  
87-NON-PORT BOARD IN PORT CARRIER.  
88-PRINTER RUNNING.  
89-RCG NOT PRESENT IN CARRIER.

WORD 1	501CC	CACHE	MEMORY CIRCUIT PACK COUNT	REAL TIME CLOCK	DCIU	DATA CHANNEL PORT COUNT		RMATS	TMS	RMI	ATTND CONSOLE COUNT	PCC COUNT	TOTAL SYSTEM COUNTS				XRAY
						HIGH SPEED	LOW SPEED						4 MHZ MODULES	NETWORK MODULE	CABINET	CARRIER	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	902

NOTES:

1. DISPLAYS BOARD COUNT SUMMARIES OF TERMINAL SIDE, TONE PLANT, AND TT SENDER/RECEIVER EQUIPMENT.
2. FIELD 5 REPRESENTS COUNTS OF CIRCUIT PACK TYPES OTHER THAN THOSE SHOWN IN FIELDS 2, 3 & 4.

SPECIAL ERROR CODES:

- 80-NO DATA, RUN PROC 901
- 81-DATA IS INCONSISTENT, RUN PROC 901.
- 82-SLOT FAULT, CAN'T READ ID CHIP.
- 83-INVALID CARRIER
- 84-CC ONLINE INVALID
- 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER.
- 86-INVALID PORT TRANSLATION

- 87-NON-PORT BOARD IN PORT CARRIER
- 88-PRINTER RUNNING
- 89-RCG NOT PRESENT IN CARRIER

TERMINAL SIDE PORTS - CIRCUIT PACK COUNTS

CIRCUIT PACK COUNT

WORD 2

1	DIGITAL GPP	2	72 SERIES TERMINAL	3	ANALOG TERMINAL	4	ANALOG/DIGITAL OTHER	5		6	TONE PLANT -CP -AUX	7	TT SENDER	8	TT RECEIVER

XRAY

902

NOTES:

1. DISPLAYS BOARD COUNT SUMMARIES OF TRUNK SIDE PORT EQUIPMENT.
2. FIELD 6 REPRESENTS COUNTS OF CIRCUIT PACK TYPES OTHER THAN THOSE SHOWN IN FIELDS 2, 3, 4 & 5.

SPECIAL ERROR CODES:

- 80-NO DATA, RUN PROC 901
- 81-DATA IS INCONSISTENT, RUN PROC 901
- 82-SLOT FAULT, CAN'T READ ID CHIP
- 83-INVALID CARRIER
- 84-CC ONLINE INVALID
- 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER
- 86-INVALID PORT TRANSLATION
- 87-NON-PORT BOARD IN PORT CARRIER

88-PRINTER RUNNING

89-RCG NOT PRESENT IN CARRIER

TRUNK SIDE PORTS - CIRCUIT PACK COUNTS

WORD 3

1	2	3	4	5	6
CO	DID	TIE	AUX	OTHER	

XRAY

902



- NOTES:
1. DISPLAYS SUMMARIES OF TERMINAL SIDE, TONE PLANT, TT SENDER/RECEIVER EQUIPMENT.
  2. 'NEXT UNIT' INCREMENT MODULE NUMBER, FIELD 2.
  3. FIELD 6 REPRESENTS COUNTS OF CIRCUIT PACK TYPES OTHER THAN THOSE SHOWN IN FIELDS 3, 4 & 5.

- SPECIAL ERROR CODES:
- 80-NO DATA, RUN PROC 901
  - 81-DATA IS INCONSISTENT, RUN PROC 901
  - 82-SLOT FAULT, CAN'T READ ID CHIP
  - 83-INVALID CARRIER
  - 84-CC ONLINE INVALID
  - 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER
  - 86-INVALID PORT TRANSLATION
  - 87-NON-PORT BOARD IN PORT CARRIER
  - 88-PRINTER RUNNING
  - 89-RCG NOT PRESENT IN CARRIER

WORD 5	MODULE NUMBER	TERMINAL SIDE PORTS - CIRCUIT PACK COUNTS				CIRCUIT PACK COUNTS			XRAY
		DIGITAL GPP	72 SERIES TERMINAL	ANALOG TERMINAL	ANALOG/DIGITAL OTHER	TONE PLANT - C.P. - AUX.	TT SENDER	TT RECEIVER	
1	2	3	4	5	6	7	8	9	902

NOTES:

1. DISPLAYS BOARD COUNT SUMMARIES OF TRUNK SIDE PORT EQUIPMENT.
2. 'NEXT UNIT' INCREMENTS MODULE NUMBER, FIELD 2.
3. FIELD 7 REPRESENTS COUNTS OF CIRCUIT PACK TYPES OTHER THAN THOSE SHOWN IN FIELDS 3, 4, 5 & 6.

SPECIAL ERROR CODES:

- 80-NO DATA, RUN PROC 901
- 81-DATA IS INCONSISTENT, RUN PROC 901
- 82-SLOT FAULT, CAN'T READ ID CHIP
- 83-INVALID CARRIER
- 84-CC ONLINE INVALID
- 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER
- 86-INVALID PORT TRANSLATION
- 87-NON-PORT BOARD IN PORT CARRIER

88-PRINTER RUNNING

89-RCG NOT PRESENT IN CARR

WORD 6	MODULE NUMBER	TRUNK SIDE PORTS - CIRCUIT PACK COUNT					OTHER	XRAY
		CO	DID	TIE	AUX	OTHER		
1	2	3	4	5	6	7	902	

NOTES:

1. DISPLAYS COMMON CONTROL EQUIPMENT IN A SELECTED CABINET. ALSO, RESPECTIVE CARRIERS IN THE CABINET ARE IDENTIFIED.
2. 'NEXT UNIT' INCREMENTS MODULE NUMBER, FIELD 2.
3. 'NEXT CIRCUIT' INCREMENTS CABINET NUMBER, FIELD 3.
4. IOBI AND PDS COUNTS (IN FIELDS 8 & 9) REFLECT IOBIS AND PDS TRANSLATED BY PRC901.

CARRIER CODE (FIELDS 4, 6, 8, 10):

- |                  |                  |
|------------------|------------------|
| 0 = UNEQUIPPED   | 11 = DSI         |
| 1 = CC0          | 12 = PORT        |
| 2 = CC1          | 15 = RMI CARRIER |
| 4 = TMS 0        |                  |
| 5 = TMS 0 GROWTH |                  |
| 6 = MC 0         |                  |
| 7 = MC 1         |                  |
| 8 = TMS 1        |                  |
| 9 = TMS 1 GROWTH |                  |

SPECIAL ERROR CODES:

- 80-NO DATA, RUN PROC 901
- 81-DATA IS INCONSISTENT, RUN PROC 901
- 82-SLOT FAULT, CAN'T READ ID CHIP
- 83-INVALID CARRIER
- 84-CC ONLINE INVALID
- 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER
- 86-INVALID PORT TRANSLATION
- 87-NON-PORT BOARD IN PORT CARRIER.

- 88-PRINTER RUNNING
- 89-RCG NOT PRESENT IN CARRIER.

WORD 7	MODULE NUMBER	CABINET NUMBER	PHYSICAL CARRIER POSITION						CIRCUIT PACK COUNT		CIRCUIT PACK COUNTS			XRAY			
			CARRIER 0	RCG CNT 0	CARRIER 1	RCG CNT 1	CARRIER 2	RCG CNT 2	CARRIER 3	RCG CNT 3	IOBI	PDS	TONE PLANT - AUX. - CP		TT SENDER	TT RECEIVER	
1	.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	902

NOTES:

1. DISPLAYS CIRCUIT PACK SUMMARIES FOR BOTH TERMINAL SIDE AND TRUNK SIDE PORT EQUIPMENT.
2. 'NEXT UNIT' INCREMENTS MODULE NUMBER, FIELD 2.
3. 'NEXT CIRCUIT' INCREMENTS CABINET NUMBER, FIELD 3.
4. FIELD 7 REPRESENTS COUNTS OF TERMINAL SIDE CIRCUIT PACKS OTHER THAN THOSE SHOWN IN FIELDS 4, 5, & 6.
5. FIELD 12 REPRESENTS COUNTS OF TRUNK SIDE CIRCUIT PACKS OTHER THAN THOSE SHOWN IN FIELDS 8, 9, 10 & 11.

SPECIAL ERROR CODES:

- 80-NO DATA, RUN PROC 901.
- 81-DATA IS INCONSISTENT, RUN PROC 901.
- 82-SLOT FAULT, CAN'T READ ID CHIP.
- 83-INVALID CARRIER.
- 84-CC ONLINE INVALID.
- 85-CARRIER SPECIFIED IS NOT A NETWORK CARRIER.
- 86-INVALID PORT TRANSLATION.
- 87-NON-PORT BOARD IN PORT CARRIER.

88-PRINTER RUNNING.

89-RCG NOT PRESENT IN CARRIER.

WORD 8	MODULE NUMBER	CABINET NUMBER	TERMINAL SIDE PORTS - CIRCUIT PACK COUNTS				TRUNK SIDE PORTS - CIRCUIT PACK COUNTS					XRAY								
			DIGITAL GPP	72 SERIES TERMINAL	ANALOG TERMINAL	ANALOG/DIGITAL OTHER	CO	DID	TIE	AUX	OTHER									
1		2	3		5		6		7		8		9		10		11		12	902

NOTES:

1. DISPLAYS A 3-DIGIT CIRCUIT PACK CODE AND A SINGLE PREFIX DIGIT FOR EACH SLOT IN A SELECTED 4 - SLOT GROUP IN THE CARRIER. (E.G., SN 230 WILL DISPLAY 1.230).
2. 'NEXT UNIT' INCREMENTS CABINET NUMBER, FIELD 3.
3. 'NEXT CIRCUIT' INCREMENTS SLOT GROUP NUMBER, FIELD 5.
4. 'NEXT DATA' DISPLAYS REMOTE CARRIER GROUP CIRCUIT PACKS.
5. EACH GROUP NUMBER REPRESENTS A SET OF 4 SLOTS, THE SLOT NUMBERS FOR EACH GROUP FOR FIELD 8, 10, 12 & 14 ARE SHOWN IN THE GR-SLT TABLES.

SPECIAL ERROR CODES:

- 80-NO DATA RUN PROC 901.
- 81-DATA FAULT RUN PROC 901.
- 82-SLOT FAULT RUN PROC 901.
- 83-NOT VALID CARRIER.
- 84-ONLY ONLINE CC CKT PACK CODES ARE DISPLAYED.
- 85-CARRIER DOES NOT EXIST.
- 86-BOARD MISSING OR NOT TRANSLATED CORRECTLY.

- 87-NON PORT BOARD IN PORT CARRIER.
- 88-PRINTER RUNNING.
- 89-NO RC0 PRESENT.

WORD 9	PHYSICAL LOCATION					CIRCUIT PACK CODES								XRAY	
	MODULE NUMBER	CABINET NUMBER	CARRIER NUMBER	GROUP NUMBER	CARRIER TYPE	GROUP		GROUP		GROUP		GROUP			
						PREFIX		PREFIX		PREFIX		PREFIX			
1		2	3	4	5	6	7	8	9	10	11	12	13	14	902

FIELD 6 - CARRIER TYPE:

- 0 = UNEQUIPPED
- 1 = COMMON CONTROL
- 2 = CC POWER
- 3 = PWR - I/O
- 4 = TMS 0
- 5 = TMS 0 GROWTH
- 6 = MC 0
- 7 = MC 1
- 8 = TMS 1
- 9 = TMS 1 GROWTH
- 11 = DSI CARRIER
- 12 = PORT CARRIER
- 15 = REMOTE MODULE  
INTF CARRIER

FIELD 7, 9, 11, 13:

- 1 = CP SERIES SN
- 2 = CP SERIES TN
- 3 = CP SERIES TN
- 4 = CP SERIES UN
- 5 = CP SERIES ANN

WORD 9A

XRAY

902

. . . . .

NOTES:

1. TEST 1 ALLOWS MODIFICATION OF VARIABLE PRINTER PARAMETERS.
2. BOTH THE PRINTER AND TERMINAL MUST BE SET UP WITH 8 BITS/CHARACTER, NO PARITY, AND 1 STOP BIT.
3. 'NEXT-UNIT' CHANGES THE SPEED.
4. 'NEXT CIRCUIT' CHANGES CARRIAGE RETURN TIMING.
5. 'EXECUTE' CAUSES PRINTER INTERFACE TO BE RE-INITIALIZED.
6. 'CHANGE FIELD' CAN BE USED TO ENTER FIELDS 2 & 3.

CAUTION: 'PRINT' KEY CAUSES A TEST MESSAGE TO BE PRINTED.

FIELD LIMITS:

FIELD 2:

- 0 = 300 BAUD
- 1 = 1200 BAUD
- 2 = 2400 BAUD
- 3 = 4800 BAUD
- 4 = 9600 BAUD
- 5 = 19200 BAUD

FIELD 3: 0-30

SPECIAL ERROR CODES:

90-CANT CHANGE OPTION WHILE  
A REPORT IS PRINTING.

WORD 1

SPEED

CARRIAGE  
RETURN  
TIMING

1

2

3

XRAY

904







FLIPCHART  
ISSUE 3

+

+

CONNECTION ACTIVITY

+

+

84552223

NOTES (CONTINUED):

TEST 5:

DISPLAY CONSTAT TBL. NBR, ACPORT

TBL NBR, CONN NBR, TS-ID ACC NBR

FOR AN ENTERED DTDM EQUIPMENT

LOCATION.

WORD 0

CONNECTION  
ACTIVITY

**961**



FLIPCHART

ISSUE 3

+

+

FACILITY CONNECTIONS

+

+

84552223

FIELD LIMITS (CONTINUED):

FLD 10: INTERNATIONAL NBR TYPE

1 = INTERNATIONAL NBR

2 = QUEUEING TRK

3 = ICOM RECORD

4 = ATND SWITCH LOOP

5 = ATND OR 6 = DIAL PULSE OR

FLD 16: HOW LINKED

1 = TRK-FAC1

2 = TRK-FAC2

3 = TRK-FAC3

4 = TERMINAL

6 = TERMINAL-

CONFERENCE

CFAC1-8

WORD 0

FACILITY  
CONNECTION

962

FLIPCHART  
ISSUE 1

+

+

MEMORY WORD DISPLAY

+

+

84552223

TO DISPLAY MEMORY WORD:  
OPERATE 'DISPLAY', ENTER ADDRESS (IN OCTAL), AND  
THEN OPERATE 'ENTER'. DATA IS DISPLAYED IN OCTAL.  
OPERATE 'NEXT DATA' TO DISPLAY DATA IN NEXT MEMORY  
WORD.

NOTE: IF DATA = 999999, THEN THE WORD  
HAS BAD PARITY.

ADDRESS

1

DATA

2

MEMORY WORD  
DISPLAY

**999**

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
MODE		9	SYS MGMT PORT STATUS	001		9	TERM TRANS MULT EXT	012	3	9	NAME DATABASE	027	3	9	ACD ORIGIN ANCMT
MODE	1A	9	MGMT PORT STATUS	003	1	9	RECENTLY DISC EXT	013	1	9	MNEMONIC DIALING	028	1	9	CMS
TERM		9	TYPES OF TERMS	010	1	9	EXT COS FEAT	013	1A	9	MNEMONIC DIALING	028	2	9	BUSY OUT CMS
TERM	1A	9	TYPES OF TERMS	010	1A	9	EXT COS FEAT	013	2	9	MNEMONIC DIALING	030	1	9	CALL VECTORING
TPE		9	RUN TAPE	010	2	9	EXT COS FEAT	013	2A	9	MNEMONIC DIALING	030	2	9	CALL VECTORING
TPE	1A	9	RUN TAPE	010	3	9	COS RSTCN	013	3	9	NO OF MNEMONICS	030	3	9	CALL VECTORING
TPE	1B	9	RUN TAPE	010	4	9	COS RSTCN	026	1	9	ACD SPLIT	030	3A	9	CALL VECTORING
000	1	9	SINGLE TERM TRANS	010	4A	9	COS RSTCN	026	1A	9	ACD SPLIT	030	3B	9	CALL VECTORING
000	1A	9	SINGLE TERM TRANS	011	1	9	CALL COVERAGE CRITERIA	026	2	9	ACD SPLIT	030	3C	9	CALL VECTORING
000	1B	9	SINGLE TERM TRANS	011	1A	9	CALL COVERAGE CRITERIA	026	2A	9	ACD SPLIT	031	1	9	CALL VECTORING
000	2	9	SINGLE TERM FEAT	011	1B	9	CALL COVERAGE CRITERIA	026	3	9	ACD SPLIT MEMBERS	031	1A	9	VDN TERM
000	2A	9	SINGLE TERM FEAT	012	1	9	NAME DATABASE	026	4	9	ACD SYS SUPERVISOR	031	2	9	CALL VECTOR TERM
000	3	9	SINGLE TERM MISC.	012	1A	9	NAME DATABASE	027	1	9	ACD 1ST RCD ANCMT	032	1	9	CALL VECTORING
000	4	9	EXT NPA-NXX	012	2	9	NAME DATABASE	027	1A	9	ACD 1ST RCD ANCMT	033	1	9	CALL VECTORING
000	4A	9	EXT NPA-NXX	012	2A	9	NAME DATABASE	027	2	9	ACD 2ND RCD ANCMT	051	1	9	TERM TRANS

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
100	0C	9	TRK TYPE ENCD	103		9	NET TRK GRP TRNSL	107	7	9	ATMS - ALARM THRESHOLDS	178	1	9	SEARCH FOR TRK CHAR
100	0D	9	TRK GRP TRANS	103	1A	9	NET TRK GRP TRNSL	108	1	9	ISDN TERM TST LN ASSIGN	178	1A	9	SEARCH FOR TRK CHAR
100	1	9	TRK GRP TRANS	104	1	9	MAIN/SATELLITE SYS TRNSL	110		9	TRK DAC RSTCN	180	1	9	MODEM POOL
100	1A	9	TRK GRP TRANS	104	2	9	MAIN/SATELLITE TRK GRPS	111		9	TND TIE/TRK- TO-TRK REST	180	1A	9	MODEM POOL
100	1B	9	TRK GRP TRANS	104	2A	9	MAIN/SATELLITE TRK GRPS	115		9	TRK GRP TERM	200	1	9	CONSOLE FEAT
100	2	9	TRK GRP	106		9	TRK MAINTENANCE BUSY LIST	115	1A	9	TRK GRP TERM	200	1A	9	CONSOLE FEAT
100	2A	9	TRK GRP	106	1A	9	TRK MAINTENANCE BUSY LIST	116	1	9	DS1 TRK ASSIGNS	201	1	9	CNSL-BLF/DXS GRP SEL BTNS
100	3	9	TRK GRP	107	1	9	TERM TST LN ASSIGN	116	1A	9	DS1 TRK ASSIGNS	201	2	9	CONSOLE EXTENDED DXS
100	3A	9	TRK GRP	107	2	9	MARGINAL THRESHOLDS TSTS	116	1B	9	DS1 TRK ASSIGNS	202	1	9	CNSL DIR TRK GRP SEL
100	4	9	TRK GRP ROUTE ADV	107	2A	9	MARGINAL THRESHOLDS TSTS	120	1	9	AUTO CIRCUIT ASSUR	202	1A	9	CNSL DIR TRK GRP SEL
100	7	9	ITG	107	3	9	ATMS-TST SCHEDULE	150		9	TRK FEAT	203	1	9	CONSOLE CNTRL BTNS
101	1	9	TRK GRP CHAR	107	4	9	ATMS-TRK ASGMT TO SCHED	150	1A	9	TRK FEAT	203	1A	9	CONSOLE CNTRL BTNS
101	1A	9	TRK GRP TRANS	107	5	9	DSP TRK ASGMT BY SCHEDULE	155		9	CONTACT INTERFACE	204	1	9	CONSOLE MSG
101	2	9	TRK GRP CHAR	107	6	9	BUSY OUT THRSILDs TSTS	155	1A	9	CONTACT INTERFACE	204	1A	9	CONSOLE MSG
102		9	MISC TRK RSTCN GRPS	107	6A	9	BUSY OUT THRSILDs TSTS	175		9	DISP MISC TRK RSTCN GRPS	204	1B	9	CONSOLE MSG

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
210	1	9	EQPT LOCATION	253		9	DATA CHANS	257	3	9	DCIU TG & DCS NODES	260	1A	9	DS1 & RCL
210	2	9	CONSOLE ASSIGNS	253	1A	9	DATA CHANS	257	3A	9	DCIU TG & DCS NODES	260	1B	9	DS1 & RCL
210	2A	9	CONSOLE ASSIGNS	254		9	DIAL PULSE	257	4	9	ALTERNATE RTNG	261	1	9	LOCAL ADJUNCT CHAR
211	1	9	CAS BRANCH	255	1	9	PCC LINK ATTRIBUTES	257	4A	9	ALTERNATE RTNG	261	2	9	NET ADJUNCT CHAR
211	2	9	BRANCH OUTGOING RLT	255	1A	9	PCC LINK ATTRIBUTES	257	5	9	DCIU PORT RESERV	262	1	9	ISDN BOARD PARAMETERS
212	1	9	MAIN BRANCH NO	255	2	9	PCC ATTRIBUTES	257	5A	9	DCIU PORT RESERV	262	1A	9	ISDN BOARD PARAMETERS
212	2	9	CAS MAIN RLT LAMP ASGMT	255	2A	9	PCC ATTRIBUTES	257	5B	9	DCIU PORT RESERV	263	1	9	SPA ALARM SPECIFICATION
250	1	9	CARRIERS	256	1	9	DCIU LINK ASGMT	257	5C	9	DCIU PORT RESERV	270	1	9	EXT PARTITIONS
250	1A	9	CARRIERS	256	1A	9	DCIU LINK ASGMT	257	6	9	DCIU ENHANCED PORTS	270	2	9	PART OVERFLOW & REST
250	1B	9	CARRIERS	256	2	9	DCIU LVL 2 LINK CHAR	257	6A	9	DCIU ENHANCED PORTS	270	3	9	UNATT CON ASG
250	1C	9	CARRIERS	256	3	9	DCIU LVL 3 LINK CHAR	258	1	9	REBOOT DCIU	270	4	9	LDN ASSIGNS
250	1D	9	CARRIERS	257	1	9	DCIU NTWK CHNLS	258	1A	9	REBOOT DCIU	270	5	9	TRK GRPS
252	1	9	TONE PLANTS	257	1A	9	DCIU NTWK CHNLS	258	2	9	REFRSH DCIU SCR-PAD	275	1	9	SYS COS-AIOD & FEAT
252	2	9	TONE PLANTS	257	2	9	DCIU PORT CHAR	258	2A	9	REFRSH DCIU SCR-PAD	275	1A	9	AIOD & FEAT
252	2A	9	TONE PLANTS	257	2A	9	DCIU PORT CHAR	260	1	9	DS1 & RCL	275	2	9	UNATND CNSL SRV

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
275	3	9	SYS COS- MISC	285		9	SYS COS NET	290	1	9	CIRCUIT STATUS	309	3A	9	ARS SUBNET TRK
275	3A	9	SYS COS- MISC	285	1A	9	SYS COS NET	290	1A	9	STATUS	309	4	9	ARS DIGITS INSERTED
275	4	9	SYS COS- MISC	286	1	9	CUST CHG SYS COS NET	290	2	9	INSTALLED CIRCUIT PACK ID	309	5	9	ARS PARAMETERS
275	4A	9	SYS COS- MISC	286	1A	9	CUST CHG SYS COS NET	290	2A	9	INSTALLED CIRCUIT PACK ID	309	5A	9	ARS PARAMETERS
276	1	9	FEAT GRP COS	287		9	ARS CLOCKED MAN OVRD	300		9	0/1 TOLL NON RSTRD CD	311	1	9	ARS - HOME NPA
276	1A	9	FEAT GRP COS	287	1A	9	ARS CLOCKED MAN OVRD	301	1	9	CODE RSTRN TRK & TYPE	311	2	9	ARS - FOREIGN NPA
277	1	9	AGENT ASSIGN	288	1	9	CALL DETAIL FORMAT OPTS	301	2	9	CODE RSTRN DIGIT ABSORP	311	2A	9	ARS - FOREIGN NPA
277	2	9	ASSIGN APPLICATIONS	288	1A	9	CALL DETAIL FORMAT OPTS	301	3	9	ALLOWED CD- PRIM RSTCN	311	3	9	ARS-DIGIT TRANS
277	3	9	HISTORY	288	2	9	CALL DETAIL FORMAT OPTS	302		9	CODE RSTCN	312	1	9	10-DIGIT CONVERSION
277	3A	9	HISTORY	288	2A	9	CALL DETAIL FORMAT OPTS	305	1	9	AUTOVON	312	2	9	10-DIGIT CONVERSION
281	1	9	AUTH CODE ALGORITHM	288	2B	9	CALL DETAIL FORMAT OPTS	305	2	9	AUTOVON NNXD ROUTING	312	3	9	INTERNATIONAL ROUTING
282	1	9	AUTH CODE	288	2C	9	CALL DETAIL FORMAT OPTS	309	1	9	ARS-ROUTE TBLS	312	3A	9	INTERNATIONAL ROUTING
282	2	9	AUTH CODE-NO	288	2D	9	CALL DETAIL FORMAT OPTS	309	1A	9	ARS-ROUTE TBLS	313	1	9	UNAUTHORIZED CALL CNTRL
283	1	9	FRL RELATED SEARCHES	289	1	9	PROGRAMMABLE INTERCEPT	309	2	9	ARS TOLL TBL	314	1	9	ARS ROUTING
284		9	SYS CLOCK	289	1A	9	PROGRAMMABLE INTERCEPT	309	3	9	ARS SUBNET TRK	316		9	ARS 7 DAY CLOCK

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
320	1	9	AAR CALL CATEGORY	330	2	9	QUEUING TRK GRP TRANS	354	3	9	NPA-NXX ASSIGN	420		9	PROCESSOR DATA
320	2	9	ARS CALL CATEGORY	330	2A	9	QUEUING TRK GRP TRANS	356	1	9	PRECEDENCE CALL	420	1A	9	PROCESSOR DATA
320	3	9	ARS CALL CATEGORY	350	0	9	FEAT DIAL CODE ENCD	360	1	9	DEDICATED SWITCH CONN	421	1	9	TRAFF DATA DISPL & RESET
321	1	9	AAR-ROUTE TBLS	350	0A	9	FEAT DIAL CODE ENCD	360	1A	9	DEDICATED SWITCH CONN	421	1A	9	TRAFF DATA DISP & RESET
321	1A	9	AAR-ROUTE TBLS	350	1	9	DIALING PLAN FIRST DIGIT	410		9	TRAFF STUDIES XLN & CLK	421	2	9	TRAFF EQPT LOC INDX DISPL
321	2	9	AAR-SUBNET TRK	350	1A	9	DIALING PLAN FIRST DIGIT	410	1A	9	TRAFF STUDIES XLN & CLK	421	3	9	TRAFF NTWK CHAN INDX
321	3	9	AAR-DIGITS INSERTED	350	2	9	DIALING PLAN FEAT ACCESS	411	1	9	TRAFFIC STUDIES LOAD BAL	426		9	FORCE ADMIN DATA SYS
321	4	9	AAR-ROUTING	350	2A	9	DIALING PLAN FEAT ACCESS	411	2	9	TRAFFIC STUDIES CARR USAGE	450		9	CUST TRAFF STDY XLN & CLK
321	4A	9	AAR-ROUTING	350	3	9	BURNED-IN CODE FEAT	413	1	9	TRAFFIC STUDIES TG COMB	450	1A	9	CUST TRAFF STDY XLN & CLK
321	4B	9	AAR-ROUTING	354	1	9	EXT GRPS	413	2	9	TRAFF STUDIES SPEC MEAS	451	1	9	CUST TRAFF STDY LOAD BAL
321	5	9	ISDN AAR- TRANS	354	1A	9	EXT GRPS	414	1	9	TRAFF STUDIES PEAK REG	451	2	9	CUST TRAFF STDY CARRIER
321	5A	9	ISDN AAR- TRANS	354	2	9	EXT DESTINATION	414	1A	9	TRAFF STUDIES PEAK REG	453	1	9	CUST TRAFF STDY TG COMB
322	1	9	PORTABILITY ROUTING	354	2A	9	EXT DESTINATION	414	2	9	TRAFF STUDIES TC REG	453	2	9	CUST TRAFF STDY SPEC MEAS
322	1A	9	PORTABILITY ROUTING	354	2B	9	EXT DESTINATION	414	2A	9	TRAFF STUDIES TC REG	454	1	9	CUST TRAFF STDY PEAK REG
330	1	9	QUEUING SYS TRANS	354	2C	9	EXT DESTINATION	415		9	TRAFF STUDIES MAIN/SAT	454	1A	9	CUST TRAFF STDY PEAK REG

PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE	PROC	WRD	ISS	TITLE
454	2	9	CUST TRAFF STDY TC REG	600	1	9	GENERAL SYS	620	1A	9	NET	635	1	9	NET BUSY OUT
454	2A	9	CUST TRAFF STDY TC REG	600	1A	9	GENERAL SYS	621	1	9	NET	635	1A	9	NET BUSY OUT
455		9	CUST TRAFF STDY MAIN/SAT	601	1	9	GENERAL SYS	621	1A	9	NET	635	1B	9	NET BUSY OUT
461	1	9	CUST TRAFF DATA DISPL	610	1	9	COMMON CNTRL TSTS	622	1	9	NET	640	1	9	NET
461	1A	9	CUST TRAFF DATA DISPL	611	1	9	COMMON CNTRL TSTS	622	1A	9	NET	640	1A	9	NET
461	2	9	CUST TRAFF INDEX DISPL	612		9	COMMON CNTRL TSTS	623	1	9	NET	642	1	9	NET TST CALLS
461	3	9	CUST TRAFF NTWK CHAN INDX	613	1	9	COMMON CNTRL TSTS	624	1	9	NET	643	1	9	NET TST CALLS
490	1	9	PATCH BLK IDENT	613	1A	9	COMMON CNTRL TSTS	625	1	9	NET FACILITY MONITOR	644	1	9	NET TST CALLS
490	1A	9	PATCH BLK IDENT	614	1	9	COMMON CNTRL TSTS	625	1A	9	NET FACILITY MONITOR	646	1	9	NET
490	2	9	PATCH DATA	614	1A	9	COMMON CNTRL TSTS	630	1	9	NET BUSY OUT	646	1A	9	NET
490	2A	9	PATCH DATA	615	1	9	COMMON CNTRL TSTS	631	1	9	NET BUSY OUT	646	1B	9	NET
497	0	9	CUST IDENTIFICATION	616	1	9	COMMON CNTRL TSTS	632	1	9	NET BUSY OUT	646	1C	9	NET
497	1	9	CUST SERIAL NBR	618	1	9	COMMON CNTRL TSTS	632	1A	9	CARR BUSY NTWRK BUSY OUT	647	1	9	NET ATMS TSTS
497	2	9	CUST IDENTIFICATION	618	1A	9	COMMON CNTRL TSTS	632	1B	9	CARR BUSY NTWRK BUSY OUT	647	1A	9	NET ATMS TSTS
497	3	9	CUST	620	1	9	NET	632	1C	9	CARR BUSY NTWRK BUSY OUT	647	1B	9	NET ATMS TSTS

